

ANALYTICAL REPORT

Job Number: 460-112001-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
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Attention: Mr. Brian Jankauskas



Approved for release.
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4/15/2016 11:35 AM

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04/15/2016

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

Report Number: 460-112001-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 4/12/2016 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Receipt Exceptions

The following samples were canceled for TCLP metals analysis by the client on 4/15/16: A5_N_6 (460-112001-1), A5_N_12 (460-112001-2), A5_S_6 (460-112001-3) and A5_S_12 (460-112001-4).

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

METALS

Samples A5_N_6 (460-112001-1), A5_N_12 (460-112001-2), A5_S_6 (460-112001-3) and A5_S_12 (460-112001-4) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared and analyzed on 04/13/2016.

Samples A5_N_6 (460-112001-1)[4X], A5_N_12 (460-112001-2)[4X], A5_S_6 (460-112001-3)[4X] and A5_S_12 (460-112001-4)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples A5_N_6 (460-112001-1), A5_N_12 (460-112001-2), A5_S_6 (460-112001-3) and A5_S_12 (460-112001-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 04/12/2016.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-112001-1	A5_N_6	Solid	04/12/16 14:00	04/12/16 16:50
460-112001-2	A5_N_12	Solid	04/12/16 13:50	04/12/16 16:50
460-112001-3	A5_S_6	Solid	04/12/16 13:40	04/12/16 16:50
460-112001-4	A5_S_12	Solid	04/12/16 13:30	04/12/16 16:50

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_N_6

Lab Sample ID: 460-112001-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	10100		43.9	22.6	mg/Kg	4	✖		6010C	Total/NA
Arsenic	6.1		3.3	1.1	mg/Kg	4	✖		6010C	Total/NA
Barium	52.7		43.9	1.6	mg/Kg	4	✖		6010C	Total/NA
Beryllium	0.37	J	0.44	0.37	mg/Kg	4	✖		6010C	Total/NA
Cadmium	0.58	J	0.88	0.46	mg/Kg	4	✖		6010C	Total/NA
Calcium	1160		1100	64.9	mg/Kg	4	✖		6010C	Total/NA
Chromium	15.2		2.2	1.1	mg/Kg	4	✖		6010C	Total/NA
Cobalt	4.8	J	11.0	1.3	mg/Kg	4	✖		6010C	Total/NA
Copper	15.4		5.5	1.4	mg/Kg	4	✖		6010C	Total/NA
Iron	14800		32.9	24.8	mg/Kg	4	✖		6010C	Total/NA
Lead	24.9		2.2	0.86	mg/Kg	4	✖		6010C	Total/NA
Magnesium	1420		1100	54.7	mg/Kg	4	✖		6010C	Total/NA
Manganese	246		3.3	1.2	mg/Kg	4	✖		6010C	Total/NA
Nickel	12.0		8.8	1.6	mg/Kg	4	✖		6010C	Total/NA
Potassium	321	J	1100	33.2	mg/Kg	4	✖		6010C	Total/NA
Vanadium	18.6		11.0	1.1	mg/Kg	4	✖		6010C	Total/NA
Zinc	83.4		6.6	1.6	mg/Kg	4	✖		6010C	Total/NA

Client Sample ID: A5_N_12

Lab Sample ID: 460-112001-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9700		42.5	21.9	mg/Kg	4	✖		6010C	Total/NA
Arsenic	4.0		3.2	1.0	mg/Kg	4	✖		6010C	Total/NA
Barium	35.8	J	42.5	1.5	mg/Kg	4	✖		6010C	Total/NA
Beryllium	0.36	J	0.43	0.36	mg/Kg	4	✖		6010C	Total/NA
Calcium	1030	J	1060	62.9	mg/Kg	4	✖		6010C	Total/NA
Chromium	18.9		2.1	1.0	mg/Kg	4	✖		6010C	Total/NA
Cobalt	6.4	J	10.6	1.2	mg/Kg	4	✖		6010C	Total/NA
Copper	13.7		5.3	1.4	mg/Kg	4	✖		6010C	Total/NA
Iron	16400		31.9	24.0	mg/Kg	4	✖		6010C	Total/NA
Lead	14.1		2.1	0.83	mg/Kg	4	✖		6010C	Total/NA
Magnesium	1520		1060	53.0	mg/Kg	4	✖		6010C	Total/NA
Manganese	284		3.2	1.1	mg/Kg	4	✖		6010C	Total/NA
Nickel	16.3		8.5	1.6	mg/Kg	4	✖		6010C	Total/NA
Potassium	341	J	1060	32.2	mg/Kg	4	✖		6010C	Total/NA
Selenium	1.5	J	4.3	1.5	mg/Kg	4	✖		6010C	Total/NA
Vanadium	17.7		10.6	1.1	mg/Kg	4	✖		6010C	Total/NA
Zinc	90.5		6.4	1.6	mg/Kg	4	✖		6010C	Total/NA

Client Sample ID: A5_S_6

Lab Sample ID: 460-112001-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9540		42.1	21.7	mg/Kg	4	✖		6010C	Total/NA
Arsenic	3.4		3.2	1.0	mg/Kg	4	✖		6010C	Total/NA
Barium	58.1		42.1	1.5	mg/Kg	4	✖		6010C	Total/NA
Beryllium	0.37	J	0.42	0.36	mg/Kg	4	✖		6010C	Total/NA
Calcium	966	J	1050	62.3	mg/Kg	4	✖		6010C	Total/NA
Chromium	14.8		2.1	1.0	mg/Kg	4	✖		6010C	Total/NA
Cobalt	4.9	J	10.5	1.2	mg/Kg	4	✖		6010C	Total/NA
Copper	10.3		5.3	1.4	mg/Kg	4	✖		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_S_6 (Continued)

Lab Sample ID: 460-112001-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	13400		31.6	23.8	mg/Kg	4		☼	6010C	Total/NA
Lead	58.1		2.1	0.83	mg/Kg	4		☼	6010C	Total/NA
Magnesium	1480		1050	52.5	mg/Kg	4		☼	6010C	Total/NA
Manganese	203		3.2	1.1	mg/Kg	4		☼	6010C	Total/NA
Nickel	13.9		8.4	1.5	mg/Kg	4		☼	6010C	Total/NA
Potassium	333	J	1050	31.9	mg/Kg	4		☼	6010C	Total/NA
Vanadium	16.8		10.5	1.1	mg/Kg	4		☼	6010C	Total/NA
Zinc	115		6.3	1.5	mg/Kg	4		☼	6010C	Total/NA

Client Sample ID: A5_S_12

Lab Sample ID: 460-112001-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	10800		42.8	22.0	mg/Kg	4	✖	☼	6010C	Total/NA
Arsenic	5.4		3.2	1.1	mg/Kg	4	✖	☼	6010C	Total/NA
Barium	49.0		42.8	1.5	mg/Kg	4	✖	☼	6010C	Total/NA
Beryllium	0.38	J	0.43	0.36	mg/Kg	4	✖	☼	6010C	Total/NA
Calcium	1230		1070	63.3	mg/Kg	4	✖	☼	6010C	Total/NA
Chromium	15.8		2.1	1.0	mg/Kg	4	✖	☼	6010C	Total/NA
Cobalt	6.1	J	10.7	1.2	mg/Kg	4	✖	☼	6010C	Total/NA
Copper	14.2		5.3	1.4	mg/Kg	4	✖	☼	6010C	Total/NA
Iron	15200		32.1	24.2	mg/Kg	4	✖	☼	6010C	Total/NA
Lead	117		2.1	0.84	mg/Kg	4	✖	☼	6010C	Total/NA
Magnesium	1630		1070	53.4	mg/Kg	4	✖	☼	6010C	Total/NA
Manganese	241		3.2	1.1	mg/Kg	4	✖	☼	6010C	Total/NA
Nickel	12.3		8.6	1.6	mg/Kg	4	✖	☼	6010C	Total/NA
Potassium	328	J	1070	32.4	mg/Kg	4	✖	☼	6010C	Total/NA
Selenium	1.5	J	4.3	1.5	mg/Kg	4	✖	☼	6010C	Total/NA
Vanadium	19.0		10.7	1.1	mg/Kg	4	✖	☼	6010C	Total/NA
Zinc	106		6.4	1.6	mg/Kg	4	✖	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_N_6

Date Collected: 04/12/16 14:00

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-1

Matrix: Solid

Percent Solids: 89.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10100		43.9	22.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Antimony	4.4	U	4.4	1.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Arsenic	6.1		3.3	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Barium	52.7		43.9	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Beryllium	0.37	J	0.44	0.37	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Cadmium	0.58	J	0.88	0.46	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Calcium	1160		1100	64.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Chromium	15.2		2.2	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Cobalt	4.8	J	11.0	1.3	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Copper	15.4		5.5	1.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Iron	14800		32.9	24.8	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Lead	24.9		2.2	0.86	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Magnesium	1420		1100	54.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Manganese	246		3.3	1.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Nickel	12.0		8.8	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Potassium	321	J	1100	33.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Selenium	4.4	U	4.4	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Silver	2.2	U	2.2	0.39	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Sodium	1100	U	1100	74.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Thallium	4.4	U	4.4	1.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Vanadium	18.6		11.0	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4
Zinc	83.4		6.6	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:05	4

Client Sample ID: A5_N_12

Date Collected: 04/12/16 13:50

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-2

Matrix: Solid

Percent Solids: 90.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9700		42.5	21.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Antimony	4.3	U	4.3	1.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Arsenic	4.0		3.2	1.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Barium	35.8	J	42.5	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Beryllium	0.36	J	0.43	0.36	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Cadmium	0.85	U	0.85	0.44	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Calcium	1030	J	1060	62.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Chromium	18.9		2.1	1.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Cobalt	6.4	J	10.6	1.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Copper	13.7		5.3	1.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Iron	16400		31.9	24.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Lead	14.1		2.1	0.83	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Magnesium	1520		1060	53.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Manganese	284		3.2	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Nickel	16.3		8.5	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Potassium	341	J	1060	32.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Selenium	1.5	J	4.3	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Silver	2.1	U	2.1	0.38	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Sodium	1060	U	1060	72.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Thallium	4.3	U	4.3	1.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4

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Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_N_12

Date Collected: 04/12/16 13:50

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-2

Matrix: Solid

Percent Solids: 90.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	17.7		10.6	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4
Zinc	90.5		6.4	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:09	4

Client Sample ID: A5_S_6

Date Collected: 04/12/16 13:40

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-3

Matrix: Solid

Percent Solids: 90.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9540		42.1	21.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Antimony	4.2	U	4.2	1.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Arsenic	3.4		3.2	1.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Barium	58.1		42.1	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Beryllium	0.37	J	0.42	0.36	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Cadmium	0.84	U	0.84	0.44	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Calcium	966	J	1050	62.3	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Chromium	14.8		2.1	1.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Cobalt	4.9	J	10.5	1.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Copper	10.3		5.3	1.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Iron	13400		31.6	23.8	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Lead	58.1		2.1	0.83	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Magnesium	1480		1050	52.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Manganese	203		3.2	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Nickel	13.9		8.4	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Potassium	333	J	1050	31.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Selenium	4.2	U	4.2	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Silver	2.1	U	2.1	0.37	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Sodium	1050	U	1050	71.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Thallium	4.2	U	4.2	1.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Vanadium	16.8		10.5	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4
Zinc	115		6.3	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:13	4

Client Sample ID: A5_S_12

Date Collected: 04/12/16 13:30

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-4

Matrix: Solid

Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10800		42.8	22.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Antimony	4.3	U	4.3	1.7	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Arsenic	5.4		3.2	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Barium	49.0		42.8	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Beryllium	0.38	J	0.43	0.36	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Cadmium	0.86	U	0.86	0.45	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Calcium	1230		1070	63.3	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Chromium	15.8		2.1	1.0	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Cobalt	6.1	J	10.7	1.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Copper	14.2		5.3	1.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Iron	15200		32.1	24.2	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Lead	117		2.1	0.84	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_S_12

Date Collected: 04/12/16 13:30

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-4

Matrix: Solid

Percent Solids: 88.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1630		1070	53.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Manganese	241		3.2	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Nickel	12.3		8.6	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Potassium	328	J	1070	32.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Selenium	1.5	J	4.3	1.5	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Silver	2.1	U	2.1	0.38	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Sodium	1070	U	1070	72.4	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Thallium	4.3	U	4.3	1.9	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Vanadium	19.0		10.7	1.1	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4
Zinc	106		6.4	1.6	mg/Kg	☼	04/13/16 07:33	04/13/16 15:17	4

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-362272/1-A ^2

Matrix: Solid

Analysis Batch: 362357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 362272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	10.3	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Antimony	2.0	U	2.0	0.79	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Barium	20.0	U	20.0	0.72	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Calcium	500	U	500	29.6	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Chromium	1.0	U	1.0	0.48	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Cobalt	5.0	U	5.0	0.58	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Copper	2.5	U	2.5	0.65	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Iron	15.0	U	15.0	11.3	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Lead	1.0	U	1.0	0.39	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Magnesium	500	U	500	25.0	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Manganese	1.5	U	1.5	0.53	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Nickel	4.0	U	4.0	0.73	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Potassium	500	U	500	15.2	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Selenium	2.0	U	2.0	0.69	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Silver	1.0	U	1.0	0.18	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Sodium	500	U	500	33.9	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Thallium	2.0	U	2.0	0.89	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Vanadium	5.0	U	5.0	0.50	mg/Kg		04/13/16 07:33	04/13/16 14:25	2
Zinc	3.0	U	3.0	0.73	mg/Kg		04/13/16 07:33	04/13/16 14:25	2

Lab Sample ID: LCSSRM 460-362272/2-A ^4

Matrix: Solid

Analysis Batch: 362357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362272

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8080	6753		mg/Kg		83.6	51.1 - 148.5
Antimony	123	84.68		mg/Kg		68.8	1.0 - 200.0
Arsenic	145	128.2		mg/Kg		88.4	79.3 - 121.4
Barium	209	195.1		mg/Kg		93.4	83.3 - 117.2
Beryllium	97.3	88.66		mg/Kg		91.1	82.6 - 117.2
Cadmium	87.6	85.09		mg/Kg		97.1	82.6 - 117.6
Calcium	5690	5398		mg/Kg		94.9	81.0 - 118.8
Chromium	143	137.7		mg/Kg		96.3	79.7 - 119.6
Cobalt	154	156.0		mg/Kg		101.3	83.8 - 115.6
Copper	173	159.6		mg/Kg		92.3	81.5 - 117.9
Iron	15000	13160		mg/Kg		87.7	46.8 - 154.0

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-362272/2-A ^4

Matrix: Solid

Analysis Batch: 362357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362272

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	146	137.8		mg/Kg		94.4	81.5 - 118.5
Magnesium	2640	2280		mg/Kg		86.3	76.5 - 123.5
Manganese	309	303.1		mg/Kg		98.1	81.6 - 118.8
Nickel	129	133.9		mg/Kg		103.8	82.9 - 117.1
Potassium	2400	2027		mg/Kg		84.5	71.7 - 128.3
Selenium	178	159.1		mg/Kg		89.4	78.7 - 121.3
Silver	31.3	26.66		mg/Kg		85.2	75.1 - 124.9
Sodium	869	761.2	J	mg/Kg		87.6	72.7 - 126.6
Thallium	141	140.6		mg/Kg		99.7	79.4 - 121.3
Vanadium	115	104.6		mg/Kg		91.0	77.6 - 122.6
Zinc	194	184.0		mg/Kg		94.8	82.0 - 118.0

Lab Sample ID: 460-111935-A-1-D MS

Matrix: Solid

Analysis Batch: 362357

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 362272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	27100		240	28850	4	mg/Kg	☼	747	75 - 125
Antimony	11.7	U	60.1	21.17	N	mg/Kg	☼	35	75 - 125
Arsenic	8.8	U	240	201.3		mg/Kg	☼	84	75 - 125
Barium	275		240	506.5		mg/Kg	☼	96	75 - 125
Beryllium	1.4		6.01	7.07		mg/Kg	☼	94	75 - 125
Cadmium	2.3	U	6.01	4.76		mg/Kg	☼	79	75 - 125
Calcium	625	J	2400	2909	J	mg/Kg	☼	95	75 - 125
Chromium	77.8		24.0	98.56		mg/Kg	☼	86	75 - 125
Cobalt	18.0	J	60.1	76.63		mg/Kg	☼	98	75 - 125
Copper	33.5		30.0	63.10		mg/Kg	☼	99	75 - 125
Iron	64900		120	64010	4	mg/Kg	☼	-746	75 - 125
Lead	20.3		60.1	76.99		mg/Kg	☼	94	75 - 125
Magnesium	10200		2400	12570	4	mg/Kg	☼	100	75 - 125
Manganese	660		60.1	733.2	4	mg/Kg	☼	122	75 - 125
Nickel	31.1		60.1	93.21		mg/Kg	☼	103	75 - 125
Potassium	14600		2400	17110	4	mg/Kg	☼	105	75 - 125
Selenium	4.8	J	240	197.4		mg/Kg	☼	80	75 - 125
Silver	5.8	U	6.01	4.43	J N	mg/Kg	☼	74	75 - 125
Sodium	230	J	2400	2324	J	mg/Kg	☼	87	75 - 125
Thallium	11.7	U	240	237.6		mg/Kg	☼	99	75 - 125
Vanadium	134		60.1	191.6		mg/Kg	☼	96	75 - 125
Zinc	79.6		60.1	138.3		mg/Kg	☼	98	75 - 125

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 460-111935-A-1-C DU

Matrix: Solid

Analysis Batch: 362357

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 362272

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	27100		26830		mg/Kg	☼	0.8	20
Antimony	11.7	U	11.7	U	mg/Kg	☼	NC	20
Arsenic	8.8	U	8.8	U	mg/Kg	☼	NC	20
Barium	275		275.3		mg/Kg	☼	0.06	20
Beryllium	1.4		1.48		mg/Kg	☼	3	20
Cadmium	2.3	U	2.3	U	mg/Kg	☼	NC	20
Calcium	625	J	627.4	J	mg/Kg	☼	0.4	20
Chromium	77.8		77.28		mg/Kg	☼	0.7	20
Cobalt	18.0	J	17.98	J	mg/Kg	☼	0.1	20
Copper	33.5		33.48		mg/Kg	☼	0	20
Iron	64900		64550		mg/Kg	☼	0.5	20
Lead	20.3		19.35		mg/Kg	☼	5	20
Magnesium	10200		10160		mg/Kg	☼	0.06	20
Manganese	660		658.9		mg/Kg	☼	0.2	20
Nickel	31.1		30.78		mg/Kg	☼	1	20
Potassium	14600		14520		mg/Kg	☼	0.4	20
Selenium	4.8	J	11.7	U	mg/Kg	☼	NC	20
Silver	5.8	U	5.8	U	mg/Kg	☼	NC	20
Sodium	230	J	229.7	J	mg/Kg	☼	0.05	20
Thallium	11.7	U	11.7	U	mg/Kg	☼	NC	20
Vanadium	134		133.6		mg/Kg	☼	0.3	20
Zinc	79.6		79.26		mg/Kg	☼	0.4	20

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.
J	Sample result is greater than the MDL but below the CRDL
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
N	Spiked sample recovery is not within control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Metals

Prep Batch: 362272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-111935-A-1-B PDS	Post Spike	Total/NA	Solid	3050B	
460-111935-A-1-B SD	SD	Total/NA	Solid	3050B	
460-111935-A-1-C DU	Duplicate	Total/NA	Solid	3050B	
460-111935-A-1-D MS	Matrix Spike	Total/NA	Solid	3050B	
460-112001-1	A5_N_6	Total/NA	Solid	3050B	
460-112001-2	A5_N_12	Total/NA	Solid	3050B	
460-112001-3	A5_S_6	Total/NA	Solid	3050B	
460-112001-4	A5_S_12	Total/NA	Solid	3050B	
LCSSRM 460-362272/2-A ^4	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-362272/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 362357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-111935-A-1-B PDS	Post Spike	Total/NA	Solid	6010C	362272
460-111935-A-1-B SD	SD	Total/NA	Solid	6010C	362272
460-111935-A-1-C DU	Duplicate	Total/NA	Solid	6010C	362272
460-111935-A-1-D MS	Matrix Spike	Total/NA	Solid	6010C	362272
460-112001-1	A5_N_6	Total/NA	Solid	6010C	362272
460-112001-2	A5_N_12	Total/NA	Solid	6010C	362272
460-112001-3	A5_S_6	Total/NA	Solid	6010C	362272
460-112001-4	A5_S_12	Total/NA	Solid	6010C	362272
ICSA 460-362357/10	ICS		Solid	6010C	
ICSAB 460-362357/11	ICS		Solid	6010C	
LCSSRM 460-362272/2-A ^4	Lab Control Sample	Total/NA	Solid	6010C	362272
MB 460-362272/1-A ^2	Method Blank	Total/NA	Solid	6010C	362272

General Chemistry

Analysis Batch: 362176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-111997-A-25 DU	Duplicate	Total/NA	Solid	Moisture	
460-112001-1	A5_N_6	Total/NA	Solid	Moisture	
460-112001-2	A5_N_12	Total/NA	Solid	Moisture	
460-112001-3	A5_S_6	Total/NA	Solid	Moisture	
460-112001-4	A5_S_12	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Client Sample ID: A5_N_6

Date Collected: 04/12/16 14:00

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-1

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362272	04/13/16 07:33	MDC	TAL EDI
Total/NA	Analysis	6010C		4	362357	04/13/16 15:05	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	362176	04/12/16 18:40	CJA	TAL EDI

Client Sample ID: A5_N_12

Date Collected: 04/12/16 13:50

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-2

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362272	04/13/16 07:33	MDC	TAL EDI
Total/NA	Analysis	6010C		4	362357	04/13/16 15:09	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	362176	04/12/16 18:40	CJA	TAL EDI

Client Sample ID: A5_S_6

Date Collected: 04/12/16 13:40

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-3

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362272	04/13/16 07:33	MDC	TAL EDI
Total/NA	Analysis	6010C		4	362357	04/13/16 15:13	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	362176	04/12/16 18:40	CJA	TAL EDI

Client Sample ID: A5_S_12

Date Collected: 04/12/16 13:30

Date Received: 04/12/16 16:50

Lab Sample ID: 460-112001-4

Matrix: Solid

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			362272	04/13/16 07:33	MDC	TAL EDI
Total/NA	Analysis	6010C		4	362357	04/13/16 15:17	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	362176	04/12/16 18:40	CJA	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112001-1

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-112001-1
SDG No.: _____
Project: DEC Elmont546; Site: E130150

Client Sample ID	Lab Sample ID
<u>A5_N_6</u>	<u>460-112001-1</u>
<u>A5_N_12</u>	<u>460-112001-2</u>
<u>A5_S_6</u>	<u>460-112001-3</u>
<u>A5_S_12</u>	<u>460-112001-4</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: A5_N_6

Lab Sample ID: 460-112001-1

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG ID.:

Matrix: Solid

Date Sampled: 04/12/2016 14:00

Reporting Basis: DRY

Date Received: 04/12/2016 16:50

% Solids: 89.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10100	43.9	22.6	mg/Kg			4	6010C
7440-36-0	Antimony	4.4	4.4	1.7	mg/Kg	U		4	6010C
7440-38-2	Arsenic	6.1	3.3	1.1	mg/Kg			4	6010C
7440-39-3	Barium	52.7	43.9	1.6	mg/Kg			4	6010C
7440-41-7	Beryllium	0.37	0.44	0.37	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.58	0.88	0.46	mg/Kg	J		4	6010C
7440-70-2	Calcium	1160	1100	64.9	mg/Kg			4	6010C
7440-47-3	Chromium	15.2	2.2	1.1	mg/Kg			4	6010C
7440-48-4	Cobalt	4.8	11.0	1.3	mg/Kg	J		4	6010C
7440-50-8	Copper	15.4	5.5	1.4	mg/Kg			4	6010C
7439-89-6	Iron	14800	32.9	24.8	mg/Kg			4	6010C
7439-92-1	Lead	24.9	2.2	0.86	mg/Kg			4	6010C
7439-95-4	Magnesium	1420	1100	54.7	mg/Kg			4	6010C
7439-96-5	Manganese	246	3.3	1.2	mg/Kg			4	6010C
7440-02-0	Nickel	12.0	8.8	1.6	mg/Kg			4	6010C
7440-09-7	Potassium	321	1100	33.2	mg/Kg	J		4	6010C
7782-49-2	Selenium	4.4	4.4	1.5	mg/Kg	U		4	6010C
7440-22-4	Silver	2.2	2.2	0.39	mg/Kg	U		4	6010C
7440-23-5	Sodium	1100	1100	74.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	4.4	4.4	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	18.6	11.0	1.1	mg/Kg			4	6010C
7440-66-6	Zinc	83.4	6.6	1.6	mg/Kg			4	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: <u>A5_N_12</u>	Lab Sample ID: <u>460-112001-2</u>
Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112001-1</u>
SDG ID.: _____	
Matrix: <u>Solid</u>	Date Sampled: <u>04/12/2016 13:50</u>
Reporting Basis: <u>DRY</u>	Date Received: <u>04/12/2016 16:50</u>
% Solids: <u>90.5</u>	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	9700	42.5	21.9	mg/Kg			4	6010C
7440-36-0	Antimony	4.3	4.3	1.7	mg/Kg	U		4	6010C
7440-38-2	Arsenic	4.0	3.2	1.0	mg/Kg			4	6010C
7440-39-3	Barium	35.8	42.5	1.5	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.36	0.43	0.36	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.85	0.85	0.44	mg/Kg	U		4	6010C
7440-70-2	Calcium	1030	1060	62.9	mg/Kg	J		4	6010C
7440-47-3	Chromium	18.9	2.1	1.0	mg/Kg			4	6010C
7440-48-4	Cobalt	6.4	10.6	1.2	mg/Kg	J		4	6010C
7440-50-8	Copper	13.7	5.3	1.4	mg/Kg			4	6010C
7439-89-6	Iron	16400	31.9	24.0	mg/Kg			4	6010C
7439-92-1	Lead	14.1	2.1	0.83	mg/Kg			4	6010C
7439-95-4	Magnesium	1520	1060	53.0	mg/Kg			4	6010C
7439-96-5	Manganese	284	3.2	1.1	mg/Kg			4	6010C
7440-02-0	Nickel	16.3	8.5	1.6	mg/Kg			4	6010C
7440-09-7	Potassium	341	1060	32.2	mg/Kg	J		4	6010C
7782-49-2	Selenium	1.5	4.3	1.5	mg/Kg	J		4	6010C
7440-22-4	Silver	2.1	2.1	0.38	mg/Kg	U		4	6010C
7440-23-5	Sodium	1060	1060	72.0	mg/Kg	U		4	6010C
7440-28-0	Thallium	4.3	4.3	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	17.7	10.6	1.1	mg/Kg			4	6010C
7440-66-6	Zinc	90.5	6.4	1.6	mg/Kg			4	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: A5_S_6

Lab Sample ID: 460-112001-3

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG ID.:

Matrix: Solid

Date Sampled: 04/12/2016 13:40

Reporting Basis: DRY

Date Received: 04/12/2016 16:50

% Solids: 90.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	9540	42.1	21.7	mg/Kg			4	6010C
7440-36-0	Antimony	4.2	4.2	1.7	mg/Kg	U		4	6010C
7440-38-2	Arsenic	3.4	3.2	1.0	mg/Kg			4	6010C
7440-39-3	Barium	58.1	42.1	1.5	mg/Kg			4	6010C
7440-41-7	Beryllium	0.37	0.42	0.36	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.84	0.84	0.44	mg/Kg	U		4	6010C
7440-70-2	Calcium	966	1050	62.3	mg/Kg	J		4	6010C
7440-47-3	Chromium	14.8	2.1	1.0	mg/Kg			4	6010C
7440-48-4	Cobalt	4.9	10.5	1.2	mg/Kg	J		4	6010C
7440-50-8	Copper	10.3	5.3	1.4	mg/Kg			4	6010C
7439-89-6	Iron	13400	31.6	23.8	mg/Kg			4	6010C
7439-92-1	Lead	58.1	2.1	0.83	mg/Kg			4	6010C
7439-95-4	Magnesium	1480	1050	52.5	mg/Kg			4	6010C
7439-96-5	Manganese	203	3.2	1.1	mg/Kg			4	6010C
7440-02-0	Nickel	13.9	8.4	1.5	mg/Kg			4	6010C
7440-09-7	Potassium	333	1050	31.9	mg/Kg	J		4	6010C
7782-49-2	Selenium	4.2	4.2	1.5	mg/Kg	U		4	6010C
7440-22-4	Silver	2.1	2.1	0.37	mg/Kg	U		4	6010C
7440-23-5	Sodium	1050	1050	71.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	4.2	4.2	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	16.8	10.5	1.1	mg/Kg			4	6010C
7440-66-6	Zinc	115	6.3	1.5	mg/Kg			4	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: A5_S_12

Lab Sample ID: 460-112001-4

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG ID.:

Matrix: Solid

Date Sampled: 04/12/2016 13:30

Reporting Basis: DRY

Date Received: 04/12/2016 16:50

% Solids: 88.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10800	42.8	22.0	mg/Kg			4	6010C
7440-36-0	Antimony	4.3	4.3	1.7	mg/Kg	U		4	6010C
7440-38-2	Arsenic	5.4	3.2	1.1	mg/Kg			4	6010C
7440-39-3	Barium	49.0	42.8	1.5	mg/Kg			4	6010C
7440-41-7	Beryllium	0.38	0.43	0.36	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.86	0.86	0.45	mg/Kg	U		4	6010C
7440-70-2	Calcium	1230	1070	63.3	mg/Kg			4	6010C
7440-47-3	Chromium	15.8	2.1	1.0	mg/Kg			4	6010C
7440-48-4	Cobalt	6.1	10.7	1.2	mg/Kg	J		4	6010C
7440-50-8	Copper	14.2	5.3	1.4	mg/Kg			4	6010C
7439-89-6	Iron	15200	32.1	24.2	mg/Kg			4	6010C
7439-92-1	Lead	117	2.1	0.84	mg/Kg			4	6010C
7439-95-4	Magnesium	1630	1070	53.4	mg/Kg			4	6010C
7439-96-5	Manganese	241	3.2	1.1	mg/Kg			4	6010C
7440-02-0	Nickel	12.3	8.6	1.6	mg/Kg			4	6010C
7440-09-7	Potassium	328	1070	32.4	mg/Kg	J		4	6010C
7782-49-2	Selenium	1.5	4.3	1.5	mg/Kg	J		4	6010C
7440-22-4	Silver	2.1	2.1	0.38	mg/Kg	U		4	6010C
7440-23-5	Sodium	1070	1070	72.4	mg/Kg	U		4	6010C
7440-28-0	Thallium	4.3	4.3	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	19.0	10.7	1.1	mg/Kg			4	6010C
7440-66-6	Zinc	106	6.4	1.6	mg/Kg			4	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	ICV 460-362357/7 04/13/2016 11:58				CCV 460-362357/33 04/13/2016 13:42				CCV 460-362357/46 04/13/2016 14:45			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	124000		125000	99	123300		125000	99	120300		125000	96
Antimony	987.3		1000	99	1004		1000	100	981.9		1000	98
Arsenic	2471		2500	99	2533		2500	101	2492		2500	100
Barium	10090		10000	101	10360		10000	104	10180		10000	102
Beryllium	1003		1000	100	1001		1000	100	977.0		1000	98
Cadmium	1257		1250	101	1278		1250	102	1254		1250	100
Calcium	126000		125000	101	128300		125000	103	126000		125000	101
Chromium	5039		5000	101	5157		5000	103	5063		5000	101
Cobalt	2518		2500	101	2555		2500	102	2509		2500	100
Copper	12480		12500	100	12770		12500	102	12530		12500	100
Iron	101100		100000	101	100800		100000	101	98700		100000	99
Lead	7587		7500	101	7621		7500	102	7448		7500	99
Magnesium	125800		125000	101	125500		125000	100	123100		125000	98
Manganese	5105		5000	102	5185		5000	104	5091		5000	102
Nickel	2518		2500	101	2586		2500	103	2543		2500	102
Potassium	49550		50000	99	50040		50000	100	48980		50000	98
Selenium	2487		2500	99	2477		2500	99	2423		2500	97
Silver	1246		1250	100	1263		1250	101	1238		1250	99
Sodium	123300		125000	99	123300		125000	99	120300		125000	96
Thallium	2546		2500	102	2595		2500	104	2551		2500	102
Vanadium	2515		2500	101	2554		2500	102	2505		2500	100
Zinc	2535		2500	101	2539		2500	102	2483		2500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	CCV 460-362357/59 04/13/2016 15:37											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	120700		125000	97								
Antimony	983.6		1000	98								
Arsenic	2504		2500	100								
Barium	10240		10000	102								
Beryllium	983.6		1000	98								
Cadmium	1261		1250	101								
Calcium	127300		125000	102								
Chromium	5133		5000	103								
Cobalt	2518		2500	101								
Copper	12590		12500	101								
Iron	99420		100000	99								
Lead	7433		7500	99								
Magnesium	123400		125000	99								
Manganese	5133		5000	103								
Nickel	2555		2500	102								
Potassium	49250		50000	99								
Selenium	2406		2500	96								
Silver	1239		1250	99								
Sodium	120400		125000	96								
Thallium	2553		2500	102								
Vanadium	2530		2500	101								
Zinc	2495		2500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	ICVL 460-362357/9 04/13/2016 12:06				CCVL 460-362357/35 04/13/2016 13:50				CCVL 460-362357/48 04/13/2016 14:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	216.6		200	108	208.1		200	104	196.9	J	200	98
Antimony	19.78	J	20.0	99	19.94	J	20.0	100	20.30		20.0	102
Arsenic	13.32	J	15.0	89	14.50	J	15.0	97	12.14	J	15.0	81
Barium	206.8		200	103	214.7		200	107	211.9		200	106
Beryllium	2.00		2.00	100	2.03		2.00	102	1.99	J	2.00	100
Cadmium	4.04		4.00	101	4.10		4.00	102	4.00		4.00	100
Calcium	5079		5000	102	5225		5000	105	5139		5000	103
Chromium	9.98	J	10.0	100	10.54		10.0	105	10.25		10.0	103
Cobalt	52.80		50.0	106	53.73		50.0	107	52.88		50.0	106
Copper	24.47	J	25.0	98	25.06		25.0	100	24.36	J	25.0	97
Iron	158.9		150	106	156.8		150	105	164.1		150	109
Lead	10.73		10.0	107	11.82		10.0	118	10.72		10.0	107
Magnesium	4955	J	5000	99	4949	J	5000	99	4807	J	5000	96
Manganese	16.03		15.0	107	16.40		15.0	109	16.13		15.0	108
Nickel	42.80		40.0	107	44.29		40.0	111	43.25		40.0	108
Potassium	4888	J	5000	98	4904	J	5000	98	4818	J	5000	96
Selenium	20.28		20.0	101	19.37	J	20.0	97	15.09	J	20.0	75
Silver	9.80	J	10.0	98	10.46		10.0	105	9.69	J	10.0	97
Sodium	4969	J	5000	99	4875	J	5000	98	4716	J	5000	94
Thallium	21.88		20.0	109	19.21	J	20.0	96	21.53		20.0	108
Vanadium	50.54		50.0	101	52.21		50.0	104	51.05		50.0	102
Zinc	31.68		30.0	106	31.97		30.0	107	31.21		30.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	CCVL 460-362357/61 04/13/2016 15:45											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	202.8		200	101								
Antimony	18.97	J	20.0	95								
Arsenic	13.62	J	15.0	91								
Barium	214.0		200	107								
Beryllium	2.02		2.00	101								
Cadmium	4.00		4.00	100								
Calcium	5188		5000	104								
Chromium	10.59		10.0	106								
Cobalt	53.29		50.0	107								
Copper	24.32	J	25.0	97								
Iron	151.8		150	101								
Lead	9.30	J	10.0	93								
Magnesium	4847	J	5000	97								
Manganese	16.23		15.0	108								
Nickel	43.22		40.0	108								
Potassium	4814	J	5000	96								
Selenium	16.41	J	20.0	82								
Silver	9.92	J	10.0	99								
Sodium	4732	J	5000	95								
Thallium	21.10		20.0	106								
Vanadium	51.37		50.0	103								
Zinc	31.59		30.0	105								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-362357/8 04/13/2016 12:02		CCB 460-362357/34 04/13/2016 13:46		CCB 460-362357/47 04/13/2016 14:49		CCB 460-362357/60 04/13/2016 15:40	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U	200	U
Antimony	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Arsenic	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Barium	200	200	U	200	U	200	U	200	U
Beryllium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cadmium	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Calcium	5000	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	25.0	U	25.0	U	25.0	U	25.0	U
Iron	150	150	U	150	U	150	U	150	U
Lead	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Nickel	40.0	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	5000	5000	U	5000	U	5000	U	5000	U
Selenium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Silver	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	5000	U	5000	U	5000	U	5000	U
Thallium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Vanadium	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	30.0	30.0	U	30.0	U	30.0	U	30.0	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1
 SDG No.: _____
 Concentration Units: mg/Kg Lab Sample ID: MB 460-362272/1-A ^2
 Instrument Code: ICP4 Batch No.: 362357

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	20.0	U		6010C
7440-36-0	Antimony	2.0	U		6010C
7440-38-2	Arsenic	1.5	U		6010C
7440-39-3	Barium	20.0	U		6010C
7440-41-7	Beryllium	0.20	U		6010C
7440-43-9	Cadmium	0.40	U		6010C
7440-70-2	Calcium	500	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7440-48-4	Cobalt	5.0	U		6010C
7440-50-8	Copper	2.5	U		6010C
7439-89-6	Iron	15.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7439-95-4	Magnesium	500	U		6010C
7439-96-5	Manganese	1.5	U		6010C
7440-02-0	Nickel	4.0	U		6010C
7440-09-7	Potassium	500	U		6010C
7782-49-2	Selenium	2.0	U		6010C
7440-22-4	Silver	1.0	U		6010C
7440-23-5	Sodium	500	U		6010C
7440-28-0	Thallium	2.0	U		6010C
7440-62-2	Vanadium	5.0	U		6010C
7440-66-6	Zinc	3.0	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-362357/10 Instrument ID: ICP4
 Lab File ID: 361769.asc ICS Source: ME_ICSA_Duo_00068
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	495000	99
Antimony		4.36	
Arsenic		0.893	
Barium		-0.862	
Beryllium		-0.0730	
Cadmium		0.102	
Calcium	500000	491800	98
Chromium		-1.10	
Cobalt		-3.57	
Copper		-3.69	
Iron	200000	193100	97
Lead		3.42	
Magnesium	500000	498600	100
Manganese		3.32	
Nickel		-0.369	
Potassium		-39.2	
Selenium		0.303	
Silver		0.266	
Sodium		-24.2	
Thallium		0.798	
Vanadium		-22.1	
Zinc		-2.82	
<i>Boron</i>		<i>-7.42</i>	
<i>Molybdenum</i>		<i>-0.955</i>	
<i>Strontium</i>		<i>-1.65</i>	
<i>Tin</i>		<i>3.71</i>	
<i>Titanium</i>		<i>-1.25</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-362357/11 Instrument ID: ICP4
 Lab File ID: 361769.asc ICS Source: ME_ICSAB_DUO_00084
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	500000	526400	105
Antimony	100	103	103
Arsenic	100	98.9	99
Barium	100	104	104
Beryllium	100	101	101
Cadmium	100	99.7	100
Calcium	500000	520100	104
Chromium	100	102	102
Cobalt	100	96.8	97
Copper	100	106	106
Iron	200000	203400	102
Lead	100	97.2	97
Magnesium	500000	529000	106
Manganese	100	108	108
Nickel	100	98.7	99
Potassium	10000	10500	105
Selenium	100	101	101
Silver	100	109	109
Sodium	10000	10620	106
Thallium	100	96.6	97
Vanadium	100	80.1	80
Zinc	100	94.9	95
<i>Boron</i>	<i>100</i>	<i>94.4</i>	<i>94</i>
<i>Molybdenum</i>	<i>100</i>	<i>98.8</i>	<i>99</i>
<i>Strontium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Tin</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Titanium</i>	<i>100</i>	<i>104</i>	<i>104</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-111935-A-1-D MS

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 82.4

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	28850	27100	240	747	75-125	4	6010C
Antimony	21.17	11.7 U	60.1	35	75-125	N	6010C
Arsenic	201.3	8.8 U	240	84	75-125		6010C
Barium	506.5	275	240	96	75-125		6010C
Beryllium	7.07	1.4	6.01	94	75-125		6010C
Cadmium	4.76	2.3 U	6.01	79	75-125		6010C
Calcium	2909 J	625 J	2400	95	75-125		6010C
Chromium	98.56	77.8	24.0	86	75-125		6010C
Cobalt	76.63	18.0 J	60.1	98	75-125		6010C
Copper	63.10	33.5	30.0	99	75-125		6010C
Iron	64010	64900	120	-746	75-125	4	6010C
Lead	76.99	20.3	60.1	94	75-125		6010C
Magnesium	12570	10200	2400	100	75-125	4	6010C
Manganese	733.2	660	60.1	122	75-125	4	6010C
Nickel	93.21	31.1	60.1	103	75-125		6010C
Potassium	17110	14600	2400	105	75-125	4	6010C
Selenium	197.4	4.8 J	240	80	75-125		6010C
Silver	4.43 J	5.8 U	6.01	74	75-125	N	6010C
Sodium	2324 J	230 J	2400	87	75-125		6010C
Thallium	237.6	11.7 U	240	99	75-125		6010C
Vanadium	191.6	134	60.1	96	75-125		6010C
Zinc	138.3	79.6	60.1	98	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-111935-A-1-B PDS

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	26280	27100	1170	NC	80-120		6010C
Antimony	254.9	11.7 U	292	87	80-120		6010C
Arsenic	1049	8.8 U	1170	90	80-120		6010C
Barium	1380	275	1170	95	80-120		6010C
Beryllium	28.44	1.4	29.2	93	80-120		6010C
Cadmium	26.54	2.3 U	29.2	91	80-120		6010C
Calcium	11530	625 J	11700	93	80-120		6010C
Chromium	190.1	77.8	117	96	80-120		6010C
Cobalt	294.4	18.0 J	292	95	80-120		6010C
Copper	167.9	33.5	146	92	80-120		6010C
Iron	61690	64900	584	NC	80-120		6010C
Lead	291.1	20.3	292	93	80-120		6010C
Magnesium	19900	10200	11700	83	80-120		6010C
Manganese	908.7	660	292	85	80-120		6010C
Nickel	314.9	31.1	292	97	80-120		6010C
Potassium	23560	14600	11700	77	80-120		6010C
Selenium	1024	4.8 J	1170	87	80-120		6010C
Silver	25.56	5.8 U	29.2	88	80-120		6010C
Sodium	10370	230 J	11700	87	80-120		6010C
Thallium	1136	11.7 U	1170	97	80-120		6010C
Vanadium	405.3	134	292	93	80-120		6010C
Zinc	352.3	79.6	292	93	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 460-111935-A-1-C DU
 Lab Name: TestAmerica Edison Job No.: 460-112001-1
 SDG No.: _____
 % Solids for Sample: 82.4 % Solids for Duplicate: 82.4
 Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Aluminum	117	27100		26830	0.8	6010C
Antimony	11.7	11.7 U		11.7 U	NC	6010C
Arsenic	8.8	8.8 U		8.8 U	NC	6010C
Barium	117	275		275.3	0.06	6010C
Beryllium	1.2	1.4		1.48	3	6010C
Cadmium	2.3	2.3 U		2.3 U	NC	6010C
Calcium	2920	625 J		627.4 J	0.4	6010C
Chromium	5.8	77.8		77.28	0.7	6010C
Cobalt	29.2	18.0 J		17.98 J	0.1	6010C
Copper	14.6	33.5		33.48	0	6010C
Iron	87.5	64900		64550	0.5	6010C
Lead	5.8	20.3		19.35	5	6010C
Magnesium	2920	10200		10160	0.06	6010C
Manganese	8.8	660		658.9	0.2	6010C
Nickel	23.3	31.1		30.78	1	6010C
Potassium	2920	14600		14520	0.4	6010C
Selenium	11.7	4.8 J		11.7 U	NC	6010C
Silver	5.8	5.8 U		5.8 U	NC	6010C
Sodium	2920	230 J		229.7 J	0.05	6010C
Thallium	11.7	11.7 U		11.7 U	NC	6010C
Vanadium	29.2	134		133.6	0.3	6010C
Zinc	17.5	79.6		79.26	0.4	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-362272/2-A ^4

Lab Name: TestAmerica Edison

Job No.: 460-112001-1

Sample Matrix: Solid

LCS Source: ME_LCSS_91_00001

Analyte	Solid (mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8080	6753		83.6	51.1	148.5		6010C
Antimony	123	84.68		68.8	1.0	200.0		6010C
Arsenic	145	128.2		88.4	79.3	121.4		6010C
Barium	209	195.1		93.4	83.3	117.2		6010C
Beryllium	97.3	88.66		91.1	82.6	117.2		6010C
Cadmium	87.6	85.09		97.1	82.6	117.6		6010C
Calcium	5690	5398		94.9	81.0	118.8		6010C
Chromium	143	137.7		96.3	79.7	119.6		6010C
Cobalt	154	156.0		101.3	83.8	115.6		6010C
Copper	173	159.6		92.3	81.5	117.9		6010C
Iron	15000	13160		87.7	46.8	154.0		6010C
Lead	146	137.8		94.4	81.5	118.5		6010C
Magnesium	2640	2280		86.3	76.5	123.5		6010C
Manganese	309	303.1		98.1	81.6	118.8		6010C
Nickel	129	133.9		103.8	82.9	117.1		6010C
Potassium	2400	2027		84.5	71.7	128.3		6010C
Selenium	178	159.1		89.4	78.7	121.3		6010C
Silver	31.3	26.66		85.2	75.1	124.9		6010C
Sodium	869	761.2	J	87.6	72.7	126.6		6010C
Thallium	141	140.6		99.7	79.4	121.3		6010C
Vanadium	115	104.6		91.0	77.6	122.6		6010C
Zinc	194	184.0		94.8	82.0	118.0		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-111935-A-1-B SD

SDG No: _____

Lab Name: TestAmerica Edison

Job No: 460-112001-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Aluminum	27100		26780		1.0		6010C
Antimony	11.7	U	58.4	U	NC		6010C
Arsenic	8.8	U	43.8	U	NC		6010C
Barium	275		275.4	J	NC		6010C
Beryllium	1.4		5.8	U	NC		6010C
Cadmium	2.3	U	11.7	U	NC		6010C
Calcium	625	J	14600	U	NC		6010C
Chromium	77.8		76.60		NC		6010C
Cobalt	18.0	J	17.79	J	NC		6010C
Copper	33.5		32.77	J	NC		6010C
Iron	64900		64900		0.00		6010C
Lead	20.3		18.23	J	NC		6010C
Magnesium	10200		10200	J	NC		6010C
Manganese	660		666.2		0.93		6010C
Nickel	31.1		30.55	J	NC		6010C
Potassium	14600		14520	J	NC		6010C
Selenium	4.8	J	58.4	U	NC		6010C
Silver	5.8	U	29.2	U	NC		6010C
Sodium	230	J	14600	U	NC		6010C
Thallium	11.7	U	58.4	U	NC		6010C
Vanadium	134		131.9	J	NC		6010C
Zinc	79.6		79.87	J	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-112001-1
 SDG Number: _____
 Matrix: Solid Instrument ID: ICP4
 Method: 6010C MDL Date: 05/05/2015 13:01
 Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		40	20.6
Antimony		4	1.58
Arsenic		3	0.983
Barium		40	1.43
Beryllium		0.4	0.339
Cadmium		0.8	0.417
Calcium		1000	59.2
Chromium		2	0.967
Cobalt		10	1.15
Copper		5	1.3
Iron		30	22.6
Lead		2	0.785
Magnesium		1000	49.9
Manganese		3	1.05
Nickel		8	1.46
Potassium		1000	30.3
Selenium		4	1.38
Silver		2	0.353
Sodium		1000	67.7
Thallium		4	1.77
Vanadium		10	1
Zinc		6	1.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-112001-1
SDG Number: _____
Matrix: Solid Instrument ID: ICP4
Method: 6010C XMDL Date: 05/05/2015 12:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	69.5
Antimony		20	4.7
Arsenic		15	4.41
Barium		200	5.49
Beryllium		2	1.8
Cadmium		4	2.32
Calcium		5000	317
Chromium		10	4.5
Cobalt		50	5.08
Copper		25	5.02
Iron		150	65.4
Lead		10	4.16
Magnesium		5000	260
Manganese		15	4.88
Nickel		40	5.39
Potassium		5000	122
Selenium		20	6.76
Silver		10	1.86
Sodium		5000	315
Thallium		20	4.52
Vanadium		50	4.37
Zinc		30	5.9

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-362272/1-A ^2	04/13/2016 07:33	362272	1.00		50
LCSSRM 460-362272/2-A ^4	04/13/2016 07:33	362272	1.03		50
460-111935-A-1-C DU	04/13/2016 07:33	362272	1.04		50
460-111935-A-1-D MS	04/13/2016 07:33	362272	1.01		50
460-112001-1	04/13/2016 07:33	362272	1.02		50
460-112001-2	04/13/2016 07:33	362272	1.04		50
460-112001-3	04/13/2016 07:33	362272	1.05		50
460-112001-4	04/13/2016 07:33	362272	1.06		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ICIS 460-362357/1	1		11:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:38																				
ZZZZZZ			11:43																				
ZZZZZZ			11:47																				
ZZZZZZ			11:50																				
ZZZZZZ			11:54																				
ICV 460-362357/7	1		11:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-362357/8	1		12:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-362357/9	1		12:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-362357/10	1		12:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-362357/11	1		12:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:18																				
ZZZZZZ			12:22																				
ZZZZZZ			12:26																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:38																				
ZZZZZZ			12:42																				
ZZZZZZ			12:46																				
CCV 460-362357/20			12:50																				
CCB 460-362357/21			12:53																				
CCVL 460-362357/22			12:58																				
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:09																				
ZZZZZZ			13:13																				
ZZZZZZ			13:17																				
ZZZZZZ			13:22																				
ZZZZZZ			13:26																				
ZZZZZZ			13:30																				
ZZZZZZ			13:34																				
ZZZZZZ			13:38																				
CCV 460-362357/33	1		13:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-362357/34	1		13:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-362357/35	1		13:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:13																				
ZZZZZZ			14:17																				
ZZZZZZ			14:21																				
MB 460-362272/1-A ^2	2	T	14:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
LCSSRM 460-362272/2-A ^4	4	T	14:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-111935-A-1-C DU	10	T	14:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:37																			
460-111935-A-1-B SD	50	T	14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 460-362357/46	1		14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-362357/47	1		14:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-362357/48	1		14:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-111935-A-1-D MS	10	T	14:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-111935-A-1-B PDS	10	T	15:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-112001-1	4	T	15:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-112001-2	4	T	15:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-112001-3	4	T	15:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-112001-4	4	T	15:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:21																			
ZZZZZZ			15:25																			
ZZZZZZ			15:29																			
ZZZZZZ			15:33																			
CCV 460-362357/59	1		15:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-362357/60	1		15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-362357/61	1		15:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:58																			
ZZZZZZ			16:02																			
ZZZZZZ			16:06																			
ZZZZZZ			16:10																			
ZZZZZZ			16:14																			
ZZZZZZ			16:18																			
ZZZZZZ			16:22																			
ZZZZZZ			16:26																			
ZZZZZZ			16:30																			
ZZZZZZ			16:34																			
CCV 460-362357/72			16:38																			
CCB 460-362357/73			16:42																			
CCVL 460-362357/74			16:46																			
ZZZZZZ			16:50																			
ZZZZZZ			16:54																			
ZZZZZZ			16:58																			
ZZZZZZ			17:02																			
ZZZZZZ			17:06																			
ZZZZZZ			17:11																			
ZZZZZZ			17:14																			
ZZZZZZ			17:18																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
ZZZZZZ			17:23																			
ZZZZZZ			17:27																			
CCV 460-362357/85			17:31																			
CCB 460-362357/86			17:35																			
CCVL 460-362357/87			17:39																			
ZZZZZZ			17:43																			
ZZZZZZ			17:47																			
ZZZZZZ			17:51																			
ZZZZZZ			17:55																			
ZZZZZZ			17:59																			
ZZZZZZ			18:03																			
ZZZZZZ			18:08																			
ZZZZZZ			18:12																			
ZZZZZZ			18:16																			
ZZZZZZ			18:20																			
CCV 460-362357/98			18:24																			
CCB 460-362357/99			18:28																			
CCVL 460-362357/100			18:32																			
ZZZZZZ			18:36																			
ZZZZZZ			18:40																			
ZZZZZZ			18:45																			
ZZZZZZ			18:48																			
ZZZZZZ			18:52																			
ZZZZZZ			18:56																			
ZZZZZZ			19:01																			
ZZZZZZ			19:05																			
ZZZZZZ			19:08																			
ZZZZZZ			19:12																			
CCV 460-362357/111			19:16																			
CCB 460-362357/112			19:20																			
CCVL 460-362357/113			19:24																			
ZZZZZZ			19:29																			
ZZZZZZ			19:33																			
ZZZZZZ			19:37																			
ZZZZZZ			19:41																			
ZZZZZZ			19:45																			
ZZZZZZ			19:49																			
ZZZZZZ			19:53																			
ZZZZZZ			19:57																			
ZZZZZZ			20:01																			
ZZZZZZ			20:05																			
CCV 460-362357/124			20:09																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
CCB 460-362357/125			20:13																			
CCVL 460-362357/126			20:17																			
ZZZZZZ			20:21																			
ZZZZZZ			20:25																			
ZZZZZZ			20:29																			
ZZZZZZ			20:33																			
ZZZZZZ			20:37																			
ZZZZZZ			20:41																			
ZZZZZZ			20:45																			
ZZZZZZ			20:50																			
CCV 460-362357/135			20:57																			
CCB 460-362357/136			21:01																			
CCVL 460-362357/137			21:06																			
ZZZZZZ			21:10																			
ZZZZZZ			21:14																			
ZZZZZZ			21:18																			
ZZZZZZ			21:23																			
ZZZZZZ			21:27																			
ZZZZZZ			21:31																			
ZZZZZZ			21:35																			
ZZZZZZ			21:40																			
ZZZZZZ			21:43																			
ZZZZZZ			21:48																			
CCV 460-362357/148			21:52																			
CCB 460-362357/149			21:56																			
CCVL 460-362357/150			22:00																			
ZZZZZZ			22:05																			
ZZZZZZ			22:09																			
ZZZZZZ			22:13																			
ZZZZZZ			22:17																			
ZZZZZZ			22:21																			
ZZZZZZ			22:25																			
ZZZZZZ			22:30																			
ZZZZZZ			22:34																			
ZZZZZZ			22:38																			
ZZZZZZ			22:43																			
CCV 460-362357/161			22:47																			
CCB 460-362357/162			22:51																			
CCVL 460-362357/163			22:55																			
ZZZZZZ			23:00																			
ZZZZZZ			23:04																			
ZZZZZZ			23:08																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
ZZZZZZZ			23:12																			
ZZZZZZZ			23:17																			
ZZZZZZZ			23:21																			
ZZZZZZZ			23:25																			
ZZZZZZZ			23:29																			
ZZZZZZZ			23:34																			
ZZZZZZZ			23:38																			
CCV 460-362357/174			23:43																			
CCB 460-362357/175			23:47																			
CCVL 460-362357/176			23:51																			
ZZZZZZZ			23:55																			
ZZZZZZZ			00:00																			
ZZZZZZZ			00:04																			
ZZZZZZZ			00:08																			
ZZZZZZZ			00:12																			
ZZZZZZZ			00:16																			
ZZZZZZZ			00:21																			
ZZZZZZZ			00:24																			
ZZZZZZZ			00:28																			
ZZZZZZZ			00:33																			
CCV 460-362357/187			00:37																			
CCB 460-362357/188			00:40																			
CCVL 460-362357/189			00:44																			
ZZZZZZZ			00:48																			
ZZZZZZZ			00:52																			
ZZZZZZZ			00:56																			
ZZZZZZZ			01:00																			
ZZZZZZZ			01:04																			
ZZZZZZZ			01:08																			
ZZZZZZZ			01:12																			
ZZZZZZZ			01:16																			
ZZZZZZZ			01:20																			
ZZZZZZZ			01:24																			
CCV 460-362357/200			01:27																			
CCB 460-362357/201			01:31																			
CCVL 460-362357/202			01:35																			
ZZZZZZZ			01:39																			
ZZZZZZZ			01:43																			
ZZZZZZZ			01:47																			
ZZZZZZZ			01:51																			
ZZZZZZZ			01:54																			
ZZZZZZZ			01:58																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
ZZZZZZ			02:02																			
ZZZZZZ			02:06																			
ZZZZZZ			02:10																			
CCV 460-362357/212			02:14																			
CCB 460-362357/213			02:17																			
CCVL 460-362357/214			02:21																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ICIS 460-362357/1	1		11:34	X	X																
ZZZZZZ			11:38																		
ZZZZZZ			11:43																		
ZZZZZZ			11:47																		
ZZZZZZ			11:50																		
ZZZZZZ			11:54																		
ICV 460-362357/7	1		11:58	X	X																
ICB 460-362357/8	1		12:02	X	X																
ICVL 460-362357/9	1		12:06	X	X																
ICSA 460-362357/10	1		12:10	X	X																
ICSAB 460-362357/11	1		12:14	X	X																
ZZZZZZ			12:18																		
ZZZZZZ			12:22																		
ZZZZZZ			12:26																		
ZZZZZZ			12:30																		
ZZZZZZ			12:34																		
ZZZZZZ			12:38																		
ZZZZZZ			12:42																		
ZZZZZZ			12:46																		
CCV 460-362357/20			12:50																		
CCB 460-362357/21			12:53																		
CCVL 460-362357/22			12:58																		
ZZZZZZ			13:02																		
ZZZZZZ			13:06																		
ZZZZZZ			13:09																		
ZZZZZZ			13:13																		
ZZZZZZ			13:17																		
ZZZZZZ			13:22																		
ZZZZZZ			13:26																		
ZZZZZZ			13:30																		
ZZZZZZ			13:34																		
ZZZZZZ			13:38																		
CCV 460-362357/33	1		13:42	X	X																
CCB 460-362357/34	1		13:46	X	X																
CCVL 460-362357/35	1		13:50	X	X																
ZZZZZZ			14:05																		
ZZZZZZ			14:09																		
ZZZZZZ			14:13																		
ZZZZZZ			14:17																		
ZZZZZZ			14:21																		
MB 460-362272/1-A ^2	2	T	14:25	X	X																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes															
				V	Z n														
LCSSRM 460-362272/2-A ^4	4	T	14:30	X	X														
460-111935-A-1-C DU	10	T	14:33	X	X														
ZZZZZZ			14:37																
460-111935-A-1-B SD	50	T	14:41	X	X														
CCV 460-362357/46	1		14:45	X	X														
CCB 460-362357/47	1		14:49	X	X														
CCVL 460-362357/48	1		14:53	X	X														
460-111935-A-1-D MS	10	T	14:57	X	X														
460-111935-A-1-B PDS	10	T	15:01	X	X														
460-112001-1	4	T	15:05	X	X														
460-112001-2	4	T	15:09	X	X														
460-112001-3	4	T	15:13	X	X														
460-112001-4	4	T	15:17	X	X														
ZZZZZZ			15:21																
ZZZZZZ			15:25																
ZZZZZZ			15:29																
ZZZZZZ			15:33																
CCV 460-362357/59	1		15:37	X	X														
CCB 460-362357/60	1		15:40	X	X														
CCVL 460-362357/61	1		15:45	X	X														
ZZZZZZ			15:58																
ZZZZZZ			16:02																
ZZZZZZ			16:06																
ZZZZZZ			16:10																
ZZZZZZ			16:14																
ZZZZZZ			16:18																
ZZZZZZ			16:22																
ZZZZZZ			16:26																
ZZZZZZ			16:30																
ZZZZZZ			16:34																
CCV 460-362357/72			16:38																
CCB 460-362357/73			16:42																
CCVL 460-362357/74			16:46																
ZZZZZZ			16:50																
ZZZZZZ			16:54																
ZZZZZZ			16:58																
ZZZZZZ			17:02																
ZZZZZZ			17:06																
ZZZZZZ			17:11																
ZZZZZZ			17:14																
ZZZZZZ			17:18																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			17:23																		
ZZZZZZ			17:27																		
CCV 460-362357/85			17:31																		
CCB 460-362357/86			17:35																		
CCVL 460-362357/87			17:39																		
ZZZZZZ			17:43																		
ZZZZZZ			17:47																		
ZZZZZZ			17:51																		
ZZZZZZ			17:55																		
ZZZZZZ			17:59																		
ZZZZZZ			18:03																		
ZZZZZZ			18:08																		
ZZZZZZ			18:12																		
ZZZZZZ			18:16																		
ZZZZZZ			18:20																		
CCV 460-362357/98			18:24																		
CCB 460-362357/99			18:28																		
CCVL 460-362357/100			18:32																		
ZZZZZZ			18:36																		
ZZZZZZ			18:40																		
ZZZZZZ			18:45																		
ZZZZZZ			18:48																		
ZZZZZZ			18:52																		
ZZZZZZ			18:56																		
ZZZZZZ			19:01																		
ZZZZZZ			19:05																		
ZZZZZZ			19:08																		
ZZZZZZ			19:12																		
CCV 460-362357/111			19:16																		
CCB 460-362357/112			19:20																		
CCVL 460-362357/113			19:24																		
ZZZZZZ			19:29																		
ZZZZZZ			19:33																		
ZZZZZZ			19:37																		
ZZZZZZ			19:41																		
ZZZZZZ			19:45																		
ZZZZZZ			19:49																		
ZZZZZZ			19:53																		
ZZZZZZ			19:57																		
ZZZZZZ			20:01																		
ZZZZZZ			20:05																		
CCV 460-362357/124			20:09																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCB 460-362357/125			20:13																		
CCVL 460-362357/126			20:17																		
ZZZZZZ			20:21																		
ZZZZZZ			20:25																		
ZZZZZZ			20:29																		
ZZZZZZ			20:33																		
ZZZZZZ			20:37																		
ZZZZZZ			20:41																		
ZZZZZZ			20:45																		
ZZZZZZ			20:50																		
CCV 460-362357/135			20:57																		
CCB 460-362357/136			21:01																		
CCVL 460-362357/137			21:06																		
ZZZZZZ			21:10																		
ZZZZZZ			21:14																		
ZZZZZZ			21:18																		
ZZZZZZ			21:23																		
ZZZZZZ			21:27																		
ZZZZZZ			21:31																		
ZZZZZZ			21:35																		
ZZZZZZ			21:40																		
ZZZZZZ			21:43																		
ZZZZZZ			21:48																		
CCV 460-362357/148			21:52																		
CCB 460-362357/149			21:56																		
CCVL 460-362357/150			22:00																		
ZZZZZZ			22:05																		
ZZZZZZ			22:09																		
ZZZZZZ			22:13																		
ZZZZZZ			22:17																		
ZZZZZZ			22:21																		
ZZZZZZ			22:25																		
ZZZZZZ			22:30																		
ZZZZZZ			22:34																		
ZZZZZZ			22:38																		
ZZZZZZ			22:43																		
CCV 460-362357/161			22:47																		
CCB 460-362357/162			22:51																		
CCVL 460-362357/163			22:55																		
ZZZZZZ			23:00																		
ZZZZZZ			23:04																		
ZZZZZZ			23:08																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			23:12																		
ZZZZZZ			23:17																		
ZZZZZZ			23:21																		
ZZZZZZ			23:25																		
ZZZZZZ			23:29																		
ZZZZZZ			23:34																		
ZZZZZZ			23:38																		
CCV 460-362357/174			23:43																		
CCB 460-362357/175			23:47																		
CCVL 460-362357/176			23:51																		
ZZZZZZ			23:55																		
ZZZZZZ			00:00																		
ZZZZZZ			00:04																		
ZZZZZZ			00:08																		
ZZZZZZ			00:12																		
ZZZZZZ			00:16																		
ZZZZZZ			00:21																		
ZZZZZZ			00:24																		
ZZZZZZ			00:28																		
ZZZZZZ			00:33																		
CCV 460-362357/187			00:37																		
CCB 460-362357/188			00:40																		
CCVL 460-362357/189			00:44																		
ZZZZZZ			00:48																		
ZZZZZZ			00:52																		
ZZZZZZ			00:56																		
ZZZZZZ			01:00																		
ZZZZZZ			01:04																		
ZZZZZZ			01:08																		
ZZZZZZ			01:12																		
ZZZZZZ			01:16																		
ZZZZZZ			01:20																		
ZZZZZZ			01:24																		
CCV 460-362357/200			01:27																		
CCB 460-362357/201			01:31																		
CCVL 460-362357/202			01:35																		
ZZZZZZ			01:39																		
ZZZZZZ			01:43																		
ZZZZZZ			01:47																		
ZZZZZZ			01:51																		
ZZZZZZ			01:54																		
ZZZZZZ			01:58																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

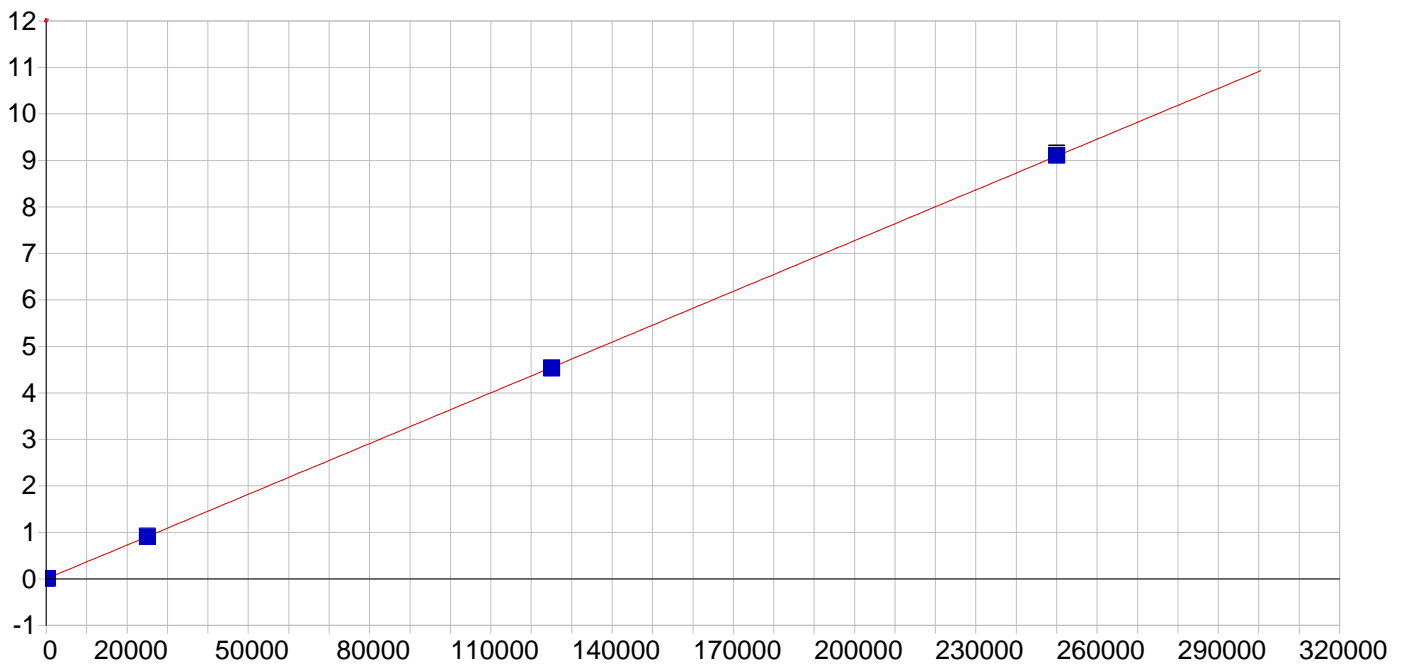
Start Date: 04/13/2016 11:34 End Date: 04/14/2016 02:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			02:02																		
ZZZZZZ			02:06																		
ZZZZZZ			02:10																		
CCV 460-362357/212			02:14																		
CCB 460-362357/213			02:17																		
CCVL 460-362357/214			02:21																		

Prep Types

D = Dissolved

T = Total/NA

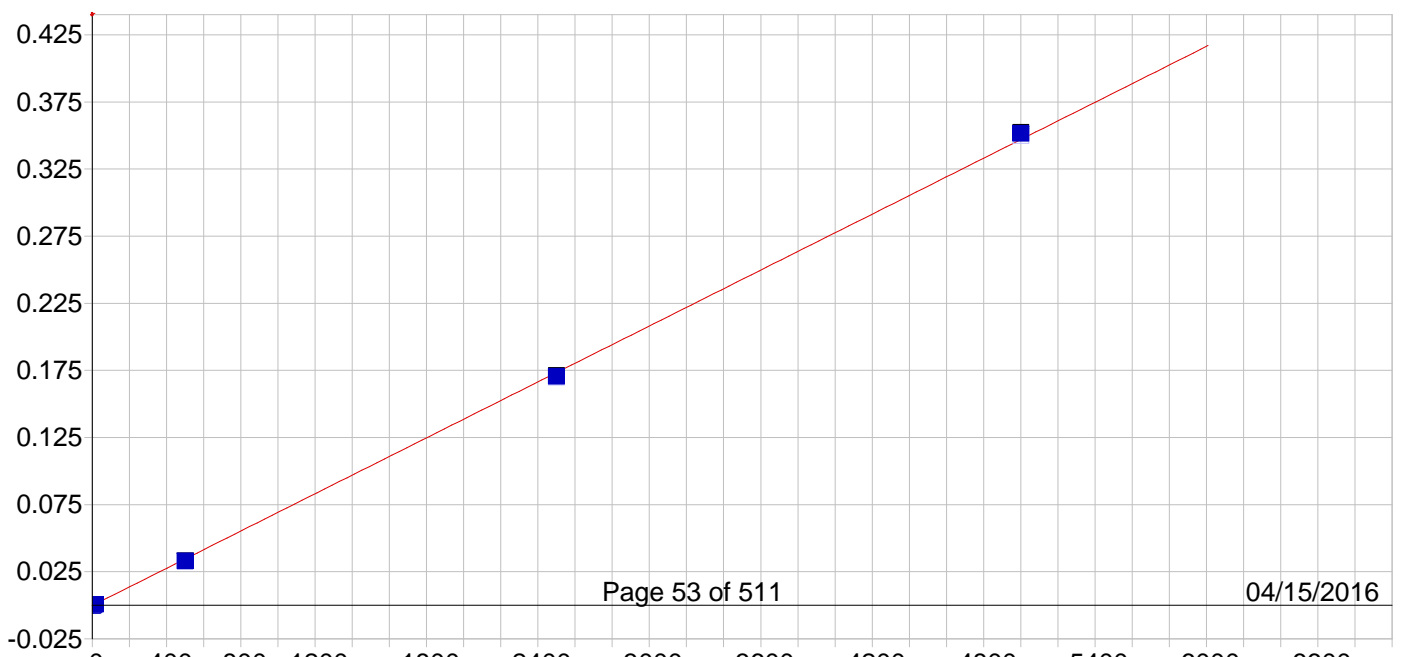


AI 396.152 { 85}

Date of Fit: 4/13/2016 11:58:26 Type of Fit: Linear Weighting: 1/Conc

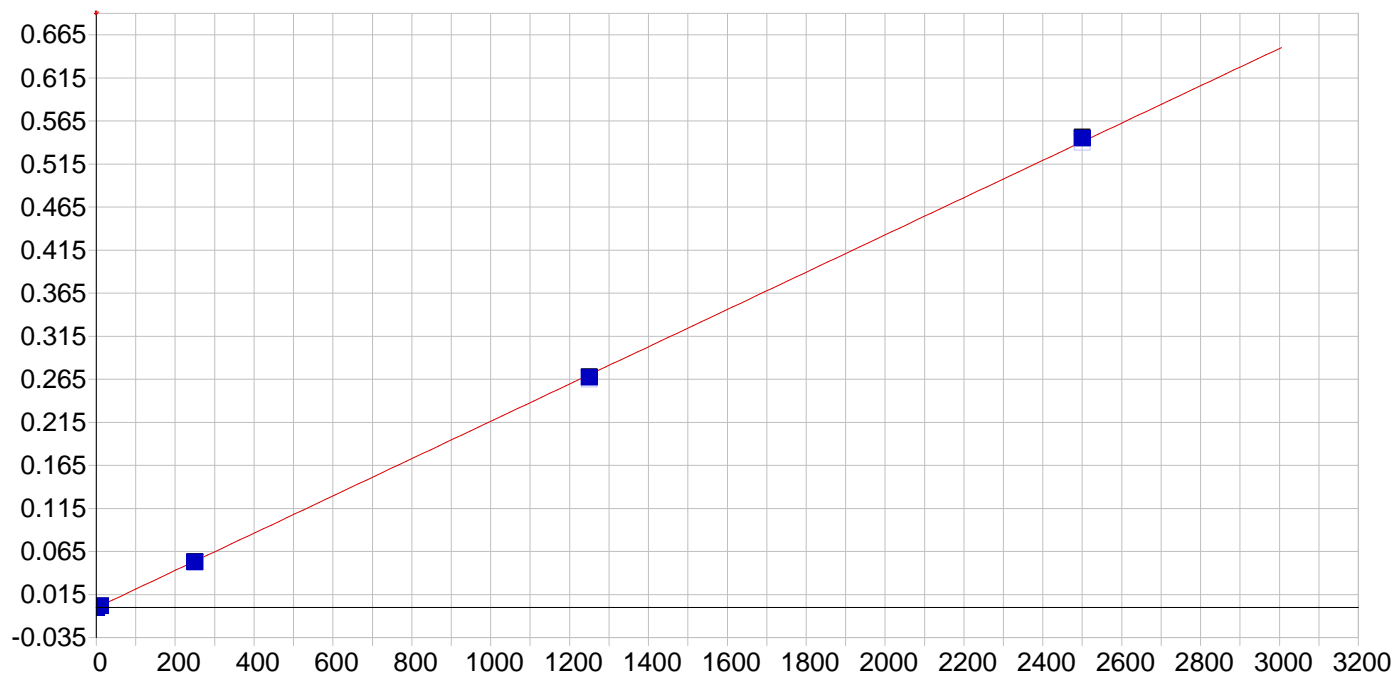
A0 (Offset): 0.000095 Re-Slope: 1.000000
 A1 (Gain): 0.000036 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999997 Status: OK.
 Std Error of Est: 0.000032
 Predicted MDL: 14.104615
 Predicted MQL: 47.015382

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00488	-.005	.000	.00009	.000	1
CAL2	200.00	205.42	5.42	2.71	.00759	.000	1
CAL3	25000.	24971.	-29.3	-.117	.90912	.003	1
CAL4	125000.	124590.	-413.	-.330	4.5355	.007	1
CAL5	250000.	250440.	437.	.175	9.1168	.037	1



Std Error of Est: 0.000011
 Predicted MDL: 2.282502
 Predicted MQL: 7.608340

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00249		.002	.000	-.00019	.000	1
CAL2	15.000		13.290		-1.71	-11.4	.00073	.000	1
CAL3	500.00		477.96		-22.0	-4.41	.03284	.000	1
CAL4	2500.0		2460.1		-39.9	-1.60	.16983	.000	1
CAL5	5000.0		5065.3		65.3	1.31	.34993	.001	1
CAL1	5.0000		3.3143		-1.69	-33.7	.00004	.000	1

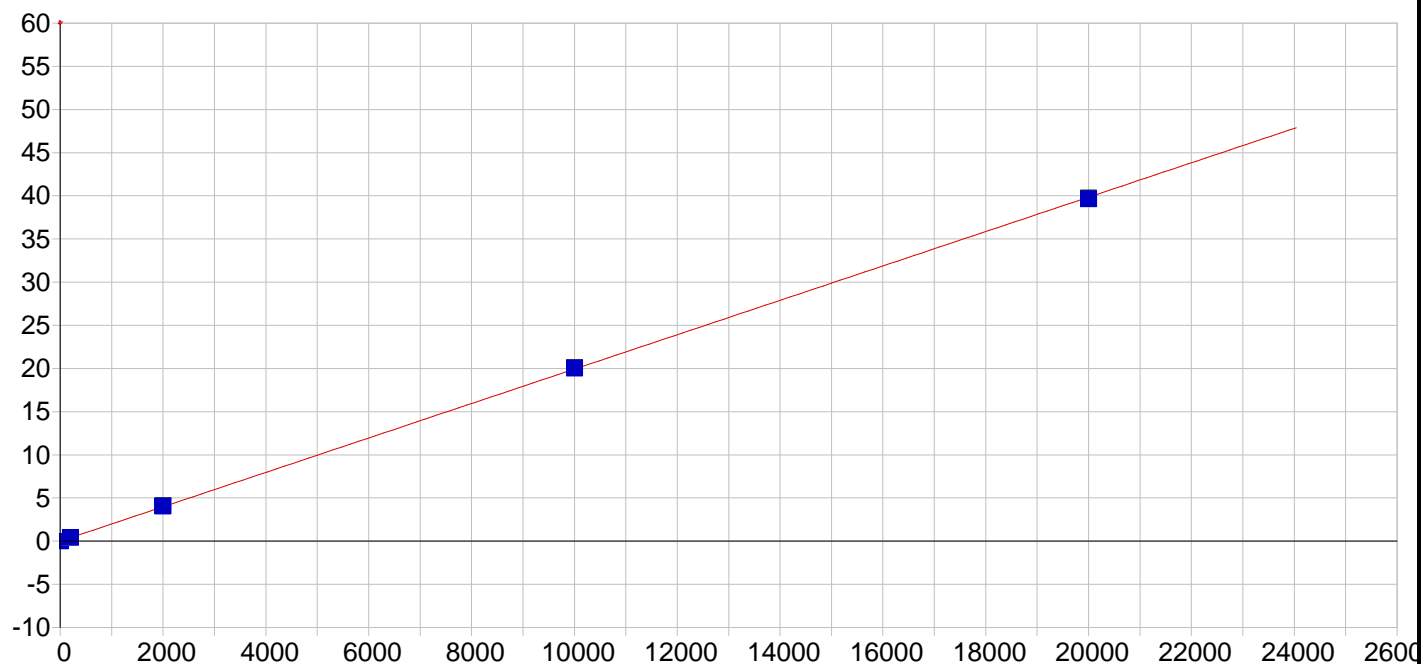


Ag 328.068 {103}

Date of Fit: 4/13/2016 11:58:26 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000385 Re-Slope: 1.000000
 A1 (Gain): 0.000217 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999950 Status: OK.
 Std Error of Est: 0.000017
 Predicted MDL: 0.569613
 Predicted MQL: 1.898710

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00015		.000	.000	-.00038	.000	1
CAL2	10.000		10.079		.079	.791	.00178	.000	1
CAL3	250.00		245.16		-4.84	-1.94	.05223	.000	1
CAL4	1250.0		1236.0		-14.0	-1.12	.26492	.000	1
CAL5	2500.0		2518.7		18.7	.749	.54032	.001	1

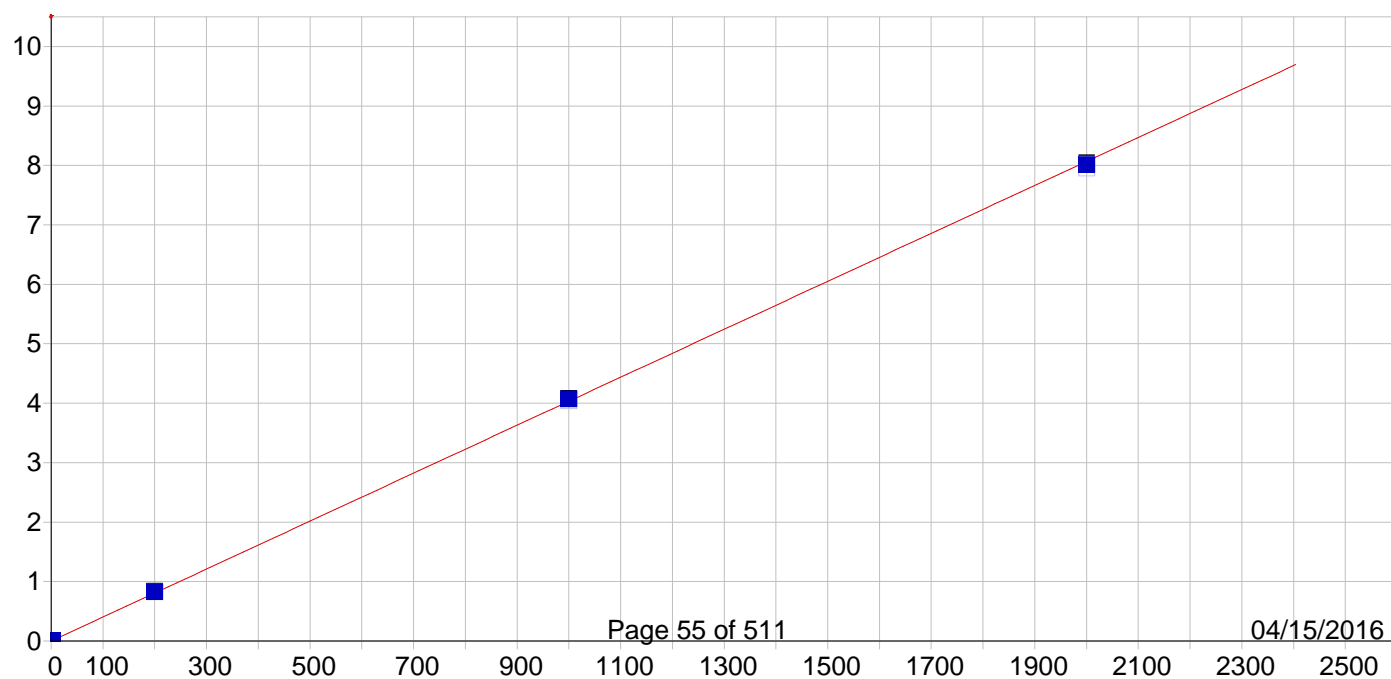


Ba 233.527 {445}

Date of Fit: 4/13/2016 11:58:26 Type of Fit: Linear Weighting: 1/Conc

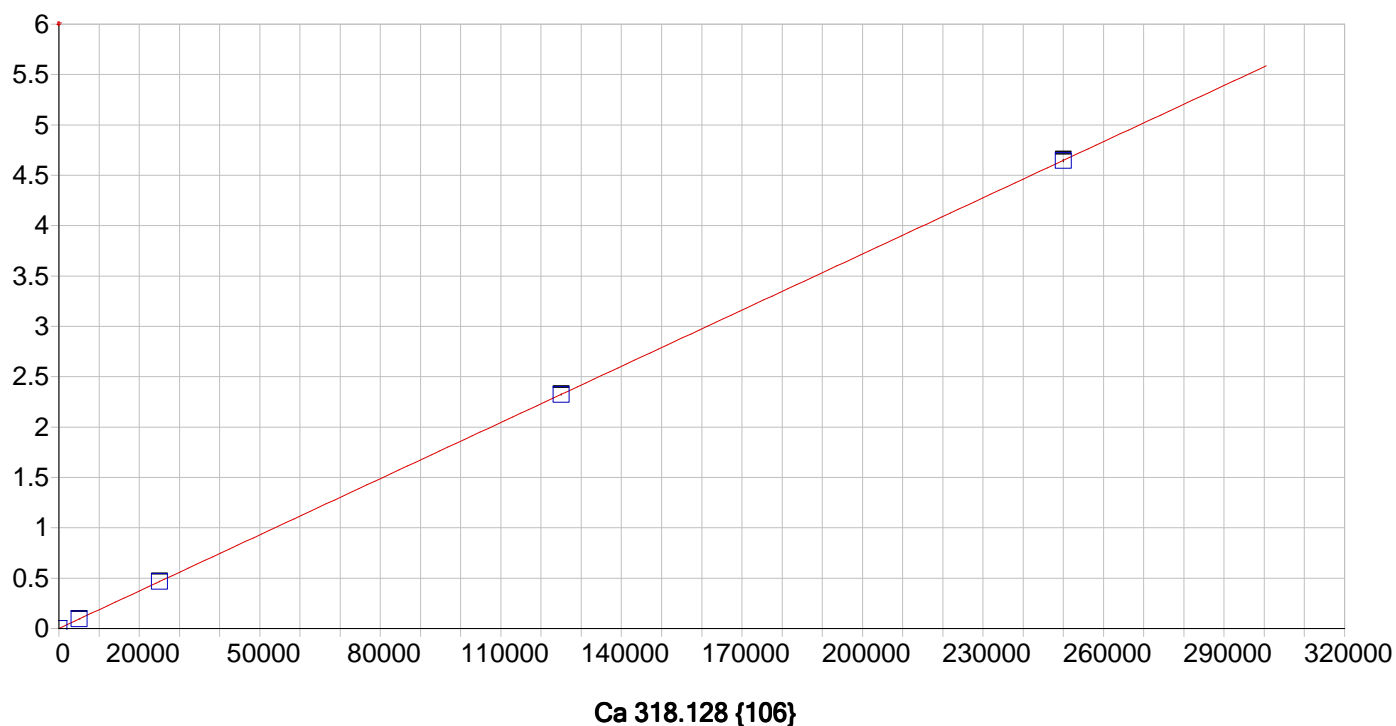
A0 (Offset):	-0.000162	Re-Slope: 1.000000
A1 (Gain):	0.001992	Y-int: 0.000000
A2 (Curvature):	0.000000	
n (Exponent):	1.000000	
Correlation:	0.999975	Status: OK.
Std Error of Est:	0.001463	
Predicted MDL:	0.142503	
Predicted MQL:	0.475010	

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00975		-.010	.000	-.00018	.000	1
CAL2	200.00		206.17		6.17	3.08	.41045	.002	1
CAL3	2000.0		2033.8		33.8	1.69	4.0478	.004	1
CAL4	10000.		10060.		59.8	.598	20.022	.037	1
CAL5	20000.		19900.		-99.8	-.499	39.607	.071	1



Predicted MDL: 0.107728
Predicted MQL: 0.359093

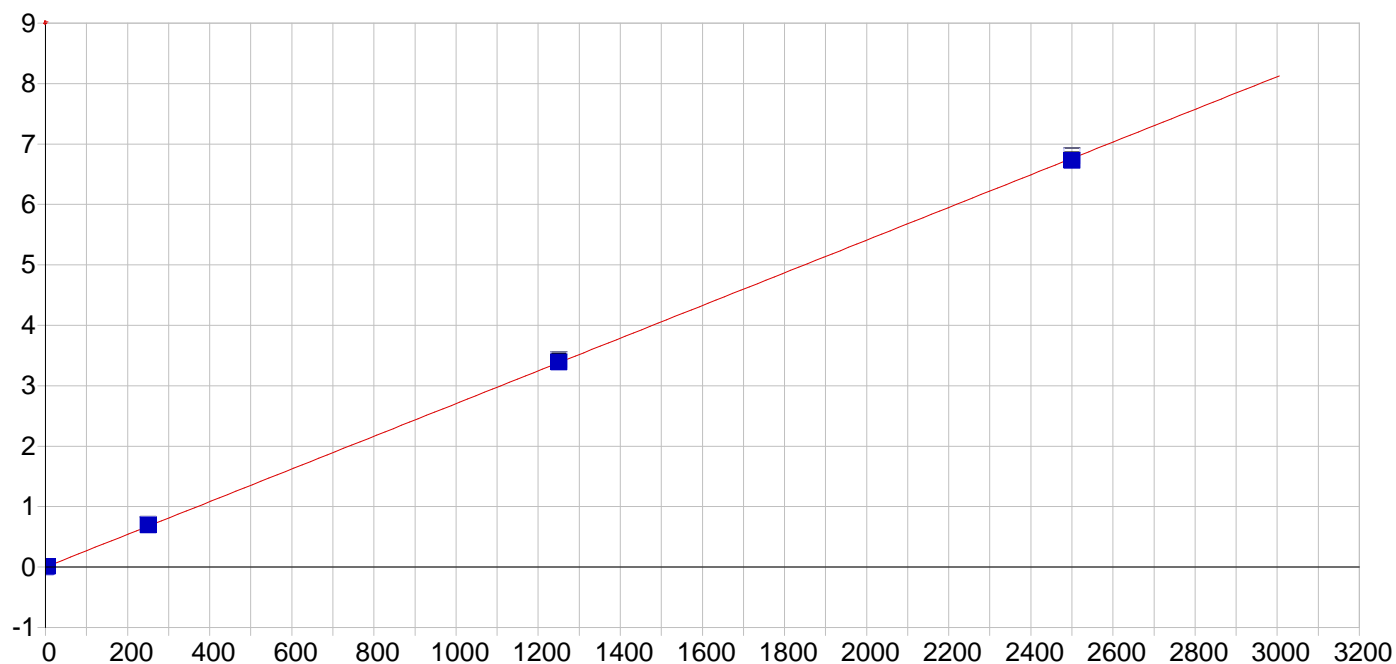
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00007	-.000	.000	.00035	.000	1
CAL2	2.0000	2.0179	.018	.893	.00843	.000	1
CAL3	200.00	205.07	5.07	2.54	.82151	.005	1
CAL4	1000.0	1009.0	8.97	.897	4.0400	.006	1
CAL5	2000.0	1985.9	-14.1	-.703	7.9506	.028	1



Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001054 Re-Slope: 1.000000
A1 (Gain): 0.000019 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999997 Status: OK.
Std Error of Est: 0.000090
Predicted MDL: 6.221151
Predicted MQL: 20.737171

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.12148	-.121	.000	.00105	.000	1
CAL2	5000.0	5110.6	111.	2.21	.09605	.000	1
CAL3	25000.	25082.	81.6	.326	.46726	.002	1
CAL4	125000.	124920.	-77.6	-.062	2.3230	.006	1
CAL5	250000.	249890.	-115.	-.046	4.6458	.014	1

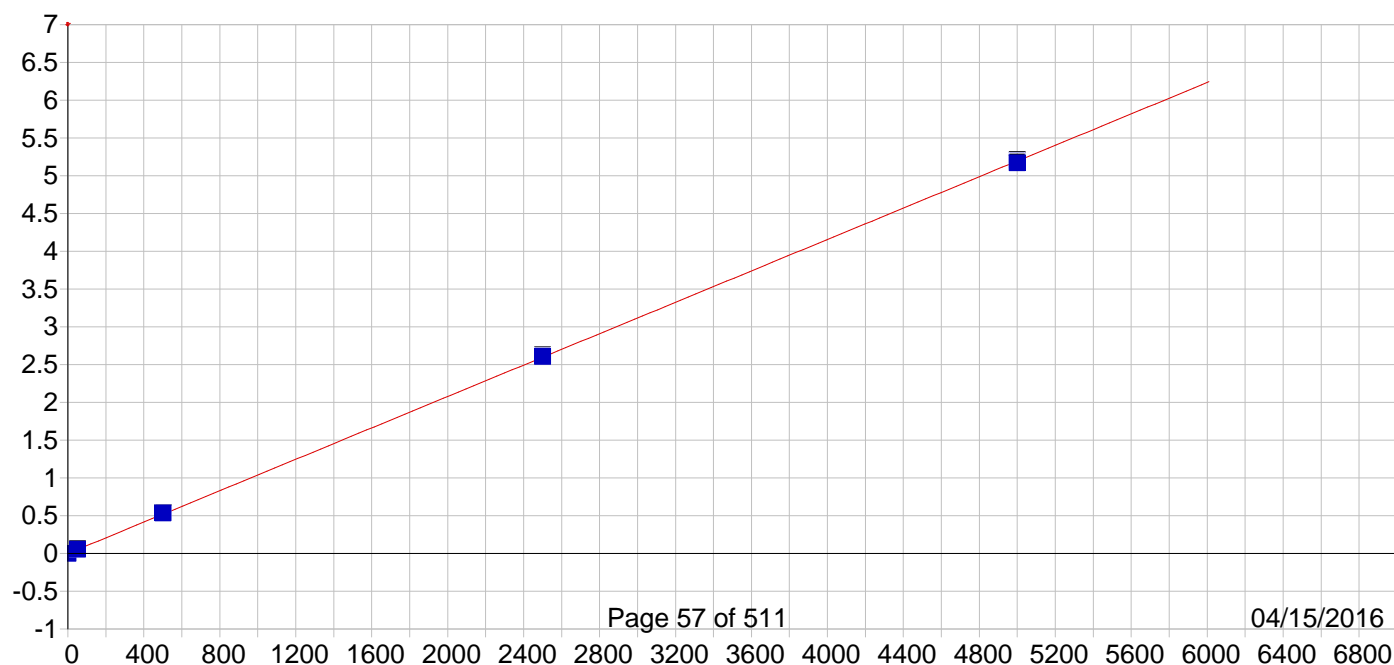


Cd 226.502 {449}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

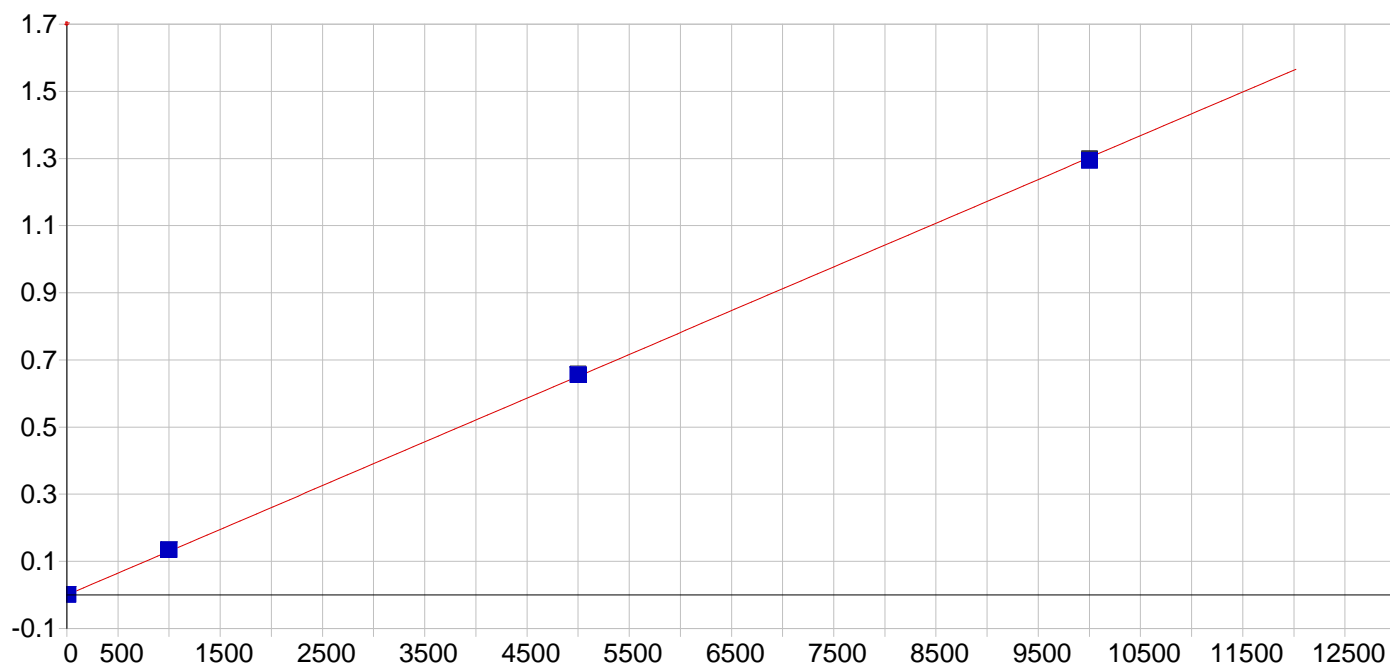
A0 (Offset): 0.000058 Re-Slope: 1.000000
 A1 (Gain): 0.002705 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999963 Status: OK.
 Std Error of Est: 0.000122
 Predicted MDL: 0.126149
 Predicted MQL: 0.420498

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00006		-.000	.000	.00006	.000	1
CAL2	4.0000		3.9427		-.057	-1.43	.01078	.000	1
CAL3	250.00		257.58		7.58	3.03	.70413	.002	1
CAL4	1250.0		1254.5		4.52	.362	3.4302	.004	1
CAL5	2500.0		2488.0		-12.0	-.482	6.8033	.006	1



Predicted MDL: 0.277184
 Predicted MQL: 0.923947

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00394	-.004	.000	-.00068	.000	1
CAL2	50.000	52.594	2.59	5.19	.05399	.000	1
CAL3	500.00	514.38	14.4	2.88	.53733	.001	1
CAL4	2500.0	2508.2	8.23	.329	2.6232	.006	1
CAL5	5000.0	4974.8	-25.2	-.504	5.2038	.007	1

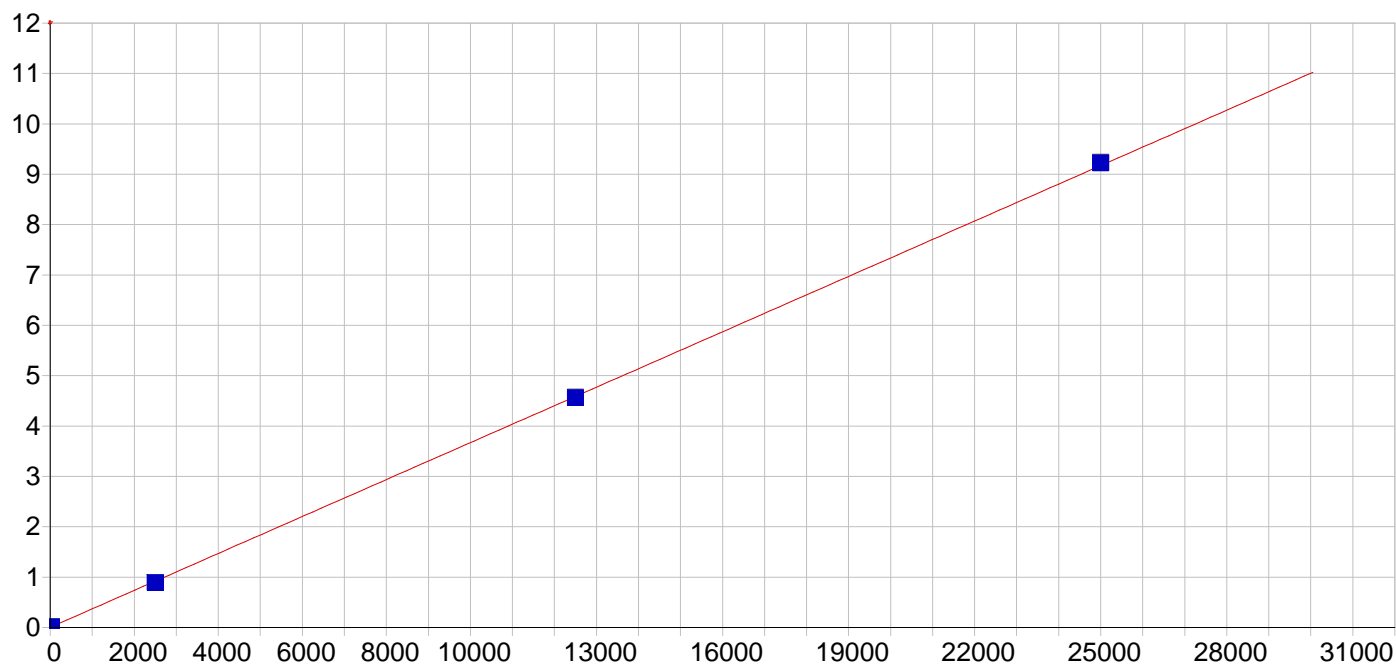


Cr 267.716 {126}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000002 Re-Slope: 1.000000
 A1 (Gain): 0.000130 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999950 Status: OK.
 Std Error of Est: 0.000021
 Predicted MDL: 0.594400
 Predicted MQL: 1.981334

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00040	-.000	.000	.00000	.000	1
CAL2	10.000	10.082	.082	.817	.00132	.000	1
CAL3	1000.0	1031.3	31.3	3.13	.13436	.000	1
CAL4	5000.0	5032.7	32.7	.653	.65565	.001	1
CAL5	10000.	9935.9	-64.1	-.641	1.2944	.003	1

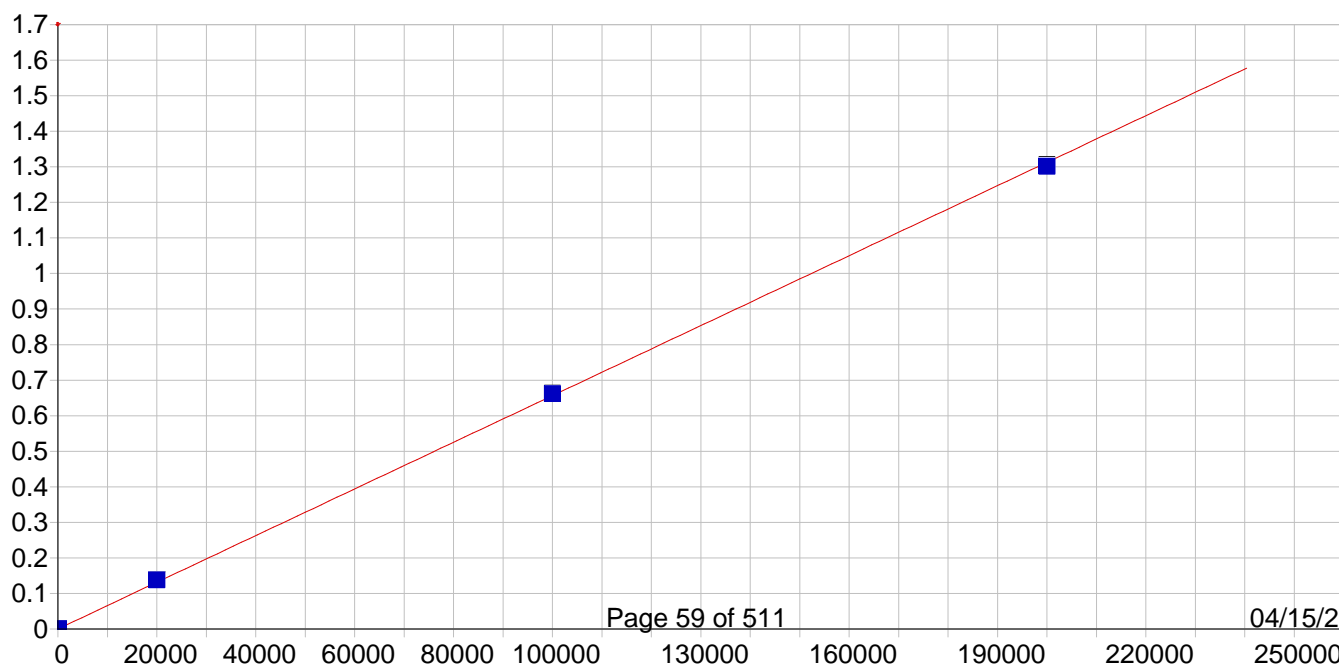


Cu 324.754 {104}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

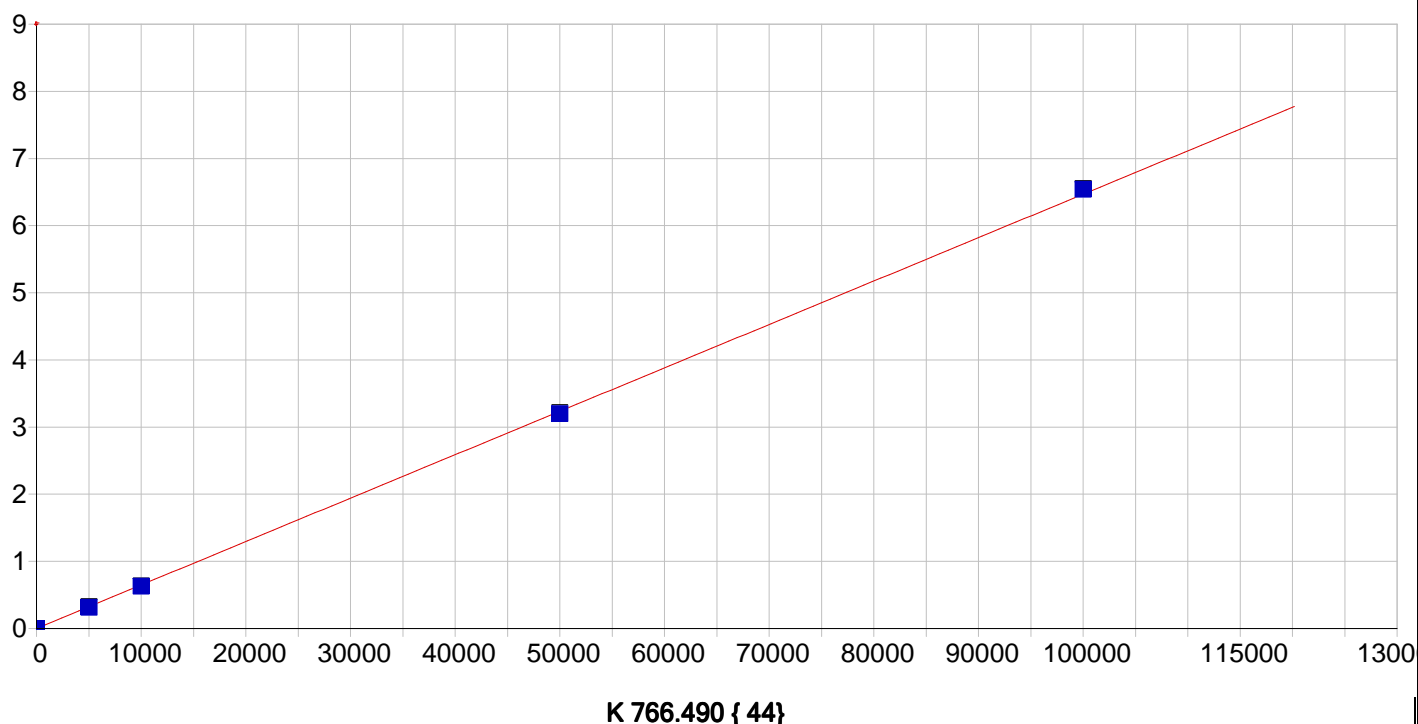
A0 (Offset): 0.003712 Re-Slope: 1.000000
 A1 (Gain): 0.000367 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999952 Status: OK.
 Std Error of Est: 0.000146
 Predicted MDL: 0.315228
 Predicted MQL: 1.050759

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00130		.001	.000	.00371	.000	1
CAL2	25.000		24.494		-.506	-2.02	.01268	.000	1
CAL3	2500.0		2419.0		-81.0	-3.24	.89029	.000	1
CAL4	12500.		12435.		-64.9	-.519	4.5614	.004	1
CAL5	25000.		25146.		146.	.586	9.2204	.011	1



Predicted MDL: 11.478085
 Predicted MQL: 38.260284

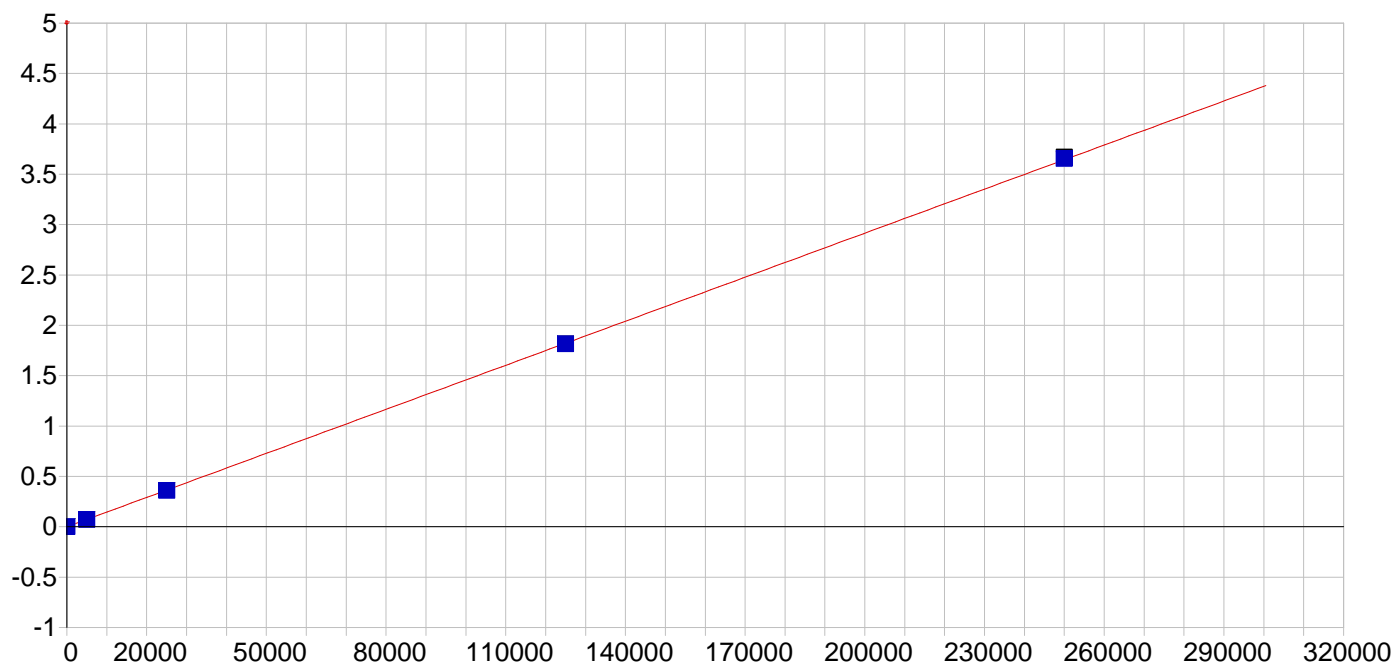
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.01857	-.019	.000	.00017	.000	1
CAL2	150.00	161.28	11.3	7.52	.00126	.000	1
CAL3	20000.	20997.	997.	4.99	.13828	.000	1
CAL4	100000.	100760.	765.	.765	.66300	.000	1
CAL5	200000.	198230.	-1770.	-.887	1.3042	.002	1



Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002402 Re-Slope: 1.000000
 A1 (Gain): 0.000065 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999890 Status: OK.
 Std Error of Est: 0.001125
 Predicted MDL: 34.501708
 Predicted MQL: 115.005693

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.34514	.345	.000	.00242	.002	1
CAL2	5000.0	4828.6	-171.	-3.43	.31457	.003	1
CAL3	10000.	9660.2	-340.	-3.40	.62719	.004	1
CAL4	50000.	49413.	-587.	-1.17	3.1982	.012	1
CAL5	100000.	101100.	1100.	1.10	6.5410	.008	1

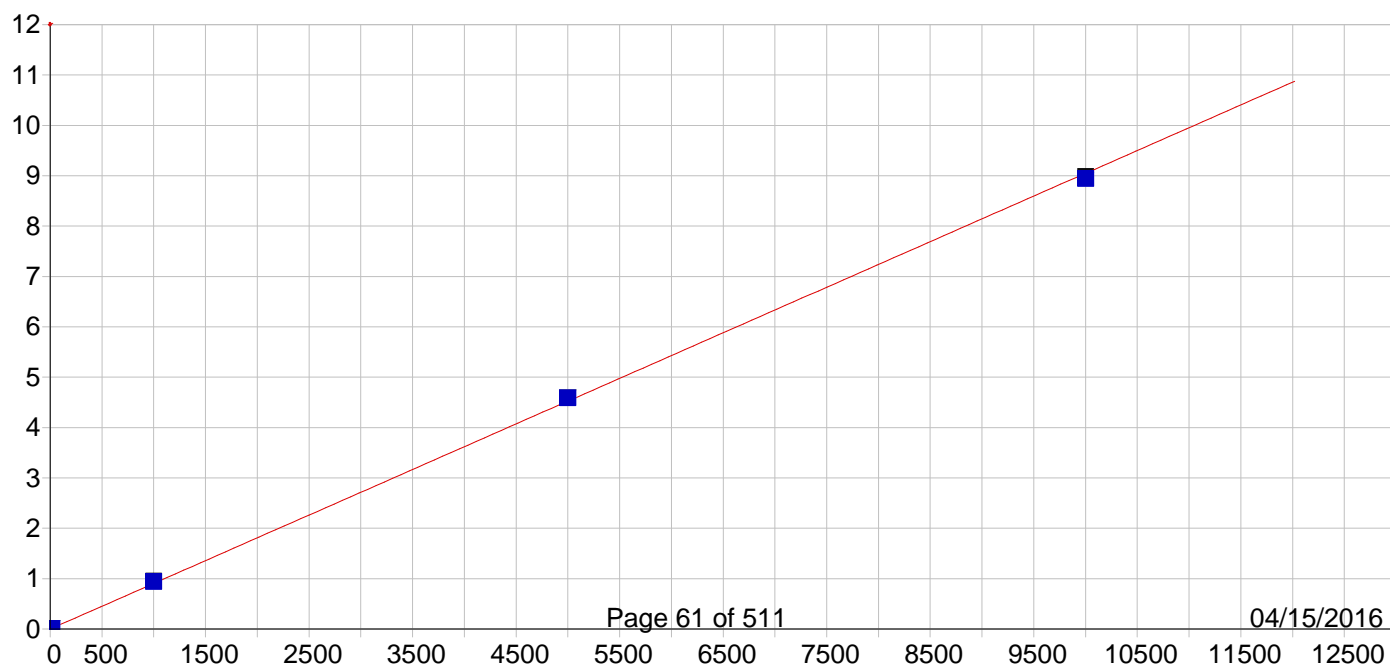


Mg 279.079 {121}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

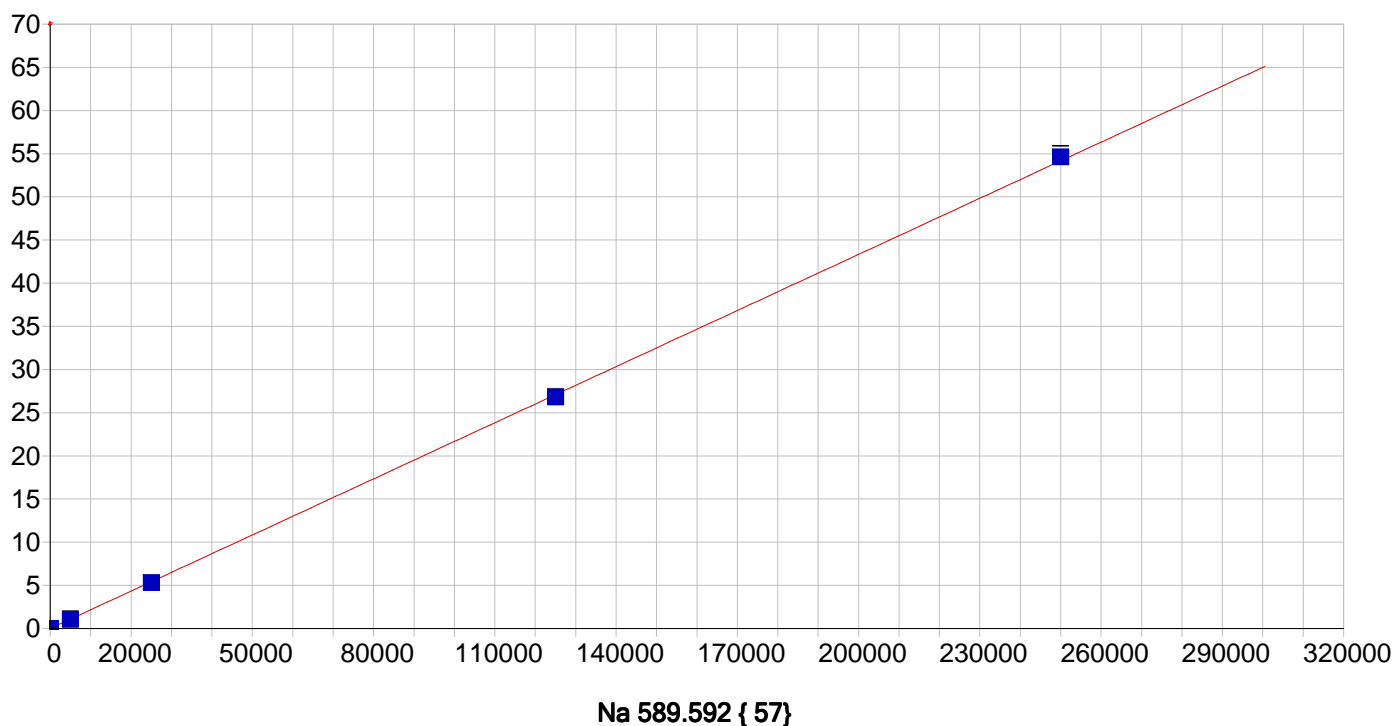
A0 (Offset): 0.000030 Re-Slope: 1.000000
 A1 (Gain): 0.000015 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999987 Status: OK.
 Std Error of Est: 0.000138
 Predicted MDL: 5.709603
 Predicted MQL: 19.032009

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.14630		.146	.000	.00003	.000	1
CAL2	5000.0		4927.6		-72.4	-1.45	.07186	.000	1
CAL3	25000.		24625.		-375.	-1.50	.35874	.001	1
CAL4	125000.		124610.		-389.	-.311	1.8153	.002	1
CAL5	250000.		250840.		837.	.335	3.6540	.011	1



Predicted MDL: 0.078230
 Predicted MQL: 0.260767

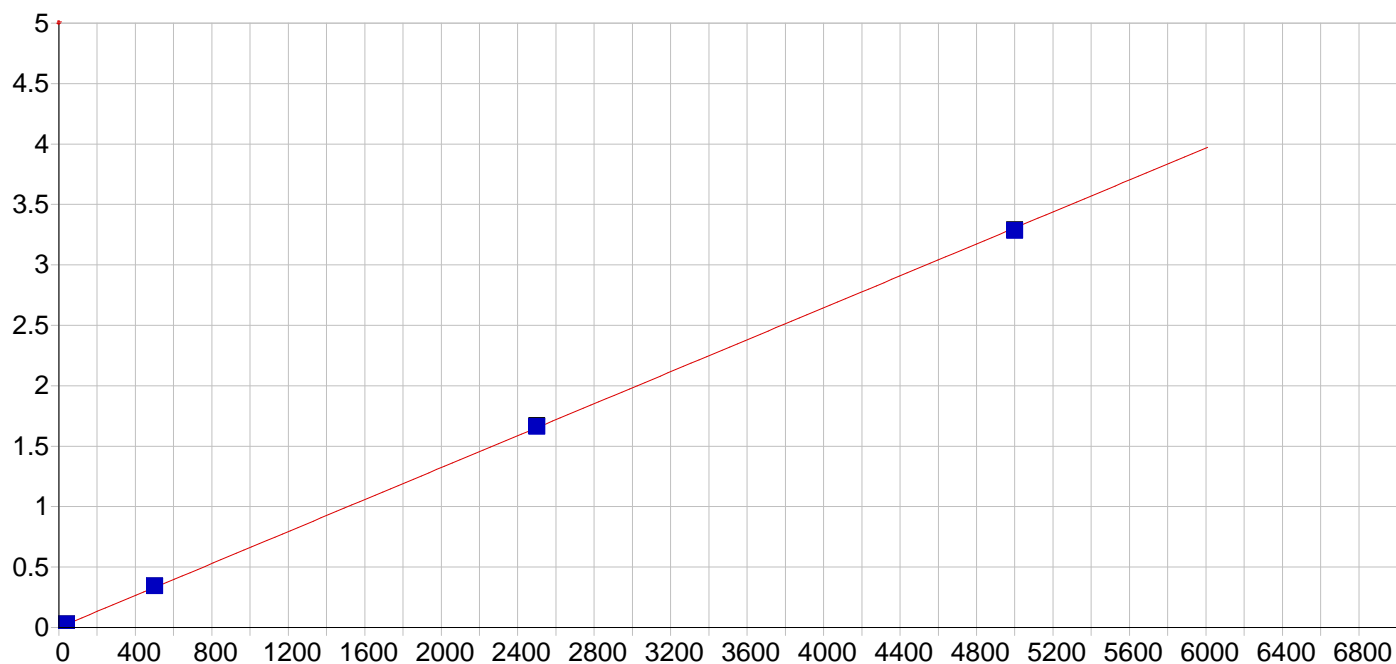
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00162	-.002	.000	.00024	.000	1
CAL2	15.000	15.970	.970	6.47	.01469	.000	1
CAL3	1000.0	1040.0	40.0	4.00	.94093	.003	1
CAL4	5000.0	5073.7	73.7	1.47	4.5892	.005	1
CAL5	10000.	9885.4	-115.	-1.15	8.9412	.033	1



Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002739 Re-Slope: 1.000000
 A1 (Gain): 0.000217 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999938 Status: OK.
 Std Error of Est: 0.004441
 Predicted MDL: 8.788778
 Predicted MQL: 29.295925

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.27319	.273	.000	.00280	.002	1
CAL2	5000.0	4862.6	-137.	-2.75	1.0563	.002	1
CAL3	25000.	24377.	-623.	-2.49	5.2861	.005	1
CAL4	125000.	123680.	-1320.	-1.05	26.809	.053	1
CAL5	250000.	252080.	2080.	.831	54.637	.373	1

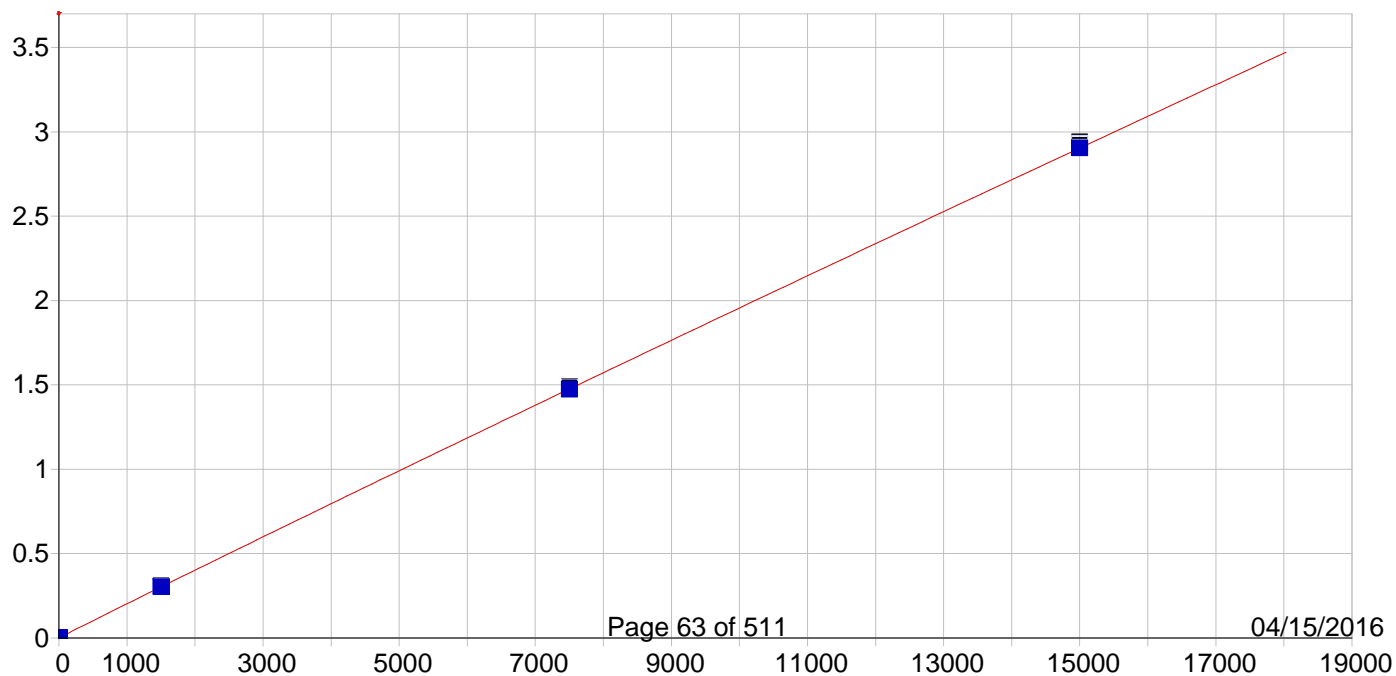


Ni 231.604 {446}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

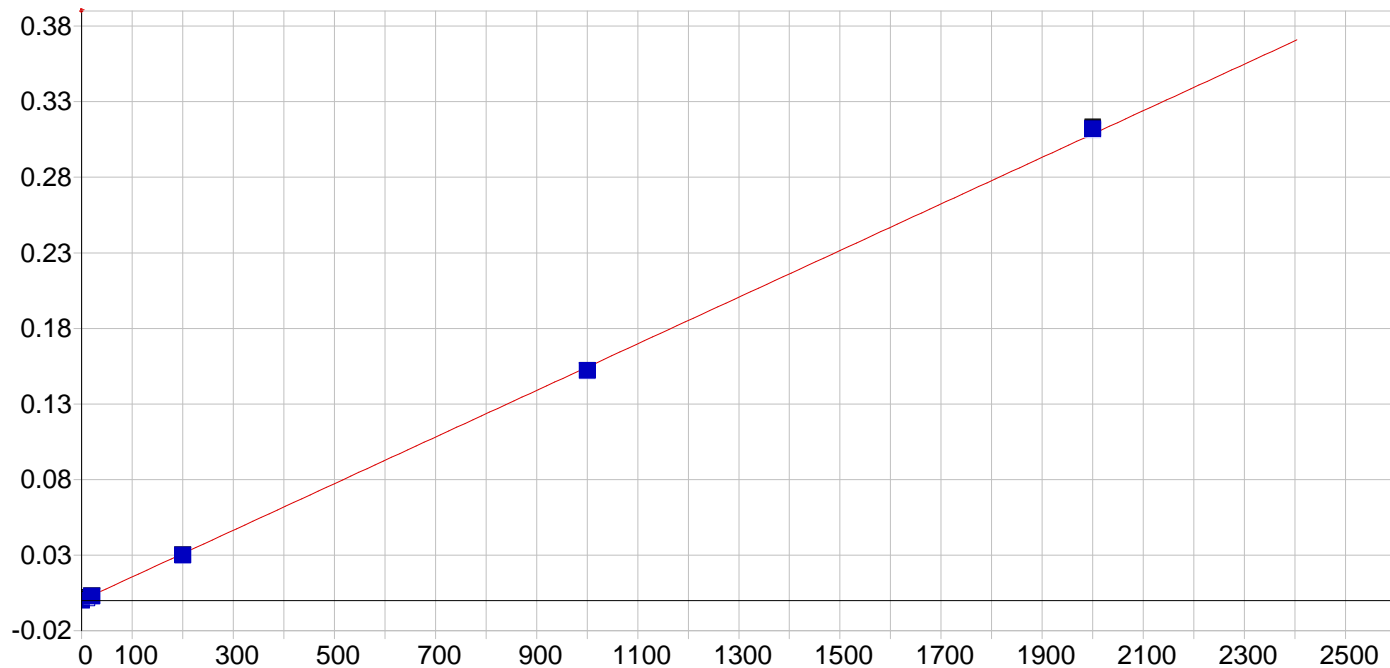
A0 (Offset): 0.000562 Re-Slope: 1.000000
 A1 (Gain): 0.000661 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999930 Status: OK.
 Std Error of Est: 0.000181
 Predicted MDL: 0.507576
 Predicted MQL: 1.691921

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00382		-.004	.000	.00056	.000	1
CAL2	40.000		42.403		2.40	6.01	.02860	.000	1
CAL3	500.00		518.40		18.4	3.68	.34366	.001	1
CAL4	2500.0		2513.3		13.3	.534	1.6641	.004	1
CAL5	5000.0		4965.9		-34.1	-.683	3.2874	.004	1



Predicted MDL: 1.735657
 Predicted MQL: 5.785524

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00029		.000	.000	.00058	.000	1
CAL2	10.000		9.0437		-.956	-9.56	.00251	.001	1
CAL3	1500.0		1505.2		5.25	.350	.30615	.001	1
CAL4	7500.0		7492.0		-8.02	-.107	1.4867	.003	1
CAL5	15000.		15004.		3.59	.024	2.9293	.011	1
CAL1	5.0000		5.1344		.134	2.69	.00167	.000	1

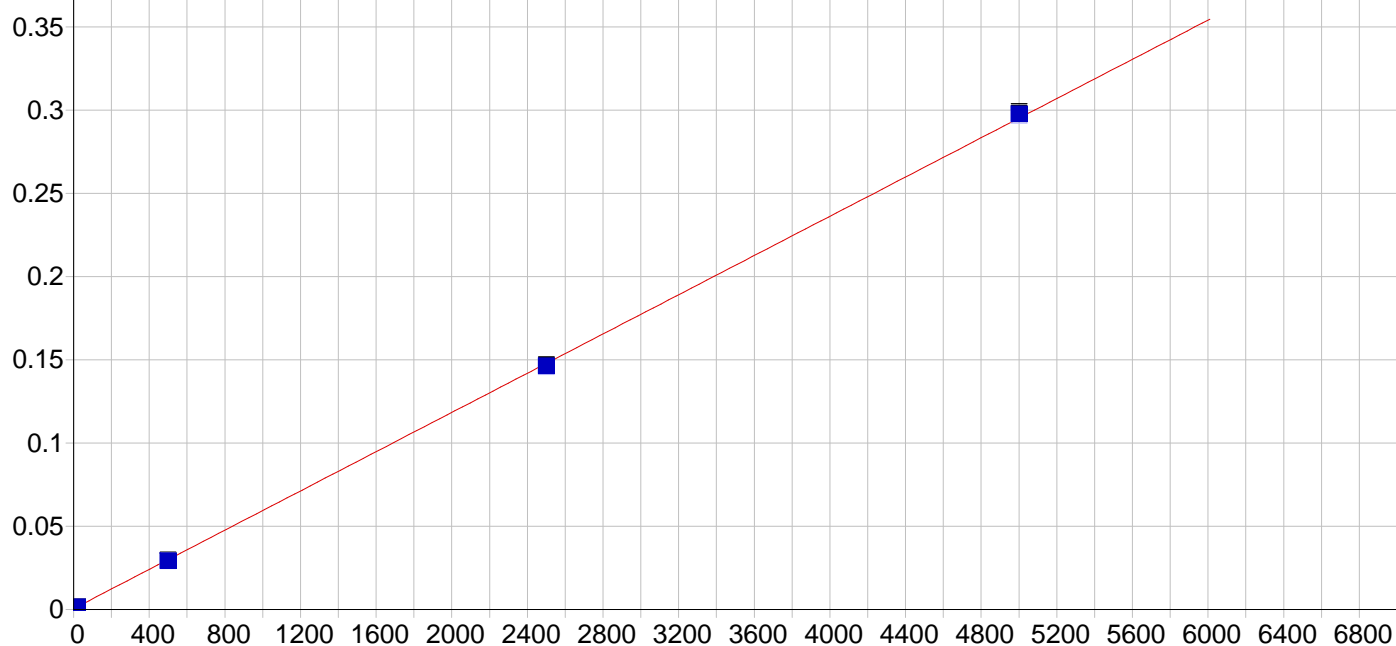


Sb 206.833 {463}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000132 Re-Slope: 1.000000
 A1 (Gain): 0.000154 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999871 Status: OK.
 Std Error of Est: 0.000017
 Predicted MDL: 1.579177
 Predicted MQL: 5.263925

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00117		.001	.000	.00013	.000	1
CAL2	20.000		18.229		-1.77	-8.86	.00286	.000	1
CAL3	200.00		193.80		-6.20	-3.10	.02994	.000	1
CAL4	1000.0		985.17		-14.8	-1.48	.15165	.000	1
CAL5	2000.0		2022.7		22.7	1.14	.31125	.001	1
CAL1	10.000		10.057		.057	.569	.00168	.000	1

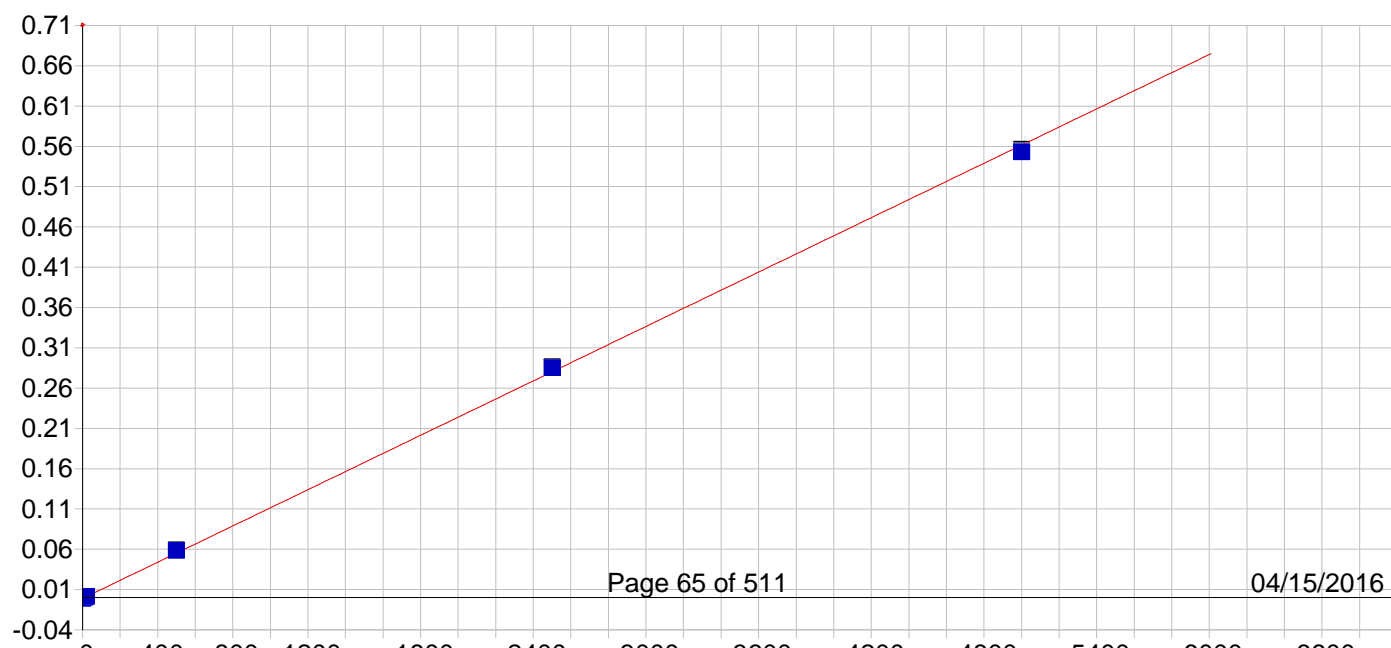


Se 196.090 {472}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

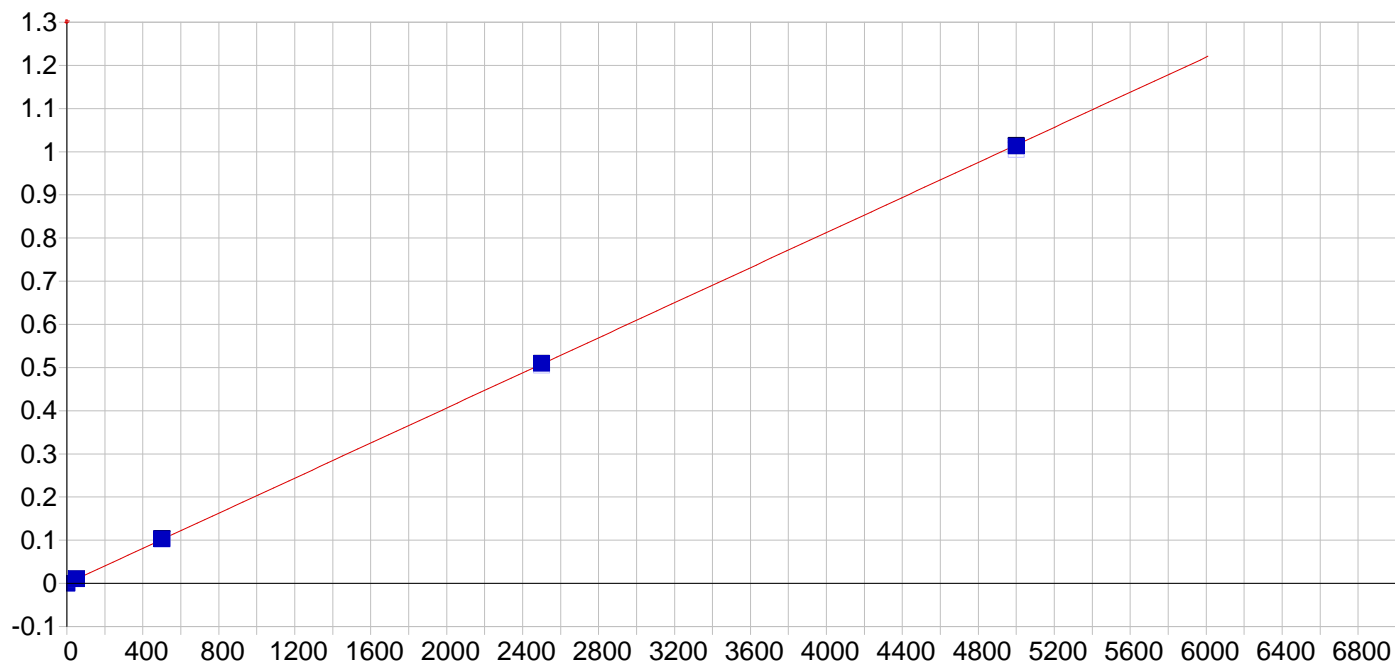
A0 (Offset): 0.000522 Re-Slope: 1.000000
 A1 (Gain): 0.000059 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999775 Status: OK.
 Std Error of Est: 0.000010
 Predicted MDL: 3.316311
 Predicted MQL: 11.054369

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00418		.004	.000	.00052	.000	1
CAL2	20.000		16.932		-3.07	-15.3	.00152	.000	1
CAL3	500.00		487.88		-12.1	-2.42	.02916	.000	1
CAL4	2500.0		2474.1		-25.9	-1.04	.14576	.001	1
CAL5	5000.0		5044.4		44.4	.888	.29667	.001	1
CAL1	5.0000		1.7113		-3.29	-65.8	.00062	.000	1



Std Error of Est: 0.000026
 Predicted MDL: 1.965654
 Predicted MQL: 6.552180

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00105	-.001	.000	-.00106	.000	1
CAL2	20.000	20.728	.728	3.64	.00129	.000	1
CAL3	500.00	528.40	28.4	5.68	.05851	.000	1
CAL4	2500.0	2544.8	44.8	1.79	.28583	.000	1
CAL5	5000.0	4926.0	-74.0	-1.48	.55431	.002	1
CAL1	10.000	10.091	.091	.909	.00008	.000	1

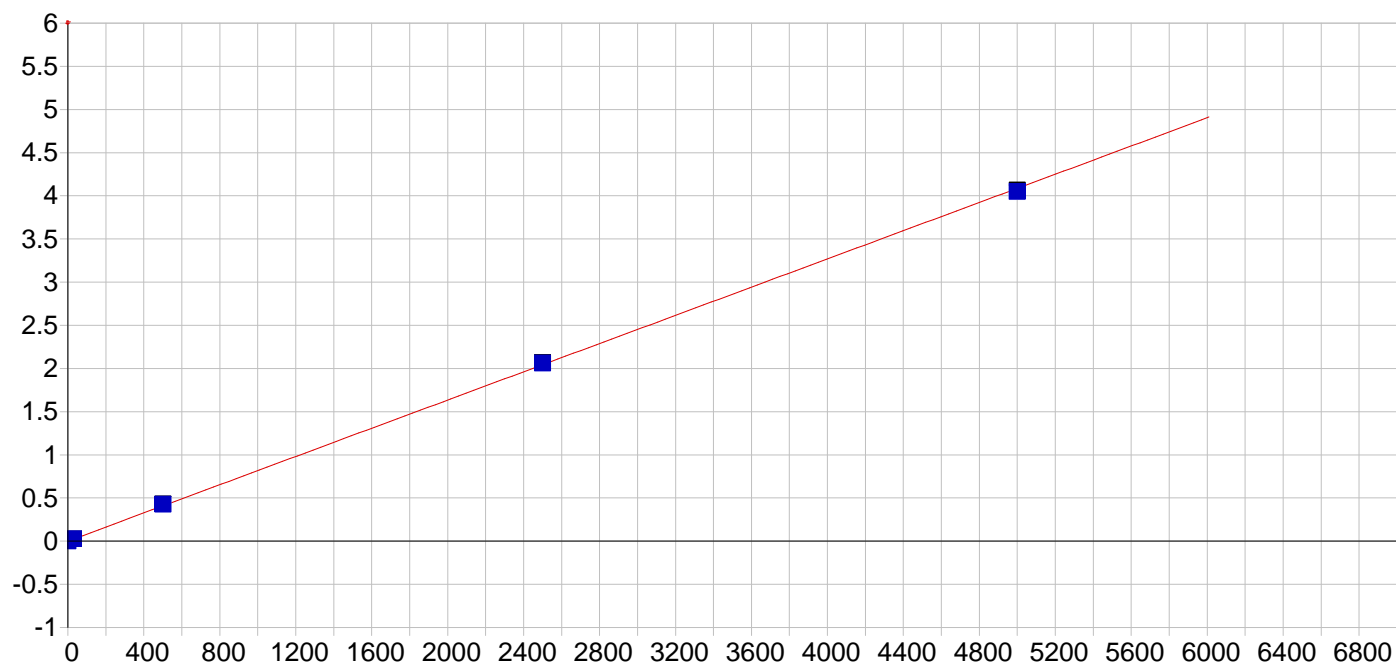


V 292.402 {115}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000018 Re-Slope: 1.000000
 A1 (Gain): 0.000203 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999990 Status: OK.
 Std Error of Est: 0.000023
 Predicted MDL: 0.453636
 Predicted MQL: 1.512119

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00146	-.001	.000	-.00002	.000	1
CAL2	50.000	50.816	.816	1.63	.01027	.000	1
CAL3	500.00	506.46	6.46	1.29	.10206	.000	1
CAL4	2500.0	2507.1	7.10	.284	.50527	.000	1
CAL5	5000.0	4985.6	-14.4	-2.88	1.0047	.002	1

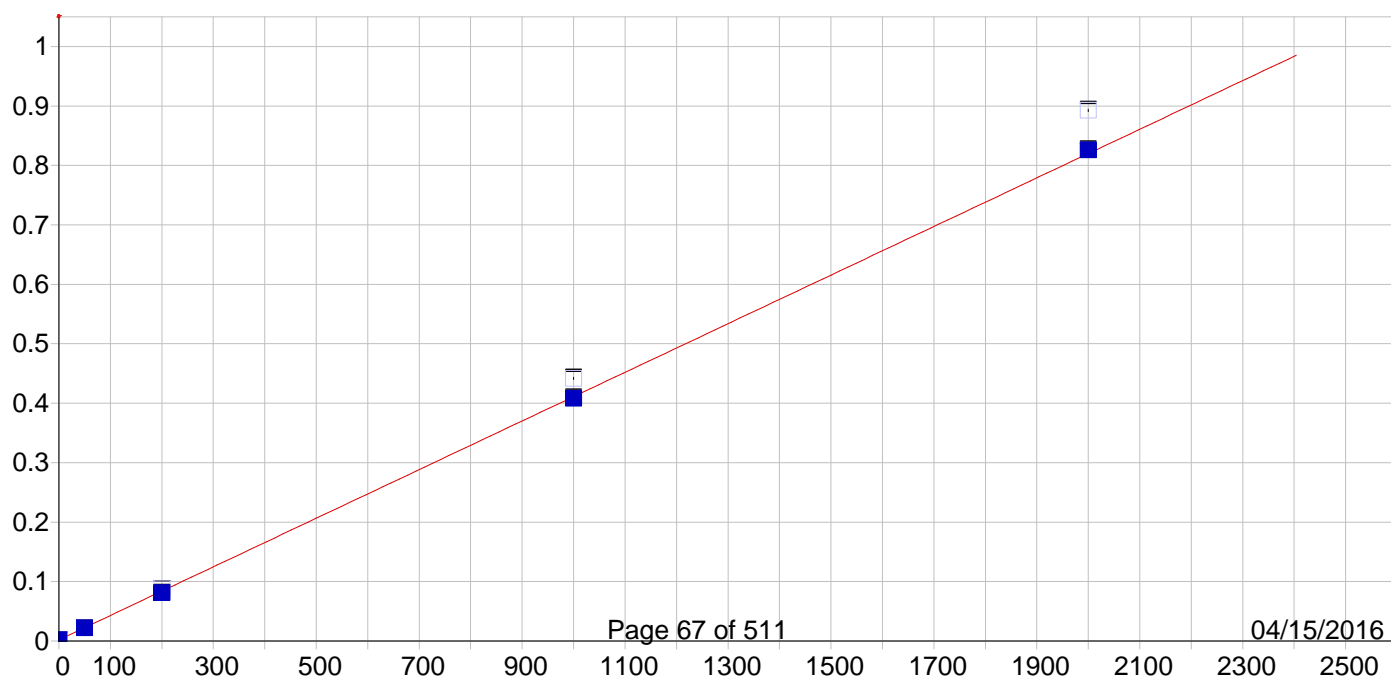


Zn 206.200 {463}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

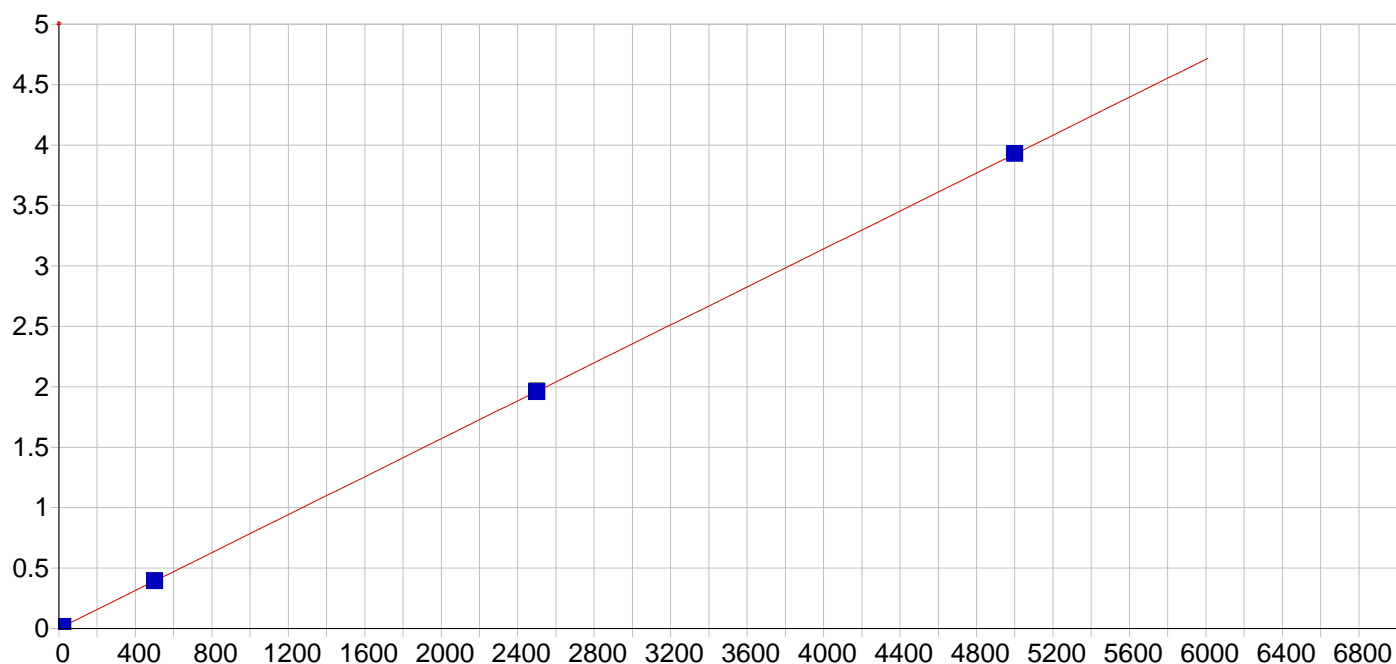
A0 (Offset): -0.000073 Re-Slope: 1.000000
 A1 (Gain): 0.000817 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999898 Status: OK.
 Std Error of Est: 0.000233
 Predicted MDL: 0.239616
 Predicted MQL: 0.798719

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00301		-.003	.000	-.00008	.000	1
CAL2	30.000		31.741		1.74	5.80	.02586	.000	1
CAL3	500.00		521.23		21.2	4.25	.42560	.002	1
CAL4	2500.0		2522.9		22.9	.915	2.0603	.003	1
CAL5	5000.0		4954.1		-45.9	-.917	4.0457	.014	1



Predicted MDL: 0.568870
 Predicted MQL: 1.896234

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00305		.003	.000	.00208	.000	1
CAL2	50.000		48.521		-1.48	-2.96	.02219	.000	1
CAL3	200.00		193.61		-6.39	-3.20	.08793	.000	1
CAL4	1000.0		993.47		-6.53	-.653	.44172	.002	1
CAL5	2000.0		2014.3		14.3	.715	.89256	.002	1

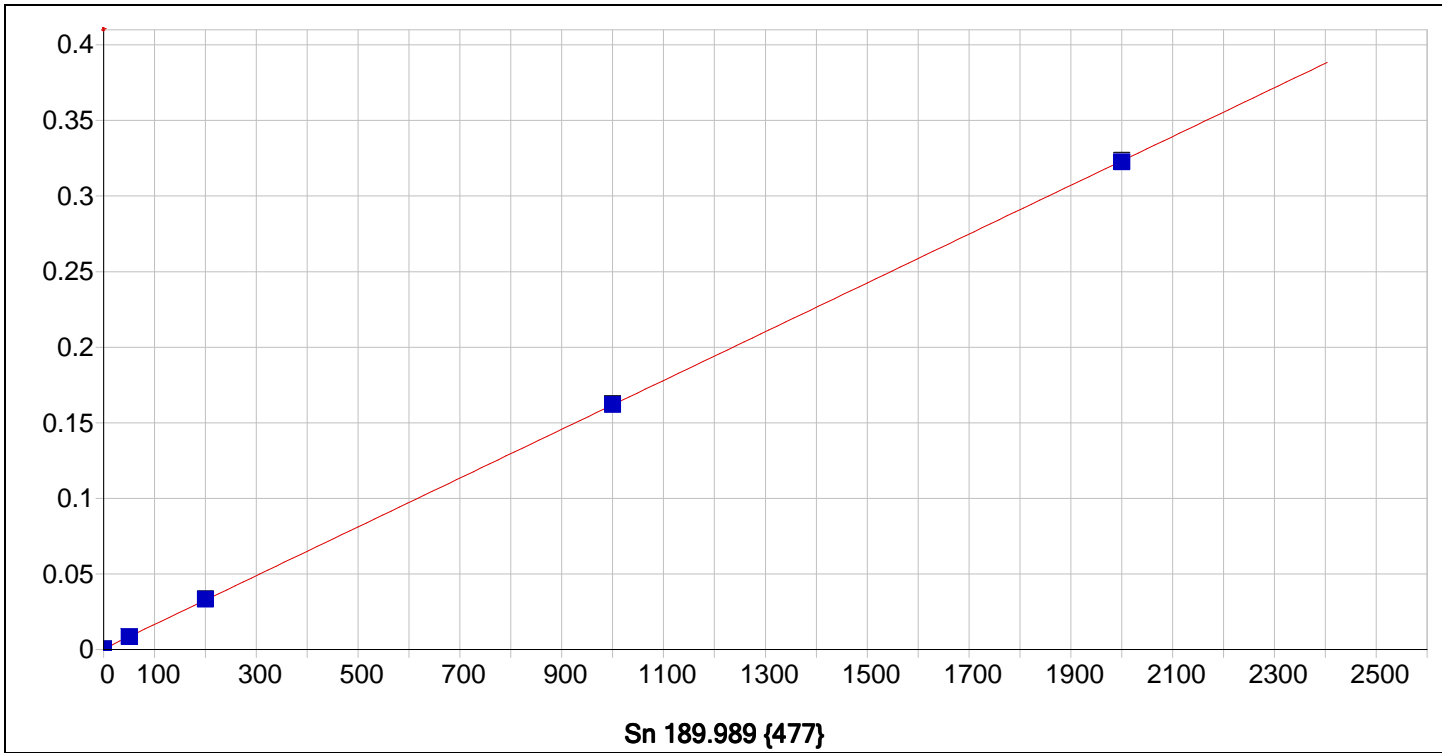


Mo 202.030 {467}

Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000338 Re-Slope: 1.000000
 A1 (Gain): 0.000785 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999997 Status: OK.
 Std Error of Est: 0.000031
 Predicted MDL: 0.260201
 Predicted MQL: 0.867336

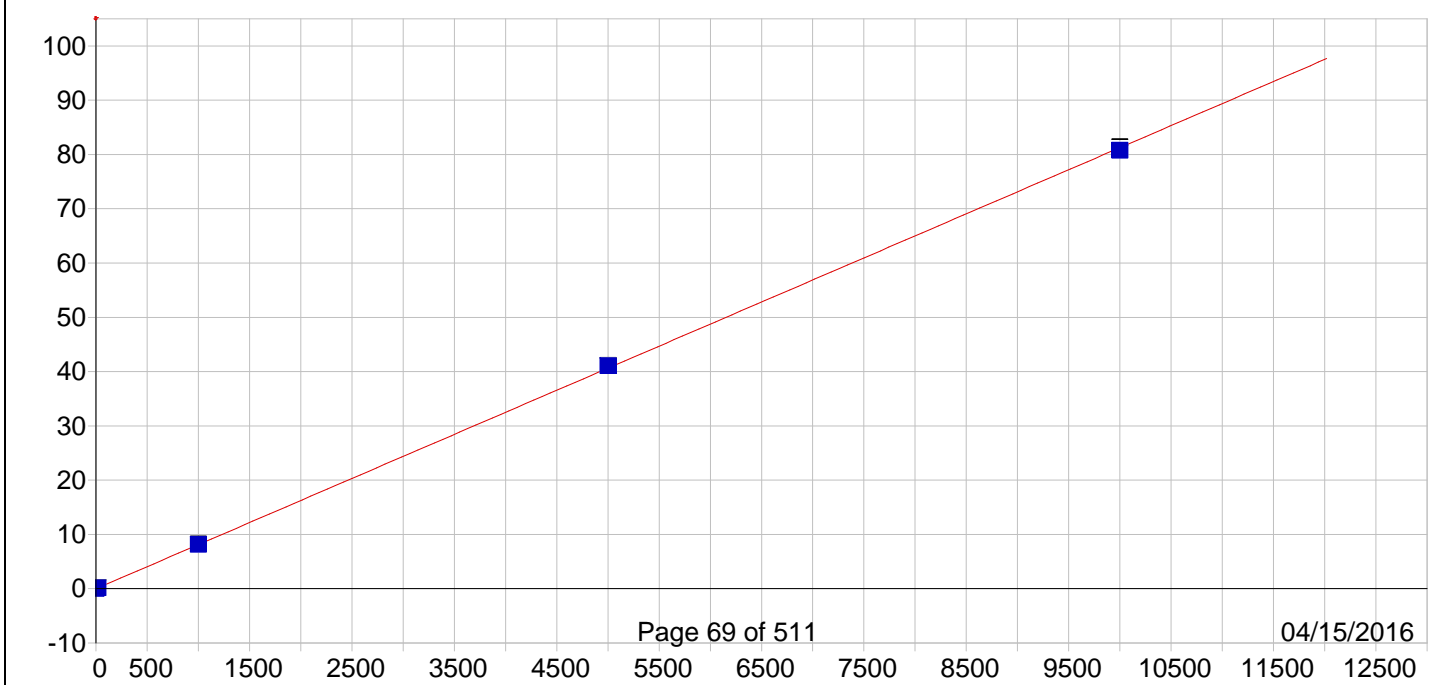
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00077		.001	.000	.00034	.000	1
CAL2	20.000		19.220		-.780	-3.90	.01543	.000	1
CAL3	500.00		500.65		.654	.131	.39318	.001	1
CAL4	2500.0		2495.1		-4.94	-.198	1.9581	.004	1
CAL5	5000.0		5005.1		5.07	.101	3.9276	.002	1



Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

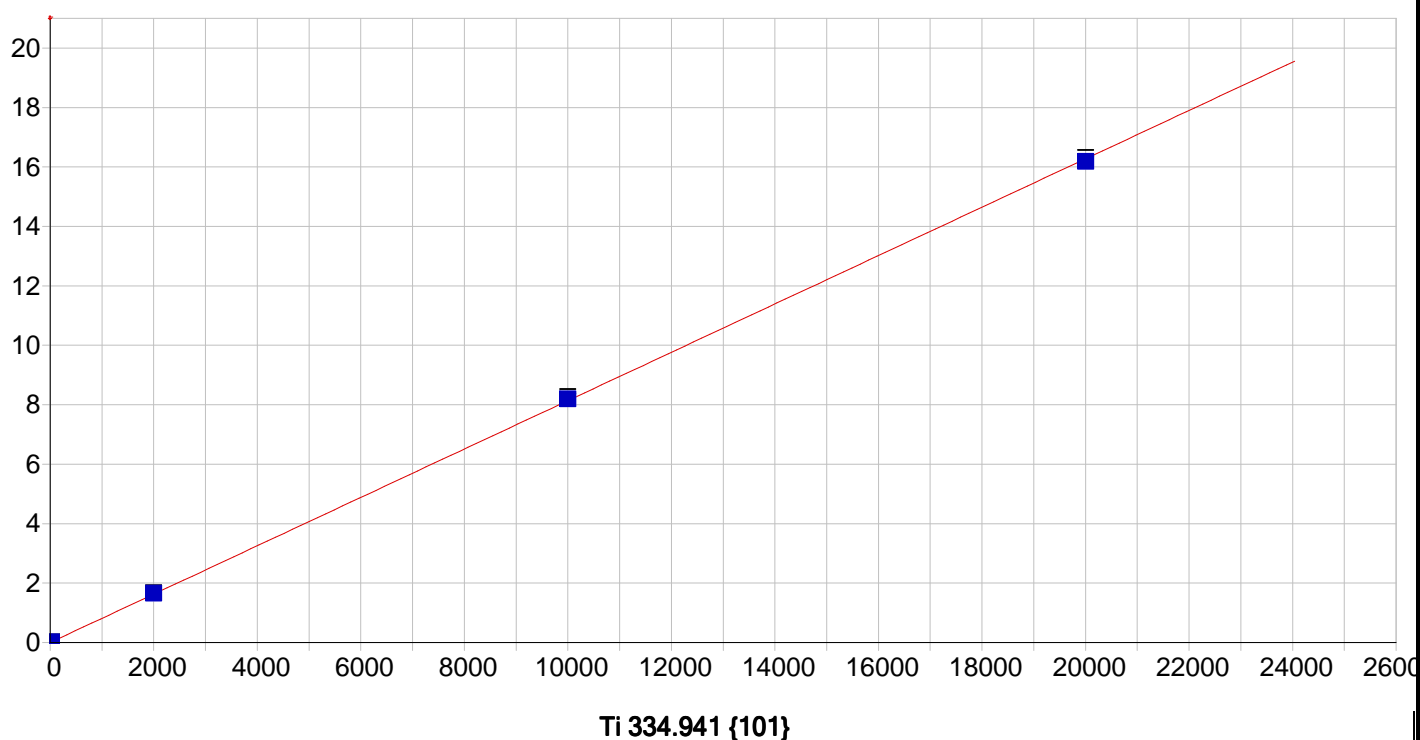
A0 (Offset): 0.000430 Re-Slope: 1.000000
A1 (Gain): 0.000161 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999993 Status: OK.
Std Error of Est: 0.000010
Predicted MDL: 0.920381
Predicted MQL: 3.067938

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00073		-.001	.000	.00043	.000	1
CAL2	50.000		50.082		.082	.164	.00851	.000	1
CAL3	200.00		202.73		2.73	1.37	.03320	.000	1
CAL4	1000.0		1001.2		1.22	.122	.16225	.000	1
CAL5	2000.0		1996.0		-4.04	-.202	.32302	.001	1



Predicted MDL: 0.104551
 Predicted MQL: 0.348503

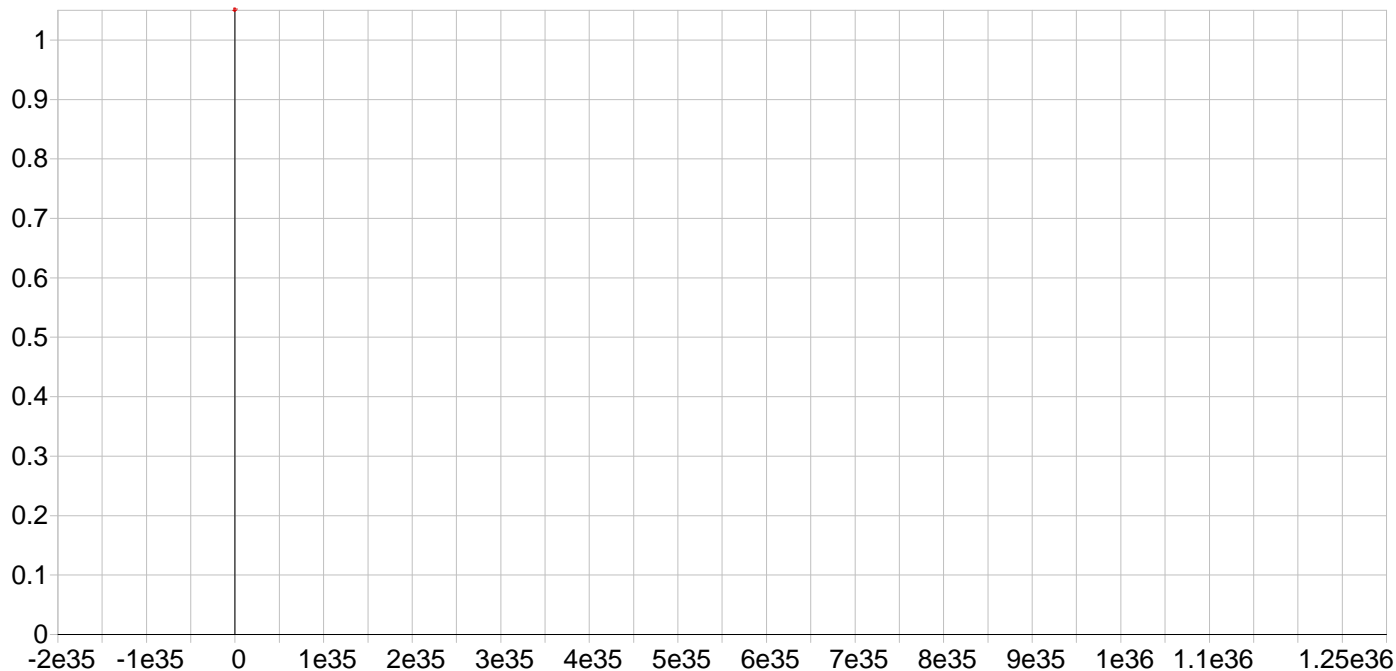
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00064		-.001	.000	-.00309	.001	1
CAL2	20.000		20.410		.410	2.05	.16300	.001	1
CAL3	1000.0		1006.6		6.58	.658	8.1804	.009	1
CAL4	5000.0		5055.0		55.0	1.10	41.094	.061	1
CAL5	10000.		9938.1		-61.9	-.619	80.794	.575	1



Date of Fit: 4/13/2016 11:58:27 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000601 Re-Slope: 1.000000
 A1 (Gain): 0.000814 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999973 Status: OK.
 Std Error of Est: 0.000194
 Predicted MDL: 0.183985
 Predicted MQL: 0.613283

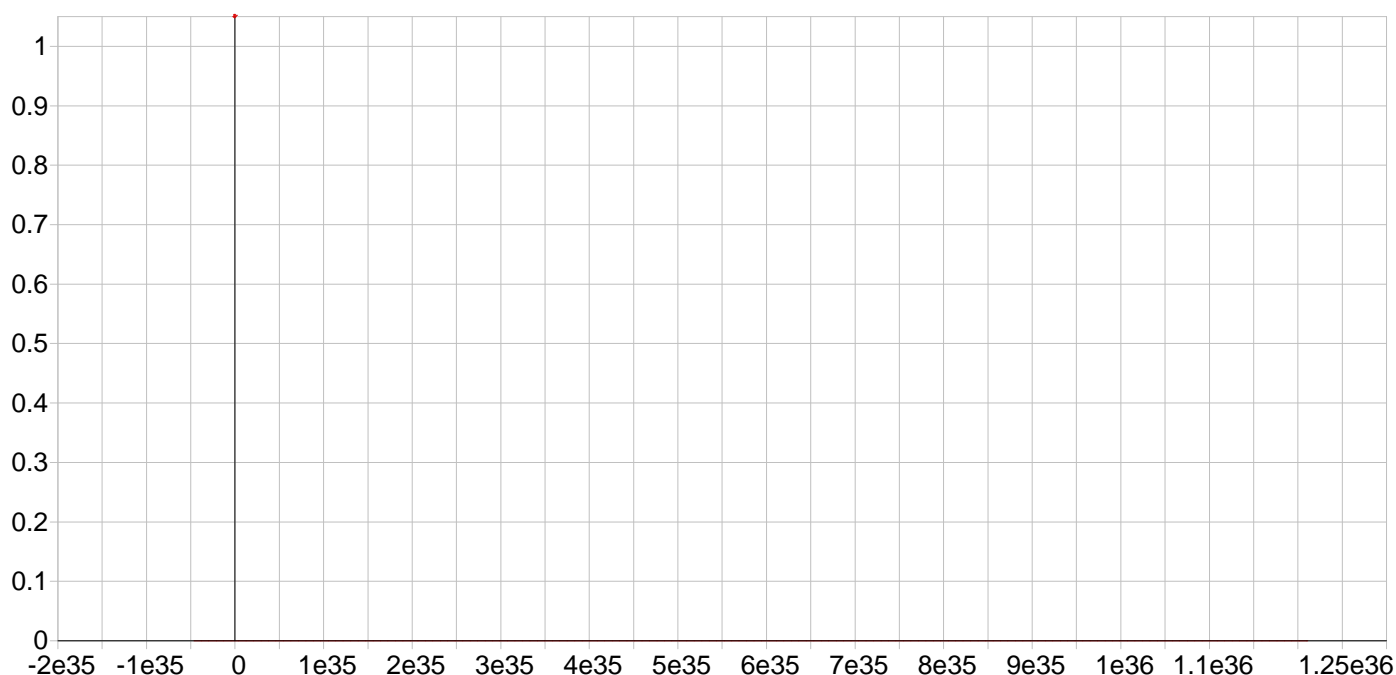
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00099		-.001	.000	.00060	.000	1
CAL2	20.000		20.587		.587	2.93	.01736	.000	1
CAL3	2000.0		2036.8		36.8	1.84	1.6579	.002	1
CAL4	10000.		10068.		67.8	.678	8.1927	.073	1
CAL5	20000.		19895.		-105.	-.526	16.189	.114	1



Y 224.306 {450}*

Date of Fit:	4/13/2016 11:33:46	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	183.492520				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

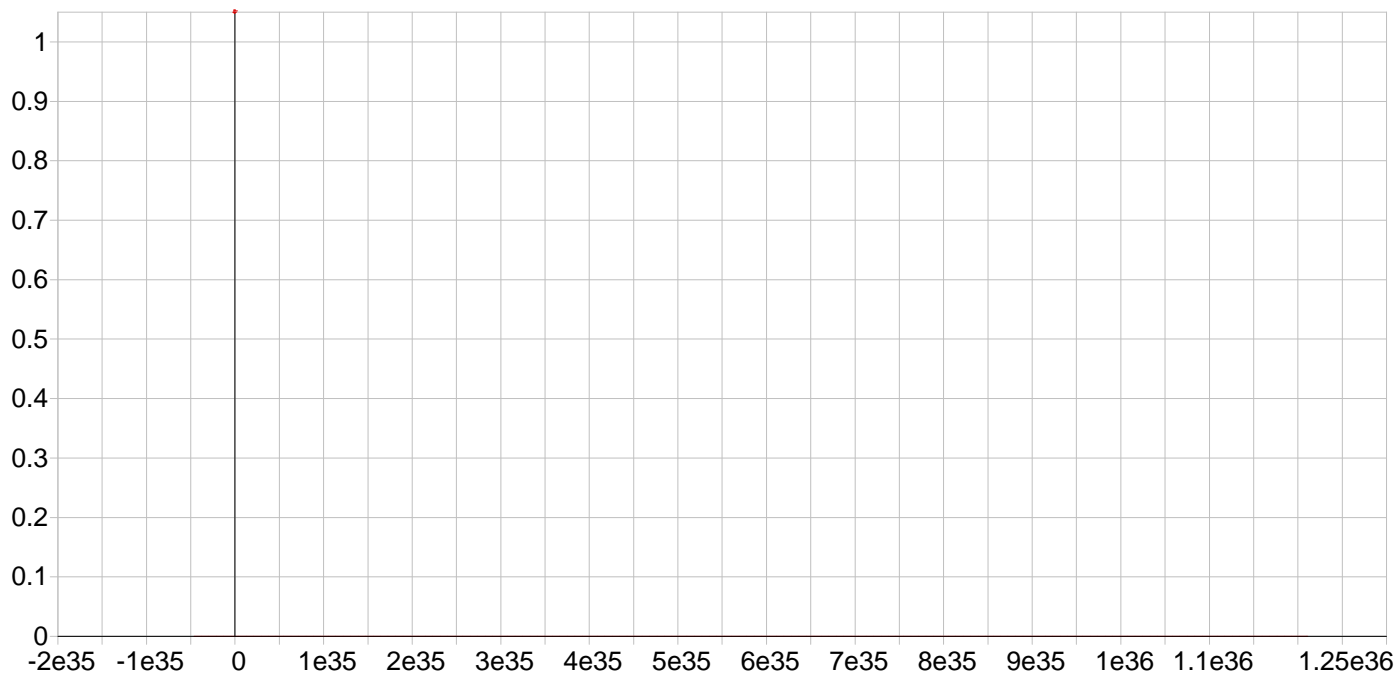
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 360.073 { 94}*

Date of Fit:	4/13/2016 11:33:46	Type of Fit:	Linear	Weighting:	1/Conc
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A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000



Y 371.030 { 91}*

Date of Fit: 4/13/2016 11:33:46

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.000000

Re-Slope: 1.000000

A1 (Gain): 0.000000

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.000000

Status:

Warning

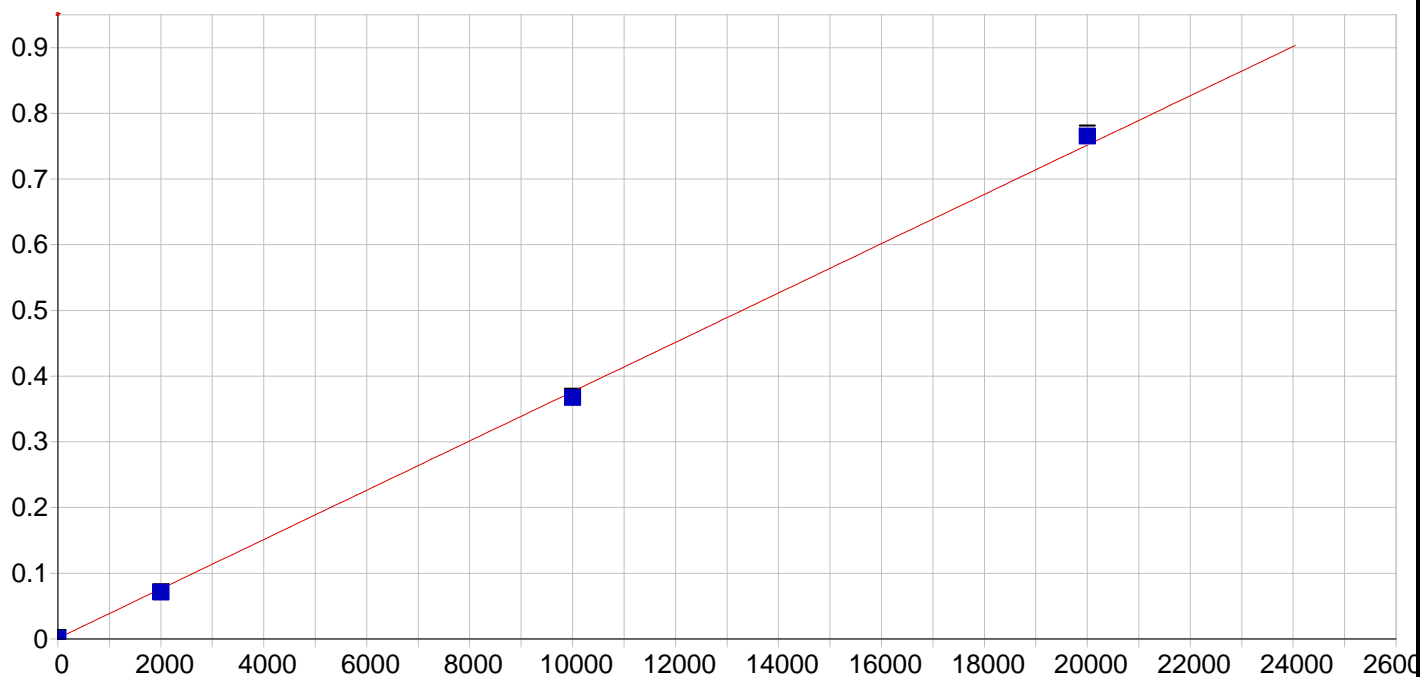
Zero Gain

Std Error of Est: 192.759705

Predicted MDL: n/a

Predicted MQL: n/a

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Si 288.158 {117}

Date of Fit: 4/13/2016 11:58:27

Type of Fit: Linear

Weighting: 1/Conc

04/15/2016

A0 (Offset): 0.001190

Re-Slope: 1.000000

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.14158		.142	.000	.00120	.001	1
CAL5	20000.		20368.		368.	1.84	.76433	.004	1
CAL3	2000.0		1869.0		-131.	-6.55	.07121	.001	1
CAL4	10000.		9763.3		-237.	-2.37	.36698	.002	1

Sample Name: ICIS Cal Blk Acquired: 4/13/2016 11:34:57 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0002	-.0004	-.0002	.0003	.0011
Stddev	.0004	.0001	.0001	.0004	.0003	.0001
%RSD	374.3	53.50	25.19	195.9	81.15	7.085

#1	.0002	-.0001	-.0003	-.0004	.0006	.0010
#2	-.0003	-.0003	-.0005	-.0004	.0004	.0011
#3	.0004	-.0002	-.0004	.0002	.0001	.0010

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0007	.0000	.0037	.0002	.0024
Stddev	.0003	.0002	.0000	.0001	.0000	.0023
%RSD	530.2	32.27	1356.	3.019	15.10	93.93

#1	.0004	-.0008	-.0000	.0036	.0002	.0021
#2	-.0001	-.0004	.0000	.0038	.0002	.0003
#3	-.0002	-.0008	.0000	.0037	.0002	.0048

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0002	.0028	.0006	.0006	.0001
Stddev	.0000	.0000	.0015	.0001	.0001	.0002
%RSD	118.5	11.92	54.01	21.78	18.41	129.2

#1	.0001	.0002	.0011	.0004	.0007	.0001
#2	-.0000	.0003	.0040	.0007	.0005	-.0000
#3	.0000	.0003	.0032	.0006	.0005	.0003

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-.0011	-.0000	-.0001	.0021	.0003
Stddev	.0002	.0002	.0001	.0001	.0003	.0001
%RSD	32.68	15.03	468.6	109.8	15.71	34.69

#1	.0007	-.0012	-.0000	-.0002	.0022	.0005
#2	.0004	-.0010	.0001	-.0001	.0023	.0003
#3	.0005	-.0009	-.0001	.0000	.0017	.0002

Sample Name: ICIS Cal Blk Acquired: 4/13/2016 11:34:57 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	-.0031	.0006	.0012
Stddev	.0001	.0006	.0001	.0006
%RSD	12.41	19.41	9.616	52.56

#1	.0004	-.0030	.0006	.0017
#2	.0005	-.0037	.0005	.0005
#3	.0004	-.0026	.0007	.0014

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3226.5	40291.	5786.7
Stddev	6.5	126.	46.0
%RSD	.20163	.31385	.79530

#1	3222.9	40187.	5769.4
#2	3222.7	40254.	5751.9
#3	3234.0	40431.	5838.9

Sample Name: CAL1 Acquired: 4/13/2016 11:38:58 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0017	.0017	.0006	.0001
Stddev	.0000	.0001	.0000	.0000	.0001
%RSD	47.10	7.752	2.477	4.257	169.1

#1	.0000	.0015	.0017	.0006	.0002
#2	.0000	.0018	.0017	.0007	-.0001
#3	.0001	.0017	.0016	.0006	.0001

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	3236.3
Stddev	17.8
%RSD	.55149

#1	3254.4
#2	3218.7
#3	3235.8

Sample Name: CAL2 Acquired: 4/13/2016 11:43:02 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0076	.0007	.0018	.4104	.0084	.0960
Stddev	.0004	.0000	.0001	.0016	.0003	.0003
%RSD	5.181	6.317	3.858	.3956	3.322	.2741

#1	.0072	.0007	.0017	.4101	.0086	.0963
#2	.0080	.0008	.0018	.4122	.0081	.0958
#3	.0076	.0008	.0018	.4090	.0086	.0961

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0108	.0540	.0013	.0127	.0013	.3146
Stddev	.0000	.0001	.0001	.0001	.0000	.0032
%RSD	.1814	.1079	6.178	.5125	3.925	1.005

#1	.0108	.0539	.0014	.0127	.0012	.3122
#2	.0108	.0540	.0013	.0127	.0012	.3133
#3	.0108	.0540	.0013	.0126	.0013	.3182

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0719	.0147	1.056	.0286	.0025	.0029
Stddev	.0003	.0001	.002	.0003	.0005	.0001
%RSD	.4765	.3407	.1495	1.201	21.45	3.021

#1	.0720	.0146	1.058	.0284	.0019	.0030
#2	.0715	.0147	1.055	.0290	.0027	.0028
#3	.0721	.0147	1.056	.0284	.0029	.0028

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0015	.0013	.0103	.0259	.0222	.0154
Stddev	.0001	.0000	.0001	.0001	.0004	.0001
%RSD	7.055	2.786	.9240	.2654	1.721	.7935

#1	.0016	.0013	.0103	.0259	.0226	.0156
#2	.0015	.0013	.0102	.0259	.0220	.0153
#3	.0014	.0013	.0104	.0258	.0219	.0154

Sample Name: CAL2 Acquired: 4/13/2016 11:43:02 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0085	.1630	.0174
Stddev	.0001	.0008	.0001
%RSD	.6483	.4733	.3959

#1	.0085	.1630	.0174
#2	.0086	.1638	.0173
#3	.0085	.1622	.0173

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3223.3	40005.	5714.7
Stddev	10.2	133.	11.8
%RSD	.31786	.33287	.20612

#1	3214.2	39876.	5714.9
#2	3221.3	40142.	5726.4
#3	3234.4	39998.	5702.8

Sample Name: icb Acquired: 4/13/2016 12:02:19 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.608	-2.565	.3302	.1881	-.0417	5.001
Stddev	9.381	1.150	.4505	.0670	.0218	.904
%RSD	123.3	44.84	136.5	35.62	52.36	18.08
#1	.0364	-3.135	.7209	.1852	-.0167	4.776
#2	-18.08	-3.319	-.1626	.1227	-.0516	4.230
#3	-4.785	-1.241	.4322	.2566	-.0568	5.996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1636	.0621	-.3676	.7185	-2.229	17.39
Stddev	.0494	.1381	.8383	.1769	10.95	21.76
%RSD	30.17	222.1	228.0	24.62	491.0	125.1
#1	-.2011	.2197	-1.176	.6345	-3.866	38.55
#2	-.1820	.0042	-.4240	.9217	-12.27	-4.932
#3	-.1077	-.0375	.4974	.5993	9.444	18.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.736	.0680	14.62	.1697	-.0690	1.308
Stddev	4.974	.0084	4.01	.0879	1.445	1.188
%RSD	133.1	12.37	27.46	51.78	2095.	90.87
#1	8.620	.0588	14.59	.2117	-.8671	.2823
#2	3.910	.0700	18.65	.0687	1.599	1.031
#3	-1.323	.0752	10.62	.2286	-.9393	2.610

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 4/13/2016 12:02:19 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2037	.0748	.2198	.0178	2.147	1.191
Stddev	1.440	.7597	.3560	.1722	1.065	.662
%RSD	706.9	1016.	162.0	968.3	49.61	55.61
#1	-1.135	.9094	.5114	-.1010	3.030	1.921
#2	-.9319	-.5766	.3249	-.0609	2.446	1.023
#3	1.455	-.1084	-.1770	.2153	.9643	.6290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4198	.0821	.6823	19.66
Stddev	.5098	.0655	.2728	19.41
%RSD	121.4	79.77	39.98	98.70
#1	-.2863	.1577	.8736	-.0400
#2	.0098	.0470	.3699	20.27
#3	-.9831	.0417	.8033	38.76

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3193.9	39860.	5634.4
Stddev	10.2	88.	66.6
%RSD	.31818	.22166	1.1822
#1	3205.5	39883.	5710.0
#2	3186.7	39763.	5609.1
#3	3189.6	39935.	5584.2

Sample Name: CAL3 Acquired: 4/13/2016 11:47:01 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9091	.0328	.0522	4.048	.8215	.4673
Stddev	.0030	.0002	.0003	.004	.0047	.0017
%RSD	.3283	.6017	.5376	.1019	.5752	.3720

#1	.9078	.0326	.0521	4.046	.8188	.4654
#2	.9070	.0330	.0526	4.045	.8187	.4675
#3	.9125	.0329	.0521	4.052	.8270	.4689

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7041	.5373	.1344	.8903	.1383	.6272
Stddev	.0017	.0007	.0004	.0002	.0005	.0041
%RSD	.2444	.1325	.2726	.0233	.3326	.6516

#1	.7041	.5378	.1340	.8901	.1378	.6242
#2	.7024	.5365	.1344	.8905	.1386	.6255
#3	.7058	.5377	.1347	.8903	.1385	.6318

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3587	.9409	5.286	.3437	.3062	.0299
Stddev	.0010	.0027	.005	.0012	.0007	.0002
%RSD	.2768	.2826	.0947	.3569	.2197	.5632

#1	.3577	.9382	5.287	.3447	.3068	.0300
#2	.3597	.9411	5.281	.3423	.3054	.0297
#3	.3589	.9435	5.291	.3440	.3063	.0301

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0292	.0585	.1021	.4256	.0879	.3932
Stddev	.0003	.0003	.0003	.0017	.0004	.0006
%RSD	1.103	.4343	.2644	.4071	.4476	.1636

#1	.0295	.0583	.1018	.4243	.0882	.3928
#2	.0288	.0588	.1020	.4249	.0875	.3928
#3	.0292	.0585	.1023	.4276	.0881	.3939

Sample Name: CAL3 Acquired: 4/13/2016 11:47:01 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0332	8.180	1.658	.0712
Stddev	.0001	.009	.002	.0006
%RSD	.1534	.1082	.1078	.7903

#1	.0332	8.179	1.656	.0715
#2	.0331	8.172	1.659	.0715
#3	.0332	8.190	1.658	.0706

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3205.5	39999.	5871.0
Stddev	17.9	307.	76.5
%RSD	.55755	.76711	1.3038

#1	3217.2	40352.	5918.8
#2	3214.4	39853.	5911.4
#3	3184.9	39793.	5782.7

Sample Name: CAL4 Acquired: 4/13/2016 11:50:49 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.536	.1698	.2649	20.02	4.040	2.323
Stddev	.007	.0004	.0005	.04	.006	.006
%RSD	.1463	.2552	.1813	.1861	.1564	.2693

#1	4.528	.1693	.2644	19.98	4.040	2.327
#2	4.540	.1700	.2653	20.06	4.046	2.326
#3	4.539	.1702	.2651	20.03	4.034	2.316

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.430	2.623	.6556	4.561	.6630	3.198
Stddev	.004	.006	.0011	.004	.0001	.012
%RSD	.1246	.2218	.1702	.0889	.0178	.3663

#1	3.425	2.616	.6565	4.558	.6629	3.189
#2	3.432	2.626	.6561	4.561	.6631	3.194
#3	3.433	2.627	.6544	4.566	.6629	3.211

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.815	4.589	26.81	1.664	1.487	.1517
Stddev	.002	.004	.05	.004	.003	.0001
%RSD	.0917	.0991	.1970	.2156	.2183	.0574

#1	1.814	4.592	26.78	1.660	1.483	.1516
#2	1.817	4.592	26.78	1.667	1.488	.1517
#3	1.815	4.584	26.87	1.665	1.489	.1516

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1458	.2858	.5053	2.060	.4417	1.958
Stddev	.0006	.0004	.0003	.003	.0017	.004
%RSD	.4380	.1231	.0576	.1461	.3914	.2253

#1	.1451	.2855	.5052	2.057	.4398	1.953
#2	.1459	.2857	.5056	2.061	.4421	1.960
#3	.1463	.2862	.5050	2.063	.4432	1.961

Sample Name: CAL4 Acquired: 4/13/2016 11:50:49 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1622	41.09	8.193	.3670
Stddev	.0005	.06	.073	.0019
%RSD	.3066	.1482	.8856	.5274

#1	.1617	41.03	8.228	.3650
#2	.1625	41.10	8.109	.3671
#3	.1625	41.15	8.241	.3689

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3036.7	38622.	5779.8
Stddev	8.1	59.	14.7
%RSD	.26616	.15325	.25510

#1	3046.0	38556.	5781.4
#2	3032.6	38642.	5764.4
#3	3031.4	38670.	5793.7

Sample Name: CAL5 Acquired: 4/13/2016 11:54:29 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.117	.3499	.5403	39.61	7.951	4.646
Stddev	.037	.0008	.0010	.07	.028	.014
%RSD	.4090	.2162	.1928	.1781	.3465	.2948

#1	9.147	.3491	.5391	39.55	7.972	4.630
#2	9.128	.3501	.5411	39.59	7.960	4.653
#3	9.075	.3506	.5408	39.68	7.920	4.654

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.803	5.204	1.294	9.220	1.304	6.541
Stddev	.006	.007	.003	.011	.002	.008
%RSD	.0857	.1259	.2412	.1164	.1403	.1219

#1	6.806	5.209	1.292	9.209	1.305	6.550
#2	6.807	5.205	1.294	9.222	1.302	6.536
#3	6.797	5.197	1.298	9.230	1.305	6.537

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.654	8.941	54.64	3.287	2.929	.3112
Stddev	.011	.033	.37	.004	.011	.0009
%RSD	.3080	.3700	.6828	.1269	.3593	.3036

#1	3.642	8.941	54.68	3.283	2.940	.3122
#2	3.664	8.908	54.99	3.288	2.929	.3113
#3	3.656	8.975	54.24	3.291	2.919	.3103

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2967	.5543	1.005	4.046	.8926	3.928
Stddev	.0013	.0018	.002	.014	.0019	.002
%RSD	.4285	.3215	.1545	.3412	.2119	.0439

#1	.2968	.5548	1.003	4.056	.8924	3.928
#2	.2979	.5558	1.005	4.051	.8945	3.929
#3	.2953	.5523	1.006	4.030	.8908	3.926

Sample Name: CAL5 Acquired: 4/13/2016 11:54:29 Type: Cal
Method: sw04052016(v6) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3230	80.79	16.19	.7643
Stddev	.0006	.57	.11	.0042
%RSD	.1757	.7111	.7072	.5530

#1	.3232	81.14	16.27	.7679
#2	.3235	81.11	16.24	.7597
#3	.3224	80.13	16.06	.7654

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2886.3	37353.	5738.6
Stddev	1.4	99.	12.0
%RSD	.04823	.26399	.20904

#1	2886.5	37460.	5743.6
#2	2884.8	37265.	5724.9
#3	2887.6	37335.	5747.3

Sample Name: LCS 460-361769/2-A Acquired: 4/13/2016 12:38:29 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1966.	1891.	48.20	2005.	49.79	20020.
Stddev	9.	10.	.24	6.	.13	124.
%RSD	.4786	.5514	.4914	.3212	.2647	.6179
#1	1975.	1879.	47.93	1998.	49.89	20160.
#2	1967.	1896.	48.29	2011.	49.85	19970.
#3	1956.	1898.	48.37	2007.	49.64	19930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.50	507.6	207.7	242.2	1017.	17920.
Stddev	.18	.5	.7	.7	14.	107.
%RSD	.3553	.1060	.3219	.2845	1.373	.5994
#1	50.44	507.1	208.0	241.6	1026.	18040.
#2	50.70	508.2	206.9	242.1	1024.	17860.
#3	50.35	507.6	208.2	242.9	1001.	17850.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19150.	518.3	18970.	520.0	507.2	469.8
Stddev	134.	2.2	121.	2.4	.5	1.5
%RSD	.7001	.4286	.6385	.4604	.1084	.3233
#1	19270.	520.8	19100.	517.5	507.8	468.0
#2	19170.	517.3	18880.	522.3	507.0	470.6
#3	19000.	516.7	18910.	520.3	506.7	470.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-361769/2-A Acquired: 4/13/2016 12:38:29 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1894.	2107.	509.0	516.6	497.9	492.7
Stddev	7.	12.	.4	.9	2.6	1.6
%RSD	.3440	.5779	.0710	.1713	.5139	.3296
#1	1891.	2096.	509.3	517.4	495.0	490.8
#2	1891.	2105.	509.0	516.6	498.9	493.9
#3	1902.	2120.	508.6	515.7	499.9	493.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	504.5	493.2	503.2	105.0
Stddev	1.8	2.1	.8	4.8
%RSD	.3480	.4266	.1537	4.526
#1	502.5	495.4	504.1	103.5
#2	505.0	491.3	502.7	110.4
#3	505.9	492.9	502.8	101.3

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3072.0	38452.	5605.4
Stddev	8.7	355.	102.1
%RSD	.28469	.92340	1.8211
#1	3063.2	38057.	5493.3
#2	3072.3	38554.	5630.1
#3	3080.7	38744.	5692.9

Sample Name: icv 4237635 Acquired: 4/13/2016 11:58:35 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124000.	2471.	1246.	10090.	1003.	126000.
Stddev	759.	13.	6.	28.	4.	91.
%RSD	.6124	.5119	.5153	.2765	.3782	.0725

#1	123200.	2486.	1239.	10120.	998.7	126100.
#2	124100.	2466.	1246.	10060.	1004.	125900.
#3	124700.	2462.	1252.	10080.	1006.	126100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1257.	2518.	5039.	12480.	101100.	49550.
Stddev	4.	2.	15.	31.	411.	326.
%RSD	.2890	.0606	.2930	.2484	.4060	.6575

#1	1261.	2519.	5054.	12450.	100800.	49240.
#2	1254.	2518.	5038.	12510.	100900.	49530.
#3	1256.	2516.	5025.	12480.	101600.	49890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125800.	5105.	123300.	2518.	7587.	987.3
Stddev	733.	8.	1036.	9.	12.	1.9
%RSD	.5824	.1552	.8400	.3517	.1641	.1953

#1	125300.	5100.	122500.	2528.	7584.	987.3
#2	125500.	5101.	123000.	2512.	7577.	985.3
#3	126600.	5114.	124500.	2514.	7601.	989.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 4237635 Acquired: 4/13/2016 11:58:35 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2487.	2546.	2515.	2535.	995.7	2502.
Stddev	5.	18.	3.	5.	3.2	9.
%RSD	.1971	.7040	.0999	.2000	.3260	.3582
#1	2485.	2567.	2512.	2538.	999.5	2512.
#2	2483.	2534.	2515.	2529.	994.1	2496.
#3	2492.	2537.	2517.	2538.	993.6	2497.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1006.	5054.	10090.	9813.
Stddev	5.	18.	101.	60.
%RSD	.5247	.3637	.9983	.6085
#1	1012.	5035.	10110.	9817.
#2	1002.	5055.	9986.	9752.
#3	1003.	5071.	10190.	9871.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3040.2	38528.	5837.9
Stddev	8.7	157.	28.2
%RSD	.28545	.40723	.48293
#1	3033.0	38430.	5869.7
#2	3049.8	38709.	5828.3
#3	3037.8	38444.	5815.8

Sample Name: CCV Acquired: 4/13/2016 12:50:15 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126600.	2565.	1269.	10430.	1028.	129000.
Stddev	241.	18.	1.	30.	.	36.
%RSD	.1900	.6978	.0916	.2834	.0464	.0281

#1	126300.	2584.	1269.	10440.	1028.	129100.
#2	126800.	2549.	1271.	10390.	1028.	129000.
#3	126600.	2561.	1268.	10440.	1028.	129000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1297.	2586.	5208.	12860.	103000.	50650.
Stddev	5.	5.	14.	46.	90.	66.
%RSD	.3771	.1826	.2762	.3561	.0873	.1312

#1	1301.	2590.	5200.	12900.	103000.	50570.
#2	1291.	2581.	5199.	12870.	102900.	50700.
#3	1298.	2588.	5225.	12810.	103100.	50670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127400.	5223.	125300.	2610.	7736.	1017.
Stddev	354.	4.	341.	9.	27.	6.
%RSD	.2776	.0796	.2719	.3517	.3495	.5814

#1	127600.	5225.	125000.	2618.	7757.	1024.
#2	127600.	5226.	125700.	2600.	7706.	1016.
#3	126900.	5219.	125200.	2613.	7746.	1012.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 12:50:15 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2543.	2634.	2583.	2590.	1038.	2585.
Stddev	12.	9.	2.	13.	6.	5.
%RSD	.4727	.3536	.0845	.4880	.5487	.2042

#1	2557.	2644.	2585.	2592.	1044.	2586.
#2	2535.	2632.	2584.	2576.	1034.	2580.
#3	2538.	2625.	2581.	2601.	1035.	2591.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1039.	5178.	10340.	10080.
Stddev	5.	8.	38.	120.
%RSD	.5269	.1599	.3682	1.195

#1	1044.	5187.	10370.	10210.
#2	1033.	5176.	10360.	9973.
#3	1040.	5170.	10300.	10050.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2946.9	37677.	5717.5
Stddev	12.2	63.	32.2
%RSD	.41496	.16724	.56375

#1	2942.2	37711.	5754.3
#2	2960.8	37716.	5704.0
#3	2937.7	37604.	5694.3

Sample Name: icvl 4079378 Acquired: 4/13/2016 12:06:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.6	13.32	9.796	206.8	2.004	5079.
Stddev	21.1	1.15	.414	.4	.093	21.
%RSD	9.741	8.617	4.231	.1863	4.621	.4059

#1	241.0	14.43	10.10	207.1	2.108	5069.
#2	203.8	12.14	9.325	206.4	1.973	5066.
#3	205.1	13.37	9.959	206.9	1.930	5103.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.038	52.80	9.977	24.47	158.9	4888.
Stddev	.132	.32	.122	.38	5.6	19.
%RSD	3.269	.6039	1.219	1.553	3.554	.3937

#1	4.059	53.11	10.10	24.59	164.7	4866.
#2	3.896	52.83	9.861	24.78	153.5	4897.
#3	4.157	52.48	9.966	24.05	158.5	4902.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4955.	16.03	4969.	42.80	10.73	19.78
Stddev	30.	.04	10.	.22	2.44	.62
%RSD	.6000	.2590	.1988	.5037	22.73	3.135

#1	4954.	16.08	4959.	42.77	10.90	19.11
#2	4925.	16.01	4978.	42.59	8.208	20.34
#3	4984.	16.01	4969.	43.02	13.08	19.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 4079378 Acquired: 4/13/2016 12:06:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.28	21.88	50.54	31.68	50.25	19.76
Stddev	2.67	.77	.44	.09	.34	.35
%RSD	13.18	3.537	.8779	.2903	.6758	1.767
#1	19.47	22.41	50.80	31.61	50.21	19.58
#2	18.11	22.23	50.79	31.64	50.60	20.16
#3	23.26	20.99	50.03	31.78	49.93	19.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	50.05	20.84	20.80	F 23.22
Stddev	.22	.08	.07	9.83
%RSD	.4489	.3852	.3231	42.33
#1	50.06	20.75	20.88	22.17
#2	50.27	20.90	20.75	33.53
#3	49.82	20.86	20.78	13.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3234.3	40558.	5839.9
Stddev	7.6	98.	32.4
%RSD	.23426	.24109	.55562
#1	3231.4	40526.	5839.3
#2	3242.9	40480.	5807.8
#3	3228.6	40668.	5872.7

Sample Name: 460-111807-E-2-A@2 Acquired: 4/13/2016 13:17:59 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	222.9	2.411	.5818	87.43	.0364	69080.
Stddev	6.6	.454	.5842	.47	.0833	269.
%RSD	2.972	18.81	100.4	.5319	229.1	.3890

#1	230.3	2.890	-.0430	87.55	.1071	69210.
#2	220.8	1.988	1.114	87.83	.0574	69250.
#3	217.5	2.355	.6741	86.92	-.0554	68770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.151	1.185	6.373	-.8013	88750.	11910.
Stddev	.145	.251	.425	.1329	250.	106.
%RSD	12.62	21.19	6.675	16.59	.2822	.8890

#1	-1.147	1.371	6.172	-.9043	88860.	11950.
#2	-1.298	.8996	6.862	-.8484	88920.	11980.
#3	-1.008	1.285	6.085	-.6512	88460.	11790.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87090.	5175.	F 361600.	4.724	-3.632	-1.257
Stddev	528.	27.	4197.	.378	2.157	.906
%RSD	.6063	.5130	1.161	7.994	59.41	72.11

#1	87310.	5189.	361100.	4.416	-2.015	-.3997
#2	87480.	5192.	366100.	5.145	-2.799	-1.165
#3	86490.	5145.	357700.	4.611	-6.081	-2.205

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111807-E-2-A@2 Acquired: 4/13/2016 13:17:59 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.991	-.2863	-1.460	35.98	174.7	1.654
Stddev	4.584	.4971	.148	.32	2.1	.154
%RSD	76.53	173.7	10.12	.8896	1.221	9.328
#1	8.535	.2434	-1.390	35.92	176.4	1.786
#2	.6984	-.7428	-1.361	36.33	175.3	1.692
#3	8.738	-.3594	-1.630	35.70	172.3	1.484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1533	690.4	8.911	13590.
Stddev	.4356	5.0	.255	171.
%RSD	284.1	.7245	2.857	1.259
#1	-.3281	692.1	8.977	13680.
#2	.5203	694.3	9.127	13700.
#3	.2678	684.7	8.630	13400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3038.8	38123.	5807.5
Stddev	2.5	116.	40.6
%RSD	.08188	.30511	.69972
#1	3039.0	37991.	5854.4
#2	3036.2	38210.	5783.3
#3	3041.2	38168.	5784.8

Sample Name: icsa 4305090 Acquired: 4/13/2016 12:10:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495000.	.8930	.2655	-.8622	-.0730	491800.
Stddev	1621.	4.675	.6843	.3930	.0901	2957.
%RSD	.3275	523.5	257.7	45.57	123.4	.6013

#1	495200.	5.669	-.5031	-.4383	-.1379	488500.
#2	493300.	-3.674	.4914	-.9340	.0298	492800.
#3	496600.	.6838	.8083	-1.214	-.1110	494100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1022	-3.566	-1.101	-3.690	193100.	-39.17
Stddev	.2557	.098	.517	.189	824.	17.04
%RSD	250.1	2.746	46.97	5.121	.4267	43.50

#1	-.0739	-3.477	-1.576	-3.804	192600.	-30.70
#2	.3956	-3.671	-1.177	-3.472	192700.	-28.02
#3	-.0150	-3.548	-.5502	-3.794	194100.	-58.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498600.	3.321	-24.23	-.3689	3.417	4.360
Stddev	5587.	.045	11.33	.4861	1.984	2.684
%RSD	1.120	1.356	46.76	131.8	58.06	61.55

#1	493400.	3.270	-36.81	-.6269	1.316	7.454
#2	497800.	3.354	-14.83	-.6716	3.676	2.660
#3	504500.	3.339	-21.05	.1917	5.259	2.966

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 4305090 Acquired: 4/13/2016 12:10:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3028	.7976	-22.12	-2.818	-7.417	-.9551
Stddev	3.852	.2604	.51	.695	.602	.4773
%RSD	1272.	32.65	2.320	24.68	8.117	49.98
#1	-0.8768	.5110	-22.70	-3.504	-7.231	-0.4086
#2	4.606	1.020	-21.95	-2.836	-8.090	-1.291
#3	-2.821	.8617	-21.72	-2.113	-6.929	-1.166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.707	-1.648	-1.249	5.092
Stddev	.786	.174	.174	16.22
%RSD	21.21	10.55	13.89	318.5
#1	3.092	-1.483	-1.122	-10.78
#2	3.436	-1.829	-1.447	21.64
#3	4.593	-1.632	-1.179	4.416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2905.6	36489.	5652.0
Stddev	18.2	293.	41.6
%RSD	.62680	.80250	.73622
#1	2926.0	36781.	5689.6
#2	2900.0	36493.	5659.2
#3	2890.9	36195.	5607.3

Sample Name: 460-111807-E-6-A Acquired: 4/13/2016 13:30:31 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.301	-1.870	.0614	.0860	.0009	1.064
Stddev	9.484	2.190	.2939	.0419	.0500	3.300
%RSD	729.0	117.1	478.8	48.78	5421.	310.0
#1	-7.812	-4.311	-.0869	.1319	-.0396	1.990
#2	.5993	-1.218	.3998	.0496	-.0144	3.803
#3	11.12	-.0794	-.1288	.0766	.0568	-2.600

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0935	-.0682	-.2919	-.0422	-.7428	-3.557
Stddev	.2395	.2781	.4641	.2444	9.227	25.48
%RSD	256.2	407.7	159.0	579.3	1242.	716.5
#1	-.3426	-.1901	-.7833	-.2396	-10.18	-25.42
#2	-.0730	.2500	.1389	.2312	8.262	24.43
#3	.1352	-.2646	-.2313	-.1182	-.3138	-9.679

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.062	.2198	106.6	.0849	.1157	1.008
Stddev	3.641	.0786	57.9	.0982	.4292	.139
%RSD	89.62	35.77	54.31	115.7	371.1	13.75
#1	5.245	.2675	173.4	.1230	.3754	1.097
#2	-.0227	.2629	72.74	-.0266	.3513	1.078
#3	6.965	.1291	73.55	.1584	-.3797	.8480

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-111807-E-6-A Acquired: 4/13/2016 13:30:31 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.863	.2053	.0656	.5530	5.698	-.6063
Stddev	1.148	.3715	.3623	.3212	.436	.0701
%RSD	61.61	180.9	552.2	58.09	7.654	11.56
#1	-2.215	.3463	.0273	.9109	5.350	-.6143
#2	-2.795	-.2160	-.2760	.4585	5.557	-.5325
#3	-.5807	.4857	.4455	.2896	6.187	-.6720

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0745	.0691	-.1412	78.32
Stddev	.6135	.0892	.1154	11.55
%RSD	823.6	129.0	81.74	14.74
#1	-.7780	.1716	-.2197	91.62
#2	.2055	.0257	-.1952	70.85
#3	.3491	.0100	-.0087	72.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3189.3	40342.	5890.6
Stddev	4.4	214.	43.9
%RSD	.13784	.53133	.74594
#1	3186.0	40570.	5921.3
#2	3194.3	40311.	5910.2
#3	3187.5	40144.	5840.2

Sample Name: CCV Acquired: 4/13/2016 13:42:43 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123300.	2533.	1263.	10360.	1001.	128300.
Stddev	250.	3.	2.	8.	3.	373.
%RSD	.2029	.1316	.1741	.0752	.2556	.2910

#1	123200.	2533.	1261.	10360.	1000.	127900.
#2	123600.	2536.	1264.	10350.	1004.	128700.
#3	123100.	2529.	1264.	10360.	999.1	128400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1278.	2555.	5157.	12770.	100800.	50040.
Stddev	2.	2.	10.	12.	225.	77.
%RSD	.1681	.0922	.1845	.0949	.2230	.1540

#1	1280.	2555.	5150.	12770.	100600.	49980.
#2	1276.	2553.	5168.	12780.	101000.	50130.
#3	1277.	2558.	5153.	12760.	100700.	50010.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125500.	5185.	123300.	2586.	7621.	1004.
Stddev	276.	7.	124.	4.	14.	2.
%RSD	.2195	.1399	.1008	.1685	.1893	.2432

#1	125200.	5176.	123100.	2591.	7635.	1004.
#2	125700.	5189.	123300.	2583.	7606.	1007.
#3	125600.	5189.	123300.	2584.	7624.	1002.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 13:42:43 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2477.	2595.	2554.	2539.	1026.	2560.
Stddev	17.	5.	5.	7.	2.	.
%RSD	.6746	.1792	.1919	.2870	.1806	.0147

#1	2496.	2600.	2549.	2539.	1027.	2560.
#2	2465.	2595.	2558.	2531.	1026.	2561.
#3	2469.	2591.	2555.	2546.	1024.	2560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1029.	5096.	10210.	9936.
Stddev	5.	9.	13.	115.
%RSD	.4477	.1713	.1286	1.153

#1	1034.	5090.	10190.	10020.
#2	1026.	5106.	10220.	9805.
#3	1026.	5092.	10210.	9983.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2941.5	37679.	5766.8
Stddev	8.3	120.	45.6
%RSD	.28100	.31847	.79011

#1	2935.4	37762.	5780.9
#2	2950.9	37541.	5715.9
#3	2938.1	37733.	5803.7

Sample Name: icsab 4305092 Acquired: 4/13/2016 12:14:40 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	526400.	98.86	108.5	103.8	101.3	520100.
Stddev	2912.	3.76	1.5	.3	.6	3532.
%RSD	.5532	3.806	1.359	.2614	.5716	.6792

#1	529300.	98.09	107.0	103.5	101.9	519900.
#2	526400.	102.9	109.9	103.8	101.3	516700.
#3	523400.	95.54	108.6	104.0	100.8	523800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.65	96.77	101.7	106.2	203400.	10500.
Stddev	.24	.43	.6	.7	332.	36.
%RSD	.2448	.4402	.6162	.6814	.1629	.3453

#1	99.37	96.37	101.0	105.5	203200.	10490.
#2	99.77	97.22	101.8	106.1	203300.	10540.
#3	99.82	96.73	102.3	107.0	203800.	10470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	529000.	107.7	10620.	98.70	97.19	102.9
Stddev	2764.	.8	35.	.38	1.19	2.4
%RSD	.5226	.7179	.3258	.3890	1.226	2.360

#1	525900.	107.2	10650.	98.89	97.50	101.1
#2	531100.	107.3	10630.	98.26	95.87	101.9
#3	530100.	108.6	10580.	98.96	98.20	105.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 4305092 Acquired: 4/13/2016 12:14:40 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100.5	96.58	80.07	94.93	94.37	98.75
Stddev	12.8	.68	.51	.71	.29	.20
%RSD	12.77	.7023	.6390	.7519	.3091	.2004
#1	86.28	95.83	80.04	94.34	94.12	98.97
#2	111.2	96.76	79.58	94.73	94.69	98.63
#3	103.9	97.15	80.60	95.72	94.29	98.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	102.2	102.4	104.4	64.36
Stddev	1.5	.2	.4	8.54
%RSD	1.452	.1554	.4304	13.27
#1	100.7	102.6	103.9	55.85
#2	103.6	102.4	104.8	72.93
#3	102.2	102.3	104.6	64.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2892.9	36569.	5731.6
Stddev	13.0	215.	98.7
%RSD	.44998	.58692	1.7213
#1	2905.7	36659.	5617.7
#2	2893.5	36725.	5787.6
#3	2879.7	36324.	5789.6

Sample Name: int-10a 4140672 Acquired: 4/13/2016 12:18:43 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.782	-1.040	.6906	10.07	2.981	13.15
Stddev	15.21	2.080	.4125	.03	.159	17.31
%RSD	263.0	200.0	59.73	.2963	5.342	131.6
#1	-7.348	-3.107	.4793	10.10	3.040	-.9702
#2	-20.15	-1.066	1.166	10.04	2.800	7.963
#3	10.15	1.053	.4265	10.06	3.102	32.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.746	10230.	-.1182	-.5192	-143.7	-15.80
Stddev	.080	9.	.5027	.0913	17.4	41.13
%RSD	4.562	.0878	425.3	17.58	12.09	260.3
#1	-1.741	10240.	-.5407	-.5364	-161.4	18.40
#2	-1.828	10220.	-.2516	-.6007	-143.1	-61.43
#3	-1.669	10230.	.4378	-.4206	-126.7	-4.372

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.60	-.2802	3.168	3.899	-5.826	-21.79
Stddev	23.91	.0510	8.650	.409	1.477	1.39
%RSD	97.22	18.21	273.1	10.48	25.36	6.373
#1	3.287	-.3129	12.87	4.232	-7.354	-23.37
#2	20.05	-.2214	-3.730	4.023	-5.718	-21.22
#3	50.46	-.3064	.3613	3.443	-4.405	-20.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 4140672 Acquired: 4/13/2016 12:18:43 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.509	-12.44	F 9808.	-.1659	-7.081	-3.819
Stddev	1.820	1.41	13.	.1880	.523	.167
%RSD	120.6	11.32	.1281	113.3	7.393	4.378
#1	-.5014	-12.70	9811.	.0458	-7.367	-3.629
#2	3.046	-10.92	9818.	-.3132	-6.477	-3.883
#3	1.983	-13.71	9794.	-.2304	-7.400	-3.944

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			6000.			
Low Limit			4000.			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9796.	9661.	-.9448	8883.
Stddev	33.	75.	.0943	97.
%RSD	.3371	.7780	9.977	1.095
#1	9818.	9584.	-.9666	8993.
#2	9758.	9667.	-.8415	8808.
#3	9812.	9734.	-1.026	8848.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3164.3	39794.	5738.1
Stddev	11.8	298.	118.0
%RSD	.37217	.74824	2.0571
#1	3174.8	40135.	5870.4
#2	3166.6	39663.	5700.2
#3	3151.6	39584.	5643.6

Sample Name: int-10b 4140674 Acquired: 4/13/2016 12:22:51 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.53	19.23	-7.887	1.443	-7.718	17.18
Stddev	19.13	.99	.5549	.027	.0664	16.81
%RSD	57.05	5.174	70.35	1.868	8.600	97.83
#1	11.98	18.21	-1.325	1.474	-.7482	-2.217
#2	40.10	20.20	-.8251	1.424	-.7205	26.32
#3	48.50	19.27	-.2165	1.430	-.8468	27.44

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5298	.9051	9391.	8893.	-34.18	-22.41
Stddev	.0826	.2552	8.	8.	8.31	12.21
%RSD	15.59	28.20	.0841	.0955	24.31	54.50
#1	-.5900	.6298	9397.	8901.	-39.03	-8.555
#2	-.4357	1.134	9382.	8894.	-24.59	-31.61
#3	-.5639	.9517	9395.	8884.	-38.93	-27.06

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.250	9502.	10.66	9784.	-9.322	7.778
Stddev	11.03	12.	8.21	39.	2.772	1.439
%RSD	133.7	.1261	77.03	.3993	29.74	18.50
#1	-19.16	9515.	19.83	9826.	-6.338	7.342
#2	2.888	9491.	8.167	9777.	-11.82	9.384
#3	-8.474	9499.	3.985	9749.	-9.810	6.607

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: int-10b 4140674 Acquired: 4/13/2016 12:22:51 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.817	1.300	12.17	1.912	-45.85	4605.
Stddev	.432	1.125	.19	.191	.79	15.
%RSD	7.429	86.57	1.535	9.999	1.733	.3170
#1	-6.199	.4468	11.98	1.987	-45.65	4622.
#2	-5.348	.8777	12.35	1.695	-45.17	4595.
#3	-5.906	2.575	12.17	2.055	-46.72	4598.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7821	.3501	9128.	-23.92
Stddev	.7907	.1762	3.	4.65
%RSD	101.1	50.34	.0362	19.42
#1	.9600	.2238	9125.	-22.85
#2	1.469	.2751	9132.	-19.90
#3	-.0824	.5515	9127.	-29.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3102.7	39357.	5676.3
Stddev	4.0	120.	29.8
%RSD	.12834	.30444	.52506
#1	3098.7	39350.	5642.6
#2	3106.7	39480.	5698.9
#3	3102.8	39241.	5687.5

Sample Name: LCS 460-361685/2-A@2 Acquired: 4/13/2016 12:26:56 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2543.	2398.	249.9	5153.	509.6	10270.
Stddev	13.	6.	.4	7.	3.2	22.
%RSD	.5047	.2628	.1466	.1428	.6292	.2177

#1	2546.	2405.	249.4	5158.	505.9	10250.
#2	2554.	2396.	250.0	5157.	511.1	10270.
#3	2529.	2392.	250.1	5145.	511.7	10300.

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	535.1	547.1	2579.	508.9	506.4	9816.
Stddev	1.0	.7	6.	1.2	9.7	50.
%RSD	.1862	.1215	.2146	.2361	1.912	.5106

#1	535.1	547.8	2575.	507.9	505.3	9759.
#2	534.1	546.5	2576.	508.7	497.3	9852.
#3	536.1	547.1	2585.	510.2	516.6	9837.

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9960.	548.6	9900.	551.3	2634.	489.5
Stddev	39.	1.4	25.	.2	1.	.2
%RSD	.3935	.2580	.2484	.0308	.0192	.0442

#1	9923.	547.1	9892.	551.3	2634.	489.7
#2	9957.	548.7	9880.	551.1	2634.	489.4
#3	10000.	550.0	9928.	551.5	2634.	489.3

Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: LCS 460-361685/2-A@2 Acquired: 4/13/2016 12:26:56 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	503.4	551.6	262.0	549.5	505.1	518.2
Stddev	3.1	3.3	.6	1.7	.2	1.4
%RSD	.6216	.6040	.2400	.3135	.0376	.2684

#1	503.2	552.0	261.5	548.7	505.3	519.7
#2	500.4	548.1	261.6	548.4	505.0	518.0
#3	506.7	554.7	262.7	551.5	505.0	517.0

Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	501.0	514.7	518.7	48.04
Stddev	3.3	2.8	1.4	10.77
%RSD	.6658	.5507	.2727	22.42

#1	498.7	511.6	517.7	39.24
#2	499.4	515.2	518.0	60.06
#3	504.8	517.2	520.3	44.83

Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3147.8	39876.	5864.3
Stddev	7.1	147.	37.4
%RSD	.22407	.36826	.63715

#1	3142.2	39920.	5894.6
#2	3155.7	39995.	5875.7
#3	3145.6	39712.	5822.5

Sample Name: sample Acquired: 4/13/2016 12:30:40 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26610.	F 467.8	F 103.8	F 709.4	F 328.0	F 19470.
Stddev	126.	5.7	.3	2.0	.2	36.
%RSD	.4752	1.208	.2640	.2782	.0755	.1856

#1	26740.	463.6	104.1	707.4	328.2	19440.
#2	26490.	465.7	103.8	709.6	327.8	19460.
#3	26580.	474.2	103.5	711.3	328.2	19510.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		880.0	195.5	1225.	570.0	33800.
Low Limit		575.0	117.5	870.0	402.0	23050.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 305.5	F 564.8	F 512.0	F 578.2	58440.	F 7807.
Stddev	1.7	2.5	1.3	1.7	212.	16.
%RSD	.5641	.4374	.2583	.2869	.3624	.2019

#1	304.8	562.3	511.1	576.4	58620.	7819.
#2	304.2	565.0	511.3	579.6	58210.	7789.
#3	307.4	567.2	513.5	578.7	58490.	7812.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	515.0	890.0	855.0	1020.		15400.
Low Limit	362.0	645.0	570.0	705.0		8600.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 8694.	F 1119.	F 2783.	F 482.1	F 512.4	370.3
Stddev	31.	2.	12.	2.6	4.4	2.2
%RSD	.3561	.2066	.4145	.5457	.8678	.5949

#1	8669.	1116.	2796.	479.1	507.4	367.9
#2	8685.	1119.	2779.	483.3	513.9	370.7
#3	8729.	1121.	2774.	483.9	516.0	372.2

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	16300.	1835.	5500.	755.0	865.0	
Low Limit	10100.	1260.	3160.	535.0	595.0	

Sample Name: sample Acquired: 4/13/2016 12:30:40 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 590.3	F 516.5	406.2	F 687.8	F 453.2	F 424.0
Stddev	2.7	3.8	1.1	4.9	.9	2.2
%RSD	.4639	.7446	.2632	.7084	.1934	.5237

#1	591.4	514.9	406.0	683.9	452.8	421.5
#2	587.2	513.7	405.2	686.1	452.5	425.3
#3	592.4	520.9	407.3	693.2	454.2	425.4

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	1080.	855.0		1115.	800.0	705.0
Low Limit	700.0	560.0		795.0	459.0	457.5

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	594.3	F 349.5	1193.	2762.
Stddev	4.3	.8	2.	34.
%RSD	.7217	.2215	.1294	1.230

#1	591.0	348.9	1192.	2723.
#2	592.7	349.3	1193.	2789.
#3	599.2	350.4	1195.	2773.

Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		630.0		
Low Limit		423.0		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3245.5	40610.	5992.5
Stddev	16.6	438.	117.8
%RSD	.51201	1.0788	1.9656

#1	3226.4	40111.	5856.8
#2	3255.8	40932.	6051.6
#3	3254.4	40786.	6069.0

Sample Name: MB 460-361769/1-A Acquired: 4/13/2016 12:34:25 Type: QC

Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.625	-2.131	.3371	.0229	-.0580	-6.250
Stddev	24.35	.935	.1160	.1258	.1050	3.021
%RSD	282.3	43.86	34.40	549.9	181.1	48.33

#1	-36.29	-1.768	.4691	-.1220	.0051	-8.431
#2	.8794	-3.192	.2908	.0864	-.1792	-7.518
#3	9.539	-1.432	.2515	.1043	.0002	-2.802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1000	.0147	-.3162	-.1938	-.4195	-25.54
Stddev	.0944	.1385	.5842	.2166	11.61	15.00
%RSD	94.40	939.7	184.7	111.8	2768.	58.72

#1	-.2018	-.1387	-.1482	-.4410	-13.63	-13.72
#2	-.0826	.1306	.1655	-.0373	8.163	-42.41
#3	-.0155	.0523	-.9661	-.1029	4.210	-20.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.558	-.0279	-3.289	-.1300	-.8241	1.112
Stddev	4.225	.0625	5.496	.2931	.1573	1.615
%RSD	165.1	224.0	167.1	225.4	19.08	145.2

#1	-1.656	.0316	3.033	.0289	-.8427	1.842
#2	6.793	-.0223	-5.967	-.4683	-.6584	2.233
#3	2.538	-.0930	-6.932	.0493	-.9712	-.7390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-361769/1-A Acquired: 4/13/2016 12:34:25 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.200	-.3459	-.0452	.5971	-.0864	-.3434
Stddev	2.885	1.300	.2671	.1286	.0890	.2975
%RSD	131.1	375.7	591.0	21.54	103.0	86.63
#1	-1.828	-.7626	-.3412	.7168	-.0974	-.2461
#2	-5.254	-1.386	.1779	.6134	-.1694	-.6774
#3	.4804	1.111	.0277	.4612	.0076	-.1068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8704	.0223	-.0147	9.926
Stddev	.4904	.0920	.0859	9.113
%RSD	56.34	411.9	586.3	91.81
#1	.3095	-.0623	-.1111	15.53
#2	1.084	.0090	.0134	14.84
#3	1.218	.1202	.0537	-.5891

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3147.9	39463.	5718.7
Stddev	19.9	97.	53.9
%RSD	.63084	.24633	.94243
#1	3167.7	39553.	5753.9
#2	3148.0	39476.	5745.6
#3	3128.0	39359.	5656.7

Sample Name: 460-111807-A-4-A DU Acquired: 4/13/2016 12:42:10 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.45	-1.869	.0366	33.02	.0091	12640.
Stddev	3.38	.827	.4289	.12	.0785	82.
%RSD	13.29	44.25	1172.	.3689	861.2	.6500
#1	27.06	-.9740	.1474	32.93	-.0330	12560.
#2	21.56	-2.029	-.4368	32.97	.0996	12640.
#3	27.72	-2.605	.3993	33.16	-.0393	12720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3767	.1053	.4398	.3141	-4.350	2405.
Stddev	.0584	.1174	.3694	.2660	1.502	7.
%RSD	15.51	111.5	84.00	84.68	34.52	.3116
#1	.3125	.1630	.3744	.6141	-3.203	2398.
#2	.3907	.1825	.1074	.1073	-3.797	2402.
#3	.4268	-.0298	.8375	.2208	-6.049	2413.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4553.	37.31	16770.	1.560	-3.371	-.1372
Stddev	33.	.17	51.	.235	.661	.8168
%RSD	.7201	.4521	.3024	15.09	19.60	595.3
#1	4523.	37.14	16820.	1.770	-3.723	-1.075
#2	4548.	37.31	16740.	1.305	-3.780	.2476
#3	4588.	37.47	16730.	1.604	-2.608	.4161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-A-4-A DU Acquired: 4/13/2016 12:42:10 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3962	-.3820	-.0426	11.08	30.27	-.3090
Stddev	.9535	2.275	.0747	.19	.04	.1317
%RSD	240.7	595.7	175.2	1.758	.1438	42.61
#1	.0156	1.461	.0405	10.89	30.32	-.1608
#2	.2822	-2.925	-.0643	11.08	30.23	-.3537
#3	-1.486	.3179	-.1041	11.28	30.25	-.4126

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1171	69.50	.7811	5851.
Stddev	.9452	.45	.0863	42.
%RSD	807.0	.6542	11.04	.7150
#1	-.3609	69.99	.7706	5897.
#2	-.9166	69.09	.8722	5815.
#3	.9261	69.43	.7006	5842.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3136.3	39472.	5855.7
Stddev	7.4	193.	24.9
%RSD	.23706	.48779	.42467
#1	3144.3	39678.	5838.6
#2	3134.9	39296.	5884.2
#3	3129.7	39444.	5844.2

Sample Name: 460-111807-E-4-A Acquired: 4/13/2016 12:46:12 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.82	-4.370	.3686	32.75	-.0501	12590.
Stddev	8.15	1.728	.0298	.26	.0830	18.
%RSD	48.48	39.54	8.089	.8020	165.8	.1398
#1	21.75	-5.223	.3346	32.54	-.0900	12590.
#2	7.408	-5.506	.3810	32.66	.0454	12610.
#3	21.31	-2.381	.3902	33.04	-.1056	12580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3609	.0937	.4442	.1947	5.881	2381.
Stddev	.1044	.3077	.3333	.3614	11.71	24.
%RSD	28.92	328.6	75.04	185.6	199.2	1.016
#1	.2956	-.2486	.7209	.3232	-1.160	2355.
#2	.4813	.3476	.5374	-.2134	-.5995	2402.
#3	.3059	.1820	.0742	.4744	19.40	2385.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4537.	36.99	16620.	1.061	-2.842	.2643
Stddev	10.	.13	57.	.163	1.921	.2580
%RSD	.2225	.3556	.3400	15.35	67.61	97.62
#1	4526.	36.86	16680.	1.244	-4.965	.5622
#2	4547.	37.12	16620.	.9337	-2.337	.1159
#3	4538.	36.98	16570.	1.004	-1.223	.1148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-4-A Acquired: 4/13/2016 12:46:12 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.695	.2327	.0921	11.00	29.08	-.2946
Stddev	4.350	.7634	.2081	.16	.14	.3130
%RSD	256.6	328.1	226.0	1.423	.4930	106.3
#1	-.9668	.6941	.1620	11.10	28.91	-.4021
#2	-6.363	.6525	-.1420	10.82	29.15	.0580
#3	2.245	-.6485	.2561	11.09	29.17	-.5396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3926	69.16	.6613	5801.
Stddev	.2947	.39	.0893	20.
%RSD	75.05	.5640	13.50	.3449
#1	-.0762	69.46	.6183	5780.
#2	-.4424	69.30	.6016	5803.
#3	-.6593	68.72	.7639	5820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3135.6	39309.	5867.3
Stddev	13.4	134.	70.3
%RSD	.42828	.34188	1.1974
#1	3123.3	39154.	5789.4
#2	3149.9	39379.	5886.6
#3	3133.6	39395.	5925.9

Sample Name: CCB Acquired: 4/13/2016 12:53:57 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.594	-1.095	.1548	.6466	.0055	-12.22
Stddev	16.10	1.507	.3152	.7800	.0356	4.28
%RSD	447.9	137.7	203.7	120.6	642.6	35.03

#1	14.08	-1.186	-.2078	.1566	.0144	-7.477
#2	-17.42	-2.554	.3084	1.546	.0359	-13.39
#3	-7.452	.4562	.3637	.2371	-.0336	-15.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0590	.2231	-.1029	.2250	-1.910	21.36
Stddev	.0702	.2030	.6364	.1309	5.180	14.44
%RSD	119.0	91.00	618.7	58.17	271.2	67.59

#1	-.0845	-.0068	-.0420	.2335	3.849	6.073
#2	.0204	.2982	-.7676	.0901	-6.192	23.25
#3	-.1128	.3777	.5010	.3514	-3.387	34.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2481	-.0042	8.742	-.2035	.3525	.6511
Stddev	2.180	.0466	2.644	.5535	.9730	.7438
%RSD	878.7	1101.	30.24	272.0	276.0	114.2

#1	2.575	-.0404	6.071	-.3421	-.2570	-.1198
#2	-.0859	.0484	11.36	-.6745	-.1602	1.364
#3	-1.745	-.0207	8.798	.4061	1.475	.7087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 12:53:57 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2130	1.394	-1936	-1207	.7491	.8435
Stddev	4.337	2.793	.4844	.1359	.2351	.1665
%RSD	2036.	200.3	250.2	112.6	31.38	19.74
#1	.3986	3.127	.3645	-.0554	.8591	.9973
#2	-4.823	2.883	-.5051	-.0298	.4792	.8664
#3	3.785	-1.827	-.4402	-.2770	.9091	.6667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5192	.0630	.3605	16.03
Stddev	1.094	.0836	.1679	14.39
%RSD	210.7	132.8	46.59	89.76
#1	-.7405	.0255	.3869	-.4343
#2	1.066	.0046	.5136	26.19
#3	1.232	.1588	.1809	22.33

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3122.6	38998.	5689.0
Stddev	17.6	196.	75.5
%RSD	.56399	.50237	1.3279
#1	3139.9	39194.	5771.4
#2	3104.7	38802.	5672.6
#3	3123.3	38998.	5623.0

Sample Name: CCVL Acquired: 4/13/2016 12:58:06 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	198.2	10.98	10.13	218.0	2.118	5298.
Stddev	29.0	1.18	.30	1.0	.014	21.
%RSD	14.62	10.71	3.003	.4382	.6502	.3961
#1	167.5	12.27	10.16	217.6	2.106	5275.
#2	202.1	10.69	9.810	219.1	2.133	5304.
#3	225.1	9.975	10.42	217.4	2.115	5316.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.179	54.81	10.96	25.70	151.6	5009.
Stddev	.076	.14	.61	.13	10.4	43.
%RSD	1.825	.2527	5.572	.4896	6.862	.8502
#1	4.122	54.87	10.96	25.75	144.4	4974.
#2	4.149	54.90	10.35	25.79	163.5	4996.
#3	4.265	54.65	11.57	25.55	146.9	5056.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5071.	16.60	4992.	44.60	11.48	20.72
Stddev	21.	.17	32.	.78	1.94	1.85
%RSD	.4103	1.027	.6509	1.759	16.93	8.948
#1	5049.	16.47	4962.	45.17	12.10	19.28
#2	5074.	16.79	4987.	44.91	9.301	20.07
#3	5091.	16.54	5027.	43.70	13.04	22.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 12:58:06 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.04	22.00	52.73	32.75	52.53	20.86
Stddev	1.31	.71	.54	.12	.96	.12
%RSD	7.280	3.240	1.022	.3734	1.829	.5845

#1	18.06	21.40	52.50	32.70	51.42	20.83
#2	16.71	21.82	52.34	32.89	53.09	20.75
#3	19.34	22.79	53.34	32.67	53.07	20.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.11	21.21	21.34	F 14.76
Stddev	.21	.14	.05	10.70
%RSD	.3960	.6424	.2166	72.50

#1	52.98	21.06	21.32	22.61
#2	53.35	21.22	21.30	19.12
#3	52.99	21.33	21.39	2.569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3114.5	39171.	5753.2
Stddev	9.4	124.	13.0
%RSD	.30331	.31744	.22525

#1	3125.3	39250.	5757.6
#2	3110.1	39235.	5763.4
#3	3108.0	39028.	5738.6

Sample Name: sd 460-111807-E-4-A Acquired: 4/13/2016 13:02:10 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.329	-2.345	.5583	6.026	-.0357	2336.
Stddev	14.04	1.025	.2173	.118	.0370	1.
%RSD	1056.	43.70	38.93	1.956	103.5	.0469
#1	-7.163	-2.998	.6691	6.058	-.0069	2336.
#2	-6.383	-1.164	.3079	6.125	-.0774	2337.
#3	17.53	-2.873	.6979	5.896	-.0228	2335.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0074	.1477	-.3865	-.0883	4.078	426.6
Stddev	.0815	.0655	.1262	.1532	5.522	14.3
%RSD	1096.	44.34	32.66	173.5	135.4	3.344
#1	.0388	.0953	-.4384	-.1762	10.30	426.7
#2	-.0851	.1267	-.2426	.0886	2.185	412.3
#3	.0686	.2211	-.4786	-.1771	-.2486	440.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	843.1	6.928	3107.	.2833	-.5756	.4035
Stddev	3.3	.056	9.	.2290	1.535	.4810
%RSD	.3968	.8136	.2767	80.84	266.8	119.2
#1	844.5	6.952	3102.	.5400	.3503	-.0546
#2	839.3	6.968	3102.	.0999	.2709	.9045
#3	845.6	6.863	3117.	.2100	-2.348	.3607

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111807-E-4-A Acquired: 4/13/2016 13:02:10 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8840	.3601	-.1179	2.634	4.766	-.2395
Stddev	.9012	.9426	.1019	.124	.405	.2499
%RSD	101.9	261.8	86.39	4.715	8.504	104.4
#1	-.8386	-.1602	-.0419	2.670	4.348	.0473
#2	-1.807	1.448	-.2337	2.737	5.158	-.3545
#3	-.0063	-.2077	-.0782	2.496	4.793	-.4111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1360	13.05	.1202	1070.
Stddev	.8556	.06	.0764	6.
%RSD	629.3	.4755	63.57	.5494
#1	.6424	12.99	.1616	1074.
#2	-1.052	13.12	.1670	1063.
#3	.0017	13.05	.0320	1072.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3264.1	40900.	5972.5
Stddev	8.4	55.	18.9
%RSD	.25647	.13375	.31668
#1	3256.8	40837.	5957.3
#2	3262.3	40935.	5993.7
#3	3273.2	40929.	5966.5

Sample Name: 460-111807-E-4-B MS Acquired: 4/13/2016 13:06:14 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1951.	1861.	47.01	1977.	49.54	31280.
Stddev	25.	6.	.50	5.	.32	171.
%RSD	1.256	.3469	1.058	.2368	.6555	.5473
#1	1931.	1855.	47.36	1972.	49.19	31430.
#2	1979.	1861.	46.44	1977.	49.61	31310.
#3	1944.	1868.	47.22	1981.	49.83	31090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.56	491.6	202.2	235.6	989.4	19810.
Stddev	.21	1.3	.9	1.6	4.5	71.
%RSD	.4231	.2725	.4607	.6771	.4587	.3560
#1	49.34	490.3	201.2	234.7	984.7	19730.
#2	49.60	491.5	202.6	234.7	993.8	19810.
#3	49.75	493.0	202.9	237.5	989.6	19870.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22940.	534.1	34970.	502.7	494.2	460.6
Stddev	45.	.7	157.	1.5	2.5	4.5
%RSD	.1974	.1331	.4483	.3019	.5048	.9664
#1	22940.	534.9	34830.	502.2	491.3	455.6
#2	22980.	534.0	34950.	501.5	495.2	462.3
#3	22890.	533.5	35140.	504.4	496.0	464.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-4-B MS Acquired: 4/13/2016 13:06:14 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1872.	2053.	492.5	514.1	508.0	480.4
Stddev	30.	14.	2.5	2.5	5.0	2.0
%RSD	1.586	.6715	.5016	.4863	.9875	.4224
#1	1840.	2038.	489.8	515.1	503.2	478.1
#2	1876.	2058.	493.3	516.0	507.6	481.0
#3	1898.	2064.	494.5	511.3	513.2	482.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	494.3	548.0	490.0	5684.
Stddev	1.6	2.5	1.5	38.
%RSD	.3186	.4647	.3054	.6764
#1	493.8	545.3	488.4	5666.
#2	493.0	548.4	490.3	5658.
#3	496.0	550.3	491.3	5729.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3167.3	39546.	5776.7
Stddev	14.8	288.	33.7
%RSD	.46673	.72817	.58269
#1	3159.7	39295.	5761.4
#2	3157.8	39483.	5753.4
#3	3184.3	39861.	5815.3

Sample Name: pds 460-111807-E-4-A Acquired: 4/13/2016 13:09:56 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1940.	1845.	46.20	1966.	48.77	30650.
Stddev	26.	11.	.33	17.	.51	179.
%RSD	1.322	.6189	.7240	.8460	1.055	.5824
#1	1968.	1858.	46.57	1985.	49.35	30830.
#2	1918.	1839.	46.10	1958.	48.38	30470.
#3	1933.	1837.	45.93	1955.	48.57	30660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.07	488.6	199.5	235.6	974.1	19690.
Stddev	.35	3.5	2.6	2.1	5.2	145.
%RSD	.7130	.7198	1.292	.8848	.5292	.7354
#1	49.47	492.6	202.5	238.0	976.1	19860.
#2	48.85	486.7	197.6	234.2	968.3	19590.
#3	48.88	486.4	198.6	234.6	978.0	19630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22520.	527.3	34610.	500.2	488.0	455.9
Stddev	133.	3.4	270.	3.6	3.5	2.2
%RSD	.5922	.6538	.7812	.7206	.7156	.4838
#1	22670.	531.2	34920.	504.3	492.0	458.4
#2	22430.	524.5	34440.	498.8	485.4	454.1
#3	22450.	526.2	34460.	497.5	486.7	455.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111807-E-4-A Acquired: 4/13/2016 13:09:56 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1863.	2038.	487.3	507.0	511.1	477.8
Stddev	17.	14.	4.6	3.9	2.6	3.9
%RSD	.8963	.7054	.9444	.7759	.5156	.8172
#1	1882.	2054.	492.6	511.5	514.1	482.3
#2	1852.	2034.	485.0	504.6	509.8	475.4
#3	1854.	2027.	484.4	504.8	509.3	475.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	488.4	545.2	485.3	5703.
Stddev	4.0	4.5	3.4	62.
%RSD	.8267	.8241	.6988	1.087
#1	493.0	550.3	489.2	5774.
#2	485.6	541.8	483.0	5664.
#3	486.5	543.4	483.7	5670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3164.4	40103.	5925.4
Stddev	18.1	160.	30.3
%RSD	.57102	.39900	.51074
#1	3143.6	39918.	5894.1
#2	3174.3	40201.	5954.6
#3	3175.4	40189.	5927.5

Sample Name: 460-111807-E-1-A@2 Acquired: 4/13/2016 13:13:41 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	136.6	3.471	.3458	40.99	.0521	75680.
Stddev	20.7	1.819	.3518	.43	.0269	108.
%RSD	15.17	52.41	101.7	1.047	51.60	.1425

#1	156.5	2.137	.6071	41.24	.0214	75610.
#2	138.2	5.543	-.0542	41.24	.0713	75800.
#3	115.2	2.733	.4843	40.49	.0637	75620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9362	2.551	4.359	-.7712	70810.	15700.
Stddev	.0491	.285	.307	.3947	257.	34.
%RSD	5.241	11.18	7.041	51.18	.3626	.2181

#1	-.9038	2.356	4.156	-1.203	70870.	15660.
#2	-.9926	2.418	4.712	-.4290	71030.	15720.
#3	-.9121	2.878	4.209	-.6815	70530.	15720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	96110.	F 10130.	F 396900.	4.883	-3.144	1.111
Stddev	95.	52.	2984.	.773	1.501	1.121
%RSD	.0985	.5089	.7519	15.82	47.75	100.8

#1	96080.	10140.	397300.	4.017	-3.973	-.0967
#2	96220.	10170.	393800.	5.500	-1.411	2.117
#3	96040.	10070.	399700.	5.133	-4.049	1.313

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 460-111807-E-1-A@2 Acquired: 4/13/2016 13:13:41 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.268	2.904	-1.146	10.52	172.5	2.171
Stddev	1.855	2.218	.267	.22	1.8	.212
%RSD	29.60	76.39	23.27	2.083	1.041	9.754
#1	7.289	.4623	-1.333	10.30	171.3	2.392
#2	4.126	4.795	-.8409	10.74	174.6	1.970
#3	7.387	3.453	-1.265	10.52	171.7	2.150

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.5027	752.1	2.365	11560.
Stddev	.5408	1.9	.129	49.
%RSD	107.6	.2564	5.453	.4270
#1	-.0637	749.9	2.507	11550.
#2	-1.107	753.6	2.256	11610.
#3	-.3375	752.8	2.331	11520.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3014.1	38371.	5883.9
Stddev	4.5	20.	21.9
%RSD	.15036	.05308	.37185
#1	3016.6	38391.	5858.9
#2	3008.8	38372.	5899.8
#3	3016.8	38350.	5893.0

Sample Name: 460-111807-E-3-A Acquired: 4/13/2016 13:22:07 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	155.0	2.731	.7561	55.41	.1044	74590.
Stddev	17.6	2.337	.4779	.15	.0894	441.
%RSD	11.37	85.59	63.21	.2655	85.62	.5905

#1	138.7	2.809	.2291	55.49	.1323	75070.
#2	152.7	.3554	.8779	55.50	.0044	74470.
#3	173.7	5.028	1.161	55.24	.1765	74210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.787	50.05	1.619	1.930	6325.	16540.
Stddev	.097	.30	.289	.113	55.	40.
%RSD	5.452	.5914	17.87	5.827	.8627	.2417

#1	1.681	50.10	1.924	1.934	6385.	16540.
#2	1.873	50.31	1.584	2.040	6310.	16500.
#3	1.805	49.73	1.349	1.815	6279.	16580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41400.	F 10730.	F 315100.	58.76	-8.996	-4.293
Stddev	108.	147.	3907.	.12	.659	1.977
%RSD	.2618	1.366	1.240	.2043	7.322	460.5

#1	41490.	10800.	310600.	58.84	-9.138	-2.697
#2	41280.	10830.	317600.	58.62	-8.277	.9354
#3	41430.	10560.	317100.	58.81	-9.571	.4733

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 460-111807-E-3-A Acquired: 4/13/2016 13:22:07 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.510	2.811	-2.749	523.8	420.6	-0.0438
Stddev	1.747	.381	.4599	3.4	1.3	.2653
%RSD	115.7	13.55	167.3	.6581	.3162	606.4
#1	1.343	2.525	.0353	527.5	419.3	-.2372
#2	3.335	3.243	-.0568	523.2	422.0	.2587
#3	-.1481	2.664	-.8032	520.6	420.6	-.1528

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-2.2828	543.7	1.777	12840.
Stddev	.6481	1.3	.152	104.
%RSD	229.2	.2353	8.576	.8128
#1	.3277	545.1	1.631	12810.
#2	-.2131	542.5	1.935	12760.
#3	-.9629	543.5	1.764	12960.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3005.0	37442.	5546.1
Stddev	14.2	221.	58.3
%RSD	.47376	.59094	1.0520
#1	2990.9	37213.	5483.4
#2	3019.4	37457.	5556.3
#3	3004.8	37655.	5598.7

Sample Name: 460-111807-E-5-A@2 Acquired: 4/13/2016 13:26:21 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125.9	1.661	.2343	38.39	-.0339	71150.
Stddev	14.5	2.578	.2014	.06	.0894	175.
%RSD	11.50	155.2	85.93	.1496	263.4	.2455

#1	129.6	-1.282	.0278	38.45	-.0609	70990.
#2	138.1	2.744	.2452	38.34	.0658	71130.
#3	109.9	3.520	.4301	38.39	-.1067	71330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.049	2.233	3.989	-.8881	66280.	14700.
Stddev	.187	.262	.759	.3038	287.	23.
%RSD	17.84	11.73	19.02	34.21	.4324	.1589

#1	-1.049	2.185	3.399	-1.235	65950.	14710.
#2	-1.237	2.516	4.845	-.6697	66430.	14720.
#3	-.8620	1.999	3.723	-.7595	66460.	14670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90690.	9627.	F 372200.	4.630	-2.896	-.3031
Stddev	448.	32.	1755.	.738	.796	.1978
%RSD	.4938	.3332	.4714	15.94	27.47	65.28

#1	90180.	9591.	372000.	3.779	-3.409	-.3040
#2	90910.	9637.	374000.	5.101	-3.299	-.5005
#3	90990.	9653.	370500.	5.009	-1.980	-.1048

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111807-E-5-A@2 Acquired: 4/13/2016 13:26:21 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.203	2.648	-1.140	9.981	161.2	1.811
Stddev	1.373	.801	.462	.238	1.4	.458
%RSD	19.06	30.27	40.49	2.388	.8868	25.27
#1	6.473	3.561	-1.271	9.752	161.3	1.333
#2	6.349	2.322	-.6274	9.963	159.7	1.854
#3	8.786	2.061	-1.523	10.23	162.5	2.245

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.7880	701.5	2.281	10740.
Stddev	.3695	.6	.262	82.
%RSD	46.89	.0789	11.48	.7672
#1	-1.200	701.3	2.445	10740.
#2	-.4860	701.0	1.979	10660.
#3	-.6781	702.1	2.419	10820.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3016.3	38167.	5884.2
Stddev	12.2	128.	48.0
%RSD	.40590	.33517	.81495
#1	3017.7	38314.	5872.2
#2	3027.7	38083.	5843.5
#3	3003.4	38104.	5937.1

Sample Name: 460-109943-F-1-B Acquired: 4/13/2016 13:34:37 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.71	-1.370	-.0567	43.47	.0912	16220.
Stddev	9.63	.477	.3858	.15	.1248	37.
%RSD	29.45	34.79	680.4	.3417	136.7	.2294
#1	37.86	-1.899	-.0465	43.32	-.0524	16260.
#2	38.67	-.9738	-.4475	43.47	.1536	16190.
#3	21.60	-1.238	.3239	43.61	.1725	16210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1559	.0865	.4355	.4280	-1.624	1928.
Stddev	.1348	.0987	.3572	.2186	1.933	31.
%RSD	86.49	114.1	82.00	51.07	119.0	1.587
#1	-.3045	-.0115	.0275	.6738	.6075	1953.
#2	-.1215	.1858	.6913	.3548	-2.777	1894.
#3	-.0415	.0852	.5879	.2554	-2.704	1937.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4455.	1.059	34220.	8.833	-3.119	-.0351
Stddev	30.	.055	56.	.274	1.537	.7674
%RSD	.6639	5.155	.1627	3.106	49.30	2188.
#1	4473.	1.108	34170.	9.092	-4.175	.8377
#2	4421.	.9999	34280.	8.546	-3.826	-.3385
#3	4471.	1.068	34210.	8.860	-1.355	-.6044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109943-F-1-B Acquired: 4/13/2016 13:34:37 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.032	.4152	.3551	3.959	22.51	.3655
Stddev	.506	1.445	.1728	.104	.21	.0233
%RSD	24.91	348.1	48.68	2.628	.9220	6.388
#1	-2.245	-1.175	.2180	4.046	22.51	.3904
#2	-1.454	.7723	.2979	3.844	22.30	.3622
#3	-2.397	1.648	.5492	3.988	22.71	.3440

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0048	88.87	.8076	3979.
Stddev	.4144	.51	.0741	21.
%RSD	8560.	.5742	9.175	.5231
#1	.4111	88.46	.7977	3995.
#2	-.4178	88.70	.7389	3987.
#3	-.0078	89.44	.8861	3956.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3142.6	39949.	5945.0
Stddev	4.2	60.	23.4
%RSD	.13380	.14946	.39408
#1	3147.0	39951.	5971.5
#2	3138.7	40007.	5936.5
#3	3142.2	39888.	5926.9

Sample Name: 460-109943-F-2-B Acquired: 4/13/2016 13:38:39 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.25	-1.306	.1925	42.27	.0221	18950.
Stddev	11.43	.824	.4767	.35	.0286	87.
%RSD	21.08	63.09	247.6	.8194	129.1	.4601
#1	51.03	-2.225	-.2715	41.90	.0342	19050.
#2	44.77	-1.063	.6810	42.33	.0426	18890.
#3	66.95	-.6311	.1681	42.59	-.0105	18910.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1364	1.256	4.120	1.216	-3.339	15860.
Stddev	.1127	.162	.359	.089	8.816	51.
%RSD	82.62	12.86	8.723	7.307	264.0	.3210
#1	.2663	1.342	4.442	1.223	-9.325	15800.
#2	.0788	1.356	3.732	1.301	-7.478	15900.
#3	.0642	1.069	4.187	1.123	6.785	15870.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3502.	941.5	42350.	15.02	-4.862	1.417
Stddev	15.	2.3	129.	.23	1.818	.753
%RSD	.4257	.2437	.3055	1.514	37.40	53.10
#1	3515.	944.0	42200.	15.11	-6.687	2.193
#2	3486.	939.6	42440.	14.76	-3.051	1.370
#3	3506.	940.7	42400.	15.19	-4.847	.6897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109943-F-2-B Acquired: 4/13/2016 13:38:39 Type: Unk
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8323	-.2694	1.086	45.84	44.23	-.5893
Stddev	1.902	.3574	.248	.32	.43	.1493
%RSD	228.6	132.6	22.87	.7036	.9730	25.33
#1	2.051	-.1350	1.182	46.08	43.82	-.4745
#2	-1.360	-.6745	1.272	45.47	44.67	-.7581
#3	1.806	.0013	.8040	45.97	44.19	-.5354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1418	81.83	1.071	5947.
Stddev	.4369	.18	.118	17.
%RSD	308.2	.2256	11.04	.2842
#1	-.3627	81.61	1.207	5936.
#2	.3866	81.94	1.004	5966.
#3	.4014	81.93	1.001	5938.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3098.6	39347.	5874.7
Stddev	9.8	288.	37.0
%RSD	.31579	.73237	.62993
#1	3091.5	39030.	5838.7
#2	3094.5	39419.	5872.9
#3	3109.7	39592.	5912.6

Sample Name: CCB Acquired: 4/13/2016 13:46:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.767	-.3292	.4248	.3032	-.0391	-16.64
Stddev	2.971	2.474	.2870	.0761	.0130	1.20
%RSD	107.3	751.6	67.57	25.10	33.33	7.220
#1	-2.772	.1095	.7201	.3819	-.0498	-16.11
#2	-5.736	1.896	.1468	.2300	-.0246	-18.02
#3	.2054	-2.993	.4075	.2978	-.0429	-15.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0741	.0315	-.2628	-.2488	-11.51	-5.633
Stddev	.0960	.0796	.1546	.2853	9.45	14.13
%RSD	129.5	253.0	58.83	114.6	82.10	250.9
#1	.0253	-.0602	-.1570	-.5015	-.6351	-10.20
#2	-.1663	.0711	-.4403	.0606	-16.18	10.22
#3	-.0815	.0834	-.1912	-.3057	-17.72	-16.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.714	-.0156	22.81	-.0806	-1.328	1.892
Stddev	2.022	.0391	3.67	.1686	1.026	1.059
%RSD	54.46	250.2	16.08	209.2	77.27	55.97
#1	5.805	.0173	26.68	-.2667	-1.980	1.475
#2	3.568	-.0053	22.39	-.0372	-1.858	1.105
#3	1.768	-.0588	19.38	.0621	-.1452	3.096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 13:46:23 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7184	-.0916	-.2231	-.2633	.3010	.8387
Stddev	3.096	.8189	.0773	.3602	.2403	.4340
%RSD	430.9	893.5	34.65	136.8	79.85	51.74
#1	.5876	.8265	-.1345	-.1412	.3877	1.317
#2	-4.253	-.3551	-.2581	-.6687	.0293	.7300
#3	1.510	-.7464	-.2767	.0201	.4859	.4693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.8098	.0981	.3702	14.17
Stddev	.6081	.0797	.1210	8.39
%RSD	75.09	81.27	32.68	59.21
#1	-1.210	.1726	.3105	6.274
#2	-1.109	.0141	.2906	22.98
#3	-.1101	.1075	.5094	13.25

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3098.3	38751.	5654.3
Stddev	12.1	366.	73.8
%RSD	.38902	.94571	1.3050
#1	3112.2	39149.	5730.3
#2	3090.4	38678.	5649.7
#3	3092.3	38427.	5582.9

Sample Name: CCVL Acquired: 4/13/2016 13:50:30 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	208.1	14.50	10.46	214.7	2.031	5225.
Stddev	9.8	3.34	.71	.4	.048	13.
%RSD	4.713	23.02	6.837	.1731	2.353	.2540

#1	209.9	14.09	10.97	214.5	1.978	5235.
#2	197.5	11.38	9.639	214.6	2.072	5210.
#3	216.8	18.02	10.76	215.1	2.042	5230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.095	53.73	10.54	25.06	156.8	4904.
Stddev	.133	.52	.37	.20	5.2	13.
%RSD	3.242	.9617	3.526	.7890	3.293	.2628

#1	4.160	53.32	10.82	25.01	151.4	4901.
#2	4.182	53.55	10.69	24.90	161.7	4893.
#3	3.942	54.31	10.12	25.28	157.2	4918.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4949.	16.40	4875.	44.29	11.82	19.94
Stddev	17.	.08	25.	.39	1.01	.52
%RSD	.3381	.4981	.5028	.8780	8.542	2.592

#1	4930.	16.36	4846.	44.64	10.66	20.23
#2	4955.	16.50	4887.	43.87	12.35	19.34
#3	4961.	16.35	4890.	44.37	12.47	20.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 13:50:30 Type: QC
Method: sw04052016(v6) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.37	19.21	52.21	31.97	50.53	20.31
Stddev	.68	.79	.80	.28	.66	.13
%RSD	3.515	4.112	1.534	.8660	1.304	.6580

#1	19.27	19.80	51.47	32.07	49.97	20.42
#2	20.10	19.52	52.11	31.66	51.26	20.16
#3	18.75	18.31	53.06	32.18	50.37	20.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.19	20.73	20.70	F 22.23
Stddev	.43	.09	.16	3.26
%RSD	.8249	.4486	.7508	14.68

#1	51.82	20.69	20.65	25.99
#2	52.09	20.83	20.88	20.20
#3	52.66	20.66	20.58	20.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3132.0	39381.	5789.0
Stddev	23.9	136.	33.0
%RSD	.76250	.34423	.57005

#1	3158.4	39439.	5800.6
#2	3125.7	39477.	5814.6
#3	3111.9	39226.	5751.8

Sample Name: LCSSRM 460-362066/2- Acquired: 4/13/2016 14:05:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35830.	713.4	151.6	1159.	495.0	28650.
Stddev	489.	10.5	.6	9.	8.9	64.
%RSD	1.366	1.477	.3750	.7909	1.800	.2240

#1	35290.	702.8	151.3	1150.	485.2	28570.
#2	35960.	713.6	151.2	1158.	497.3	28680.
#3	36240.	723.9	152.2	1168.	502.5	28690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	461.8	838.7	753.3	883.2	75620.	11070.
Stddev	5.0	6.2	5.8	4.9	871.	130.
%RSD	1.078	.7405	.7732	.5579	1.152	1.178

#1	456.8	832.3	746.6	879.1	74630.	10920.
#2	461.7	838.9	756.1	881.8	75940.	11140.
#3	466.8	844.8	757.1	888.6	76270.	11140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12290.	F 1855.	4060.	719.4	791.3	425.5
Stddev	45.	9.	46.	7.9	9.0	4.9
%RSD	.3651	.4776	1.131	1.095	1.137	1.141

#1	12240.	1846.	4010.	711.6	781.9	420.7
#2	12300.	1855.	4069.	719.1	792.2	425.4
#3	12320.	1863.	4101.	727.4	799.8	430.4

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1835.				
Low Limit		1260.				

Sample Name: LCSSRM 460-362066/2- Acquired: 4/13/2016 14:05:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	885.5	790.5	587.5	1015.	655.3	612.0
Stddev	9.1	5.8	4.4	12.	6.8	5.5
%RSD	1.026	.7370	.7495	1.134	1.034	.9019
#1	875.2	785.1	582.9	1003.	648.0	606.3
#2	892.6	789.7	587.9	1015.	656.6	612.4
#3	888.6	796.7	591.7	1026.	661.4	617.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	776.3	537.6	1469.	2195.
Stddev	6.5	6.5	13.	45.
%RSD	.8329	1.201	.8903	2.032
#1	769.7	530.4	1455.	2167.
#2	776.6	539.2	1471.	2173.
#3	782.6	543.0	1481.	2247.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3246.7	41011.	6104.0
Stddev	8.5	171.	34.5
%RSD	.26195	.41740	.56549
#1	3255.7	40842.	6127.4
#2	3245.6	41007.	6064.3
#3	3238.8	41184.	6120.2

Sample Name: 460-111807-E-1-A@5 Acquired: 4/13/2016 14:09:37 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.38	.5712	.6628	17.07	.0267	30950.
Stddev	7.35	.4069	.3697	.93	.0606	1944.
%RSD	14.58	71.23	55.78	5.451	226.7	6.282

#1	58.38	1.034	1.039	16.16	.0922	28930.
#2	43.93	.4080	.2999	17.03	.0152	31110.
#3	48.84	.2713	.6497	18.02	-.0272	32800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5941	1.357	2.110	-.2129	29480.	6132.
Stddev	.1622	.233	.627	.6440	1837.	426.
%RSD	27.30	17.18	29.72	302.4	6.232	6.941

#1	-.5383	1.093	2.582	.1032	27590.	5710.
#2	-.7768	1.537	2.349	.2119	29570.	6124.
#3	-.4671	1.439	1.398	-.9539	31260.	6561.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38610.	4277.	158200.	1.595	-2.105	-.0992
Stddev	2523.	271.	11330.	.487	1.564	.4120
%RSD	6.533	6.332	7.163	30.52	74.29	415.5

#1	36000.	3997.	146800.	1.033	-3.817	.3756
#2	38800.	4295.	158300.	1.893	-.7532	-.3626
#3	41040.	4538.	169500.	1.860	-1.744	-.3104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-1-A@5 Acquired: 4/13/2016 14:09:37 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4839	2.163	-.4443	4.404	70.96	.5980
Stddev	1.477	1.342	.1885	.381	4.58	.0975
%RSD	305.3	62.03	42.43	8.650	6.457	16.31
#1	1.263	.7210	-.2631	3.967	66.33	.5663
#2	-1.220	3.374	-.4305	4.573	71.06	.7075
#3	1.409	2.393	-.6393	4.670	75.49	.5203

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0582	300.6	1.811	4447.
Stddev	.6138	20.4	.138	331.
%RSD	1054.	6.793	7.634	7.443
#1	-.2257	279.9	1.966	4121.
#2	-.3622	301.2	1.766	4437.
#3	.7626	320.8	1.701	4783.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3071.1	38536.	5780.0
Stddev	20.0	118.	10.3
%RSD	.65253	.30519	.17776
#1	3092.4	38629.	5771.1
#2	3068.4	38404.	5791.3
#3	3052.6	38576.	5777.8

Sample Name: 460-111807-E-5-A@5 Acquired: 4/13/2016 14:21:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.94	-.2329	.5663	15.71	.0075	29120.
Stddev	14.85	.6628	.1875	.24	.0970	101.
%RSD	38.14	284.6	33.10	1.536	1295.	.3460

#1	23.53	-.4844	.7537	15.60	.0519	29230.
#2	40.13	.5189	.3788	15.54	.0743	29120.
#3	53.16	-.7331	.5666	15.99	-.1037	29020.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5853	1.245	1.920	-.6182	27230.	5808.
Stddev	.1869	.241	.318	.0869	38.	45.
%RSD	31.94	19.33	16.56	14.06	.1407	.7662

#1	-.7937	.9803	2.180	-.7123	27270.	5815.
#2	-.5301	1.450	2.013	-.5410	27190.	5761.
#3	-.4323	1.306	1.566	-.6013	27220.	5849.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36160.	4008.	148400.	1.755	.7620	.2483
Stddev	97.	10.	428.	.259	1.369	.7140
%RSD	.2694	.2428	.2884	14.73	179.6	287.6

#1	36190.	4018.	148000.	1.864	2.333	.2973
#2	36230.	4009.	148400.	1.941	.1255	-.4890
#3	36050.	3998.	148900.	1.460	-.1725	.9365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-5-A@5 Acquired: 4/13/2016 14:21:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.367	.6986	-.4369	4.057	64.47	.3641
Stddev	4.554	2.015	.4094	.080	.58	.3178
%RSD	333.2	288.5	93.69	1.965	.9002	87.29
#1	5.065	3.022	-.0491	4.148	63.88	.0144
#2	-3.719	-.5794	-.8649	4.026	64.48	.6353
#3	2.754	-.3466	-.3968	3.998	65.04	.4426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4696	283.4	1.341	4205.
Stddev	1.151	.8	.120	76.
%RSD	245.1	.2803	8.912	1.804
#1	-1.112	282.8	1.438	4125.
#2	.8593	283.2	1.378	4213.
#3	-1.156	284.3	1.208	4276.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3130.8	39281.	5944.5
Stddev	15.3	184.	72.4
%RSD	.49005	.46958	1.2171
#1	3138.4	39068.	5863.1
#2	3140.8	39387.	5969.1
#3	3113.1	39388.	6001.4

Sample Name: 460-111807-E-2-A@5 Acquired: 4/13/2016 14:13:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.66	1.055	.4642	37.23	.0541	28700.
Stddev	11.97	1.701	.1754	.07	.0814	83.
%RSD	12.26	161.1	37.78	.1989	150.3	.2904
#1	91.47	-.1832	.6169	37.14	.1077	28640.
#2	111.5	2.995	.5031	37.28	.0941	28680.
#3	90.05	.3550	.2726	37.27	-.0395	28800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6487	.3847	2.380	-.5476	37410.	4885.
Stddev	.0143	.1557	.275	.3115	179.	39.
%RSD	2.200	40.48	11.56	56.88	.4773	.7930
#1	-.6337	.4322	2.256	-.5605	37510.	4886.
#2	-.6622	.2107	2.189	-.2299	37510.	4923.
#3	-.6503	.5111	2.696	-.8525	37200.	4846.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35540.	2187.	150100.	2.124	-2.423	1.399
Stddev	90.	5.	1451.	.444	2.267	.520
%RSD	.2523	.2184	.9672	20.90	93.59	37.18
#1	35640.	2182.	150500.	2.115	-1.683	.9720
#2	35490.	2188.	151200.	2.572	-4.967	1.979
#3	35470.	2192.	148400.	1.684	-.6175	1.247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-2-A@5 Acquired: 4/13/2016 14:13:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3186	.6073	-.4193	15.00	73.89	.2357
Stddev	1.706	.6178	.2843	.07	.32	.1663
%RSD	535.6	101.7	67.80	.4828	.4308	70.55
#1	1.425	1.255	-.1918	15.04	73.84	.0539
#2	1.177	.5419	-.7381	14.92	73.59	.2731
#3	-1.646	.0248	-.3281	15.05	74.23	.3801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3770	290.0	4.527	5619.
Stddev	1.424	2.2	.685	9.
%RSD	377.9	.7491	15.13	.1678
#1	1.308	289.9	4.169	5613.
#2	1.086	292.2	4.095	5630.
#3	-1.263	287.8	5.316	5613.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3058.7	38799.	5777.4
Stddev	3.7	86.	19.1
%RSD	.11935	.22099	.33032
#1	3056.5	38897.	5798.8
#2	3062.9	38742.	5771.0
#3	3056.8	38757.	5762.3

Sample Name: 460-111935-A-1-B@10 Acquired: 4/13/2016 14:37:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46360.	-1.640	-1.097	472.0	2.454	1071.
Stddev	212.	.9449	.289	.4	.165	8.
%RSD	.4580	576.2	26.32	.0906	6.719	.7714

#1	46240.	.6018	-1.038	471.7	2.565	1062.
#2	46610.	-1.220	-1.411	471.9	2.264	1079.
#3	46250.	.1261	-.8429	472.5	2.532	1072.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.733	30.85	133.3	57.35	111200.	24990.
Stddev	.073	.33	1.1	.20	604.	63.
%RSD	4.235	1.060	.8121	.3567	.5431	.2522

#1	-1.803	30.48	132.1	57.30	110500.	24960.
#2	-1.739	31.00	133.7	57.17	111600.	25070.
#3	-1.657	31.08	134.1	57.57	111400.	24950.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17420.	1131.	393.8	53.34	34.76	.9881
Stddev	71.	3.	3.2	.42	.40	1.873
%RSD	.4090	.2590	.8021	.7845	1.157	189.5

#1	17380.	1128.	390.2	52.90	34.31	-.4867
#2	17370.	1131.	395.3	53.74	35.10	3.095
#3	17500.	1134.	395.9	53.38	34.86	.3561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111935-A-1-B@10 Acquired: 4/13/2016 14:37:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.234	-3.459	229.6	136.4	-4.532	.6832
Stddev	.828	1.759	1.2	.6	.199	.0838
%RSD	10.05	50.85	.5405	.4220	4.386	12.26
#1	8.993	-2.903	228.1	135.9	-4.569	.7798
#2	8.358	-2.046	230.2	136.3	-4.709	.6389
#3	7.351	-5.430	230.4	137.0	-4.317	.6309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.635	17.70	6902.	819.3
Stddev	.431	.16	12.	16.0
%RSD	7.653	.9144	.1712	1.958
#1	6.133	17.88	6888.	805.1
#2	5.414	17.56	6905.	816.1
#3	5.360	17.66	6911.	836.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3268.8	41188.	6137.9
Stddev	13.0	249.	45.3
%RSD	.39797	.60449	.73851
#1	3281.0	41466.	6185.5
#2	3270.3	41114.	6095.2
#3	3255.1	40985.	6133.0

Sample Name: 460-111807-E-3-A@5 Acquired: 4/13/2016 14:17:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.21	-.4765	.3784	11.66	.0943	15510.
Stddev	13.18	2.218	.2820	.06	.0564	84.
%RSD	68.59	465.6	74.51	.5278	59.81	.5435

#1	26.70	.1654	.1958	11.68	.0298	15450.
#2	3.997	-2.945	.7032	11.70	.1345	15470.
#3	26.94	1.350	.2363	11.59	.1186	15610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3285	10.46	.1215	-.1040	1442.	3304.
Stddev	.0947	.12	.2537	.3498	9.	23.
%RSD	28.82	1.181	208.8	336.2	.6556	.7079

#1	.3171	10.34	.2423	-.2595	1437.	3329.
#2	.4284	10.58	.2921	.2965	1436.	3299.
#3	.2401	10.46	-.1700	-.3491	1453.	3283.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8623.	2290.	62890.	12.49	-2.495	.4592
Stddev	57.	9.	213.	.22	.843	.3133
%RSD	.6581	.3821	.3391	1.756	33.79	68.24

#1	8577.	2286.	63130.	12.69	-2.816	.4944
#2	8605.	2285.	62810.	12.53	-1.539	.1297
#3	8686.	2300.	62730.	12.26	-3.131	.7534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111807-E-3-A@5 Acquired: 4/13/2016 14:17:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.168	1.258	-1.644	108.7	86.94	-4.278
Stddev	.966	1.258	.2048	.2	.39	.2150
%RSD	82.65	100.0	124.6	.2058	.4468	50.26
#1	-1.846	2.037	.0212	108.6	86.86	-.3548
#2	-1.597	1.931	-.3841	108.5	86.59	-.2587
#3	-.0626	-.1939	-.1302	108.9	87.36	-.6698

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1719	113.8	.8017	2601.
Stddev	.7165	.4	.1054	37.
%RSD	416.9	.3279	13.15	1.417
#1	-.6462	114.2	.6959	2640.
#2	.6523	113.8	.9068	2598.
#3	-.5217	113.4	.8025	2566.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3109.4	38803.	5762.6
Stddev	5.1	250.	32.8
%RSD	.16330	.64550	.56887
#1	3108.0	39089.	5789.7
#2	3105.2	38692.	5726.2
#3	3115.0	38626.	5771.9

Sample Name: CCV Acquired: 4/13/2016 14:45:46 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120300.	2492.	1238.	10180.	977.0	126000.
Stddev	161.	7.	2.	39.	2.1	807.
%RSD	.1335	.2919	.1955	.3798	.2125	.6407

#1	120300.	2497.	1238.	10160.	974.9	125400.
#2	120100.	2484.	1236.	10160.	976.9	125600.
#3	120500.	2495.	1241.	10230.	979.1	126900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1254.	2509.	5063.	12530.	98700.	48980.
Stddev	4.	4.	35.	19.	471.	75.
%RSD	.2989	.1564	.6983	.1536	.4776	.1527

#1	1252.	2506.	5042.	12550.	98640.	48930.
#2	1251.	2508.	5043.	12530.	98270.	48950.
#3	1258.	2514.	5104.	12510.	99210.	49070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123100.	5091.	120300.	2543.	7448.	981.9
Stddev	114.	18.	172.	8.	13.	3.5
%RSD	.0927	.3439	.1433	.3153	.1703	.3556

#1	123200.	5084.	120400.	2537.	7454.	979.8
#2	123000.	5077.	120200.	2539.	7434.	986.0
#3	123200.	5110.	120100.	2552.	7457.	980.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 14:45:46 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2423.	2551.	2505.	2483.	1009.	2517.
Stddev	12.	14.	7.	11.	1.	7.
%RSD	.5056	.5544	.2897	.4615	.0703	.2852
#1	2436.	2564.	2503.	2478.	1010.	2513.
#2	2420.	2536.	2499.	2474.	1009.	2513.
#3	2412.	2553.	2513.	2496.	1009.	2526.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1012.	4989.	10010.	9738.
Stddev	3.	7.	39.	73.
%RSD	.3284	.1421	.3907	.7534
#1	1012.	4981.	10000.	9799.
#2	1009.	4993.	9976.	9759.
#3	1015.	4994.	10050.	9657.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2991.7	38204.	5886.3
Stddev	14.7	287.	64.9
%RSD	.49188	.75048	1.1030
#1	2997.8	38330.	5910.1
#2	3002.4	38407.	5935.9
#3	2974.9	37876.	5812.8

Sample Name: CCVL Acquired: 4/13/2016 14:53:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	196.9	12.14	9.691	211.9	1.990	5139.
Stddev	4.1	3.41	.290	1.1	.112	8.
%RSD	2.095	28.09	2.990	.5222	5.622	.1538

#1	200.6	10.28	9.986	211.2	1.873	5134.
#2	192.5	16.07	9.407	211.3	2.002	5148.
#3	197.5	10.06	9.679	213.2	2.096	5134.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.996	52.88	10.25	24.36	164.1	4818.
Stddev	.063	.20	.68	.28	2.3	18.
%RSD	1.567	.3768	6.598	1.162	1.423	.3811

#1	4.046	52.67	9.470	24.04	163.8	4824.
#2	3.926	53.07	10.68	24.58	161.9	4832.
#3	4.016	52.91	10.60	24.47	166.6	4797.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4807.	16.13	4716.	43.25	10.72	20.30
Stddev	29.	.11	31.	.36	2.06	.70
%RSD	.6132	.6594	.6618	.8327	19.22	3.429

#1	4781.	16.03	4715.	43.17	8.434	19.74
#2	4801.	16.11	4686.	42.94	12.43	21.08
#3	4839.	16.24	4749.	43.65	11.30	20.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 14:53:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.09	21.53	51.05	31.21	49.91	19.87
Stddev	4.07	1.29	.51	.21	.16	.07
%RSD	26.99	5.993	.9982	.6764	.3133	.3415

#1	17.95	22.06	50.86	31.14	49.83	19.82
#2	10.43	22.48	51.63	31.44	50.10	19.83
#3	16.88	20.06	50.67	31.04	49.82	19.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	50.83	20.36	20.31	F 4.931
Stddev	.14	.09	.14	.228
%RSD	.2763	.4621	.6959	4.631

#1	50.94	20.43	20.18	4.708
#2	50.67	20.40	20.46	5.165
#3	50.87	20.25	20.28	4.920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3189.6	40068.	5937.7
Stddev	7.5	223.	87.7
%RSD	.23535	.55667	1.4772

#1	3198.2	40194.	6000.8
#2	3186.0	40201.	5974.9
#3	3184.6	39811.	5837.6

Sample Name: 460-112001-B-2-A@4 Acquired: 4/13/2016 15:09:15 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45640.	19.05	-5905	168.6	1.688	4831.
Stddev	310.	2.35	.3558	.7	.084	17.
%RSD	.6790	12.34	60.26	.4103	4.988	.3580
#1	45300.	21.54	-.9738	167.9	1.784	4822.
#2	45900.	16.87	-.2708	169.3	1.625	4821.
#3	45720.	18.73	-.5268	168.5	1.656	4851.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1745	30.11	88.94	64.45	77250.	1606.
Stddev	.0765	.03	1.13	.23	511.	50.
%RSD	43.87	.0955	1.271	.3528	.6620	3.099
#1	.1992	30.14	88.22	64.22	76720.	1553.
#2	.2356	30.11	88.36	64.47	77290.	1652.
#3	.0886	30.08	90.24	64.67	77740.	1614.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7171.	1334.	164.9	76.74	66.44	2.369
Stddev	17.	5.	6.1	.48	1.82	.825
%RSD	.2425	.3571	3.690	.6251	2.746	34.80
#1	7151.	1331.	166.6	76.38	64.35	2.933
#2	7182.	1332.	170.0	76.55	67.71	1.423
#3	7179.	1340.	158.2	77.29	67.26	2.753

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112001-B-2-A@4 Acquired: 4/13/2016 15:09:15 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.213	-1.506	83.21	425.7	2.527	1.721
Stddev	2.527	1.728	.48	2.1	.490	.290
%RSD	35.03	114.7	.5755	.4843	19.41	16.84
#1	9.320	-2.783	82.68	424.0	1.978	1.527
#2	4.412	-2.196	83.33	425.2	2.921	2.054
#3	7.907	.4598	83.61	428.0	2.683	1.581

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.946	36.17	990.6	1077.
Stddev	.564	.17	2.2	3.
%RSD	19.13	.4639	.2239	.2777
#1	3.562	36.01	988.4	1080.
#2	2.457	36.34	990.5	1074.
#3	2.818	36.16	992.8	1076.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3229.4	40248.	6016.8
Stddev	11.4	95.	40.0
%RSD	.35338	.23504	.66502
#1	3230.4	40295.	6062.1
#2	3240.2	40309.	6001.9
#3	3217.5	40139.	5986.3

Sample Name: 460-112001-A-4-A@4 Acquired: 4/13/2016 15:17:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50330.	25.24	-.2201	229.1	1.792	5766.
Stddev	478.	2.33	.1846	1.6	.036	56.
%RSD	.9504	9.225	83.85	.7056	2.032	.9640

#1	49850.	27.70	-.2394	227.5	1.809	5708.
#2	50340.	23.07	-.0267	229.0	1.750	5769.
#3	50810.	24.94	-.3943	230.7	1.816	5819.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.037	28.66	73.86	66.24	70880.	1531.
Stddev	.154	.14	.62	.22	394.	25.
%RSD	14.88	.4831	.8381	.3353	.5561	1.659

#1	1.195	28.74	73.42	66.08	70450.	1505.
#2	.8866	28.51	73.59	66.16	70980.	1556.
#3	1.031	28.75	74.57	66.50	71220.	1533.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7604.	1125.	111.9	57.57	548.0	2.339
Stddev	40.	8.	.5	.44	5.4	1.961
%RSD	.5309	.6960	.4213	.7593	.9775	83.83

#1	7560.	1118.	112.4	57.13	544.2	2.573
#2	7612.	1125.	112.0	57.59	545.6	.2717
#3	7639.	1133.	111.5	58.00	554.1	4.173

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112001-A-4-A@4 Acquired: 4/13/2016 15:17:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.800	-1.257	88.71	494.5	3.912	1.661
Stddev	1.437	1.000	.36	3.6	.238	.129
%RSD	21.13	79.55	.4024	.7239	6.094	7.776
#1	5.420	-.6216	88.38	491.3	3.676	1.595
#2	8.287	-2.409	88.67	493.9	4.152	1.578
#3	6.693	-.7394	89.09	498.3	3.908	1.810

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.965	36.15	883.0	1137.
Stddev	.566	.29	5.8	6.
%RSD	11.40	.7989	.6516	.5545
#1	4.447	35.94	877.1	1144.
#2	4.879	36.02	883.4	1131.
#3	5.569	36.48	888.6	1135.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3224.2	40521.	6082.3
Stddev	4.8	33.	35.0
%RSD	.15008	.08173	.57495
#1	3226.3	40521.	6112.8
#2	3227.6	40555.	6044.1
#3	3218.6	40489.	6090.1

Sample Name: 460-111932-D-21-A@4 Acquired: 4/13/2016 15:25:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40170.	63.11	-0.091	311.7	1.916	7271.
Stddev	351.	.96	.1879	1.7	.010	55.
%RSD	.8739	1.526	189.6	.5504	.5163	.7584

#1	39950.	62.95	.1126	309.8	1.927	7208.
#2	39990.	64.15	-.2463	311.9	1.910	7292.
#3	40570.	62.24	-.1636	313.2	1.910	7312.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1200	44.10	113.3	141.1	78190.	1887.
Stddev	.0874	.06	.5	.9	565.	28.
%RSD	72.86	.1349	.4109	.6081	.7231	1.466

#1	-.1636	44.07	112.9	140.2	77570.	1901.
#2	-.0193	44.17	113.2	141.1	78320.	1855.
#3	-.1769	44.06	113.8	141.9	78670.	1905.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6868.	968.9	278.2	56.09	587.1	2.947
Stddev	51.	6.6	2.5	.32	.9	.854
%RSD	.7385	.6839	.8925	.5690	.1599	28.98

#1	6810.	961.5	281.0	56.01	587.0	3.678
#2	6887.	970.8	277.1	55.81	586.2	2.008
#3	6906.	974.3	276.4	56.44	588.1	3.154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111932-D-21-A@4 Acquired: 4/13/2016 15:25:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.065	-2.143	129.9	534.7	5.700	3.268
Stddev	3.447	1.946	1.1	.5	.221	.322
%RSD	56.84	90.79	.8637	.0853	3.868	9.859
#1	4.445	-4.282	128.7	534.3	5.953	3.214
#2	3.726	-1.667	130.1	534.6	5.547	2.976
#3	10.02	-4.792	130.9	535.2	5.601	3.614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.10	26.60	1138.	1431.
Stddev	.74	.36	6.	16.
%RSD	4.353	1.346	.4989	1.095
#1	17.72	26.44	1132.	1417.
#2	17.30	26.35	1138.	1448.
#3	16.27	27.01	1143.	1428.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3268.4	41064.	6153.9
Stddev	17.9	191.	55.0
%RSD	.54681	.46578	.89362
#1	3248.7	41282.	6174.8
#2	3272.9	40921.	6195.3
#3	3283.6	40990.	6091.5

Sample Name: 460-111972-E-1-B@4 Acquired: 4/13/2016 15:33:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8230.	32.86	-.1950	32.88	.4097	820.4
Stddev	67.	2.81	.2443	.23	.0789	8.4
%RSD	.8132	8.549	125.3	.6908	19.26	1.022

#1	8157.	30.24	.0406	32.62	.4969	810.8
#2	8244.	32.49	-.4472	33.04	.3887	826.2
#3	8289.	35.83	-.1783	32.97	.3434	824.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5381	1.190	29.28	10.06	22420.	1965.
Stddev	.0542	.213	.82	.20	161.	14.
%RSD	10.08	17.90	2.798	2.016	.7184	.7259

#1	-.6006	1.006	28.37	10.28	22230.	1948.
#2	-.5037	1.142	29.95	9.876	22480.	1973.
#3	-.5101	1.424	29.53	10.03	22530.	1972.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	870.5	35.02	191.1	3.784	17.50	2.441
Stddev	8.3	.48	6.3	.190	1.31	.993
%RSD	.9510	1.366	3.280	5.032	7.501	40.67

#1	861.0	34.50	184.0	3.732	17.97	1.815
#2	874.5	35.11	193.6	3.995	16.01	3.585
#3	876.1	35.45	195.7	3.625	18.51	1.922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-1-B@4 Acquired: 4/13/2016 15:33:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9847	-.7154	33.69	21.66	6.565	1.025
Stddev	1.927	.9614	.15	.04	.101	.285
%RSD	195.7	134.4	.4511	.2011	1.533	27.78
#1	-.5892	-.4523	33.85	21.62	6.527	.7901
#2	.4098	-1.781	33.56	21.65	6.489	.9427
#3	3.133	.0870	33.65	21.70	6.680	1.341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9445	12.27	158.1	1446.
Stddev	.9191	.10	1.0	5.
%RSD	97.30	.8092	.6454	.3176
#1	.2218	12.20	156.9	1444.
#2	.6329	12.38	158.6	1443.
#3	1.979	12.23	158.8	1451.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3200.2	40377.	6015.9
Stddev	8.8	87.	23.8
%RSD	.27629	.21659	.39637
#1	3193.9	40400.	6034.8
#2	3196.4	40281.	6023.9
#3	3210.3	40451.	5989.1

Sample Name: MB 460-362272/1-A@2 Acquired: 4/13/2016 14:25:54 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.633	-.7329	.4241	.0373	-.0053	-15.33
Stddev	2.629	.5022	.1995	.1202	.0188	.68
%RSD	46.67	68.53	47.03	322.6	355.2	4.415

#1	-6.636	-1.157	.4899	.0029	.0061	-14.58
#2	-7.612	-.8639	.2000	.1709	-.0270	-15.91
#3	-2.650	-.1781	.5823	-.0620	.0050	-15.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1635	-.0202	-.0760	-.1931	-3.909	28.88
Stddev	.0503	.0778	.3755	.1177	6.140	40.50
%RSD	30.74	385.6	493.8	60.94	157.1	140.2

#1	-.1838	.0617	.0051	-.0687	3.067	69.44
#2	-.2005	-.0291	-.4854	-.3026	-8.495	-11.56
#3	-.1063	-.0931	.2522	-.2079	-6.297	28.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.940	.0691	34.78	-.2144	-.9623	1.031
Stddev	4.106	.0060	7.66	.3286	.3387	1.408
%RSD	211.6	8.659	22.04	153.2	35.20	136.5

#1	4.583	.0622	43.60	.0489	-1.293	2.544
#2	4.028	.0718	31.01	-.1096	-.6157	-.2404
#3	-2.790	.0732	29.73	-.5826	-.9787	.7899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-362272/1-A@2 Acquired: 4/13/2016 14:25:54 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.939	-.7456	.0668	.4821	-.8392	-.5643
Stddev	.827	.4757	.3010	.2569	.6011	.3359
%RSD	20.99	63.80	450.7	53.29	71.63	59.53
#1	-4.630	-.7822	.2973	.6450	-.1901	-.8660
#2	-4.164	-.2526	-.2738	.6153	-1.377	-.2023
#3	-3.023	-1.202	.1768	.1860	-.9507	-.6247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.6055	-.0226	-.2368	2.196
Stddev	.4007	.1260	.1190	14.05
%RSD	66.18	558.3	50.26	639.6
#1	-.1441	.1051	-.2376	-13.25
#2	-.8656	-.0260	-.3555	5.641
#3	-.8068	-.1468	-.1174	14.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3184.0	40095.	5831.4
Stddev	14.1	226.	9.3
%RSD	.44152	.56343	.15920
#1	3196.8	40351.	5840.8
#2	3186.4	39922.	5831.1
#3	3169.0	40012.	5822.3

Sample Name: LCSSRM 460-362272/2- Acquired: 4/13/2016 14:30:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34780.	660.3	137.3	1005.	456.6	27800.
Stddev	28.	3.6	.6	2.	1.3	109.
%RSD	.0794	.5445	.4278	.1704	.2745	.3928

#1	34810.	656.3	136.7	1005.	458.0	27680.
#2	34780.	661.8	137.8	1007.	456.3	27860.
#3	34750.	663.0	137.4	1004.	455.5	27880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	438.2	803.5	709.4	822.0	67760.	10440.
Stddev	.2	2.6	3.6	1.2	140.	38.
%RSD	.0373	.3237	.5061	.1502	.2066	.3672

#1	438.4	800.6	705.4	820.8	67750.	10400.
#2	438.1	804.6	710.4	823.2	67910.	10450.
#3	438.1	805.4	712.4	822.1	67630.	10470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11740.	1561.	3920.	689.4	709.8	436.1
Stddev	47.	5.	20.	.6	2.9	.4
%RSD	.3979	.2946	.5119	.0936	.4042	.0901

#1	11690.	1555.	3900.	688.9	706.4	435.7
#2	11760.	1563.	3940.	689.2	711.5	436.0
#3	11770.	1563.	3921.	690.2	711.3	436.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-362272/2- Acquired: 4/13/2016 14:30:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	819.2	723.9	538.8	947.6	640.0	586.9
Stddev	4.3	7.6	1.3	2.5	1.1	1.4
%RSD	.5275	1.047	.2426	.2636	.1662	.2358
#1	815.3	717.8	537.7	945.5	639.3	585.3
#2	818.6	721.4	540.2	947.0	639.5	587.9
#3	823.9	732.4	538.4	950.4	641.2	587.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	691.8	502.1	1539.	2806.
Stddev	4.7	1.3	2.	15.
%RSD	.6860	.2673	.1334	.5315
#1	686.4	500.8	1536.	2800.
#2	693.6	502.1	1540.	2794.
#3	695.4	503.4	1540.	2822.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3279.6	41313.	6164.2
Stddev	9.9	246.	36.8
%RSD	.30291	.59587	.59619
#1	3268.4	41053.	6122.1
#2	3283.3	41343.	6181.0
#3	3287.2	41542.	6189.5

Sample Name: 460-111935-A-1-C DU Acquired: 4/13/2016 14:33:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45970.	-2.586	-1.305	471.7	2.540	1075.
Stddev	284.	.670	.387	3.5	.107	13.
%RSD	.6173	25.90	29.67	.7516	4.197	1.177
#1	45650.	-2.861	-1.694	467.8	2.423	1065.
#2	46140.	-3.074	-.9198	472.5	2.567	1089.
#3	46130.	-1.822	-1.302	474.7	2.631	1071.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.943	30.81	132.4	57.37	110600.	24880.
Stddev	.137	.11	.1	.62	568.	173.
%RSD	7.055	.3440	.0860	1.081	.5133	.6933
#1	-1.787	30.69	132.6	56.94	109900.	24720.
#2	-2.041	30.89	132.3	57.08	111000.	24870.
#3	-2.002	30.85	132.4	58.08	110800.	25060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17410.	1129.	393.6	52.74	33.16	2.592
Stddev	107.	6.	8.1	.28	2.64	.282
%RSD	.6161	.5535	2.061	.5340	7.953	10.87
#1	17290.	1122.	398.2	52.50	33.90	2.758
#2	17420.	1131.	384.3	53.05	35.35	2.751
#3	17510.	1134.	398.5	52.67	30.23	2.267

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111935-A-1-C DU Acquired: 4/13/2016 14:33:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.726	-4.497	228.9	135.8	-4.429	.9845
Stddev	3.635	2.993	1.6	.5	.085	.1528
%RSD	97.54	665.5	.6935	.3844	1.925	15.53
#1	7.528	1.312	227.1	135.3	-4.525	.9875
#2	3.366	-3.906	229.5	135.8	-4.401	1.136
#3	.2850	1.245	230.0	136.4	-4.361	.8301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.082	17.60	6879.	811.9
Stddev	.569	.12	44.	17.2
%RSD	9.359	.6603	.6406	2.117
#1	5.660	17.48	6830.	824.2
#2	5.857	17.60	6890.	792.2
#3	6.730	17.71	6916.	819.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3292.2	41186.	6155.8
Stddev	12.0	412.	123.6
%RSD	.36371	1.0001	2.0073
#1	3278.9	40997.	6106.5
#2	3295.4	40901.	6064.5
#3	3302.2	41658.	6296.4

Sample Name: sd 460-111935-A-1-B Acquired: 4/13/2016 14:41:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9176.	-1.758	-.4530	94.37	.4537	200.0
Stddev	39.	1.373	.1021	.55	.0521	7.1
%RSD	.4200	78.08	22.55	.5794	11.48	3.540
#1	9210.	-.8476	-.3763	94.98	.3989	201.4
#2	9134.	-3.337	-.4138	94.19	.4599	192.3
#3	9185.	-1.090	-.5690	93.93	.5025	206.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5867	6.095	26.25	11.23	22240.	4976.
Stddev	.0499	.335	.20	.22	137.	2.
%RSD	8.512	5.495	.7594	1.948	.6148	.0487
#1	-.5336	6.479	26.31	11.11	22380.	4979.
#2	-.6327	5.858	26.03	11.48	22110.	4976.
#3	-.5938	5.949	26.42	11.09	22220.	4974.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3494.	228.3	75.47	10.47	6.246	.8113
Stddev	11.	1.0	3.29	.14	.291	.6302
%RSD	.3169	.4250	4.356	1.337	4.656	77.68
#1	3494.	228.6	78.30	10.49	6.508	1.412
#2	3483.	227.2	71.86	10.61	6.297	.8670
#3	3505.	229.1	76.25	10.33	5.933	.1551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111935-A-1-B Acquired: 4/13/2016 14:41:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1232	-.0209	45.19	27.37	-1.868	-.3576
Stddev	2.339	1.905	.27	.07	.119	.0752
%RSD	1898.	9104.	.6058	.2598	6.361	21.02
#1	-.3336	.4339	45.36	27.33	-2.000	-.2715
#2	-1.953	-2.112	45.33	27.33	-1.769	-.3912
#3	2.657	1.615	44.87	27.45	-1.836	-.4100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.136	3.522	1359.	162.3
Stddev	.555	.036	5.	18.4
%RSD	48.83	1.015	.3333	11.35
#1	.9859	3.526	1364.	153.9
#2	1.751	3.485	1355.	183.4
#3	.6724	3.556	1359.	149.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3218.6	40420.	5988.1
Stddev	.2	98.	25.9
%RSD	.00622	.24207	.43326
#1	3218.4	40335.	5959.1
#2	3218.8	40527.	6009.2
#3	3218.6	40397.	5995.9

Sample Name: CCB Acquired: 4/13/2016 14:49:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.993	-2.790	-.2643	.1728	-.0267	-23.46
Stddev	2.441	2.047	.4482	.0431	.0793	1.42
%RSD	27.15	73.37	169.6	24.95	297.5	6.063
#1	-6.175	-4.398	.2018	.1450	-.1086	-25.11
#2	-10.33	-3.485	-.6921	.2225	.0497	-22.64
#3	-10.48	-.4857	-.3026	.1510	-.0210	-22.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0393	.0308	.3301	-.4769	-6.527	4.962
Stddev	.0932	.1190	.3892	.1910	5.614	52.20
%RSD	237.2	386.4	117.9	40.05	86.01	1052.
#1	-.1264	.0907	.4529	-.3557	-11.20	64.93
#2	-.0504	.1079	-.1056	-.6970	-.2997	-19.74
#3	.0590	-.1062	.6432	-.3779	-8.082	-30.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.394	.0395	10.06	-.3134	-.6877	.1978
Stddev	5.385	.0223	5.89	.3408	2.260	2.215
%RSD	122.6	56.53	58.56	108.7	328.6	1120.
#1	10.48	.0495	15.99	-.1173	-1.666	-1.331
#2	.2336	.0551	4.206	-.1160	-2.294	-.8134
#3	2.471	.0139	9.995	-.7069	1.896	2.738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 14:49:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.8873	-0.2393	.2150	-0.1109	.0720	.4737
Stddev	2.563	.3783	.3273	.0676	.5262	.6633
%RSD	288.9	158.1	152.2	60.98	730.9	140.0
#1	2.064	.1966	.2034	-.1602	-.3615	1.239
#2	-2.552	-.4323	.5480	-.1388	.6574	.0761
#3	-2.175	-.4823	-.1063	-.0338	-.0799	.1056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0566	.0594	.3227	1.823
Stddev	.8783	.0594	.1186	14.30
%RSD	1552.	100.1	36.74	784.3
#1	.0731	.0120	.4084	4.502
#2	.9265	.0401	.3724	14.60
#3	-.8299	.1261	.1874	-13.63

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3175.7	39663.	5844.6
Stddev	7.1	128.	35.2
%RSD	.22471	.32358	.60159
#1	3168.1	39747.	5840.2
#2	3182.3	39727.	5881.7
#3	3176.7	39515.	5811.8

Sample Name: 460-111935-A-1-D MS Acquired: 4/13/2016 14:57:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48010.	334.9	7.369	842.8	11.77	4840.
Stddev	1364.	10.2	.119	18.5	.26	149.
%RSD	2.841	3.049	1.613	2.196	2.243	3.075

#1	46650.	323.9	7.247	824.5	11.46	4693.
#2	47990.	336.9	7.377	842.4	11.92	4836.
#3	49380.	344.0	7.484	861.5	11.92	4991.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.916	127.5	164.0	105.0	106500.	28470.
Stddev	.147	3.1	4.9	3.5	2872.	786.
%RSD	1.862	2.443	3.000	3.309	2.697	2.761

#1	7.755	124.2	159.3	101.3	103400.	27680.
#2	8.043	127.6	163.7	105.5	106800.	28480.
#3	7.950	130.5	169.1	108.1	109100.	29250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20920.	1220.	3867.	155.1	128.1	35.23
Stddev	594.	35.	110.	3.5	4.6	1.33
%RSD	2.842	2.869	2.848	2.259	3.571	3.779

#1	20280.	1184.	3760.	151.3	123.0	34.12
#2	21010.	1222.	3861.	155.6	129.3	36.71
#3	21460.	1254.	3980.	158.3	132.0	34.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111935-A-1-D MS Acquired: 4/13/2016 14:57:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	328.5	395.4	318.8	230.2	88.74	87.29
Stddev	10.7	9.2	9.9	5.4	2.00	1.88
%RSD	3.254	2.326	3.116	2.346	2.258	2.157
#1	316.1	387.0	308.4	224.0	86.43	85.31
#2	335.0	394.0	319.9	232.8	89.80	87.50
#3	334.3	405.2	328.2	233.8	89.99	89.05

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	89.16	110.5	6960.	940.5
Stddev	3.81	3.1	191.	14.0
%RSD	4.279	2.826	2.751	1.490
#1	85.19	107.3	6759.	924.9
#2	89.50	110.8	6981.	944.4
#3	92.79	113.5	7140.	952.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3233.1	40612.	6068.1
Stddev	25.6	79.	11.8
%RSD	.79191	.19453	.19370
#1	3234.0	40697.	6076.3
#2	3207.1	40598.	6073.5
#3	3258.2	40541.	6054.7

Sample Name: pds 460-111935-A-1-B Acquired: 4/13/2016 15:01:33 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45020.	1797.	43.80	2365.	48.73	19750.
Stddev	2473.	7.	.72	35.	.48	201.
%RSD	5.494	.4108	1.651	1.474	.9877	1.016

#1	42600.	1789.	43.46	2331.	48.21	19550.
#2	44910.	1797.	43.31	2362.	48.82	19750.
#3	47540.	1804.	44.63	2401.	49.16	19950.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.47	504.4	325.7	287.7	105700.	40370.
Stddev	.36	3.9	8.5	4.9	5471.	1339.
%RSD	.7987	.7769	2.616	1.689	5.174	3.316

#1	45.08	500.6	318.5	283.7	100400.	39070.
#2	45.52	504.1	323.6	286.4	105600.	40310.
#3	45.80	508.4	335.1	293.1	111300.	41740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34090.	1557.	17770.	539.6	498.8	436.7
Stddev	953.	61.	152.	3.9	5.5	2.2
%RSD	2.794	3.930	.8578	.7310	1.107	.5009

#1	33150.	1497.	17620.	535.2	492.6	434.3
#2	34050.	1555.	17760.	541.0	500.9	438.7
#3	35060.	1619.	17930.	542.7	503.0	437.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111935-A-1-B Acquired: 4/13/2016 15:01:33 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1754.	1946.	694.5	603.6	468.0	466.6
Stddev	12.	15.	14.9	10.6	2.1	3.8
%RSD	.6622	.7885	2.143	1.757	.4418	.8183
#1	1741.	1929.	681.3	592.4	466.3	462.7
#2	1756.	1952.	691.7	605.1	467.3	466.8
#3	1764.	1958.	710.7	613.4	470.3	470.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	479.5	478.2	7032.	784.9
Stddev	4.0	3.7	351.	50.4
%RSD	.8445	.7798	4.989	6.419
#1	476.2	474.8	6686.	734.3
#2	478.3	477.6	7021.	785.4
#3	484.0	482.2	7388.	835.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3171.5	39729.	5969.7
Stddev	5.8	83.	39.9
%RSD	.18148	.21000	.66786
#1	3178.1	39806.	6013.1
#2	3167.5	39741.	5961.5
#3	3168.9	39640.	5934.7

Sample Name: 460-112001-B-1-A@4 Acquired: 4/13/2016 15:05:18 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46060.	27.72	-.0708	240.2	1.702	5306.
Stddev	126.	.96	.2802	.7	.022	25.
%RSD	.2741	3.457	395.7	.2905	1.308	.4630

#1	46210.	27.97	-.3178	239.4	1.676	5287.
#2	46000.	28.53	-.1282	240.6	1.713	5297.
#3	45980.	26.66	.2336	240.7	1.717	5334.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.660	21.74	69.29	70.19	67700.	1462.
Stddev	.030	.16	.51	.18	107.	24.
%RSD	1.117	.7521	.7404	.2517	.1587	1.639

#1	2.636	21.86	68.90	70.02	67810.	1487.
#2	2.651	21.55	69.09	70.18	67590.	1440.
#3	2.693	21.79	69.87	70.37	67710.	1458.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6494.	1124.	120.0	54.89	113.4	1.023
Stddev	19.	1.	6.9	.15	2.4	.749
%RSD	.2897	.1242	5.769	.2761	2.135	73.19

#1	6482.	1123.	127.5	54.90	116.1	.5107
#2	6484.	1122.	118.9	54.73	112.7	1.883
#3	6516.	1125.	113.8	55.03	111.4	.6762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112001-B-1-A@4 Acquired: 4/13/2016 15:05:18 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.702	-1.590	84.83	380.3	3.511	1.854
Stddev	2.241	.559	.16	1.3	.058	.240
%RSD	82.95	35.15	.1921	.3408	1.644	12.92
#1	5.036	-.9447	84.96	379.2	3.527	1.869
#2	.5663	-1.917	84.88	380.0	3.447	2.086
#3	2.504	-1.909	84.65	381.7	3.559	1.608

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.529	38.71	864.1	1269.
Stddev	1.003	.04	.3	7.
%RSD	22.15	.1112	.0300	.5155
#1	5.626	38.67	863.9	1266.
#2	3.658	38.71	864.2	1277.
#3	4.303	38.76	864.4	1265.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3252.2	40883.	6192.8
Stddev	28.5	424.	85.7
%RSD	.87724	1.0373	1.3842
#1	3219.5	40394.	6094.6
#2	3264.8	41112.	6231.2
#3	3272.2	41144.	6252.6

Sample Name: 460-112001-B-3-A@4 Acquired: 4/13/2016 15:13:13 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45340.	16.12	-7358	276.2	1.763	4590.
Stddev	208.	2.63	.1815	.5	.036	21.
%RSD	.4590	16.29	24.66	.1747	2.027	.4514

#1	45490.	19.15	-.5366	276.5	1.764	4568.
#2	45100.	14.80	-.7789	275.6	1.798	4609.
#3	45420.	14.42	-.8917	276.4	1.727	4593.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5135	23.12	70.35	48.93	63790.	1583.
Stddev	.0609	.16	1.40	.39	183.	16.
%RSD	11.87	.6760	1.987	.7989	.2863	1.000

#1	.4496	23.27	68.81	49.05	63580.	1565.
#2	.5199	22.96	70.69	48.49	63830.	1594.
#3	.5709	23.14	71.54	49.25	63940.	1591.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7041.	966.4	113.7	65.86	276.2	2.758
Stddev	38.	4.6	3.7	.43	.7	1.090
%RSD	.5348	.4811	3.278	.6536	.2617	39.53

#1	6998.	962.0	116.5	66.21	275.7	2.499
#2	7056.	965.9	115.2	65.38	275.8	3.955
#3	7069.	971.2	109.5	65.99	277.0	1.821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112001-B-3-A@4 Acquired: 4/13/2016 15:13:13 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.724	-2.266	80.10	548.2	3.830	1.473
Stddev	3.149	1.196	.50	1.1	.355	.354
%RSD	66.67	52.79	.6290	.2030	9.267	24.06
#1	2.593	-1.092	79.55	549.4	3.721	1.678
#2	8.341	-2.223	80.54	547.6	4.226	1.064
#3	3.237	-3.484	80.21	547.4	3.542	1.676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.721	35.49	950.4	1027.
Stddev	.689	.19	3.0	21.
%RSD	18.52	.5488	.3175	2.091
#1	3.916	35.46	947.2	1005.
#2	2.955	35.32	950.8	1047.
#3	4.292	35.70	953.2	1030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3253.6	40860.	6109.6
Stddev	10.7	98.	39.5
%RSD	.32901	.23951	.64611
#1	3242.9	40942.	6069.9
#2	3264.3	40887.	6148.9
#3	3253.6	40752.	6110.0

Sample Name: 460-111933-A-1-B@4 Acquired: 4/13/2016 15:21:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61830.	35.37	-.8418	462.0	6.446	27410.
Stddev	492.	.71	.0681	3.3	.092	278.
%RSD	.7958	2.010	8.089	.7171	1.421	1.016

#1	61320.	35.97	-.9031	458.4	6.365	27170.
#2	61880.	34.58	-.7685	463.0	6.428	27330.
#3	62300.	35.57	-.8539	464.8	6.546	27710.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.541	57.35	145.7	73.12	166900.	3369.
Stddev	.158	.27	1.6	.23	1463.	46.
%RSD	6.221	.4622	1.098	.3104	.8762	1.373

#1	-2.393	57.14	144.4	72.87	165400.	3316.
#2	-2.708	57.27	145.3	73.31	167100.	3385.
#3	-2.523	57.65	147.5	73.17	168300.	3404.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23590.	5322.	390.8	76.79	123.2	2.027
Stddev	199.	52.	6.5	.19	2.0	1.308
%RSD	.8416	.9812	1.671	.2473	1.605	64.53

#1	23380.	5271.	383.4	76.78	121.6	.8328
#2	23610.	5321.	393.6	76.99	125.4	1.824
#3	23770.	5375.	395.6	76.61	122.6	3.425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111933-A-1-B@4 Acquired: 4/13/2016 15:21:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.10	-1.510	232.2	237.8	.2300	3.238
Stddev	3.13	2.519	2.1	1.3	.2053	.062
%RSD	23.86	166.8	.9049	.5442	89.24	1.924
#1	9.535	.2786	230.3	236.9	.4100	3.181
#2	15.38	-4.391	231.7	237.2	.2736	3.229
#3	14.37	-4.191	234.4	239.2	.0065	3.305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.490	42.65	1363.	1872.
Stddev	.283	.45	12.	10.
%RSD	2.986	1.057	.8860	.5253
#1	9.793	42.15	1350.	1868.
#2	9.231	42.81	1364.	1865.
#3	9.446	43.01	1374.	1883.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3348.1	42155.	6353.2
Stddev	23.0	112.	30.6
%RSD	.68824	.26515	.48176
#1	3322.7	42051.	6319.1
#2	3354.0	42273.	6378.2
#3	3367.6	42140.	6362.4

Sample Name: 460-111932-C-22-A@4 Acquired: 4/13/2016 15:29:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1253.	.6208	.6222	4.636	.0331	3738.
Stddev	5.	1.279	.3927	.102	.0404	27.
%RSD	.4018	206.1	63.12	2.211	122.1	.7283

#1	1253.	1.700	1.068	4.748	.0387	3707.
#2	1248.	.9540	.3287	4.613	-.0098	3752.
#3	1258.	-.7920	.4696	4.546	.0703	3756.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3567	.0829	12.81	1.450	9006.	70.18
Stddev	.1357	.0777	.46	.158	66.	10.69
%RSD	38.04	93.75	3.563	10.88	.7346	15.23

#1	-.4654	.0359	12.38	1.334	8930.	67.79
#2	-.2046	.0401	13.28	1.386	9051.	81.86
#3	-.4003	.1725	12.76	1.630	9037.	60.88

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2108.	16.50	34.27	.3455	6.633	.9696
Stddev	24.	.04	.72	.0949	.341	.4951
%RSD	1.136	.2120	2.110	27.47	5.144	51.06

#1	2080.	16.47	34.96	.4345	6.292	1.111
#2	2125.	16.51	34.34	.3563	6.632	.4194
#3	2118.	16.54	33.52	.2456	6.975	1.379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111932-C-22-A@4 Acquired: 4/13/2016 15:29:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0064	-2.150	9.131	3.112	-.0294	.2970
Stddev	1.995	1.729	.620	.122	.2579	.0721
%RSD	30980.	80.40	6.788	3.928	876.6	24.26
#1	2.218	-2.461	8.456	2.971	.0005	.2433
#2	-.6032	-.2870	9.675	3.180	.2122	.3789
#3	-1.635	-3.702	9.263	3.185	-.3010	.2688

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1157	2.830	167.2	426.4
Stddev	.2989	.059	.7	20.2
%RSD	258.3	2.080	.4375	4.737
#1	-.0200	2.897	166.4	403.8
#2	.4585	2.791	167.2	442.7
#3	-.0913	2.801	167.9	432.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3169.5	39713.	5813.3
Stddev	6.5	161.	23.5
%RSD	.20579	.40473	.40504
#1	3177.0	39894.	5793.4
#2	3165.4	39587.	5839.3
#3	3166.1	39658.	5807.3

Sample Name: CCV Acquired: 4/13/2016 15:37:07 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120700.	2504.	1239.	10240.	983.6	127300.
Stddev	1544.	8.	8.	47.	10.4	475.
%RSD	1.280	.3050	.6330	.4580	1.056	.3733

#1	122300.	2510.	1243.	10300.	993.9	127300.
#2	120600.	2506.	1244.	10220.	983.7	127800.
#3	119200.	2495.	1230.	10210.	973.1	126800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1261.	2518.	5133.	12590.	99420.	49250.
Stddev	7.	12.	24.	72.	592.	348.
%RSD	.5462	.4862	.4704	.5681	.5955	.7057

#1	1268.	2531.	5135.	12610.	99950.	49500.
#2	1260.	2513.	5156.	12660.	99520.	49390.
#3	1254.	2508.	5107.	12520.	98780.	48850.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123400.	5133.	120400.	2555.	7433.	983.6
Stddev	501.	23.	1213.	14.	53.	7.5
%RSD	.4059	.4440	1.007	.5285	.7087	.7584

#1	123700.	5137.	121600.	2570.	7492.	991.1
#2	123600.	5153.	120500.	2552.	7413.	983.4
#3	122800.	5108.	119200.	2544.	7392.	976.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 15:37:07 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2406.	2553.	2530.	2495.	1011.	2534.
Stddev	25.	19.	11.	17.	8.	11.
%RSD	1.049	.7624	.4454	.6765	.7493	.4406

#1	2428.	2566.	2534.	2514.	1017.	2545.
#2	2410.	2563.	2538.	2489.	1013.	2535.
#3	2379.	2531.	2517.	2483.	1002.	2522.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1016.	5019.	9945.	9684.
Stddev	6.	34.	40.	82.
%RSD	.6021	.6725	.3992	.8427

#1	1023.	5051.	9984.	9769.
#2	1014.	5022.	9905.	9675.
#3	1012.	4984.	9946.	9607.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3015.2	38283.	5889.0
Stddev	17.3	66.	49.5
%RSD	.57244	.17229	.84130

#1	2995.9	38226.	5835.8
#2	3020.5	38269.	5897.5
#3	3029.1	38355.	5933.8

Sample Name: CCB Acquired: 4/13/2016 15:40:57 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.276	-1.604	.3627	.8427	-.0316	-28.61
Stddev	11.14	.996	.1481	1.137	.0735	4.37
%RSD	153.0	62.11	40.82	135.0	232.6	15.28
#1	-19.44	-.4934	.4094	.0462	-.0335	-33.64
#2	2.421	-1.901	.1970	.3366	.0428	-25.73
#3	-4.812	-2.419	.4818	2.145	-.1042	-26.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0631	.0286	-.2223	-.6063	-.0629	1.581
Stddev	.1127	.3354	.1113	.1915	13.37	10.86
%RSD	178.7	1172.	50.07	31.58	21240.	686.8
#1	-.1833	-.2175	-.1807	-.6348	12.50	11.67
#2	-.0463	-.1073	-.3484	-.4022	1.420	-9.911
#3	.0403	.4106	-.1378	-.7819	-14.11	2.986

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.763	.0568	10.76	-.1776	-1.417	1.011
Stddev	3.469	.0640	3.32	.2383	1.593	1.436
%RSD	196.8	112.6	30.87	134.2	112.4	142.0
#1	4.029	.0741	11.07	-.2779	-1.574	2.305
#2	3.491	.1103	13.92	-.3493	-2.926	-.5336
#3	-2.231	-.0140	7.295	.0944	.2485	1.261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 15:40:57 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.682	-.3952	-.1189	-.0414	.2649	.9446
Stddev	1.238	.5319	.1903	.2584	.3175	.1973
%RSD	33.61	134.6	160.1	624.7	119.9	20.89
#1	-3.429	.0468	.1008	-.1620	.5643	1.135
#2	-5.027	-.9855	-.2335	-.2173	.2984	.7407
#3	-2.591	-.2469	-.2239	.2553	-.0681	.9585

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0823	.0519	.1882	13.03
Stddev	1.426	.0594	.1354	9.60
%RSD	1732.	114.3	71.94	73.71
#1	.9911	.0110	.3423	8.361
#2	-1.561	.1200	.1343	6.653
#3	.8170	.0247	.0880	24.07

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3224.2	40455.	6033.7
Stddev	17.5	274.	25.1
%RSD	.54288	.67814	.41565
#1	3236.0	40729.	6048.3
#2	3232.5	40457.	6048.1
#3	3204.1	40180.	6004.8

Sample Name: CCVL Acquired: 4/13/2016 15:45:05 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.8	13.62	9.922	214.0	2.018	5188.
Stddev	9.5	.62	.325	.5	.104	20.
%RSD	4.693	4.580	3.276	.2111	5.166	.3887

#1	197.3	13.35	9.620	213.6	1.910	5178.
#2	213.8	13.17	9.879	214.5	2.118	5175.
#3	197.3	14.33	10.27	213.9	2.025	5212.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.002	53.29	10.59	24.32	151.8	4814.
Stddev	.076	.18	.57	.21	7.1	69.
%RSD	1.908	.3319	5.349	.8751	4.702	1.438

#1	3.954	53.50	10.83	24.17	143.6	4766.
#2	3.962	53.18	9.942	24.56	156.7	4894.
#3	4.090	53.20	10.99	24.22	155.1	4783.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4847.	16.23	4732.	43.22	9.295	18.97
Stddev	19.	.15	20.	.41	1.414	1.53
%RSD	.3867	.8958	.4173	.9448	15.21	8.093

#1	4829.	16.06	4735.	43.67	8.619	20.48
#2	4845.	16.32	4749.	42.89	8.346	19.02
#3	4866.	16.30	4710.	43.09	10.92	17.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 15:45:05 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.41	21.10	51.37	31.59	50.14	19.91
Stddev	3.24	.45	.38	.09	.27	.16
%RSD	19.72	2.140	.7323	.2983	.5296	.7896

#1	16.95	21.45	50.97	31.68	50.12	20.00
#2	19.35	21.26	51.42	31.49	50.42	20.00
#3	12.94	20.59	51.71	31.58	49.89	19.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.50	20.60	20.54	F 15.76
Stddev	.52	.06	.09	21.59
%RSD	1.002	.2720	.4407	137.0

#1	51.78	20.55	20.49	-9.158
#2	51.82	20.66	20.65	27.61
#3	50.91	20.60	20.49	28.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3172.1	39737.	5904.8
Stddev	2.9	64.	76.4
%RSD	.09249	.16080	1.2944

#1	3171.2	39753.	5984.5
#2	3169.7	39667.	5832.1
#3	3175.3	39792.	5898.0

Sample Name: scan Acquired: 4/13/2016 15:58:19 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24270.	F 441.3	F 96.02	F 673.9	F 303.4	F 18160.
Stddev	146.	1.3	.85	1.9	1.5	237.
%RSD	.6024	.2958	.8861	.2864	.4811	1.302

#1	24100.	440.0	95.28	672.4	301.8	17950.
#2	24330.	442.6	95.82	673.1	304.5	18130.
#3	24380.	441.2	96.95	676.1	304.1	18410.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		880.0	195.5	1225.	570.0	33800.
Low Limit		575.0	117.5	870.0	402.0	23050.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 287.6	F 529.2	F 482.1	F 545.7	53700.	F 7232.
Stddev	1.1	2.0	2.1	1.0	388.	42.
%RSD	.3855	.3748	.4253	.1858	.7218	.5857

#1	287.0	527.4	479.9	544.6	53350.	7184.
#2	286.9	528.8	482.5	546.1	53630.	7246.
#3	288.8	531.3	483.9	546.5	54110.	7265.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	515.0	890.0	855.0	1020.		15400.
Low Limit	362.0	645.0	570.0	705.0		8600.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 7970.	F 1045.	F 2542.	F 457.5	F 472.3	346.1
Stddev	110.	9.	14.	.8	4.2	1.7
%RSD	1.380	.8953	.5555	.1756	.8897	.4819

#1	7861.	1036.	2529.	456.9	468.1	346.4
#2	7968.	1045.	2539.	457.3	472.2	344.3
#3	8081.	1055.	2557.	458.4	476.5	347.6

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	16300.	1835.	5500.	755.0	865.0	
Low Limit	10100.	1260.	3160.	535.0	595.0	

Sample Name: scan Acquired: 4/13/2016 15:58:19 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 543.6	F 489.1	378.9	F 634.7	F 428.6	F 401.4
Stddev	3.9	1.8	2.7	4.1	2.0	1.8
%RSD	.7217	.3689	.7216	.6507	.4738	.4586
#1	548.0	487.7	375.9	631.8	428.9	400.0
#2	540.4	488.5	379.8	632.9	426.4	400.8
#3	542.3	491.1	381.1	639.4	430.4	403.5
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	1080.	855.0		1115.	800.0	705.0
Low Limit	700.0	560.0		795.0	459.0	457.5

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	564.7	F 325.3	1105.	2558.
Stddev	2.6	1.3	7.	20.
%RSD	.4569	.3991	.6390	.7849
#1	562.0	323.8	1098.	2561.
#2	565.0	325.8	1105.	2576.
#3	567.1	326.2	1112.	2536.
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		630.0		
Low Limit		423.0		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3243.2	40871.	6112.8
Stddev	13.5	203.	57.4
%RSD	.41577	.49622	.93980
#1	3232.0	40931.	6131.0
#2	3258.2	41037.	6159.0
#3	3239.6	40645.	6048.5

Sample Name: 460-111336-A-4-B@10 Acquired: 4/13/2016 16:06:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5309.	58.51	-.2529	105.4	.6413	2050.
Stddev	20.	.93	.2565	.7	.0955	18.
%RSD	.3740	1.590	101.4	.6766	14.90	.8687
#1	5289.	57.44	-.5313	104.6	.5384	2035.
#2	5328.	59.12	-.2012	105.5	.7273	2047.
#3	5311.	58.98	-.0263	106.0	.6583	2070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.651	16.00	30.12	155.4	150300.	310.9
Stddev	.103	.32	.58	1.3	342.	3.2
%RSD	3.894	2.027	1.920	.8144	.2274	1.015
#1	-2.767	15.85	29.59	153.9	149900.	313.6
#2	-2.569	15.77	30.04	155.9	150200.	307.4
#3	-2.618	16.37	30.74	156.3	150600.	311.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	897.8	613.9	62.06	35.01	133.1	6.502
Stddev	3.3	2.9	7.51	.51	2.3	.374
%RSD	.3683	.4731	12.10	1.469	1.759	5.745
#1	896.6	611.6	54.76	34.72	130.9	6.118
#2	895.3	613.0	61.66	34.71	132.8	6.524
#3	901.6	617.1	69.77	35.61	135.6	6.864

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111336-A-4-B@10 Acquired: 4/13/2016 16:06:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.94	-2019	24.31	73.50	-3.374	10.94
Stddev	3.44	1.505	.80	.66	.343	.12
%RSD	24.67	745.2	3.292	.8939	10.17	1.060
#1	12.11	.7872	24.01	72.81	-3.007	10.84
#2	11.79	-1.933	25.22	73.59	-3.686	11.07
#3	17.90	.5404	23.70	74.11	-3.428	10.90

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.56	15.63	633.3	337.0
Stddev	.60	.06	2.3	3.4
%RSD	3.838	.3880	.3594	1.001
#1	15.33	15.57	631.1	333.2
#2	16.24	15.61	633.3	339.6
#3	15.11	15.69	635.6	338.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3189.5	39945.	5909.0
Stddev	16.0	295.	86.1
%RSD	.50284	.73864	1.4570
#1	3171.6	39626.	5816.2
#2	3194.6	40000.	5924.5
#3	3202.5	40208.	5986.3

Sample Name: 460-111929-F-1-A@2 Acquired: 4/13/2016 16:14:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.58	-1.350	.3516	40.10	-.0120	27280.
Stddev	1.72	1.628	.7588	.21	.0317	65.
%RSD	4.829	120.6	215.8	.5315	264.2	.2374
#1	33.71	-3.226	.6043	40.12	.0124	27210.
#2	35.95	-.5136	-.5013	40.30	-.0479	27300.
#3	37.08	-.3099	.9518	39.87	-.0006	27340.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2157	.0528	-.3946	-.1955	10.13	2802.
Stddev	.0608	.2003	.4059	.2032	7.54	32.
%RSD	28.18	379.3	102.9	104.0	74.41	1.130
#1	-.2421	-.1175	.0064	-.4075	11.96	2766.
#2	-.2588	.2736	-.8052	-.1767	1.845	2828.
#3	-.1462	.0023	-.3851	-.0023	16.59	2811.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7400.	159.1	69950.	-.0043	-.0446	1.106
Stddev	57.	.1	362.	.1511	2.768	1.198
%RSD	.7731	.0553	.5172	3494.	6209.	108.3
#1	7342.	159.1	69540.	-.1742	1.407	-.2766
#2	7402.	159.1	70210.	.1154	-3.237	1.756
#3	7456.	159.2	70110.	.0457	1.696	1.838

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-111929-F-1-A@2 Acquired: 4/13/2016 16:14:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.279	.0388	.3221	1.690	39.30	-.7909
Stddev	2.408	1.161	.1287	.120	.59	.1169
%RSD	56.29	2990.	39.96	7.116	1.514	14.78
#1	-1.592	.7476	.2138	1.757	39.10	-.7301
#2	-4.999	-1.300	.2880	1.761	39.97	-.7169
#3	-6.244	.6693	.4644	1.551	38.83	-.9257

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1561	155.8	1.166	2071.
Stddev	.3897	.2	.141	33.
%RSD	249.6	.1498	12.09	1.588
#1	.2608	156.1	1.091	2044.
#2	.4828	155.7	1.078	2061.
#3	-.2753	155.7	1.328	2108.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3091.6	38505.	5787.4
Stddev	11.8	96.	41.0
%RSD	.38271	.24880	.70871
#1	3085.4	38615.	5763.6
#2	3084.3	38462.	5763.8
#3	3105.3	38438.	5834.7

Sample Name: 460-111929-F-1-C MS Acquired: 4/13/2016 16:22:23 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	413.6	385.2	9.762	448.8	9.829	30930.
Stddev	11.6	1.3	.171	.8	.125	122.
%RSD	2.795	.3331	1.755	.1887	1.270	.3936
#1	412.0	384.6	9.595	449.7	9.795	30820.
#2	402.9	386.7	9.754	448.0	9.967	31060.
#3	425.9	384.4	9.937	448.7	9.724	30900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.976	101.3	42.21	48.53	205.6	6376.
Stddev	.145	.3	.10	.37	5.2	57.
%RSD	1.457	.3450	.2425	.7538	2.534	.8924
#1	9.821	101.1	42.25	48.39	208.2	6311.
#2	10.11	101.1	42.10	48.94	209.0	6417.
#3	9.997	101.7	42.29	48.25	199.6	6400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11010.	259.5	73620.	104.5	97.60	94.88
Stddev	23.	.8	397.	.3	1.57	.72
%RSD	.2085	.3043	.5388	.2852	1.612	.7562
#1	11010.	258.6	73160.	104.9	98.99	95.62
#2	11030.	260.1	73880.	104.5	95.89	94.18
#3	10990.	259.7	73820.	104.3	97.93	94.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111929-F-1-C MS Acquired: 4/13/2016 16:22:23 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	372.5	420.9	101.7	103.8	139.9	99.15
Stddev	2.8	1.8	.7	.4	.2	.12
%RSD	.7558	.4316	.6798	.3503	.1754	.1187
#1	371.4	422.5	101.0	103.5	140.0	99.14
#2	370.4	418.9	102.0	103.8	139.7	99.27
#3	375.7	421.1	102.3	104.2	140.2	99.04

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	102.5	253.3	101.0	2090.
Stddev	.5	1.7	.4	14.
%RSD	.4942	.6776	.3855	.6836
#1	102.3	251.4	100.6	2104.
#2	103.0	253.7	100.9	2075.
#3	102.1	254.7	101.4	2091.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3104.2	38655.	5806.8
Stddev	4.5	166.	64.6
%RSD	.14339	.43031	1.1122
#1	3100.0	38753.	5861.2
#2	3108.9	38463.	5735.4
#3	3103.8	38748.	5823.8

Sample Name: 460-111972-E-2-B@4 Acquired: 4/13/2016 16:30:11 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8016.	46.07	-5652	34.38	.3138	409.3
Stddev	55.	1.75	.4068	.08	.1264	7.5
%RSD	.6836	3.810	71.97	.2360	40.27	1.826

#1	7953.	44.69	-.5392	34.45	.4580	400.8
#2	8036.	45.47	-.1721	34.29	.2224	412.3
#3	8057.	48.04	-.9844	34.40	.2610	414.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8015	1.131	37.24	13.89	28430.	2139.
Stddev	.1758	.216	.47	.39	122.	33.
%RSD	21.93	19.08	1.262	2.773	.4273	1.549

#1	-.6740	1.380	37.30	13.45	28360.	2113.
#2	-1.002	1.016	36.74	14.06	28360.	2128.
#3	-.7284	.9978	37.68	14.17	28570.	2176.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	659.4	34.89	82.20	4.297	15.52	1.767
Stddev	6.5	.21	9.53	.653	.57	1.548
%RSD	.9787	.6149	11.59	15.21	3.656	87.58

#1	654.0	34.95	92.48	4.225	16.07	2.771
#2	657.6	34.65	80.42	4.984	14.93	-.0152
#3	666.6	35.06	73.68	3.683	15.57	2.545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-2-B@4 Acquired: 4/13/2016 16:30:11 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.412	-1.268	38.61	14.52	6.402	2.244
Stddev	4.070	.514	.18	.26	.600	.012
%RSD	168.8	40.53	.4746	1.815	9.376	.5112
#1	-0.8902	-1.860	38.40	14.31	6.169	2.254
#2	1.167	-0.9360	38.76	14.82	7.084	2.246
#3	6.959	-1.009	38.66	14.43	5.953	2.232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9212	8.855	181.7	1372.
Stddev	.4840	.126	.5	18.
%RSD	52.54	1.418	.2911	1.334
#1	.5249	8.840	181.1	1361.
#2	1.461	8.738	181.8	1361.
#3	.7781	8.988	182.2	1393.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3166.0	39848.	6011.0
Stddev	4.5	282.	10.0
%RSD	.14201	.70774	.16566
#1	3161.5	39616.	5999.6
#2	3166.0	40161.	6017.6
#3	3170.5	39766.	6015.9

Sample Name: 460-111336-A-2-B@10 Acquired: 4/13/2016 16:02:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40120.	9.879	-5858	248.4	2.381	4859.
Stddev	520.	2.589	.3248	2.2	.032	76.
%RSD	1.296	26.21	55.44	.9037	1.360	1.561

#1	39600.	7.686	-.6896	246.1	2.345	4783.
#2	40110.	9.215	-.2218	248.4	2.406	4858.
#3	40640.	12.74	-.8460	250.6	2.393	4935.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.625	29.19	68.01	67.39	89110.	3267.
Stddev	.033	.07	1.25	1.27	858.	48.
%RSD	2.005	.2346	1.843	1.881	.9627	1.457

#1	-1.595	29.11	66.79	66.00	88220.	3213.
#2	-1.660	29.24	67.95	67.69	89190.	3304.
#3	-1.622	29.22	69.30	68.48	89930.	3283.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13430.	993.8	314.8	66.05	31.93	1.790
Stddev	151.	12.7	9.3	.82	.55	1.029
%RSD	1.121	1.281	2.969	1.244	1.726	57.47

#1	13280.	981.0	304.1	65.35	32.56	2.749
#2	13450.	993.9	319.1	65.86	31.55	.7037
#3	13570.	1006.	321.3	66.96	31.67	1.918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111336-A-2-B@10 Acquired: 4/13/2016 16:02:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.727	-1.362	92.88	138.1	9.676	.9579
Stddev	1.374	2.142	1.46	2.2	.159	.0561
%RSD	24.00	157.3	1.577	1.608	1.644	5.854
#1	6.889	-3.478	91.28	135.6	9.521	1.019
#2	4.210	-1.415	93.20	138.9	9.667	.9467
#3	6.082	.8059	94.16	139.9	9.839	.9083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.858	34.14	924.8	357.0
Stddev	.328	.38	10.1	26.8
%RSD	11.48	1.125	1.092	7.510
#1	2.745	33.78	914.4	336.1
#2	3.227	34.09	925.4	347.8
#3	2.601	34.55	934.6	387.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3270.9	40817.	6087.9
Stddev	12.8	124.	25.1
%RSD	.39130	.30452	.41183
#1	3275.4	40958.	6111.4
#2	3256.4	40768.	6061.5
#3	3280.8	40724.	6090.8

Sample Name: 460-111929-F-1-B DU Acquired: 4/13/2016 16:10:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.05	-1.811	.2301	40.03	-.0184	26850.
Stddev	8.80	.550	.3192	.22	.1497	11.
%RSD	19.98	30.38	138.7	.5498	813.2	.0394
#1	35.63	-2.297	.0999	39.78	-.0988	26850.
#2	53.19	-1.923	.5939	40.17	.1543	26860.
#3	43.33	-1.214	-.0035	40.15	-.1107	26840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2157	-.0576	-.2606	-.3958	12.11	2816.
Stddev	.0866	.0786	.3722	.3756	9.50	30.
%RSD	40.16	136.4	142.8	94.92	78.41	1.081
#1	-.1162	.0194	-.3832	-.3481	11.19	2832.
#2	-.2572	-.0545	.1575	-.0462	22.03	2835.
#3	-.2739	-.1377	-.5559	-.7929	3.107	2781.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7292.	156.8	70070.	-.0085	-1.804	.8371
Stddev	33.	.4	290.	.1805	.526	.4033
%RSD	.4582	.2354	.4135	2126.	29.15	48.18
#1	7328.	156.7	70410.	.0035	-2.407	1.233
#2	7287.	156.4	69900.	.1657	-1.444	.4270
#3	7262.	157.1	69910.	-.1947	-1.561	.8511

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111929-F-1-B DU Acquired: 4/13/2016 16:10:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.208	-.1588	-.0883	1.474	38.80	-.4665
Stddev	1.652	.7273	.3921	.104	.96	.2495
%RSD	51.50	458.1	444.0	7.041	2.478	53.49
#1	-2.030	-.7348	.3641	1.577	37.69	-.4665
#2	-2.499	.6585	-.3286	1.369	39.46	-.2170
#3	-5.097	-.4000	-.3005	1.475	39.24	-.7161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4314	155.9	.9603	2079.
Stddev	.4494	.4	.1531	10.
%RSD	104.2	.2701	15.95	.4609
#1	-.9503	155.5	1.105	2072.
#2	-.1701	156.3	.9767	2075.
#3	-.1737	155.9	.7996	2090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3137.7	39401.	5917.9
Stddev	19.5	105.	22.3
%RSD	.62180	.26716	.37682
#1	3151.7	39492.	5929.8
#2	3146.1	39286.	5931.8
#3	3115.4	39425.	5892.2

Sample Name: CCB Acquired: 4/13/2016 16:42:10 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.979	.3739	-.0109	.2780	-.0386	-26.57
Stddev	7.305	.1675	.3630	.1983	.0250	5.39
%RSD	81.35	44.79	3340.	71.36	64.72	20.29
#1	-.8133	.4314	.3946	.1870	-.0673	-32.41
#2	-14.89	.5052	-.3058	.1414	-.0266	-25.54
#3	-11.23	.1853	-.1214	.5055	-.0219	-21.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1104	.1206	-.5161	-.2931	-.5364	3.584
Stddev	.0423	.2462	.6205	.2932	3.330	13.37
%RSD	38.31	204.1	120.2	100.0	620.8	373.2
#1	-.1193	-.1637	-.7974	-.0556	-.9363	3.103
#2	-.1475	.2590	-.9461	-.6208	2.976	-9.543
#3	-.0644	.2665	.1953	-.2030	-3.649	17.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.085	.0849	12.25	-.1039	-.5175	.5782
Stddev	2.062	.0622	3.86	.1072	.7759	.9554
%RSD	190.2	73.18	31.49	103.2	149.9	165.2
#1	.7436	.1554	13.38	-.2150	-.0270	.0426
#2	-3.320	.0617	15.41	-.0011	-1.412	1.681
#3	-.6769	.0378	7.950	-.0956	-1.1136	.0108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 16:42:10 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.038	-.4782	-.0040	-.0991	.1417	.7189
Stddev	1.207	.4294	.2313	.0555	.2905	.4262
%RSD	116.2	89.81	5760.	56.05	205.0	59.28
#1	-2.345	-.6950	-.0867	-.0359	.4006	1.201
#2	.0353	.0165	-.1827	-.1212	-.1725	.5639
#3	-.8059	-.7560	.2573	-.1402	.1970	.3919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2781	-.0232	.3118	6.356
Stddev	.8047	.0903	.2332	3.662
%RSD	289.3	389.3	74.80	57.61
#1	.0056	.0031	.4868	10.19
#2	-.3549	.0510	.4015	5.979
#3	1.184	-.1237	.0470	2.898

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3168.3	39615.	5812.7
Stddev	18.9	75.	40.3
%RSD	.59514	.18810	.69382
#1	3178.4	39620.	5803.7
#2	3180.1	39539.	5856.8
#3	3146.6	39687.	5777.6

Sample Name: 460-111972-E-6-B@4 Acquired: 4/13/2016 16:58:38 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6667.	22.59	.1455	22.76	.2140	615.8
Stddev	4.	1.22	.3271	.24	.0780	3.6
%RSD	.0601	5.395	224.9	1.065	36.44	.5794
#1	6664.	21.27	.1059	22.98	.1251	618.6
#2	6672.	22.83	.4906	22.50	.2709	616.9
#3	6666.	23.67	-.1601	22.79	.2460	611.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5793	.6236	22.52	10.32	16770.	1484.
Stddev	.1156	.2767	.43	.09	54.	5.
%RSD	19.95	44.38	1.891	.8617	.3213	.3659
#1	-.4883	.7764	22.42	10.25	16780.	1483.
#2	-.7093	.3041	22.15	10.42	16820.	1479.
#3	-.5403	.7902	22.99	10.27	16710.	1490.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	571.2	15.79	44.81	1.630	9.734	.9140
Stddev	2.4	.10	7.24	.593	.849	.0181
%RSD	.4152	.6589	16.15	36.38	8.720	1.982
#1	569.1	15.81	52.71	1.821	8.906	.9324
#2	573.8	15.88	43.24	.9652	10.60	.8962
#3	570.6	15.67	38.49	2.104	9.693	.9135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-6-B@4 Acquired: 4/13/2016 16:58:38 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.374	-2.849	27.95	10.69	4.761	1.106
Stddev	.916	2.134	.24	.15	.507	.092
%RSD	66.69	74.90	.8554	1.392	10.66	8.352
#1	-2.354	-4.051	28.10	10.86	4.814	1.052
#2	-1.229	-4.110	27.68	10.64	5.240	1.054
#3	-.5386	-.3852	28.08	10.58	4.229	1.213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5858	9.191	137.9	1292.
Stddev	.7374	.035	.8	6.
%RSD	125.9	.3863	.5489	.4615
#1	1.203	9.218	137.7	1286.
#2	.7845	9.151	138.7	1296.
#3	-.2306	9.205	137.3	1296.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3096.3	38821.	5804.5
Stddev	18.3	285.	41.1
%RSD	.59227	.73372	.70793
#1	3083.0	38544.	5784.2
#2	3088.8	38807.	5777.6
#3	3117.3	39113.	5851.8

Sample Name: 460-111972-E-7-B@4 Acquired: 4/13/2016 17:02:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6076.	23.15	-0.869	20.69	.1306	553.0
Stddev	47.	.86	.1288	.14	.0073	2.8
%RSD	.7723	3.736	148.2	.6709	5.568	.5064

#1	6130.	22.20	.0252	20.82	.1297	552.6
#2	6049.	23.91	-.0584	20.72	.1239	556.0
#3	6049.	23.33	-.2276	20.54	.1384	550.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5781	.5579	20.87	9.341	15140.	1381.
Stddev	.0621	.1546	.30	.364	21.	18.
%RSD	10.73	27.71	1.433	3.893	.1405	1.319

#1	-.5985	.6811	20.53	9.718	15160.	1362.
#2	-.5084	.3844	20.96	8.993	15110.	1398.
#3	-.6274	.6083	21.11	9.312	15130.	1383.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	515.3	14.30	43.63	1.466	7.260	1.205
Stddev	6.2	.05	3.82	.378	2.684	1.543
%RSD	1.202	.3217	8.747	25.76	36.97	128.1

#1	520.9	14.33	48.03	1.320	4.389	1.310
#2	508.7	14.33	41.17	1.895	9.707	-.3887
#3	516.4	14.25	41.69	1.183	7.685	2.693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-7-B@4 Acquired: 4/13/2016 17:02:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8412	-.7674	25.04	9.561	4.205	.8168
Stddev	.9487	2.017	.25	.045	.591	.1680
%RSD	112.8	262.9	.9914	.4737	14.06	20.56
#1	-.1757	-2.204	24.99	9.589	3.684	1.002
#2	.9970	1.539	24.81	9.586	4.847	.6752
#3	1.702	-1.637	25.30	9.509	4.083	.7729

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.262	8.054	130.6	1209.
Stddev	.377	.051	.3	16.
%RSD	29.88	.6382	.2387	1.284
#1	1.595	8.066	130.9	1206.
#2	.8524	8.099	130.3	1196.
#3	1.339	7.998	130.7	1226.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3126.2	39318.	5857.4
Stddev	18.8	82.	76.5
%RSD	.59993	.20902	1.3068
#1	3105.2	39331.	5851.0
#2	3141.3	39230.	5784.3
#3	3132.2	39393.	5937.0

Sample Name: sd 460-111929-F-1-A Acquired: 4/13/2016 16:18:17 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.122	-2.221	.4269	7.763	-.0397	5264.
Stddev	11.17	.537	.1161	.114	.0049	8.
%RSD	270.9	24.20	27.18	1.463	12.37	.1470
#1	-.2229	-2.797	.5041	7.796	-.0406	5259.
#2	-4.221	-2.132	.2935	7.637	-.0440	5260.
#3	16.81	-1.734	.4831	7.857	-.0344	5273.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1783	.1359	-.1934	-.7095	-12.18	538.0
Stddev	.1054	.0398	.5828	.2828	2.38	29.5
%RSD	59.10	29.31	301.3	39.86	19.50	5.478
#1	-.1468	.0962	.4546	-1.013	-9.475	572.0
#2	-.0923	.1355	-.3602	-.4534	-13.92	522.3
#3	-.2958	.1759	-.6746	-.6621	-13.16	519.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1422.	30.89	13500.	-.6101	-.8995	.6026
Stddev	2.	.07	108.	.3188	.9053	1.020
%RSD	.1714	.2366	.7971	52.24	100.6	169.3
#1	1424.	30.88	13380.	-.8713	-.2645	-.5740
#2	1422.	30.83	13510.	-.7042	-1.936	1.146
#3	1419.	30.97	13600.	-.2549	-.4979	1.236

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: sd 460-111929-F-1-A Acquired: 4/13/2016 16:18:17 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.140	-.1158	.2149	.4303	6.899	-.5975
Stddev	3.185	1.816	.0643	.0983	.289	.1173
%RSD	148.8	1569.	29.93	22.84	4.183	19.63
#1	-5.286	1.151	.2144	.4330	6.974	-.4710
#2	-2.217	-2.197	.2794	.5273	7.143	-.7025
#3	1.083	.6981	.1508	.3307	6.581	-.6189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1976	30.63	.2716	401.7
Stddev	.3206	.25	.1955	14.0
%RSD	162.3	.8082	71.99	3.481
#1	.2705	30.34	.0738	398.0
#2	.4753	30.76	.2763	417.2
#3	-.1532	30.77	.4648	390.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3153.4	39450.	5887.1
Stddev	16.3	65.	50.1
%RSD	.51816	.16523	.85120
#1	3150.0	39470.	5933.9
#2	3171.1	39503.	5893.0
#3	3139.0	39377.	5834.3

Sample Name: pds 460-111929-F-1-A Acquired: 4/13/2016 16:26:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1923.	1965.	47.74	2072.	49.21	46750.
Stddev	13.	6.	.19	1.	.09	45.
%RSD	.6806	.3261	.4079	.0555	.1848	.0964
#1	1934.	1967.	47.63	2073.	49.15	46720.
#2	1925.	1957.	47.63	2073.	49.31	46800.
#3	1909.	1969.	47.97	2071.	49.16	46720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.79	504.1	211.0	243.8	992.5	20680.
Stddev	.11	.6	.8	.4	12.5	30.
%RSD	.2140	.1171	.4009	.1747	1.260	.1432
#1	50.70	504.7	210.1	243.3	981.4	20700.
#2	50.76	504.0	211.8	244.1	1006.	20700.
#3	50.91	503.5	211.1	244.1	990.2	20650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25770.	666.6	88040.	524.7	493.4	467.5
Stddev	47.	.8	93.	1.6	2.3	1.6
%RSD	.1813	.1246	.1056	.2995	.4589	.3495
#1	25720.	665.7	88140.	526.5	490.8	468.4
#2	25780.	667.0	88020.	523.6	494.4	465.6
#3	25810.	667.2	87960.	524.0	494.9	468.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111929-F-1-A Acquired: 4/13/2016 16:26:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1894.	2102.	507.5	511.8	555.0	500.2
Stddev	5.	1.	2.2	.9	1.9	.6
%RSD	.2539	.0292	.4318	.1850	.3480	.1278

#1	1890.	2102.	505.3	512.4	556.2	500.9
#2	1893.	2103.	509.6	512.3	552.8	499.7
#3	1900.	2102.	507.5	510.7	556.1	499.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	514.5	644.5	494.8	2136.
Stddev	1.7	1.6	.9	9.
%RSD	.3351	.2514	.1837	.4386

#1	516.5	643.7	493.9	2143.
#2	513.8	646.4	495.7	2139.
#3	513.3	643.5	494.6	2125.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3079.9	38652.	5825.5
Stddev	16.7	207.	15.9
%RSD	.54080	.53669	.27223

#1	3062.7	38760.	5832.6
#2	3081.1	38413.	5807.4
#3	3095.9	38783.	5836.6

Sample Name: 460-112004-D-1-A@4 Acquired: 4/13/2016 17:11:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33590.	10.35	-1.091	259.0	2.517	4255.
Stddev	92.	1.04	.161	.5	.106	17.
%RSD	.2751	10.03	14.77	.1895	4.211	.4058
#1	33680.	9.159	-1.177	259.3	2.396	4238.
#2	33580.	11.08	-1.190	259.2	2.593	4273.
#3	33490.	10.80	-.9050	258.4	2.562	4254.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.567	79.15	165.8	140.7	91220.	4730.
Stddev	.105	.09	1.1	.9	91.	17.
%RSD	6.708	.1160	.6393	.6681	.0999	.3669
#1	-1.595	79.25	165.0	140.7	91120.	4712.
#2	-1.451	79.10	165.4	141.7	91230.	4731.
#3	-1.655	79.09	167.0	139.8	91310.	4747.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27400.	1723.	343.7	966.0	57.66	2.510
Stddev	116.	3.	7.1	2.7	1.18	1.072
%RSD	.4231	.1640	2.051	.2767	2.039	42.70
#1	27290.	1721.	349.2	963.7	58.32	1.703
#2	27520.	1726.	346.1	969.0	58.36	2.100
#3	27390.	1722.	335.7	965.3	56.30	3.726

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112004-D-1-A@4 Acquired: 4/13/2016 17:11:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.323	-2.099	97.69	172.7	10.33	1.365
Stddev	.613	.695	.41	1.1	.30	.107
%RSD	11.51	33.13	.4217	.6216	2.917	7.869
#1	5.752	-1.437	97.35	172.6	10.22	1.339
#2	4.621	-2.035	97.58	173.8	10.11	1.273
#3	5.596	-2.824	98.15	171.7	10.68	1.483

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.263	26.01	1535.	990.4
Stddev	.286	.19	3.	10.6
%RSD	12.64	.7352	.2162	1.074
#1	2.593	25.90	1537.	992.2
#2	2.085	26.23	1536.	979.0
#3	2.111	25.90	1531.	1000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3222.3	40536.	6093.4
Stddev	22.3	76.	9.3
%RSD	.69273	.18706	.15213
#1	3217.1	40616.	6103.6
#2	3203.0	40465.	6085.5
#3	3246.8	40528.	6091.2

Sample Name: CCV Acquired: 4/13/2016 17:31:17 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120800.	2513.	1228.	10230.	989.3	127200.
Stddev	363.	11.	1.	4.	1.8	508.
%RSD	.3006	.4524	.0869	.0396	.1809	.3997

#1	120700.	2521.	1227.	10230.	989.8	127200.
#2	120500.	2518.	1229.	10220.	987.3	126600.
#3	121200.	2500.	1228.	10230.	990.7	127700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1267.	2517.	5142.	12480.	99720.	48960.
Stddev	1.	2.	20.	11.	186.	101.
%RSD	.0795	.0741	.3918	.0901	.1861	.2054

#1	1267.	2517.	5147.	12490.	99560.	48970.
#2	1266.	2518.	5120.	12480.	99690.	48850.
#3	1268.	2515.	5159.	12460.	99920.	49050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122900.	5123.	119700.	2560.	7450.	983.7
Stddev	173.	10.	393.	1.	19.	3.7
%RSD	.1409	.1933	.3279	.0568	.2494	.3740

#1	122800.	5117.	119600.	2561.	7428.	985.6
#2	122900.	5118.	119400.	2559.	7461.	986.1
#3	123100.	5135.	120200.	2561.	7459.	979.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 17:31:17 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2413.	2531.	2521.	2517.	1010.	2529.
Stddev	9.	6.	5.	7.	3.	3.
%RSD	.3697	.2426	.1811	.2593	.2600	.1132

#1	2416.	2531.	2518.	2511.	1008.	2526.
#2	2419.	2525.	2518.	2516.	1013.	2528.
#3	2403.	2537.	2526.	2524.	1009.	2532.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1018.	5011.	10010.	9627.
Stddev	3.	2.	44.	92.
%RSD	.2815	.0385	.4404	.9512

#1	1021.	5013.	10020.	9605.
#2	1015.	5009.	9958.	9728.
#3	1019.	5011.	10040.	9548.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3007.1	38169.	5822.7
Stddev	9.6	248.	61.6
%RSD	.31865	.65053	1.0577

#1	3017.9	38328.	5836.6
#2	3003.5	38295.	5876.2
#3	2999.8	37883.	5755.4

Sample Name: CCB Acquired: 4/13/2016 17:35:03 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.713	-2.168	.2134	.5063	.0825	-21.78
Stddev	13.44	1.902	.4028	.4465	.0666	9.07
%RSD	361.9	87.74	188.8	88.20	80.77	41.63
#1	11.80	-.7362	.6247	.1925	.1594	-23.82
#2	-11.19	-4.326	-.1803	1.017	.0458	-11.86
#3	-11.76	-1.441	.1957	.3088	.0423	-29.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2438	.4218	.0282	.3291	-.1462	3.565
Stddev	.1156	.1388	.5170	.5609	14.20	23.46
%RSD	47.44	32.90	1834.	170.4	9710.	657.9
#1	-.3772	.3194	.4927	-.0958	-16.48	1.683
#2	-.1810	.5797	.1207	.9649	6.785	-18.89
#3	-.1731	.3663	-.5288	.1181	9.253	27.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.221	.1935	9.936	.2630	-.4099	1.606
Stddev	3.010	.1832	1.882	.5733	.3872	.741
%RSD	41.68	94.66	18.94	218.0	94.46	46.15
#1	5.562	.0243	8.379	.0009	-.3560	.8117
#2	5.406	.3881	12.03	-.1324	-.0525	2.279
#3	10.69	.1682	9.400	.9204	-.8212	1.726

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 17:35:03 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.038	-.8973	-.0726	-.1525	-.1484	.5474
Stddev	2.384	.8060	.1546	.1255	.2390	.5088
%RSD	117.0	89.83	212.9	82.30	161.1	92.95
#1	-.6162	-.5749	-.2373	-.2112	-.1142	.9465
#2	-.7071	-.3022	-.0497	-.0084	-.4026	.7213
#3	-4.790	-1.815	.0693	-.2379	.0717	-.0256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.8815	.1526	.5871	14.09
Stddev	.5918	.1178	.2913	7.94
%RSD	67.13	77.20	49.62	56.37
#1	-.9259	.0344	.3548	8.625
#2	-1.450	.1534	.9139	23.21
#3	-.2688	.2701	.4925	10.45

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3143.3	39230.	5661.0
Stddev	9.8	55.	46.5
%RSD	.31073	.14117	.82053
#1	3136.9	39292.	5613.2
#2	3138.4	39212.	5705.9
#3	3154.5	39186.	5664.0

Sample Name: 460-109943-E-4-B Acquired: 4/13/2016 17:43:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.11	-.6441	.2886	59.36	.0597	9359.
Stddev	5.47	.5860	.3449	.43	.0723	17.
%RSD	30.23	90.98	119.5	.7188	121.1	.1798
#1	21.16	-.8685	.6245	58.96	.0484	9345.
#2	11.79	-1.085	.3059	59.30	-.0063	9377.
#3	21.38	.0209	-.0647	59.81	.1370	9354.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1231	1.041	1.438	.3395	11.45	3388.
Stddev	.0503	.135	.256	.1350	4.58	29.
%RSD	40.84	13.00	17.80	39.76	40.00	.8555
#1	-.0684	1.190	1.734	.1853	16.73	3413.
#2	-.1337	.9254	1.301	.3968	9.125	3356.
#3	-.1672	1.007	1.280	.4364	8.500	3394.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1635.	19.14	32620.	3.008	-4.333	1.776
Stddev	10.	.16	156.	.324	1.735	1.138
%RSD	.5972	.8145	.4782	10.75	40.04	64.09
#1	1623.	19.00	32450.	3.316	-3.519	.5334
#2	1639.	19.12	32650.	3.039	-6.325	2.768
#3	1641.	19.31	32760.	2.671	-3.154	2.026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109943-E-4-B Acquired: 4/13/2016 17:43:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.010	.6480	.0647	5.566	36.77	-.3180
Stddev	1.704	2.254	.3641	.126	.54	.0705
%RSD	84.79	347.8	563.0	2.260	1.474	22.18
#1	-3.962	1.692	.4851	5.629	36.17	-.3152
#2	-.8177	-1.938	-.1420	5.422	37.23	-.3899
#3	-1.250	2.190	-.1491	5.649	36.91	-.2489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1277	63.94	.7093	3499.
Stddev	.4445	.23	.0557	16.
%RSD	348.1	.3588	7.854	.4520
#1	-.3436	63.71	.6572	3488.
#2	.5394	64.17	.7680	3517.
#3	.1873	63.95	.7027	3491.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3191.0	40128.	6006.0
Stddev	17.9	135.	52.7
%RSD	.56081	.33558	.87715
#1	3203.6	40177.	6034.1
#2	3198.8	40232.	6038.7
#3	3170.5	39976.	5945.2

Sample Name: 460-109980-F-1-D Acquired: 4/13/2016 17:51:34 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.37	-2.840	-.0607	55.53	.0136	19140.
Stddev	4.88	.776	.3529	.24	.0292	28.
%RSD	20.90	27.31	581.7	.4287	214.3	.1452
#1	28.27	-2.437	.1442	55.35	.0424	19140.
#2	18.50	-2.349	-.4681	55.80	-.0160	19180.
#3	23.33	-3.734	.1420	55.45	.0146	19120.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1236	.1852	17.83	-.0273	-3.780	6664.
Stddev	.0456	.2811	.29	.3953	5.953	44.
%RSD	36.87	151.7	1.616	1449.	157.5	.6642
#1	.1088	-.0387	17.50	-.2425	.0987	6613.
#2	.0873	.5006	18.05	.4290	-10.63	6692.
#3	.1747	.0938	17.93	-.2684	-.8052	6686.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5037.	120.7	44510.	9.090	-4.157	1.012
Stddev	14.	.1	116.	.170	1.748	.607
%RSD	.2839	.1215	.2610	1.865	42.04	59.92
#1	5027.	120.5	44440.	8.928	-5.726	1.713
#2	5053.	120.8	44450.	9.077	-4.472	.6532
#3	5030.	120.7	44650.	9.266	-2.273	.6711

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-109980-F-1-D Acquired: 4/13/2016 17:51:34 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.424	-.1505	-.2334	11.05	23.96	-.6809
Stddev	2.696	1.884	.0625	.13	.46	.1527
%RSD	78.74	1251.	26.79	1.220	1.926	22.43
#1	-4.818	1.771	-.1819	11.11	23.72	-.6376
#2	-5.138	-1.993	-.2154	10.90	24.50	-.8505
#3	-.3166	-.2296	-.3030	11.15	23.67	-.5544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2450	111.4	.8744	4576.
Stddev	.8138	.5	.0689	24.
%RSD	332.1	.4557	7.884	.5186
#1	.9753	111.2	.9188	4563.
#2	.3920	111.1	.7950	4603.
#3	-.6322	112.0	.9095	4561.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3112.4	38824.	5897.6
Stddev	6.7	105.	31.1
%RSD	.21469	.27026	.52679
#1	3117.2	38892.	5918.4
#2	3104.8	38703.	5861.9
#3	3115.3	38876.	5912.6

Sample Name: 460-111972-E-3-B@4 Acquired: 4/13/2016 16:34:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7468.	32.45	-2205	32.05	.3153	611.4
Stddev	26.	2.07	.0878	.18	.0354	8.4
%RSD	.3515	6.397	39.83	.5724	11.23	1.376
#1	7444.	33.36	-.1199	31.95	.2768	612.1
#2	7496.	30.07	-.2816	31.93	.3225	619.5
#3	7466.	33.90	-.2601	32.26	.3465	602.7

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7827	.8574	36.37	9.771	29660.	1440.
Stddev	.0327	.1258	.42	.089	147.	34.
%RSD	4.174	14.68	1.142	.9121	.4954	2.373
#1	-.7716	.7518	36.69	9.696	29510.	1407.
#2	-.7571	.8236	36.51	9.748	29800.	1475.
#3	-.8195	.9966	35.90	9.869	29680.	1438.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	558.4	34.58	40.66	5.141	26.73	1.364
Stddev	6.4	.09	6.43	.234	2.21	.931
%RSD	1.152	.2655	15.81	4.558	8.286	68.24
#1	556.8	34.49	42.42	5.256	28.74	2.117
#2	553.0	34.60	33.54	5.296	27.10	.3234
#3	565.6	34.67	46.03	4.871	24.36	1.651

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111972-E-3-B@4 Acquired: 4/13/2016 16:34:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.223	-3.120	57.58	26.64	4.871	1.691
Stddev	2.118	2.229	.47	.08	.387	.269
%RSD	95.31	71.45	.8243	.3148	7.937	15.87
#1	-0.2234	-1.142	57.36	26.55	4.920	2.001
#2	3.429	-5.535	57.25	26.72	5.232	1.539
#3	3.462	-2.682	58.12	26.64	4.463	1.533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4898	9.949	188.3	1269.
Stddev	.7291	.110	.8	11.
%RSD	148.9	1.107	.4355	.8361
#1	1.006	9.860	187.5	1258.
#2	-.3443	10.07	188.4	1269.
#3	.8075	9.916	189.1	1279.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3126.5	39302.	5785.1
Stddev	6.5	251.	43.9
%RSD	.20744	.63753	.75885
#1	3120.0	39171.	5755.5
#2	3126.4	39143.	5764.3
#3	3133.0	39591.	5835.6

Sample Name: 460-109980-F-4-B Acquired: 4/13/2016 18:03:55 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.04	-1.429	.3975	110.5	.1514	18610.
Stddev	4.00	1.184	.1530	.5	.0483	111.
%RSD	7.533	82.89	38.50	.4251	31.90	.5965
#1	57.57	-2.136	.4036	110.0	.2031	18520.
#2	51.51	-.0615	.5474	110.8	.1074	18590.
#3	50.03	-2.088	.2416	110.8	.1437	18730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2810	.0312	2.844	-.0650	5.079	3538.
Stddev	.0650	.0350	.252	.1700	3.507	21.
%RSD	23.15	112.1	8.861	261.7	69.05	.5833
#1	.2066	.0715	2.832	-.0744	5.724	3561.
#2	.3094	.0089	3.102	.1096	1.294	3521.
#3	.3270	.0132	2.598	-.2300	8.219	3531.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3422.	182.4	37420.	5.490	-4.040	.9014
Stddev	25.	1.5	138.	.402	1.612	1.294
%RSD	.7401	.8350	.3681	7.313	39.91	143.5
#1	3393.	180.9	37580.	5.243	-2.966	2.288
#2	3433.	182.3	37320.	5.954	-5.894	-.2743
#3	3439.	184.0	37360.	5.274	-3.260	.6909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-F-4-B Acquired: 4/13/2016 18:03:55 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.491	-.9873	.0445	2.648	77.86	-.5838
Stddev	1.825	1.031	.1331	.272	.53	.2452
%RSD	122.4	104.5	299.0	10.27	.6832	42.00
#1	-3.579	-.1649	-.1009	2.845	77.99	-.3131
#2	-.2054	-.6523	.1602	2.338	78.32	-.7911
#3	-.6879	-2.145	.0743	2.760	77.28	-.6473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6185	91.39	.8722	5580.
Stddev	.7729	.17	.0506	12.
%RSD	124.9	.1806	5.805	.2142
#1	1.508	91.48	.9220	5587.
#2	.2347	91.20	.8208	5586.
#3	.1127	91.49	.8738	5566.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3105.3	39077.	5857.0
Stddev	10.0	454.	54.8
%RSD	.32110	1.1611	.93632
#1	3115.2	39430.	5892.6
#2	3105.6	39235.	5884.6
#3	3095.2	38565.	5793.9

Sample Name: 460-109980-F-6-B Acquired: 4/13/2016 18:12:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	166.7	-2.168	.2551	110.8	.2256	35450.
Stddev	13.7	1.740	.0402	.2	.0537	13.
%RSD	8.203	80.26	15.74	.1449	23.82	.0356

#1	153.5	-.1803	.2870	110.9	.2350	35430.
#2	180.8	-3.416	.2682	110.8	.1678	35460.
#3	165.8	-2.909	.2100	110.6	.2740	35450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2720	.2303	.0122	.3634	12.84	4951.
Stddev	.0920	.0438	.3460	.2106	13.84	34.
%RSD	33.83	19.00	2826.	57.95	107.8	.6859

#1	.3776	.2050	-.3866	.5665	28.79	4990.
#2	.2286	.2808	.2321	.3778	3.897	4932.
#3	.2097	.2050	.1913	.1460	5.840	4932.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5467.	234.5	26290.	10.08	-4.965	.4851
Stddev	16.	.1	80.	.32	1.497	1.288
%RSD	.2939	.0614	.3055	3.196	30.15	265.6

#1	5450.	234.7	26270.	10.45	-6.184	.8972
#2	5471.	234.5	26380.	9.835	-3.294	1.517
#3	5482.	234.4	26230.	9.972	-5.417	-.9589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-F-6-B Acquired: 4/13/2016 18:12:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.651	-1.030	.0714	13.75	48.74	-.8497
Stddev	4.007	.784	.1531	.12	.34	.0997
%RSD	109.7	76.09	214.2	.8966	.7021	11.73
#1	-4.803	-1.154	-.1012	13.84	48.38	-.7392
#2	.8055	-1.745	.1907	13.61	48.78	-.8771
#3	-6.956	-.1919	.1248	13.80	49.06	-.9328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2088	139.2	1.083	6851.
Stddev	.8538	.6	.146	55.
%RSD	408.9	.4238	13.50	.7995
#1	.3405	139.4	.9404	6859.
#2	.2256	139.6	1.232	6901.
#3	-1.193	138.5	1.075	6792.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3136.8	39322.	5935.9
Stddev	4.2	9.	23.7
%RSD	.13482	.02236	.39890
#1	3140.0	39331.	5908.8
#2	3138.4	39314.	5952.8
#3	3132.0	39319.	5946.0

Sample Name: 460-111859-G-4-A Acquired: 4/13/2016 18:20:24 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.86	-1.495	.2799	87.59	.0854	22850.
Stddev	7.24	1.420	.2321	.23	.0412	69.
%RSD	22.04	95.01	82.90	.2629	48.27	.3007
#1	24.93	-1.200	.1678	87.72	.0587	22790.
#2	39.13	-1.408	.5468	87.72	.1329	22930.
#3	34.51	-2.956	.1252	87.32	.0646	22840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2995	.9765	1.439	1.531	26.66	3062.
Stddev	.0975	.2460	.603	.080	5.74	35.
%RSD	32.54	25.19	41.88	5.209	21.55	1.137
#1	-.4018	1.256	1.173	1.448	24.60	3097.
#2	-.2077	.8788	2.129	1.606	33.14	3060.
#3	-.2890	.7944	1.015	1.538	22.22	3028.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8997.	3.353	17770.	5.991	-2.609	1.275
Stddev	3.	.027	83.	.252	2.325	1.084
%RSD	.0366	.7930	.4695	4.209	89.14	85.08
#1	8993.	3.378	17850.	5.701	-2.234	1.419
#2	8998.	3.355	17690.	6.112	-5.099	.1251
#3	9000.	3.325	17760.	6.159	-.4936	2.280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111859-G-4-A Acquired: 4/13/2016 18:20:24 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9371	-.2749	.9653	13.44	15.29	-.2414
Stddev	2.424	1.138	.4847	.14	.67	.1360
%RSD	258.6	413.9	50.21	1.078	4.357	56.33
#1	-3.623	-1.558	.4811	13.30	15.44	-.0845
#2	-.2752	.1232	.9645	13.44	15.87	-.3255
#3	1.087	.6103	1.450	13.59	14.57	-.3143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2161	220.8	1.422	3707.
Stddev	1.253	1.5	.202	11.
%RSD	579.7	.6599	14.17	.3019
#1	-1.230	222.5	1.211	3716.
#2	.9536	220.0	1.443	3710.
#3	.9251	219.9	1.613	3695.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3131.3	38984.	5849.4
Stddev	11.4	111.	28.0
%RSD	.36477	.28348	.47786
#1	3140.9	39084.	5877.3
#2	3118.7	39003.	5849.6
#3	3134.4	38866.	5821.4

Sample Name: CCV Acquired: 4/13/2016 16:38:21 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120900.	2578.	1245.	10490.	995.8	129800.
Stddev	178.	15.	2.	7.	2.2	55.
%RSD	.1469	.5730	.1990	.0646	.2189	.0420

#1	120700.	2592.	1242.	10500.	993.5	129800.
#2	120900.	2562.	1246.	10490.	996.1	129900.
#3	121000.	2580.	1247.	10500.	997.9	129900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1294.	2564.	5268.	12730.	101000.	49600.
Stddev	4.	7.	7.	10.	228.	118.
%RSD	.3159	.2909	.1359	.0748	.2261	.2374

#1	1297.	2568.	5270.	12720.	100900.	49460.
#2	1290.	2555.	5274.	12740.	100800.	49650.
#3	1296.	2568.	5260.	12730.	101200.	49680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124300.	5224.	120100.	2623.	7526.	1000.
Stddev	373.	3.	45.	7.	44.	7.
%RSD	.3001	.0586	.0379	.2786	.5818	.7199

#1	124100.	5222.	120100.	2630.	7539.	1005.
#2	124100.	5223.	120000.	2615.	7477.	992.1
#3	124700.	5227.	120100.	2624.	7562.	1004.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 16:38:21 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2447.	2581.	2570.	2549.	1032.	2590.
Stddev	22.	11.	2.	10.	7.	2.
%RSD	.9124	.4190	.0670	.3748	.7238	.0642
#1	2463.	2591.	2571.	2549.	1037.	2592.
#2	2422.	2582.	2571.	2539.	1023.	2589.
#3	2457.	2570.	2568.	2558.	1035.	2590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1042.	5080.	10110.	9752.
Stddev	2.	9.	77.	43.
%RSD	.2156	.1809	.7644	.4359
#1	1043.	5071.	10110.	9797.
#2	1040.	5089.	10030.	9713.
#3	1044.	5079.	10190.	9745.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2986.7	37834.	5836.8
Stddev	13.0	54.	25.0
%RSD	.43595	.14325	.42914
#1	2980.3	37877.	5854.5
#2	3001.7	37773.	5847.8
#3	2978.1	37851.	5808.2

Sample Name: CCVL Acquired: 4/13/2016 16:46:20 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.3	12.80	10.09	217.0	2.095	5256.
Stddev	9.5	1.28	.13	1.4	.065	3.
%RSD	4.566	9.971	1.243	.6306	3.090	.0553

#1	216.4	14.27	9.984	215.8	2.152	5255.
#2	197.5	11.98	10.06	216.8	2.109	5260.
#3	207.9	12.14	10.23	218.5	2.025	5254.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.181	54.19	10.45	25.19	147.4	4918.
Stddev	.076	.20	.51	.11	22.9	43.
%RSD	1.813	.3749	4.857	.4376	15.54	.8713

#1	4.188	54.10	10.88	25.23	137.4	4877.
#2	4.253	54.06	10.57	25.07	131.2	4915.
#3	4.102	54.43	9.887	25.28	173.6	4963.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4953.	16.48	4875.	43.98	11.79	20.96
Stddev	27.	.09	27.	.26	2.21	.45
%RSD	.5549	.5270	.5474	.5936	18.73	2.166

#1	4936.	16.39	4845.	43.70	14.33	20.45
#2	4938.	16.48	4897.	44.22	10.71	21.11
#3	4985.	16.56	4882.	44.02	10.33	21.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 16:46:20 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.09	20.48	52.69	32.33	50.69	20.54
Stddev	3.13	1.14	.37	.23	.37	.12
%RSD	17.31	5.558	.6933	.6968	.7241	.5735
#1	19.43	19.18	52.31	32.10	50.62	20.65
#2	14.51	20.95	53.04	32.55	50.37	20.54
#3	20.33	21.30	52.72	32.35	51.09	20.42

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.74	21.13	20.92	F 15.97
Stddev	.71	.06	.13	9.18
%RSD	1.371	.2754	.6187	57.48
#1	51.32	21.13	20.78	20.59
#2	52.56	21.18	20.95	5.396
#3	51.34	21.07	21.04	21.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3155.1	39372.	5797.6
Stddev	14.5	233.	48.0
%RSD	.46039	.59159	.82819
#1	3138.4	39285.	5783.8
#2	3162.1	39196.	5758.0
#3	3164.8	39636.	5851.0

Sample Name: 460-111859-G-7-A@2 Acquired: 4/13/2016 18:36:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.64	1.995	-.2307	311.5	-.0192	8914.
Stddev	18.05	2.685	.3571	2.1	.0838	82.
%RSD	63.02	134.6	154.8	.6844	436.5	.9225
#1	10.29	-.4166	-.4793	310.0	.0456	8844.
#2	46.37	1.512	-.3912	310.6	-.1139	8894.
#3	29.26	4.888	.1785	313.9	.0107	9005.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5892	16.61	1.146	-.9478	22610.	1690.
Stddev	.1072	.23	.338	.0879	172.	19.
%RSD	18.19	1.405	29.45	9.272	.7610	1.124
#1	-.6997	16.34	.7563	-1.048	22430.	1676.
#2	-.5821	16.73	1.337	-.8853	22630.	1712.
#3	-.4858	16.75	1.345	-.9099	22770.	1682.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4067.	3386.	16290.	.1701	-.1085	2.187
Stddev	37.	18.	41.	.6218	.4214	.916
%RSD	.8983	.5316	.2544	365.6	388.5	41.88
#1	4032.	3367.	16330.	-.0988	-.4910	3.205
#2	4063.	3390.	16280.	-.2720	-.1776	1.430
#3	4105.	3402.	16250.	.8810	.3432	1.926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111859-G-7-A@2 Acquired: 4/13/2016 18:36:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6425	.1446	-2.167	2.875	10.11	-.0540
Stddev	1.033	2.383	.357	.334	.58	.2899
%RSD	160.8	1648.	16.46	11.62	5.729	537.0
#1	.4345	-1.411	-1.902	2.497	10.66	-.2876
#2	-.2709	2.888	-2.027	2.997	10.18	-.1448
#3	1.764	-1.042	-2.573	3.130	9.503	.2705

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7798	86.70	.9438	3002.
Stddev	.5544	.34	.1656	22.
%RSD	71.10	.3968	17.54	.7398
#1	.2900	86.43	.9043	2979.
#2	1.382	87.09	.8016	3023.
#3	.6676	86.58	1.126	3006.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3116.7	39044.	5891.9
Stddev	1.1	139.	27.3
%RSD	.03475	.35724	.46335
#1	3117.9	39180.	5860.4
#2	3116.3	39050.	5909.1
#3	3115.8	38901.	5906.2

Sample Name: 460-111972-E-4-D@4 Acquired: 4/13/2016 16:50:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5921.	11.81	.2143	22.22	.1341	530.6
Stddev	61.	2.41	.3368	.21	.1276	13.3
%RSD	1.038	20.39	157.2	.9390	95.22	2.504
#1	5894.	9.300	.4651	21.99	.2721	519.3
#2	5877.	12.02	-.1686	22.38	.1099	527.4
#3	5991.	14.10	.3464	22.31	.0202	545.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5135	.2108	26.62	8.725	11160.	1203.
Stddev	.1057	.0303	.24	.378	55.	41.
%RSD	20.58	14.38	.9175	4.331	.4914	3.367
#1	-.3924	.2458	26.36	8.322	11100.	1184.
#2	-.5606	.1932	26.65	9.071	11180.	1250.
#3	-.5874	.1935	26.84	8.784	11200.	1176.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	394.7	9.383	52.74	.8133	10.78	1.405
Stddev	9.5	.110	1.30	.1456	.74	.609
%RSD	2.413	1.176	2.470	17.91	6.831	43.32
#1	384.0	9.257	51.52	.9240	11.22	.7836
#2	397.8	9.465	54.12	.6483	9.930	2.000
#3	402.3	9.426	52.59	.8676	11.20	1.431

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-4-D@4 Acquired: 4/13/2016 16:50:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.013	-.9361	23.88	5.286	3.796	.7722
Stddev	1.780	.6773	.37	.178	.162	.1318
%RSD	88.42	72.36	1.554	3.362	4.266	17.07
#1	2.036	-.8205	23.47	5.337	3.745	.6566
#2	3.780	-1.664	23.99	5.433	3.666	.9157
#3	.2212	-.3240	24.18	5.089	3.977	.7444

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7534	10.70	84.33	1316.
Stddev	1.043	.02	.40	7.
%RSD	138.4	.2085	.4722	.5637
#1	-.2173	10.68	83.90	1307.
#2	.6223	10.72	84.40	1321.
#3	1.855	10.70	84.68	1319.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3127.5	39319.	5867.6
Stddev	6.8	111.	44.6
%RSD	.21823	.28266	.76074
#1	3134.9	39445.	5893.1
#2	3126.3	39236.	5893.6
#3	3121.4	39275.	5816.0

Sample Name: 460-111966-B-1-D MS Acquired: 4/13/2016 19:01:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80790.	1077.	22.25	1659.	27.62	20660.
Stddev	292.	4.	.08	3.	.27	99.
%RSD	.3607	.3287	.3480	.1693	.9714	.4807
#1	80540.	1081.	22.17	1658.	27.32	20550.
#2	80730.	1074.	22.27	1657.	27.69	20750.
#3	81110.	1076.	22.31	1662.	27.85	20680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.57	289.4	204.6	309.4	122400.	15320.
Stddev	.19	.9	.7	1.5	127.	76.
%RSD	.8332	.3054	.3665	.4751	.1034	.4941
#1	22.44	288.5	204.1	310.2	122500.	15260.
#2	22.49	289.5	204.1	307.7	122200.	15300.
#3	22.79	290.3	205.4	310.4	122400.	15400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29450.	2682.	10410.	364.2	485.2	92.33
Stddev	28.	4.	61.	1.7	1.4	.64
%RSD	.0961	.1459	.5854	.4598	.2878	.6903
#1	29430.	2678.	10350.	362.4	486.8	93.07
#2	29450.	2685.	10410.	364.5	484.6	91.99
#3	29480.	2683.	10480.	365.7	484.1	91.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111966-B-1-D MS Acquired: 4/13/2016 19:01:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	870.9	989.2	383.9	605.4	254.2	231.8
Stddev	4.4	5.3	1.6	2.3	.7	.9
%RSD	.5033	.5315	.4258	.3735	.2638	.3892
#1	866.0	983.1	383.7	602.9	253.5	230.8
#2	872.4	991.6	382.4	605.9	254.8	231.9
#3	874.4	992.8	385.7	607.3	254.2	232.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	225.4	337.6	1793.	2205.
Stddev	1.3	.3	1.	12.
%RSD	.5933	.0913	.0822	.5628
#1	224.7	337.6	1791.	2191.
#2	227.0	337.3	1793.	2208.
#3	224.7	337.9	1793.	2214.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3191.1	39862.	5950.3
Stddev	1.8	32.	34.8
%RSD	.05590	.07994	.58501
#1	3190.1	39830.	5982.2
#2	3193.2	39893.	5955.5
#3	3190.2	39864.	5913.1

Sample Name: 460-111972-E-5-B@4 Acquired: 4/13/2016 16:54:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8008.	40.49	-.0288	29.32	.2173	564.3
Stddev	90.	1.65	.1198	.13	.0703	2.0
%RSD	1.118	4.084	415.8	.4341	32.35	.3519
#1	7955.	38.76	-.1526	29.43	.1376	562.3
#2	7957.	42.05	-.0205	29.18	.2704	566.3
#3	8111.	40.65	.0866	29.35	.2439	564.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7652	1.134	33.44	14.22	29080.	1969.
Stddev	.0674	.320	.18	.07	156.	13.
%RSD	8.803	28.24	.5381	.4854	.5372	.6778
#1	-.8357	1.254	33.59	14.15	28940.	1978.
#2	-.7584	.7708	33.24	14.23	29250.	1954.
#3	-.7015	1.376	33.48	14.29	29060.	1975.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	669.4	35.47	65.69	2.251	15.25	1.524
Stddev	7.0	.11	5.60	.195	2.43	1.142
%RSD	1.049	.3094	8.530	8.668	15.95	74.92
#1	663.6	35.34	63.69	2.082	12.46	.2110
#2	677.2	35.54	61.37	2.205	16.41	2.285
#3	667.4	35.52	72.02	2.464	16.89	2.076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-5-B@4 Acquired: 4/13/2016 16:54:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.513	-1.132	43.78	15.72	6.483	1.730
Stddev	1.513	.4550	.40	.11	.519	.217
%RSD	60.18	402.0	.9187	.7104	8.006	12.56
#1	.8126	-.6279	43.55	15.77	7.082	1.912
#2	3.019	.2353	44.24	15.80	6.209	1.489
#3	3.708	.0531	43.53	15.60	6.158	1.788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.095	9.663	214.5	1408.
Stddev	.404	.021	1.5	13.
%RSD	36.91	.2213	.6859	.9120
#1	1.117	9.688	214.0	1398.
#2	.6803	9.649	216.2	1423.
#3	1.488	9.653	213.4	1403.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3122.9	39292.	5867.9
Stddev	9.9	122.	53.6
%RSD	.31675	.31122	.91294
#1	3124.0	39254.	5852.6
#2	3112.5	39194.	5927.4
#3	3132.2	39429.	5823.6

Sample Name: CCV Acquired: 4/13/2016 19:16:52 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122400.	2493.	1243.	10250.	997.2	128800.
Stddev	443.	20.	3.	24.	2.2	116.
%RSD	.3622	.8105	.2784	.2310	.2198	.0902

#1	122600.	2516.	1242.	10280.	998.7	128900.
#2	121900.	2483.	1240.	10240.	994.7	128700.
#3	122700.	2480.	1246.	10230.	998.4	128900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1269.	2528.	5173.	12470.	101400.	49440.
Stddev	4.	8.	8.	34.	138.	122.
%RSD	.3324	.3003	.1612	.2702	.1360	.2466

#1	1274.	2537.	5182.	12510.	101300.	49570.
#2	1267.	2523.	5166.	12450.	101400.	49320.
#3	1266.	2524.	5171.	12440.	101600.	49420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125400.	5182.	121600.	2558.	7512.	979.3
Stddev	292.	8.	542.	8.	11.	4.5
%RSD	.2328	.1518	.4456	.3125	.1412	.4617

#1	125300.	5186.	121800.	2567.	7524.	984.4
#2	125100.	5172.	121000.	2554.	7508.	977.2
#3	125700.	5186.	122100.	2554.	7505.	976.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 19:16:52 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2421.	2545.	2543.	2555.	997.8	2530.
Stddev	12.	7.	3.	5.	4.6	7.
%RSD	.4777	.2738	.1222	.1936	.4635	.2574

#1	2435.	2553.	2546.	2558.	1003.	2537.
#2	2416.	2540.	2540.	2550.	994.6	2527.
#3	2414.	2542.	2543.	2558.	995.7	2525.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1022.	5040.	10130.	9524.
Stddev	3.	13.	15.	32.
%RSD	.3119	.2548	.1458	.3400

#1	1025.	5055.	10130.	9539.
#2	1022.	5032.	10110.	9545.
#3	1019.	5033.	10140.	9486.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3001.6	37660.	5632.7
Stddev	7.5	100.	58.0
%RSD	.25084	.26579	1.0298

#1	2999.6	37690.	5667.1
#2	3010.0	37741.	5665.3
#3	2995.3	37548.	5565.7

Sample Name: CCB Acquired: 4/13/2016 19:20:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-21.94	-.9774	.1243	.2194	.0069	-14.72
Stddev	8.11	1.129	.4349	.0820	.1160	1.97
%RSD	36.98	115.5	349.8	37.39	1676.	13.36
#1	-27.17	-.6906	.6255	.2310	.0605	-15.62
#2	-12.59	-2.222	-.1538	.2951	-.1261	-12.46
#3	-26.05	-.0195	-.0987	.1322	.0864	-16.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1406	.1181	-.1882	-.1371	-7.411	12.81
Stddev	.0528	.1189	.0458	.3379	3.246	6.56
%RSD	37.58	100.7	24.34	246.5	43.80	51.25
#1	-.1506	.2507	-.1364	-.3135	-4.175	15.98
#2	-.0835	.0826	-.2045	.2525	-10.67	17.19
#3	-.1877	.0210	-.2235	-.3504	-7.393	5.262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.569	.0980	2.281	-.3329	-1.073	2.114
Stddev	3.161	.0565	2.081	.0833	.618	1.035
%RSD	69.20	57.65	91.23	25.03	57.60	48.95
#1	8.203	.0950	1.101	-.2581	-1.604	.9694
#2	2.457	.0430	1.058	-.3180	-.3945	2.388
#3	3.045	.1559	4.683	-.4227	-1.221	2.983

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 19:20:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.864	-.8406	.1252	-.0164	.3144	.3948
Stddev	1.452	.9471	.2088	.0311	.1826	.3774
%RSD	77.92	112.7	166.8	189.4	58.09	95.60
#1	-.3679	-.6636	-.1023	-.0444	.4788	.8047
#2	-3.268	.0056	.3080	-.0220	.1178	.3182
#3	-1.955	-1.864	.1698	.0171	.3464	.0615

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3114	.0719	.3617	5.698
Stddev	.3469	.0256	.0808	18.82
%RSD	111.4	35.60	22.34	330.3
#1	-.0455	.1007	.4550	-4.086
#2	-.1851	.0520	.3128	-6.213
#3	-.7038	.0629	.3173	27.39

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3210.2	39708.	5785.5
Stddev	25.2	361.	114.9
%RSD	.78567	.90991	1.9865
#1	3193.2	39406.	5656.6
#2	3198.2	39609.	5822.7
#3	3239.2	40108.	5877.3

Sample Name: 460-111285-A-6-A@4 Acquired: 4/13/2016 19:33:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	116300.	16.62	-1.116	581.7	3.200	4132.
Stddev	226.	1.58	.503	1.4	.023	20.
%RSD	.1939	9.516	45.10	.2336	.7259	.4874

#1	116500.	16.83	-1.013	580.9	3.225	4149.
#2	116100.	14.94	-1.662	583.3	3.198	4110.
#3	116400.	18.08	-.6720	581.0	3.178	4137.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.021	43.54	164.4	90.72	134800.	16250.
Stddev	.129	.20	.9	.49	281.	43.
%RSD	6.373	.4648	.5178	.5408	.2084	.2638

#1	-2.167	43.45	165.3	91.21	135100.	16230.
#2	-1.974	43.41	164.1	90.23	134700.	16230.
#3	-1.922	43.78	163.7	90.72	134500.	16300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27030.	1582.	186.5	67.21	77.20	2.169
Stddev	71.	1.	9.9	.33	3.08	2.484
%RSD	.2626	.0926	5.321	.4916	3.986	114.5

#1	27060.	1581.	191.3	67.25	79.41	-.6852
#2	26950.	1582.	175.1	66.86	78.50	3.345
#3	27090.	1584.	193.1	67.52	73.68	3.846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-6-A@4 Acquired: 4/13/2016 19:33:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.961	-4.166	277.4	340.3	4.554	3.976
Stddev	1.585	1.367	.8	1.1	.428	.143
%RSD	15.92	32.82	.2975	.3229	9.392	3.588
#1	9.163	-3.021	278.2	341.6	4.188	4.113
#2	8.933	-3.796	277.4	339.6	5.024	3.828
#3	11.79	-5.680	276.5	339.8	4.451	3.985

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.312	39.30	5904.	1841.
Stddev	.259	.21	3.	26.
%RSD	7.819	.5379	.0517	1.396
#1	3.060	39.11	5907.	1864.
#2	3.577	39.27	5903.	1846.
#3	3.297	39.52	5901.	1813.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3331.6	41522.	6267.4
Stddev	10.9	85.	36.8
%RSD	.32580	.20580	.58772
#1	3321.0	41435.	6242.8
#2	3331.1	41606.	6309.8
#3	3342.7	41526.	6249.6

Sample Name: 460-111285-A-2-A@4 Acquired: 4/13/2016 19:29:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106700.	36.73	-4857	480.2	3.313	5915.
Stddev	2528.	.98	.3164	7.4	.056	66.
%RSD	2.369	2.659	65.14	1.545	1.675	1.122

#1	103900.	35.73	-.8503	471.7	3.318	5838.
#2	107400.	37.68	-.3226	483.3	3.255	5955.
#3	108800.	36.77	-.2841	485.6	3.365	5952.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.035	32.13	181.0	73.09	153700.	10460.
Stddev	.014	.40	1.7	.94	2590.	202.
%RSD	.7016	1.255	.9471	1.283	1.685	1.930

#1	-2.041	31.70	179.0	72.04	150800.	10240.
#2	-2.045	32.50	181.9	73.42	154600.	10480.
#3	-2.018	32.20	181.9	73.82	155800.	10650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17060.	1502.	141.8	75.31	66.95	2.614
Stddev	258.	24.	8.0	1.42	1.73	2.545
%RSD	1.513	1.574	5.661	1.893	2.589	97.35

#1	16770.	1475.	132.6	73.78	65.11	3.944
#2	17130.	1510.	145.3	75.53	67.21	4.218
#3	17280.	1520.	147.4	76.61	68.54	-.3201

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-2-A@4 Acquired: 4/13/2016 19:29:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.85	-2.971	256.9	373.1	15.67	5.216
Stddev	5.24	.397	2.7	6.0	.69	.125
%RSD	40.77	13.35	1.049	1.603	4.416	2.389
#1	9.111	-2.913	253.8	366.2	15.05	5.168
#2	10.61	-2.608	258.7	376.0	16.42	5.122
#3	18.84	-3.394	258.1	377.0	15.55	5.357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.922	41.31	3741.	1630.
Stddev	.229	1.05	69.	45.
%RSD	5.839	2.539	1.831	2.776
#1	4.123	40.19	3667.	1578.
#2	3.971	41.47	3753.	1654.
#3	3.673	42.27	3803.	1659.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3350.3	41859.	6337.7
Stddev	18.4	239.	4.0
%RSD	.54776	.57190	.06292
#1	3355.2	41720.	6342.3
#2	3330.0	41722.	6335.8
#3	3365.7	42136.	6335.0

Sample Name: 460-111972-E-8-B@4 Acquired: 4/13/2016 17:06:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6830.	32.62	-.1413	24.49	.2554	453.7
Stddev	89.	1.04	.7422	.28	.0540	7.4
%RSD	1.297	3.176	525.3	1.129	21.13	1.623
#1	6801.	31.82	-.9897	24.21	.3159	445.2
#2	6760.	32.25	.1780	24.48	.2382	457.5
#3	6930.	33.79	.3878	24.77	.2121	458.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7359	.8064	26.05	11.07	26280.	1745.
Stddev	.0568	.2344	.44	.44	228.	33.
%RSD	7.719	29.07	1.693	4.009	.8691	1.901
#1	-.7534	.9873	26.55	10.73	26100.	1724.
#2	-.6724	.5416	25.74	10.91	26190.	1728.
#3	-.7819	.8904	25.85	11.57	26530.	1783.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	594.8	33.01	52.10	2.050	11.90	1.175
Stddev	3.2	.24	11.51	.491	1.04	1.528
%RSD	.5370	.7229	22.09	23.95	8.751	130.0
#1	593.3	32.76	64.25	1.671	10.70	1.367
#2	592.6	33.02	41.36	1.874	12.53	2.597
#3	598.4	33.24	50.68	2.605	12.48	-.4400

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111972-E-8-B@4 Acquired: 4/13/2016 17:06:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.597	-.9196	39.26	14.08	6.931	1.550
Stddev	1.321	.2580	.16	.26	.363	.256
%RSD	50.85	28.05	.4083	1.860	5.235	16.54
#1	3.519	-1.003	39.26	13.83	6.516	1.753
#2	3.187	-.6302	39.42	14.35	7.191	1.635
#3	1.084	-1.125	39.10	14.04	7.086	1.262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0046	8.018	197.9	1298.
Stddev	.4943	.040	1.2	38.
%RSD	10810.	.5040	.5856	2.902
#1	-.5196	8.005	197.0	1279.
#2	.4623	8.063	197.4	1341.
#3	.0710	7.986	199.2	1274.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3084.4	38596.	5695.0
Stddev	27.3	416.	150.8
%RSD	.88352	1.0766	2.6479
#1	3115.1	38846.	5758.3
#2	3063.2	38826.	5803.9
#3	3074.9	38116.	5522.9

Sample Name: 460-111285-A-73-A@4 Acquired: 4/13/2016 19:45:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104400.	51.73	-.9865	1184.	4.244	13750.
Stddev	222.	2.12	.3730	2.	.129	111.
%RSD	.2124	4.091	37.81	.2085	3.040	.8081
#1	104200.	54.09	-1.417	1186.	4.117	13670.
#2	104500.	51.07	-.7636	1185.	4.239	13710.
#3	104600.	50.02	-.7788	1181.	4.375	13880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4431	51.11	186.0	143.8	119100.	17720.
Stddev	.3048	.34	1.2	.8	296.	95.
%RSD	68.80	.6740	.6679	.5797	.2485	.5378
#1	-.3059	51.23	184.6	142.8	118800.	17640.
#2	-.2309	51.39	186.5	144.1	119200.	17680.
#3	-.7924	50.73	186.9	144.4	119400.	17820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29240.	3744.	245.9	78.49	269.6	3.841
Stddev	142.	14.	3.7	.25	.9	1.314
%RSD	.4857	.3871	1.511	.3237	.3184	34.22
#1	29130.	3734.	244.7	78.79	270.5	5.305
#2	29190.	3737.	250.1	78.36	269.7	2.765
#3	29400.	3760.	242.9	78.34	268.7	3.452

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-73-A@4 Acquired: 4/13/2016 19:45:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.386	-1.942	235.3	761.7	1.956	6.983
Stddev	1.201	1.853	1.2	1.4	.101	.029
%RSD	12.80	95.43	.5123	.1773	5.141	.4230
#1	8.001	-1.542	234.1	760.6	2.056	7.008
#2	10.13	-.3217	235.3	763.2	1.855	6.992
#3	10.02	-3.963	236.5	761.3	1.956	6.951

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.117	97.38	6685.	1656.
Stddev	.923	.40	10.	8.
%RSD	15.09	.4077	.1553	.5059
#1	7.170	96.95	6677.	1657.
#2	5.453	97.45	6681.	1663.
#3	5.727	97.74	6697.	1647.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3782.4	47060.	7180.7
Stddev	7.7	239.	57.9
%RSD	.20226	.50840	.80644
#1	3786.3	47148.	7208.5
#2	3773.6	47242.	7219.4
#3	3787.4	46789.	7114.1

Sample Name: 460-111285-A-82-A@4 Acquired: 4/13/2016 19:53:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92190.	64.73	-1.021	985.4	4.563	4596.
Stddev	361.	1.97	.397	1.2	.056	53.
%RSD	.3916	3.049	38.92	.1194	1.225	1.157
#1	92070.	64.09	-.6937	984.7	4.500	4557.
#2	91900.	63.16	-.9060	986.8	4.583	4574.
#3	92590.	66.95	-1.463	984.8	4.606	4656.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.593	53.72	138.2	91.23	113000.	12570.
Stddev	.243	.53	1.2	.43	871.	51.
%RSD	15.27	.9837	.8325	.4669	.7707	.4042
#1	-1.349	53.29	136.9	90.83	112300.	12570.
#2	-1.596	54.31	138.7	91.67	112600.	12520.
#3	-1.835	53.57	139.1	91.19	113900.	12620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25300.	3538.	69.04	63.49	83.86	5.169
Stddev	161.	21.	2.67	.60	1.71	.817
%RSD	.6355	.6019	3.868	.9451	2.040	15.80
#1	25160.	3517.	71.63	62.85	84.28	6.098
#2	25250.	3536.	66.29	64.04	81.97	4.567
#3	25470.	3560.	69.18	63.59	85.32	4.842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-82-A@4 Acquired: 4/13/2016 19:53:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.35	-1.259	249.1	391.4	1.365	5.610
Stddev	1.23	1.737	1.3	4.6	.475	.164
%RSD	11.93	138.0	.5155	1.175	34.82	2.919
#1	9.333	.7464	247.9	386.3	1.015	5.485
#2	11.72	-2.232	249.0	392.8	1.174	5.795
#3	9.985	-2.291	250.5	395.2	1.907	5.549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.984	69.49	5078.	1228.
Stddev	.477	.39	17.	27.
%RSD	11.99	.5561	.3350	2.176
#1	3.458	69.19	5065.	1228.
#2	4.102	69.93	5073.	1255.
#3	4.391	69.35	5097.	1202.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3709.2	45818.	6901.7
Stddev	9.4	383.	142.6
%RSD	.25312	.83598	2.0666
#1	3719.9	45899.	6914.5
#2	3702.4	46153.	7037.5
#3	3705.3	45400.	6753.1

Sample Name: 460-111285-A-97-A@4 Acquired: 4/13/2016 20:01:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122200.	29.77	-1.083	637.4	3.918	6257.
Stddev	2247.	.44	.278	9.8	.124	110.
%RSD	1.839	1.487	25.69	1.542	3.176	1.755
#1	119800.	29.58	-1.260	627.0	3.895	6136.
#2	122600.	30.28	-.7624	638.6	4.052	6286.
#3	124200.	29.45	-1.227	646.6	3.806	6350.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.524	41.64	197.5	77.52	172900.	9795.
Stddev	.130	.74	2.9	1.49	2762.	192.
%RSD	5.155	1.777	1.468	1.919	1.597	1.961
#1	-2.507	40.79	194.2	75.99	169800.	9600.
#2	-2.404	42.00	199.0	77.60	173900.	9801.
#3	-2.662	42.14	199.4	78.96	175000.	9984.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19060.	1180.	118.9	83.36	99.98	2.605
Stddev	380.	20.	7.5	1.47	2.34	.698
%RSD	1.995	1.724	6.297	1.768	2.345	26.78
#1	18650.	1158.	114.3	82.33	97.42	2.909
#2	19130.	1185.	114.9	82.70	100.5	3.099
#3	19400.	1198.	127.6	85.05	102.0	1.807

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-111285-A-97-A@4 Acquired: 4/13/2016 20:01:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.32	-3.906	283.1	260.7	13.57	5.773
Stddev	2.23	2.327	4.1	3.3	.24	.377
%RSD	16.77	59.58	1.459	1.284	1.773	6.534
#1	15.82	-4.056	278.7	257.2	13.70	5.372
#2	12.62	-6.154	283.6	261.0	13.71	5.827
#3	11.52	-1.507	287.0	263.9	13.29	6.121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.306	58.48	3995.	1759.
Stddev	.369	1.15	70.	47.
%RSD	11.17	1.966	1.742	2.675
#1	3.474	57.31	3919.	1705.
#2	3.562	58.52	4010.	1781.
#3	2.883	59.61	4056.	1791.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3334.1	41286.	6294.3
Stddev	8.8	158.	15.4
%RSD	.26333	.38313	.24476
#1	3324.8	41165.	6305.7
#2	3335.1	41230.	6276.8
#3	3342.3	41465.	6300.5

Sample Name: 460-112004-D-2-A@4 Acquired: 4/13/2016 17:14:59 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29880.	26.72	-5616	325.1	2.151	8492.
Stddev	188.	.96	.3963	2.7	.045	117.
%RSD	.6275	3.605	70.57	.8397	2.078	1.373
#1	30060.	25.83	-.3746	323.2	2.100	8418.
#2	29880.	26.59	-.2934	323.9	2.168	8431.
#3	29690.	27.74	-1.017	328.3	2.185	8626.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5297	100.7	166.0	280.9	86100.	4949.
Stddev	.0622	.8	2.2	2.6	664.	20.
%RSD	11.75	.8361	1.298	.9172	.7710	.4042
#1	-.4733	100.1	164.9	280.1	85890.	4936.
#2	-.5965	100.2	164.6	278.8	85570.	4972.
#3	-.5194	101.6	168.5	283.7	86850.	4940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21520.	850.0	500.7	888.1	364.6	1.478
Stddev	202.	9.2	6.5	8.8	5.4	1.032
%RSD	.9365	1.086	1.291	.9901	1.474	69.80
#1	21460.	846.6	506.1	882.9	360.5	1.446
#2	21350.	842.9	493.5	883.1	362.7	2.526
#3	21740.	860.4	502.4	898.2	370.7	.4631

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112004-D-2-A@4 Acquired: 4/13/2016 17:14:59 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.049	-1.652	90.33	3030.	9.387	6.122
Stddev	.649	1.630	1.00	23.	.390	.051
%RSD	10.73	98.66	1.105	.7712	4.153	.8277
#1	5.456	-3.432	89.89	3020.	9.833	6.162
#2	5.948	-.2307	89.63	3014.	9.218	6.139
#3	6.743	-1.295	91.47	3057.	9.111	6.065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.88	98.59	1480.	1010.
Stddev	.59	.28	13.	14.
%RSD	4.972	.2791	.8523	1.405
#1	11.57	98.81	1475.	1023.
#2	11.51	98.67	1471.	1012.
#3	12.56	98.28	1495.	994.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3173.8	40129.	6051.2
Stddev	15.3	383.	25.6
%RSD	.48298	.95539	.42266
#1	3170.7	39968.	6025.2
#2	3190.4	40567.	6076.3
#3	3160.2	39852.	6052.2

Sample Name: 460-111964-B-1-B@4 Acquired: 4/13/2016 20:05:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33620.	20.54	-1.189	407.6	1.746	19810.
Stddev	161.	2.73	.4585	4.0	.152	97.
%RSD	.4796	13.27	385.6	.9806	8.731	.4906

#1	33440.	17.88	.3721	403.1	1.652	19700.
#2	33690.	20.42	-.5359	409.1	1.922	19840.
#3	33740.	23.33	-.1928	410.6	1.663	19880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7622	32.84	75.90	145.8	81600.	3534.
Stddev	.2323	.09	.66	.9	570.	38.
%RSD	30.48	.2707	.8696	.6385	.6980	1.085

#1	-.5147	32.92	75.26	145.0	80980.	3523.
#2	-.7963	32.84	75.87	145.5	81730.	3577.
#3	-.9756	32.75	76.58	146.8	82100.	3503.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17650.	1758.	6357.	91.68	244.5	4.171
Stddev	113.	7.	49.	.53	1.0	1.019
%RSD	.6377	.3857	.7632	.5817	.4113	24.43

#1	17520.	1751.	6301.	91.90	243.5	3.390
#2	17720.	1760.	6385.	91.07	245.5	5.324
#3	17720.	1764.	6385.	92.07	244.5	3.798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111964-B-1-B@4 Acquired: 4/13/2016 20:05:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.618	-1.761	120.1	378.4	52.67	6.905
Stddev	1.241	.225	.5	1.7	1.04	.281
%RSD	14.40	12.78	.4355	.4514	1.980	4.072
#1	7.329	-1.997	119.5	376.8	51.80	6.999
#2	8.718	-1.739	120.5	378.3	52.39	6.588
#3	9.806	-1.548	120.2	380.2	53.83	7.126

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	20.35	91.74	2127.	1680.
Stddev	.86	.55	11.	23.
%RSD	4.227	.5958	.5009	1.368
#1	20.91	91.12	2116.	1662.
#2	20.78	92.12	2128.	1673.
#3	19.36	91.99	2138.	1706.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3151.2	39128.	5802.7
Stddev	10.1	158.	53.3
%RSD	.31910	.40464	.91801
#1	3141.1	39022.	5801.0
#2	3151.1	39053.	5750.2
#3	3161.2	39310.	5856.7

Sample Name: CCB Acquired: 4/13/2016 20:13:16 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.244	-1.297	.4061	.1964	.0349	-4.015
Stddev	22.10	.568	.2073	.1438	.0643	11.00
%RSD	520.8	43.77	51.04	73.24	184.4	274.1

#1	-13.39	-1.951	.6428	.3513	.0267	-8.604
#2	29.04	-.9342	.2567	.0671	.1028	8.541
#3	-2.913	-1.005	.3189	.1708	-.0249	-11.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0581	.1291	.0907	.5225	7.252	5.746
Stddev	.1306	.0314	.3308	.4354	8.652	33.33
%RSD	224.9	24.29	364.7	83.33	119.3	580.0

#1	.0279	.1042	.3061	.3285	16.97	30.28
#2	.0062	.1643	.2562	1.021	4.409	19.16
#3	-.2083	.1187	-.2902	.2178	.3783	-32.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.719	.2835	7.703	-.3779	.0331	1.193
Stddev	2.798	.2507	13.28	.2244	.4159	.616
%RSD	36.25	88.45	172.4	59.36	1256.	51.63

#1	4.905	.1790	2.584	-.6370	.2636	.8915
#2	10.50	.5695	22.79	-.2507	.2828	.7861
#3	7.750	.1019	-2.259	-.2462	-.4470	1.902

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 20:13:16 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.308	-.6009	-.4421	-.1243	-.0766	.5280
Stddev	2.511	1.840	.5219	.0099	.2261	.4984
%RSD	108.8	306.2	118.0	7.938	294.9	94.39
#1	.4313	-2.426	-.7773	-.1304	-.3004	1.029
#2	-2.856	-.6297	.1592	-.1295	-.0812	.5228
#3	-4.501	1.253	-.7082	-.1129	.1516	.0323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1384	.3544	.7953	11.79
Stddev	.3080	.5367	.6825	11.50
%RSD	222.6	151.5	85.82	97.56
#1	-.0239	.0553	.5032	3.248
#2	.4936	.9740	1.575	7.253
#3	-.0546	.0338	.3075	24.87

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3187.2	39714.	5752.4
Stddev	7.3	161.	39.2
%RSD	.22981	.40561	.68161
#1	3190.3	39898.	5784.3
#2	3178.8	39648.	5764.2
#3	3192.4	39596.	5708.6

Sample Name: 460-111964-B-3-B@4 Acquired: 4/13/2016 20:25:43 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39930.	11.40	.2643	519.5	2.700	19590.
Stddev	326.	1.32	.3844	4.5	.059	130.
%RSD	.8152	11.60	145.5	.8606	2.176	.6651

#1	39640.	11.00	.4263	514.3	2.652	19520.
#2	39860.	12.87	-.1747	522.3	2.766	19520.
#3	40280.	10.32	.5411	521.9	2.683	19740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8925	36.61	74.85	267.3	81420.	6594.
Stddev	.0428	.37	.26	1.6	308.	73.
%RSD	4.795	1.001	.3488	.6116	.3781	1.101

#1	-.8741	36.37	74.65	266.8	81320.	6530.
#2	-.9415	37.03	74.75	265.9	81170.	6579.
#3	-.8621	36.43	75.14	269.1	81760.	6673.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19280.	797.5	1802.	131.4	306.3	1.927
Stddev	134.	5.2	16.	.8	.6	1.095
%RSD	.6966	.6492	.8606	.5991	.1798	56.81

#1	19250.	795.2	1804.	130.6	305.9	1.301
#2	19170.	793.9	1785.	132.2	306.2	3.191
#3	19430.	803.5	1816.	131.6	306.9	1.289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111964-B-3-B@4 Acquired: 4/13/2016 20:25:43 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.178	-1.078	145.5	513.0	101.3	4.818
Stddev	2.814	1.102	.8	1.0	.8	.424
%RSD	34.41	102.2	.5325	.1920	.8012	8.808
#1	9.806	-2.336	145.5	511.9	100.4	4.339
#2	4.929	-.2851	144.8	513.6	102.0	4.971
#3	9.800	-.6124	146.3	513.6	101.3	5.145

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	28.48	87.48	3111.	1498.
Stddev	.46	.68	19.	19.
%RSD	1.611	.7820	.5951	1.237
#1	29.01	87.15	3103.	1477.
#2	28.23	87.02	3098.	1505.
#3	28.20	88.26	3132.	1511.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3190.8	39884.	5980.1
Stddev	20.4	220.	53.1
%RSD	.63930	.55279	.88725
#1	3213.1	40006.	6003.7
#2	3186.3	40016.	6017.2
#3	3173.1	39630.	5919.3

Sample Name: 460-111961-B-1-D@4 Acquired: 4/13/2016 20:29:46 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43420.	30.23	.3140	445.0	2.842	24430.
Stddev	98.	1.95	.3765	1.1	.050	10.
%RSD	.2259	6.459	119.9	.2360	1.741	.0424
#1	43340.	31.13	.7467	446.2	2.785	24450.
#2	43400.	27.99	.1346	444.2	2.873	24430.
#3	43530.	31.57	.0607	444.6	2.868	24430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8237	46.54	128.9	604.9	126500.	5247.
Stddev	.1409	.49	.7	.9	168.	44.
%RSD	17.10	1.053	.5221	.1548	.1327	.8456
#1	-.6712	45.98	128.1	605.4	126600.	5222.
#2	-.9490	46.75	129.0	605.4	126300.	5222.
#3	-.8508	46.88	129.4	603.8	126600.	5299.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20760.	1063.	8268.	138.2	1094.	3.057
Stddev	8.	2.	27.	.4	3.	1.243
%RSD	.0409	.2310	.3242	.3195	.3156	40.65
#1	20760.	1066.	8237.	138.2	1094.	2.583
#2	20750.	1063.	8278.	137.8	1091.	2.122
#3	20770.	1061.	8287.	138.7	1098.	4.468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111961-B-1-D@4 Acquired: 4/13/2016 20:29:46 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.57	-1.772	212.8	892.0	227.4	18.17
Stddev	2.50	1.597	1.5	6.6	1.4	.39
%RSD	23.68	90.12	.7031	.7380	.6049	2.132
#1	13.05	-2.112	213.8	892.4	226.2	18.09
#2	10.63	-.0326	213.6	885.3	227.2	18.59
#3	8.040	-3.172	211.1	898.4	228.9	17.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	38.46	129.5	2016.	1649.
Stddev	.74	.2	2.	18.
%RSD	1.922	.1320	.0941	1.079
#1	37.63	129.3	2017.	1669.
#2	38.68	129.5	2017.	1645.
#3	39.06	129.7	2014.	1634.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3169.5	39743.	5944.8
Stddev	19.3	180.	5.8
%RSD	.60751	.45371	.09830
#1	3147.5	39539.	5951.6
#2	3183.5	39812.	5941.1
#3	3177.5	39879.	5941.8

Sample Name: 460-111961-B-3-B@4 Acquired: 4/13/2016 20:37:48 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53360.	16.71	-.2680	396.7	3.314	41650.
Stddev	71.	.77	.0825	2.1	.064	60.
%RSD	.1330	4.625	30.77	.5325	1.920	.1434

#1	53280.	16.88	-.2844	395.7	3.268	41710.
#2	53370.	17.38	-.3410	395.2	3.386	41640.
#3	53420.	15.87	-.1785	399.1	3.287	41600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.114	55.72	173.5	357.1	129600.	4540.
Stddev	.139	.05	.7	.6	375.	31.
%RSD	12.45	.0924	.4143	.1654	.2894	.6789

#1	-1.264	55.70	173.4	356.6	129900.	4515.
#2	-.9898	55.68	172.9	357.0	129200.	4574.
#3	-1.088	55.77	174.3	357.8	129600.	4532.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29050.	1512.	3375.	196.7	327.3	3.995
Stddev	107.	2.	3.	.6	2.9	1.807
%RSD	.3699	.1044	.0855	.2812	.8986	45.24

#1	29170.	1514.	3374.	196.4	330.5	4.441
#2	28960.	1513.	3372.	196.3	324.7	5.537
#3	29010.	1511.	3378.	197.3	326.6	2.006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111961-B-3-B@4 Acquired: 4/13/2016 20:37:48 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.687	-4.730	217.8	1108.	258.9	13.17
Stddev	.735	.481	.3	3.	.8	.17
%RSD	7.592	10.18	.1170	.2493	.2946	1.253
#1	10.34	-5.249	218.0	1112.	258.2	13.11
#2	9.835	-4.644	217.9	1107.	259.7	13.36
#3	8.889	-4.297	217.5	1107.	258.7	13.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	29.34	136.7	3750.	1784.
Stddev	.37	1.1	3.	10.
%RSD	1.269	.8180	.0712	.5672
#1	28.91	136.6	3753.	1789.
#2	29.51	137.9	3749.	1773.
#3	29.59	135.7	3748.	1791.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3186.7	39782.	5955.4
Stddev	13.0	298.	10.1
%RSD	.40797	.74805	.16947
#1	3172.8	39458.	5946.4
#2	3198.7	40042.	5953.6
#3	3188.4	39847.	5966.3

Sample Name: 460-111950-E-2-B@4 Acquired: 4/13/2016 20:45:54 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8277.	1.399	-1.1299	23.34	.3707	5062.
Stddev	124.	.511	.3891	.48	.0732	92.
%RSD	1.498	36.50	299.4	2.050	19.75	1.810
#1	8149.	1.957	.0401	22.81	.2919	4960.
#2	8286.	.9546	-.5751	23.48	.4367	5090.
#3	8396.	1.286	.1452	23.73	.3834	5137.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4382	5.878	30.06	5.452	14880.	1537.
Stddev	.1200	.221	1.07	.219	296.	65.
%RSD	27.38	3.755	3.569	4.020	1.986	4.249
#1	-.4383	6.041	28.94	5.207	14590.	1506.
#2	-.3181	5.966	30.17	5.517	14870.	1493.
#3	-.5581	5.626	31.08	5.630	15180.	1612.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3873.	179.9	651.8	15.11	14.64	.8965
Stddev	87.	4.0	10.7	.48	1.45	1.370
%RSD	2.243	2.228	1.643	3.209	9.901	152.8
#1	3782.	175.9	640.4	14.66	13.30	-.6220
#2	3883.	180.1	653.3	15.06	16.18	1.273
#3	3955.	183.9	661.6	15.63	14.45	2.038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111950-E-2-B@4 Acquired: 4/13/2016 20:45:54 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.6740	-2.282	22.54	38.05	7.458	1.239
Stddev	3.426	.751	.38	.63	.531	.257
%RSD	508.2	32.91	1.706	1.664	7.127	20.74
#1	2.831	-2.849	22.41	37.36	7.652	.9565
#2	-.8392	-2.568	22.24	38.61	6.857	1.459
#3	-4.014	-1.430	22.97	38.17	7.865	1.303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8314	22.71	751.6	694.2
Stddev	.7680	.39	12.0	23.4
%RSD	92.36	1.706	1.601	3.367
#1	.5059	22.29	738.5	684.4
#2	1.709	22.78	754.4	677.3
#3	.2799	23.06	762.1	720.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3178.0	39553.	5892.1
Stddev	18.6	383.	95.1
%RSD	.58459	.96955	1.6136
#1	3156.8	39110.	5794.1
#2	3185.7	39756.	5898.1
#3	3191.4	39791.	5984.0

Sample Name: 460-112006-B-1-A@4 Acquired: 4/13/2016 17:18:56 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40500.	11.50	-.4323	206.3	1.934	F 430000.
Stddev	133.	2.10	.1115	.6	.127	3301.
%RSD	.3283	18.28	25.78	.2948	6.564	.7676
#1	40550.	13.58	-.5215	205.8	2.066	426500.
#2	40350.	9.377	-.3073	207.0	1.924	430700.
#3	40610.	11.54	-.4680	206.1	1.813	433000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5913	25.24	45.27	50.50	54690.	13700.
Stddev	.0705	.22	.42	.14	126.	26.
%RSD	11.92	.8746	.9282	.2695	.2307	.1919
#1	-.6290	25.02	45.62	50.46	54610.	13690.
#2	-.6349	25.24	44.80	50.66	54830.	13680.
#3	-.5100	25.46	45.37	50.40	54610.	13730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19800.	1220.	12870.	51.01	14.22	.2365
Stddev	35.	3.	27.	.46	.78	1.827
%RSD	.1774	.2080	.2082	.9018	5.499	772.3
#1	19760.	1217.	12880.	50.52	15.11	-.8386
#2	19830.	1221.	12840.	51.08	13.66	2.346
#3	19800.	1222.	12880.	51.44	13.89	-.7976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-B-1-A@4 Acquired: 4/13/2016 17:18:56 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.788	-1.163	51.14	121.5	92.56	2.016
Stddev	3.190	1.440	.28	.6	.23	.037
%RSD	84.22	123.8	.5445	.4818	.2461	1.855
#1	-5.060	-2.033	50.82	121.4	92.31	2.027
#2	-.1580	-1.955	51.27	120.9	92.75	1.975
#3	-6.146	.4991	51.34	122.1	92.61	2.047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7405	2190.	898.7	2473.
Stddev	1.480	7.	1.6	72.
%RSD	199.9	.3289	.1765	2.901
#1	-.2586	2192.	897.1	2530.
#2	2.441	2181.	900.2	2497.
#3	.0390	2195.	898.8	2393.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3030.2	38162.	5859.0
Stddev	5.3	77.	39.2
%RSD	.17502	.20163	.66831
#1	3026.8	38074.	5814.8
#2	3036.4	38195.	5889.3
#3	3027.5	38217.	5872.8

Sample Name: 460-112006-B-2-A@4 Acquired: 4/13/2016 17:23:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42230.	10.05	-4.077	190.9	1.877	224600.
Stddev	195.	2.26	.1185	.6	.033	1577.
%RSD	.4614	22.52	29.07	.3053	1.759	.7022

#1	42030.	9.245	-.2752	190.2	1.893	225500.
#2	42420.	8.294	-.5035	191.3	1.899	225400.
#3	42250.	12.60	-.4445	191.1	1.839	222800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3927	21.23	58.24	36.50	66160.	9458.
Stddev	.1945	.16	1.17	.13	350.	59.
%RSD	49.54	.7314	2.004	.3517	.5289	.6261

#1	-.5413	21.32	58.23	36.55	66360.	9391.
#2	-.4643	21.31	59.41	36.60	66370.	9503.
#3	-.1725	21.05	57.08	36.36	65760.	9481.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19120.	961.4	7039.	56.12	14.00	1.677
Stddev	89.	4.4	41.	.39	.13	.554
%RSD	.4662	.4533	.5860	.7004	.9310	33.02

#1	19070.	963.5	7002.	55.69	14.09	2.296
#2	19220.	964.4	7083.	56.22	14.06	1.505
#3	19060.	956.4	7032.	56.46	13.85	1.229

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-B-2-A@4 Acquired: 4/13/2016 17:23:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.161	-7.155	44.17	123.2	45.97	.9515
Stddev	2.574	2.198	.50	.1	.64	.0571
%RSD	221.8	307.2	1.123	.0462	1.382	6.000
#1	4.101	-2.904	44.22	123.1	45.32	1.009
#2	-.6917	1.492	44.64	123.2	45.99	.9515
#3	.0737	-.7344	43.65	123.3	46.59	.8944

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.436	1534.	626.0	1960.
Stddev	.173	3.	1.1	89.
%RSD	12.06	.2117	.1701	4.537
#1	1.347	1532.	624.8	2047.
#2	1.326	1538.	626.9	1962.
#3	1.636	1532.	626.2	1870.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3080.1	38975.	5899.1
Stddev	27.8	665.	41.0
%RSD	.90140	1.7067	.69529
#1	3057.5	38525.	5865.6
#2	3071.7	38660.	5886.8
#3	3111.1	39739.	5944.8

Sample Name: 460-109943-G-3-D Acquired: 4/13/2016 17:27:08 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.07	-2.519	.1660	37.91	-.0100	17760.
Stddev	7.54	1.382	.3109	.04	.0764	60.
%RSD	27.87	54.85	187.4	.1017	762.0	.3394

#1	18.82	-1.676	.5121	37.95	.0415	17750.
#2	33.61	-1.767	.0757	37.88	.0263	17830.
#3	28.78	-4.114	-.0899	37.91	-.0978	17710.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0020	.8898	4.265	.3379	11.02	14740.
Stddev	.0798	.1714	.343	.3988	13.70	41.
%RSD	4009.	19.26	8.037	118.0	124.3	.2774

#1	-.0194	1.054	4.355	.1892	4.252	14770.
#2	.0850	.7124	4.553	.0348	26.79	14770.
#3	-.0716	.9028	3.886	.7897	2.023	14700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3219.	856.3	38110.	12.79	-3.200	2.589
Stddev	26.	.6	35.	.31	.660	1.255
%RSD	.8002	.0719	.0907	2.428	20.61	48.45

#1	3225.	856.0	38150.	12.67	-3.833	1.832
#2	3191.	857.0	38090.	12.55	-2.517	4.038
#3	3241.	855.8	38080.	13.14	-3.250	1.899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109943-G-3-D Acquired: 4/13/2016 17:27:08 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.676	-2.235	.8999	32.29	41.03	-.3042
Stddev	.359	.8381	.2648	.04	.86	.1310
%RSD	21.40	374.9	29.43	.1348	2.089	43.04
#1	-1.556	-.9936	.7736	32.28	41.48	-.3268
#2	-1.393	.6691	1.204	32.24	41.56	-.1634
#3	-2.079	-.3462	.7218	32.33	40.04	-.4224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1902	75.00	1.077	5406.
Stddev	1.101	.53	.074	12.
%RSD	578.9	.7108	6.838	.2231
#1	-.4743	74.96	1.105	5403.
#2	1.461	75.55	1.133	5395.
#3	-.4163	74.49	.9937	5419.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3173.2	39932.	6072.1
Stddev	7.5	36.	29.5
%RSD	.23490	.09050	.48639
#1	3165.2	39951.	6051.8
#2	3174.7	39890.	6058.6
#3	3179.9	39954.	6106.0

Sample Name: CCVL Acquired: 4/13/2016 17:39:14 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	188.1	14.07	9.788	212.6	2.023	5237.
Stddev	13.1	1.44	.280	.5	.070	13.
%RSD	6.965	10.21	2.863	.2584	3.437	.2563

#1	195.6	13.72	9.801	212.2	1.996	5225.
#2	173.0	15.65	10.06	212.2	1.971	5252.
#3	195.8	12.84	9.501	213.2	2.102	5234.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.110	53.29	10.15	24.24	158.2	4800.
Stddev	.023	.15	.35	.23	12.3	61.
%RSD	.5543	.2735	3.483	.9458	7.773	1.269

#1	4.118	53.42	10.08	23.97	157.6	4746.
#2	4.084	53.32	10.54	24.34	146.2	4787.
#3	4.128	53.14	9.842	24.40	170.7	4866.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4870.	16.32	4709.	43.23	9.808	18.69
Stddev	29.	.06	7.	.44	1.447	1.23
%RSD	.5968	.3944	.1545	1.015	14.75	6.564

#1	4844.	16.32	4706.	43.73	11.36	17.46
#2	4901.	16.38	4703.	42.92	9.563	18.70
#3	4864.	16.25	4717.	43.05	8.500	19.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 17:39:14 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.18	20.97	51.86	32.07	49.78	19.95
Stddev	2.25	1.82	.48	.12	.47	.41
%RSD	13.09	8.664	.9195	.3842	.9465	2.063

#1	15.07	22.31	51.48	32.01	49.25	20.02
#2	19.55	21.69	52.40	32.21	49.94	19.51
#3	16.93	18.90	51.70	31.99	50.15	20.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.24	20.68	20.68	F 8.319
Stddev	.63	.03	.13	15.82
%RSD	1.227	.1242	.6319	190.1

#1	51.72	20.65	20.82	-9.639
#2	51.47	20.68	20.66	14.42
#3	50.53	20.70	20.56	20.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3150.4	39221.	5696.6
Stddev	25.2	33.	8.4
%RSD	.80110	.08366	.14727

#1	3130.0	39223.	5700.0
#2	3142.5	39188.	5702.7
#3	3178.6	39253.	5687.0

Sample Name: 460-109943-G-5-D Acquired: 4/13/2016 17:47:27 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.75	-1.672	.4403	49.78	-.0444	14560.
Stddev	14.05	1.859	.4484	.27	.1243	49.
%RSD	79.13	111.2	101.8	.5390	279.8	.3338

#1	30.73	-2.014	.3118	49.55	-.1272	14520.
#2	19.71	.3348	.0703	49.70	.0985	14550.
#3	2.832	-3.336	.9390	50.07	-.1047	14620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2777	.3343	2.479	-.0189	4.515	3617.
Stddev	.1257	.0467	.566	.1980	7.580	32.
%RSD	45.26	13.98	22.82	1046.	167.9	.8826

#1	.2809	.3716	2.414	-.2475	-.7411	3638.
#2	.1504	.3493	1.948	.1021	13.20	3581.
#3	.4017	.2819	3.074	.0885	1.083	3633.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3965.	152.9	34530.	44.16	-3.397	2.331
Stddev	27.	.8	9.	.57	.456	.971
%RSD	.6686	.5090	.0256	1.284	13.41	41.67

#1	3937.	152.2	34530.	44.74	-3.652	3.437
#2	3968.	152.7	34540.	44.13	-2.871	1.944
#3	3990.	153.7	34520.	43.61	-3.668	1.613

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109943-G-5-D Acquired: 4/13/2016 17:47:27 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.063	.1862	-.2959	5.496	31.98	-.4646
Stddev	2.583	.4945	.2284	.223	.09	.0717
%RSD	125.2	265.5	77.19	4.061	.2837	15.44

#1	.3413	.0371	-.1534	5.254	31.91	-.4434
#2	-4.793	.7381	-.1750	5.540	32.08	-.5446
#3	-1.737	-.2165	-.5594	5.694	31.94	-.4059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4111	88.76	.6823	4113.
Stddev	.2932	.24	.0956	23.
%RSD	71.32	.2666	14.01	.5535

#1	-.3669	88.65	.5720	4124.
#2	-.1425	88.60	.7357	4087.
#3	-.7239	89.03	.7392	4128.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3156.6	39575.	5929.7
Stddev	7.2	132.	10.1
%RSD	.22656	.33296	.17112

#1	3150.3	39718.	5918.0
#2	3164.4	39550.	5936.0
#3	3155.2	39458.	5935.2

Sample Name: 460-109980-E-2-D Acquired: 4/13/2016 17:55:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.24	-1.914	.5285	41.31	-.0350	10980.
Stddev	4.18	1.913	.0320	.19	.0705	14.
%RSD	25.73	99.95	6.046	.4709	201.3	.1257
#1	11.64	-2.585	.5418	41.15	-.1024	10980.
#2	17.28	-3.402	.4921	41.24	-.0408	10960.
#3	19.80	.2441	.5517	41.53	.0382	10990.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1505	1.280	13.93	-.5981	.8379	3364.
Stddev	.0555	.030	.86	.2120	5.744	31.
%RSD	36.85	2.373	6.146	35.44	685.5	.9174
#1	-.0945	1.314	14.86	-.8268	-4.588	3367.
#2	-.1516	1.257	13.18	-.5594	6.854	3394.
#3	-.2054	1.270	13.74	-.4082	.2474	3332.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2716.	36.71	22720.	87.78	-4.510	1.075
Stddev	3.	.06	63.	.62	1.261	1.030
%RSD	.1018	.1586	.2762	.7052	27.95	95.85
#1	2713.	36.75	22780.	87.39	-4.942	.2552
#2	2719.	36.64	22740.	88.49	-5.498	2.231
#3	2716.	36.73	22660.	87.45	-3.090	.7379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-E-2-D Acquired: 4/13/2016 17:55:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.776	.4189	-.4187	1.466	36.01	-.5884
Stddev	1.770	1.161	.5259	.195	.47	.1672
%RSD	99.64	277.1	125.6	13.29	1.297	28.42
#1	-.5351	1.418	-1.019	1.255	35.61	-.4472
#2	-3.803	-.8543	-.1957	1.502	36.52	-.5448
#3	-.9910	.6932	-.0410	1.639	35.90	-.7730

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2862	75.75	.5852	4960.
Stddev	.1059	.48	.1755	28.
%RSD	37.02	.6362	29.98	.5654
#1	-.3858	75.41	.6677	4934.
#2	-.1749	76.30	.7043	4990.
#3	-.2979	75.53	.3837	4956.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3143.3	39335.	6002.4
Stddev	9.9	117.	27.3
%RSD	.31453	.29709	.45435
#1	3154.4	39443.	6028.8
#2	3135.4	39351.	6004.1
#3	3140.1	39211.	5974.4

Sample Name: 460-109980-F-3-B Acquired: 4/13/2016 17:59:48 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.61	-2.009	-.0455	85.64	.0215	15530.
Stddev	4.62	1.120	.5220	.04	.0690	99.
%RSD	18.77	55.74	1147.	.0408	321.2	.6362

#1	23.30	-1.336	-.4662	85.64	-.0578	15610.
#2	20.78	-1.388	-.2089	85.60	.0543	15560.
#3	29.74	-3.301	.5386	85.67	.0679	15420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8622	.5719	7.251	-.1956	-5.574	7761.
Stddev	.0669	.1740	.377	.1467	3.690	59.
%RSD	7.760	30.42	5.196	74.97	66.20	.7588

#1	.9281	.5131	7.030	-.0633	-1.399	7764.
#2	.7943	.4349	7.686	-.3533	-8.399	7818.
#3	.8640	.7677	7.038	-.1703	-6.925	7701.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4113.	41.61	34470.	25.41	-3.956	1.242
Stddev	27.	.12	201.	.45	2.298	1.085
%RSD	.6653	.2893	.5816	1.776	58.10	87.39

#1	4138.	41.54	34610.	25.02	-4.320	.8983
#2	4118.	41.75	34560.	25.90	-1.497	.3699
#3	4084.	41.54	34240.	25.29	-6.050	2.457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-F-3-B Acquired: 4/13/2016 17:59:48 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.662	.3236	-.2711	3.961	36.37	-.6435
Stddev	3.179	.8949	.3769	.198	.57	.2192
%RSD	191.3	276.6	139.0	4.995	1.571	34.06
#1	1.090	1.353	-.5582	4.178	36.09	-.7658
#2	-.9334	-.1094	.1557	3.790	35.99	-.7741
#3	-5.142	-.2726	-.4108	3.915	37.03	-.3905

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2020	94.06	.6704	6065.
Stddev	.6276	.19	.0666	84.
%RSD	310.8	.2011	9.937	1.382
#1	.4374	93.89	.6460	5988.
#2	.6778	94.27	.7457	6154.
#3	-.5093	94.03	.6193	6053.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3102.3	38932.	5931.6
Stddev	10.1	141.	49.8
%RSD	.32639	.36162	.83984
#1	3102.2	38838.	5876.1
#2	3092.2	38863.	5972.5
#3	3112.5	39093.	5946.2

Sample Name: 460-109980-F-5-B Acquired: 4/13/2016 18:08:02 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	141.6	-2.079	.0773	166.8	.1538	9907.
Stddev	3.8	1.646	.1922	.7	.0818	7.
%RSD	2.712	79.20	248.6	.4227	53.21	.0722

#1	137.4	-3.538	-.1348	166.1	.0953	9915.
#2	142.3	-.2939	.1268	167.0	.2472	9901.
#3	145.0	-2.404	.2399	167.4	.1187	9905.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1852	.1585	3.007	-.0554	8.787	2500.
Stddev	.1117	.0616	.370	.2833	11.26	23.
%RSD	60.31	38.84	12.31	511.6	128.2	.9302

#1	.2801	.0938	2.720	.2086	17.82	2485.
#2	.2134	.1654	2.877	-.3547	12.37	2526.
#3	.0621	.2163	3.425	-.0201	-3.830	2487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2537.	192.2	43160.	15.03	-2.589	-.1593
Stddev	6.	.4	131.	.41	.705	1.026
%RSD	.2382	.1936	.3031	2.703	27.24	643.7

#1	2536.	192.5	43260.	14.89	-2.717	-.3283
#2	2544.	191.8	43210.	14.72	-1.829	.9403
#3	2532.	192.4	43010.	15.49	-3.222	-1.090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-F-5-B Acquired: 4/13/2016 18:08:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.143	.3340	-.1622	2.625	27.12	-.6575
Stddev	2.741	1.333	.3354	.125	.67	.0629
%RSD	87.20	399.0	206.8	4.742	2.465	9.563
#1	-3.138	-1.199	.1485	2.664	26.50	-.6219
#2	-5.887	1.213	-.1175	2.486	27.02	-.7301
#3	-.4052	.9881	-.5177	2.726	27.83	-.6205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4826	66.51	.5115	3825.
Stddev	.3900	.08	.0781	40.
%RSD	80.82	.1181	15.27	1.042
#1	-.7451	66.58	.4263	3779.
#2	-.6683	66.42	.5798	3851.
#3	-.0344	66.53	.5283	3844.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3086.1	38409.	5676.0
Stddev	13.7	48.	21.3
%RSD	.44463	.12426	.37571
#1	3099.5	38390.	5654.9
#2	3072.1	38374.	5675.5
#3	3086.8	38463.	5697.5

Sample Name: 460-109980-D-8-B Acquired: 4/13/2016 18:16:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.34	-4.331	-.0325	32.29	-.0165	8549.
Stddev	16.92	1.379	.1322	.18	.0822	28.
%RSD	137.2	31.85	406.6	.5561	497.2	.3263
#1	.6896	-5.639	.1068	32.14	.0195	8544.
#2	4.572	-4.465	-.0483	32.23	-.1106	8525.
#3	31.75	-2.890	-.1561	32.49	.0415	8580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2446	.2032	46.21	-.0791	-7.764	2426.
Stddev	.1207	.0931	.35	.1298	8.768	15.
%RSD	49.35	45.81	.7617	163.9	112.9	.6006
#1	-.3683	.2794	46.61	-.1657	-11.90	2417.
#2	-.1272	.2307	46.08	.0700	2.308	2418.
#3	-.2382	.0995	45.94	-.1418	-13.70	2442.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3470.	11.36	25910.	29.94	-2.789	.6155
Stddev	18.	.09	68.	.21	1.337	1.655
%RSD	.5273	.7646	.2627	.7094	47.93	268.9
#1	3450.	11.45	25870.	30.18	-1.310	-.9671
#2	3474.	11.37	25870.	29.80	-3.911	.4784
#3	3486.	11.27	25990.	29.83	-3.146	2.335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-109980-D-8-B Acquired: 4/13/2016 18:16:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1205	-1.278	.0588	4.921	30.52	-.2751
Stddev	1.124	.464	.4045	.203	.95	.2007
%RSD	932.6	36.31	688.0	4.128	3.129	72.94
#1	.5238	-.8350	.0741	4.727	31.46	-.1302
#2	.5327	-1.761	.4555	4.903	29.55	-.1910
#3	-1.418	-1.239	-.3532	5.132	30.55	-.5041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0007	82.38	.3335	4999.
Stddev	1.004	.23	.2353	58.
%RSD	137200.	.2808	70.56	1.164
#1	-1.143	82.11	.3263	4988.
#2	.4063	82.54	.5723	5062.
#3	.7388	82.47	.1018	4947.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3118.1	39004.	5928.0
Stddev	7.0	89.	43.0
%RSD	.22534	.22819	.72555
#1	3120.9	38979.	5922.4
#2	3110.1	39103.	5973.6
#3	3123.3	38931.	5888.1

Sample Name: CCV Acquired: 4/13/2016 18:24:33 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	2567.	1237.	10470.	1002.	129000.
Stddev	214.	6.	3.	12.	2.	379.
%RSD	.1749	.2205	.2519	.1157	.1521	.2935

#1	121900.	2566.	1241.	10460.	1000.	129200.
#2	122300.	2562.	1235.	10460.	1003.	128500.
#3	121900.	2573.	1235.	10480.	1003.	129200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1293.	2560.	5258.	12680.	101000.	49560.
Stddev	3.	4.	11.	14.	284.	113.
%RSD	.2482	.1562	.2125	.1101	.2810	.2285

#1	1293.	2558.	5262.	12700.	101300.	49470.
#2	1290.	2558.	5245.	12670.	101000.	49690.
#3	1296.	2565.	5266.	12680.	100800.	49540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123600.	5199.	120700.	2619.	7518.	1004.
Stddev	401.	11.	227.	7.	17.	4.
%RSD	.3243	.2045	.1879	.2856	.2199	.4414

#1	124000.	5208.	120600.	2615.	7512.	1002.
#2	123300.	5187.	120900.	2615.	7505.	1000.0
#3	123300.	5201.	120500.	2628.	7537.	1008.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 18:24:33 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2437.	2570.	2561.	2549.	1038.	2589.
Stddev	9.	24.	5.	2.	7.	5.
%RSD	.3571	.9156	.2111	.0775	.6732	.1802

#1	2439.	2582.	2567.	2550.	1034.	2589.
#2	2427.	2543.	2557.	2547.	1033.	2585.
#3	2443.	2586.	2558.	2551.	1046.	2594.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1041.	5078.	10100.	9717.
Stddev	4.	5.	57.	96.
%RSD	.3599	.1027	.5689	.9873

#1	1043.	5072.	10030.	9645.
#2	1036.	5082.	10120.	9680.
#3	1043.	5081.	10140.	9826.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2969.8	37752.	5761.1
Stddev	11.5	69.	31.7
%RSD	.38819	.18373	.54980

#1	2973.1	37693.	5744.3
#2	2979.4	37829.	5741.4
#3	2957.0	37734.	5797.6

Sample Name: CCB Acquired: 4/13/2016 18:28:24 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.616	-1.251	.0553	.1316	-.0341	-29.78
Stddev	4.836	1.049	.3416	.0624	.0682	4.83
%RSD	63.50	83.86	618.0	47.37	200.3	16.20
#1	-4.894	-2.370	.4141	.0894	-.1019	-31.07
#2	-4.754	-.2883	-.2659	.2033	.0345	-33.83
#3	-13.20	-1.096	.0177	.1022	-.0348	-24.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1574	-.0516	.1572	-.3560	-1.221	13.19
Stddev	.0623	.3011	.1279	.4231	6.248	25.06
%RSD	39.57	583.2	81.36	118.8	511.9	190.0
#1	-.1520	.1805	.1582	-.7431	5.427	31.60
#2	-.2222	-.3919	.2847	-.4207	-2.117	23.33
#3	-.0980	.0565	.0289	.0957	-6.972	-15.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.460	.1320	8.883	-.3894	-1.944	.9011
Stddev	3.333	.1838	5.469	.3709	.082	.6227
%RSD	39.40	139.2	61.56	95.27	4.206	69.11
#1	8.423	.1148	15.20	-.2554	-2.026	.2334
#2	5.146	-.0425	5.738	-.1040	-1.862	1.004
#3	11.81	.3238	5.714	-.8087	-1.944	1.466

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 18:28:24 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.308	-1.103	-.0271	-.0658	-.5950	.7524
Stddev	2.440	.489	.3372	.0892	.1788	.5541
%RSD	186.6	44.38	1244.	135.6	30.05	73.65
#1	3.852	-.5967	-.3177	-.0295	-.4905	1.293
#2	1.083	-1.138	-.1062	-.0005	-.8015	.7778
#3	-1.012	-1.574	.3426	-.1674	-.4930	.1859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2010	.0423	.4554	9.456
Stddev	.2285	.0313	.2117	14.66
%RSD	113.7	73.98	46.49	155.0
#1	-.4142	.0551	.5333	8.091
#2	-.2291	.0653	.2158	-4.471
#3	.0403	.0067	.6170	24.75

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3141.1	39478.	5851.5
Stddev	13.9	93.	51.3
%RSD	.44206	.23541	.87739
#1	3153.8	39585.	5814.1
#2	3143.2	39420.	5830.3
#3	3126.3	39428.	5910.1

Sample Name: CCVL Acquired: 4/13/2016 18:32:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.0	10.96	10.25	217.8	2.000	5296.
Stddev	18.8	.87	.41	.6	.085	14.
%RSD	9.311	7.932	3.958	.2529	4.262	.2611

#1	217.1	10.67	9.791	217.8	2.002	5301.
#2	208.0	10.27	10.56	218.3	1.913	5280.
#3	181.0	11.93	10.40	217.2	2.084	5306.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.132	54.22	10.88	24.95	154.9	4892.
Stddev	.021	.31	.63	.27	13.3	13.
%RSD	.5142	.5731	5.765	1.062	8.576	.2628

#1	4.157	53.87	11.53	25.25	139.8	4878.
#2	4.121	54.47	10.28	24.78	164.7	4904.
#3	4.119	54.32	10.82	24.81	160.3	4895.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4897.	16.65	4766.	44.11	11.39	20.51
Stddev	5.	.10	30.	.37	2.19	.20
%RSD	.1050	.6254	.6228	.8359	19.26	.9705

#1	4901.	16.70	4764.	43.72	13.92	20.65
#2	4891.	16.53	4797.	44.45	10.23	20.59
#3	4899.	16.72	4737.	44.17	10.03	20.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 18:32:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.67	21.37	52.36	32.14	50.87	20.68
Stddev	1.49	1.93	.17	.22	.38	.06
%RSD	8.913	9.052	.3249	.6789	.7394	.2673
#1	18.04	19.14	52.48	32.39	51.25	20.74
#2	15.09	22.47	52.16	31.99	50.87	20.63
#3	16.88	22.50	52.42	32.05	50.49	20.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.38	21.02	20.64	F 2.250
Stddev	.94	.16	.04	7.274
%RSD	1.799	.7656	.2103	323.3
#1	52.67	20.98	20.64	9.712
#2	53.14	21.20	20.60	-4.821
#3	51.32	20.89	20.68	1.859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3127.0	39260.	5849.4
Stddev	7.1	40.	56.4
%RSD	.22851	.10092	.96462
#1	3134.5	39294.	5853.3
#2	3126.0	39269.	5791.2
#3	3120.3	39217.	5903.8

Sample Name: MB 460-362061/1-A@2 Acquired: 4/13/2016 18:40:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-14.79	-1.156	.5750	.0730	.0420	-30.24
Stddev	11.78	1.639	.5337	.1506	.0635	7.88
%RSD	79.68	141.8	92.81	206.4	151.1	26.06
#1	-19.69	-2.287	1.174	.0075	.0892	-37.58
#2	-23.32	-1.905	.1510	.2453	.0671	-31.21
#3	-1.345	.7242	.3998	-.0338	-.0302	-21.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1821	-.0427	-.5505	-.6408	-1.527	-.1777
Stddev	.0367	.2352	.5321	.0485	16.89	10.98
%RSD	20.13	551.4	96.65	7.573	1107.	6177.
#1	-.1412	-.2442	-.4737	-.5875	16.24	-8.603
#2	-.1929	.2157	-.0611	-.6823	-17.39	12.24
#3	-.2120	-.0995	-1.117	-.6527	-3.432	-4.167

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9234	-.0005	-6.566	-.1403	-.5669	.9210
Stddev	1.950	.0603	5.503	.7810	1.105	.4061
%RSD	211.1	12020.	83.80	556.7	194.9	44.09
#1	-1.269	.0643	-1.039	-1.020	-.1206	.6814
#2	1.579	-.0550	-6.616	.1282	.2453	.6917
#3	2.461	-.0108	-12.04	.4711	-1.825	1.390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-362061/1-A@2 Acquired: 4/13/2016 18:40:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.637	.2849	-.3297	.3883	-.7653	-.6585
Stddev	.384	.6125	.4440	.2648	.0546	.1046
%RSD	14.54	215.0	134.7	68.20	7.138	15.88
#1	-3.050	.9870	-.8378	.4695	-.7082	-.5685
#2	-2.292	-.1400	-.1345	.6029	-.7706	-.6338
#3	-2.569	.0078	-.0168	.0924	-.8171	-.7732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3893	.0179	-.1173	13.23
Stddev	.7889	.0707	.0677	9.79
%RSD	202.6	396.1	57.73	74.05
#1	-.0072	-.0630	-.1902	1.924
#2	-.1226	.0481	-.1055	18.56
#3	1.298	.0684	-.0563	19.20
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3113.7	39043.	5788.6
Stddev	4.6	69.	39.4
%RSD	.14732	.17684	.68046
#1	3113.6	39093.	5818.4
#2	3109.2	39071.	5743.9
#3	3118.3	38964.	5803.4

Sample Name: LCSSRM 460-362061/2- Acquired: 4/13/2016 18:45:03 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36810.	707.3	146.3	1081.	471.9	28500.
Stddev	163.	3.1	1.0	5.	.4	231.
%RSD	.4426	.4329	.6678	.4494	.0745	.8103

#1	36680.	705.5	145.2	1076.	471.5	28290.
#2	36770.	705.5	146.7	1082.	472.2	28460.
#3	36990.	710.8	147.0	1086.	471.9	28750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	459.1	842.5	756.5	862.5	70430.	11090.
Stddev	1.0	1.6	4.9	1.8	283.	24.
%RSD	.2125	.1946	.6487	.2046	.4021	.2153

#1	458.4	840.6	752.4	860.5	70190.	11060.
#2	458.7	843.1	755.3	863.1	70350.	11110.
#3	460.2	843.7	762.0	863.8	70740.	11090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12160.	1609.	4036.	731.0	746.9	450.5
Stddev	66.	10.	16.	2.2	3.2	2.2
%RSD	.5468	.6057	.4015	.2999	.4223	.4967

#1	12120.	1601.	4018.	728.5	746.3	453.1
#2	12120.	1607.	4044.	732.4	744.2	449.2
#3	12240.	1620.	4047.	732.1	750.4	449.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-362061/2- Acquired: 4/13/2016 18:45:03 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	841.7	771.9	571.2	988.8	684.4	623.9
Stddev	3.2	7.8	2.4	2.6	2.3	3.0
%RSD	.3766	1.008	.4241	.2643	.3364	.4735
#1	839.2	763.0	569.2	987.0	683.3	620.5
#2	845.2	777.2	570.5	987.7	687.0	626.0
#3	840.6	775.5	573.9	991.8	682.8	625.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	756.2	522.0	1562.	2513.
Stddev	4.1	1.7	5.	24.
%RSD	.5389	.3224	.3314	.9671
#1	751.7	520.3	1557.	2513.
#2	757.0	521.8	1564.	2489.
#3	759.7	523.7	1567.	2538.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3169.3	40255.	6130.6
Stddev	20.6	355.	52.1
%RSD	.64939	.88214	.84977
#1	3145.8	39974.	6070.5
#2	3184.3	40654.	6161.9
#3	3177.8	40139.	6159.5

Sample Name: 460-111966-B-1-C DU Acquired: 4/13/2016 18:48:55 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62840.	149.8	-7961	651.0	3.620	12320.
Stddev	446.	2.6	.7500	1.3	.151	66.
%RSD	.7104	1.740	94.21	.1940	4.171	.5349
#1	63060.	150.2	-.6240	649.7	3.563	12260.
#2	63130.	152.1	-.1472	652.2	3.791	12390.
#3	62320.	147.0	-1.617	651.1	3.505	12330.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.362	46.41	95.16	231.6	122000.	5115.
Stddev	.071	.23	1.00	1.3	252.	41.
%RSD	5.230	.4977	1.047	.5545	.2062	.8079
#1	-1.381	46.36	94.32	230.3	121800.	5114.
#2	-1.283	46.66	96.26	232.8	121900.	5156.
#3	-1.421	46.21	94.90	231.8	122300.	5074.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18210.	2513.	1409.	107.4	255.8	3.643
Stddev	85.	8.	10.	.2	2.4	.336
%RSD	.4673	.3065	.7160	.1911	.9189	9.210
#1	18130.	2504.	1399.	107.4	253.4	3.309
#2	18300.	2518.	1419.	107.6	258.0	3.640
#3	18200.	2516.	1408.	107.2	256.1	3.980

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111966-B-1-C DU Acquired: 4/13/2016 18:48:55 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.21	-1.822	124.6	358.3	23.59	4.037
Stddev	4.17	1.831	1.1	1.7	.30	.174
%RSD	37.25	100.5	.8910	.4858	1.276	4.299
#1	14.46	-3.463	123.3	356.7	23.93	4.201
#2	12.66	.1529	125.4	358.1	23.34	4.055
#3	6.499	-2.156	125.1	360.2	23.51	3.855

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.85	104.6	1411.	1916.
Stddev	.61	.8	3.	14.
%RSD	4.392	.7407	.2007	.7238
#1	13.63	104.8	1408.	1929.
#2	13.38	105.3	1412.	1917.
#3	14.54	103.8	1413.	1902.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3144.7	39368.	5900.2
Stddev	6.7	132.	29.2
%RSD	.21368	.33539	.49515
#1	3152.2	39473.	5925.5
#2	3142.4	39220.	5868.2
#3	3139.4	39412.	5906.7

Sample Name: 460-111966-B-1-B@4 Acquired: 4/13/2016 18:52:58 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62730.	150.7	-.2047	646.0	3.437	12220.
Stddev	105.	1.2	.2811	.8	.030	36.
%RSD	.1676	.8159	137.4	.1243	.8724	.2937

#1	62750.	149.3	-.4140	646.7	3.417	12190.
#2	62620.	151.7	.1149	646.1	3.422	12260.
#3	62820.	151.0	-.3148	645.1	3.471	12230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.400	46.03	93.21	231.2	121300.	5090.
Stddev	.034	.30	.82	.2	475.	44.
%RSD	2.453	.6422	.8848	.1064	.3917	.8739

#1	-1.372	45.78	92.89	231.4	120900.	5052.
#2	-1.390	45.97	94.14	230.9	121200.	5078.
#3	-1.438	46.36	92.59	231.2	121800.	5139.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18230.	2501.	1416.	106.7	253.8	4.041
Stddev	47.	4.	13.	.2	1.7	1.233
%RSD	.2574	.1684	.9478	.1693	.6574	30.50

#1	18180.	2496.	1404.	106.5	252.2	3.020
#2	18250.	2505.	1414.	106.7	253.7	5.411
#3	18270.	2501.	1431.	106.8	255.5	3.693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111966-B-1-B@4 Acquired: 4/13/2016 18:52:58 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.783	-2.979	123.8	356.1	22.83	3.915
Stddev	.510	1.141	.4	2.0	.91	.374
%RSD	5.214	38.30	.2968	.5512	3.980	9.552
#1	10.17	-3.253	123.5	354.1	22.11	4.339
#2	9.978	-1.725	123.6	356.2	23.85	3.770
#3	9.204	-3.957	124.2	358.0	22.54	3.635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.00	104.4	1411.	1906.
Stddev	.98	.4	4.	39.
%RSD	7.526	.3784	.3007	2.021
#1	13.81	104.1	1408.	1885.
#2	13.28	104.9	1409.	1951.
#3	11.91	104.3	1416.	1883.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3190.9	40080.	6031.8
Stddev	7.9	80.	54.4
%RSD	.24642	.19854	.90261
#1	3198.8	40020.	5977.0
#2	3183.1	40049.	6085.8
#3	3190.7	40170.	6032.6

Sample Name: sd 460-111966-B-1-B Acquired: 4/13/2016 18:56:58 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12300.	27.95	-.0009	127.5	.6986	2400.
Stddev	144.	1.17	.3542	2.0	.0504	40.
%RSD	1.168	4.176	38790.	1.545	7.208	1.658

#1	12370.	28.02	.2623	128.7	.7164	2411.
#2	12400.	26.75	-.4036	128.5	.7377	2433.
#3	12130.	29.08	.1386	125.2	.6418	2356.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4814	9.050	18.07	43.64	24230.	969.6
Stddev	.0671	.210	.84	.99	504.	42.2
%RSD	13.93	2.319	4.634	2.262	2.078	4.351

#1	-.4088	9.039	17.52	44.09	24440.	943.3
#2	-.5410	9.266	19.03	44.32	24600.	1018.
#3	-.4944	8.846	17.65	42.51	23660.	947.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3629.	492.6	275.3	20.59	48.83	2.112
Stddev	59.	9.6	12.8	.40	1.90	1.233
%RSD	1.621	1.944	4.630	1.922	3.896	58.41

#1	3657.	496.9	274.6	21.04	50.11	3.248
#2	3669.	499.2	288.4	20.43	49.74	2.287
#3	3562.	481.6	263.0	20.29	46.64	.8001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111966-B-1-B Acquired: 4/13/2016 18:56:58 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9234	-1.707	24.03	70.89	3.744	.1101
Stddev	2.245	3.493	.40	.68	.357	.1028
%RSD	243.2	204.7	1.662	.9582	9.529	93.37
#1	-1.667	1.875	24.46	71.45	3.366	.0029
#2	1.599	-5.105	23.95	71.08	4.075	.1196
#3	-2.703	-1.891	23.67	70.13	3.790	.2077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.174	20.11	274.1	364.1
Stddev	.890	.32	5.8	1.1
%RSD	40.93	1.603	2.112	.3142
#1	1.991	20.24	276.9	363.9
#2	3.141	20.35	278.0	363.0
#3	1.389	19.75	267.5	365.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3167.0	39323.	5844.8
Stddev	28.1	355.	22.1
%RSD	.88784	.90189	.37860
#1	3148.2	39096.	5868.8
#2	3153.4	39142.	5840.4
#3	3199.3	39732.	5825.2

Sample Name: pds 460-111966-B-1-B Acquired: 4/13/2016 19:05:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61780.	1957.	45.36	2537.	49.87	30450.
Stddev	243.	5.	.18	7.	.27	81.
%RSD	.3929	.2346	.3939	.2686	.5337	.2644
#1	61940.	1952.	45.57	2543.	50.17	30540.
#2	61500.	1958.	45.26	2530.	49.66	30400.
#3	61890.	1961.	45.26	2537.	49.78	30410.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.01	522.1	287.2	453.6	115900.	21740.
Stddev	.07	.5	1.7	1.3	366.	28.
%RSD	.1498	.1037	.5974	.2768	.3160	.1291
#1	45.93	522.7	289.1	452.5	115800.	21770.
#2	46.02	522.0	285.7	453.3	116300.	21730.
#3	46.07	521.6	286.8	454.9	115700.	21720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34920.	2835.	18980.	592.2	709.7	445.5
Stddev	16.	2.	77.	1.8	1.7	.2
%RSD	.0453	.0625	.4061	.3035	.2428	.0385
#1	34900.	2833.	19060.	593.5	711.7	445.5
#2	34930.	2834.	18900.	590.2	709.1	445.4
#3	34920.	2837.	18980.	593.0	708.4	445.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111966-B-1-B Acquired: 4/13/2016 19:05:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1773.	1967.	597.6	815.2	497.8	477.1
Stddev	12.	2.	1.6	1.2	1.9	1.2
%RSD	.6754	.0959	.2713	.1496	.3787	.2583

#1	1759.	1968.	599.5	816.4	495.7	477.5
#2	1780.	1965.	596.8	814.0	498.4	475.7
#3	1778.	1968.	596.5	815.2	499.4	478.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	493.6	565.5	1809.	1871.
Stddev	1.4	.9	4.	33.
%RSD	.2852	.1589	.2026	1.768

#1	494.0	566.2	1806.	1837.
#2	492.0	564.5	1813.	1903.
#3	494.8	566.0	1810.	1874.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3202.9	40310.	6079.9
Stddev	24.3	369.	162.3
%RSD	.75737	.91660	2.6702

#1	3175.3	39897.	5892.5
#2	3212.5	40421.	6177.5
#3	3220.8	40611.	6169.7

Sample Name: 460-111966-B-2-B@4 Acquired: 4/13/2016 19:08:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66240.	119.5	-1.152	658.9	3.164	10570.
Stddev	426.	1.8	.583	1.5	.075	63.
%RSD	.6436	1.527	50.61	.2320	2.379	.5923

#1	65810.	118.3	-1.216	657.3	3.078	10490.
#2	66660.	121.6	-1.700	660.4	3.212	10600.
#3	66250.	118.6	-.5395	659.1	3.204	10610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.173	54.37	105.5	274.7	F 212000.	5512.
Stddev	.105	.18	1.2	1.5	839.	54.
%RSD	3.294	.3221	1.098	.5477	.3959	.9869

#1	-3.053	54.40	104.3	273.1	211200.	5452.
#2	-3.246	54.53	105.6	274.9	211900.	5524.
#3	-3.219	54.18	106.6	276.1	212900.	5559.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21310.	2704.	2305.	132.8	262.6	4.097
Stddev	169.	11.	28.	.4	.3	.625
%RSD	.7921	.4062	1.206	.2751	.1096	15.25

#1	21120.	2692.	2275.	132.9	262.2	3.570
#2	21350.	2709.	2308.	133.1	262.7	3.934
#3	21450.	2712.	2331.	132.4	262.7	4.788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111966-B-2-B@4 Acquired: 4/13/2016 19:08:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.05	.2124	133.6	300.3	33.64	7.356
Stddev	3.09	1.055	1.9	1.3	.86	.072
%RSD	16.23	496.5	1.449	.4311	2.567	.9747
#1	17.31	.0490	131.5	299.0	34.49	7.429
#2	17.21	-.7509	134.1	300.2	33.67	7.286
#3	22.62	1.339	135.3	301.6	32.77	7.353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.70	88.88	1570.	1923.
Stddev	.46	.62	4.	8.
%RSD	2.616	.6975	.2370	.3931
#1	17.20	88.27	1566.	1929.
#2	18.12	88.88	1570.	1914.
#3	17.79	89.51	1574.	1925.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3240.3	40730.	6083.1
Stddev	12.3	88.	15.0
%RSD	.37860	.21698	.24669
#1	3226.1	40648.	6097.3
#2	3247.1	40719.	6067.4
#3	3247.6	40824.	6084.7

Sample Name: 460-111966-B-3-B@4 Acquired: 4/13/2016 19:12:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52160.	27.18	-.1259	489.4	10.53	26410.
Stddev	645.	1.93	.2262	2.2	.08	265.
%RSD	1.237	7.105	179.7	.4551	.8007	1.003

#1	51580.	26.27	-.2471	487.1	10.46	26110.
#2	52030.	25.88	-.2656	489.7	10.50	26490.
#3	52850.	29.40	.1351	491.5	10.62	26620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.714	49.07	244.1	1331.	F 216000.	5748.
Stddev	.279	.31	2.4	4.	2715.	69.
%RSD	16.26	.6287	.9641	.3159	1.257	1.198

#1	1.972	48.71	241.4	1329.	213000.	5670.
#2	1.418	49.25	245.4	1329.	216600.	5775.
#3	1.751	49.25	245.5	1336.	218400.	5799.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15060.	1636.	1647.	277.3	1393.	5.027
Stddev	169.	12.	30.	1.3	14.	.149
%RSD	1.125	.7576	1.851	.4833	.9947	2.967

#1	14860.	1622.	1616.	276.4	1379.	4.984
#2	15140.	1639.	1648.	276.7	1393.	4.904
#3	15170.	1646.	1677.	278.9	1407.	5.193

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111966-B-3-B@4 Acquired: 4/13/2016 19:12:52 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.39	-3120	132.6	2244.	95.65	21.57
Stddev	4.25	2.325	1.0	32.	.29	.10
%RSD	21.91	745.0	.7404	1.434	.3024	.4574
#1	15.08	-1.437	131.5	2208.	95.77	21.66
#2	23.58	-1.860	132.9	2251.	95.85	21.58
#3	19.52	2.361	133.5	2272.	95.32	21.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	121.7	155.8	1622.	2012.
Stddev	2.0	1.0	13.	26.
%RSD	1.665	.6340	.7803	1.270
#1	122.6	154.9	1609.	1995.
#2	119.4	155.7	1622.	2041.
#3	123.2	156.9	1634.	2000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3237.7	40653.	6159.5
Stddev	12.5	232.	108.2
%RSD	.38514	.56991	1.7569
#1	3252.1	40917.	6234.2
#2	3231.4	40557.	6208.9
#3	3229.7	40485.	6035.4

Sample Name: CCVL Acquired: 4/13/2016 19:24:51 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.7	15.23	10.30	212.4	2.058	5255.
Stddev	14.0	2.08	.26	.4	.069	32.
%RSD	6.917	13.66	2.512	.1939	3.353	.5996
#1	214.9	14.01	10.31	212.0	2.135	5283.
#2	187.4	14.05	10.54	212.8	2.036	5261.
#3	205.7	17.63	10.03	212.3	2.002	5221.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.057	53.43	10.59	25.52	158.1	4905.
Stddev	.085	.34	.34	.23	8.3	70.
%RSD	2.096	.6323	3.171	.8981	5.226	1.427
#1	4.142	53.23	10.73	25.29	158.2	4953.
#2	3.972	53.82	10.21	25.75	149.8	4824.
#3	4.056	53.23	10.83	25.50	166.4	4937.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4990.	16.57	4839.	43.34	10.31	18.60
Stddev	12.	.20	21.	.51	2.02	1.68
%RSD	.2413	1.227	.4429	1.183	19.62	9.052
#1	4990.	16.47	4854.	42.88	12.61	16.75
#2	5002.	16.81	4815.	43.24	9.523	20.05
#3	4978.	16.44	4849.	43.89	8.803	18.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 19:24:51 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.48	21.42	52.33	31.90	49.78	20.00
Stddev	2.91	.47	.43	.08	.57	.06
%RSD	16.66	2.179	.8142	.2468	1.146	.2919
#1	15.87	21.79	51.84	31.99	50.30	20.07
#2	15.74	21.56	52.63	31.87	49.86	19.97
#3	20.85	20.89	52.51	31.84	49.17	19.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.40	21.00	20.78	F 9.925
Stddev	.89	.06	.07	7.455
%RSD	1.723	.2869	.3582	75.11
#1	51.91	21.07	20.86	11.98
#2	51.92	20.96	20.74	1.659
#3	50.38	20.97	20.72	16.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3211.5	39788.	5893.2
Stddev	23.6	570.	103.8
%RSD	.73494	1.4322	1.7608
#1	3199.9	39360.	5799.1
#2	3195.9	39569.	5875.9
#3	3238.6	40434.	6004.5

Sample Name: 460-111285-A-58-A@4 Acquired: 4/13/2016 19:37:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99390.	34.45	-8055	966.2	4.434	4661.
Stddev	160.	2.58	.4748	1.1	.136	35.
%RSD	.1610	7.479	58.94	.1165	3.075	.7458
#1	99470.	35.37	-.8816	965.0	4.278	4631.
#2	99200.	36.43	-.2973	967.2	4.495	4653.
#3	99490.	31.54	-1.238	966.4	4.530	4699.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.586	58.91	155.9	109.9	125000.	16090.
Stddev	.057	.56	.9	.1	578.	61.
%RSD	3.614	.9554	.5544	.1180	.4622	.3807
#1	-1.525	58.37	155.4	110.0	124500.	16130.
#2	-1.594	59.50	155.4	109.8	124800.	16020.
#3	-1.639	58.85	156.9	110.0	125600.	16120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31910.	3801.	87.96	67.76	197.0	3.019
Stddev	171.	18.	4.21	.27	1.4	1.064
%RSD	.5368	.4613	4.790	.4032	.7075	35.23
#1	31760.	3794.	89.87	67.79	198.1	1.831
#2	31890.	3788.	90.87	68.01	197.6	3.345
#3	32100.	3821.	83.13	67.47	195.4	3.881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-58-A@4 Acquired: 4/13/2016 19:37:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.805	-1.296	296.2	458.0	-.7270	4.886
Stddev	.438	1.314	1.3	3.2	.4516	.105
%RSD	4.978	101.4	.4536	.6880	62.12	2.151
#1	9.287	-1.761	294.8	454.5	-1.143	4.833
#2	8.429	.1875	296.6	458.9	-.7921	4.818
#3	8.699	-2.314	297.4	460.6	-.2463	5.008

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.583	31.25	6334.	1541.
Stddev	.317	.04	9.	42.
%RSD	12.27	.1317	.1361	2.717
#1	2.328	31.21	6329.	1516.
#2	2.483	31.27	6329.	1589.
#3	2.938	31.28	6344.	1517.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3777.2	46804.	7130.6
Stddev	7.2	284.	142.7
%RSD	.18937	.60670	2.0012
#1	3785.0	46940.	7154.6
#2	3775.6	46994.	7259.8
#3	3771.0	46478.	6977.4

Sample Name: 460-111285-A-70-A@4 Acquired: 4/13/2016 19:41:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	155200.	52.00	-2.584	732.3	4.027	4809.
Stddev	1143.	1.33	.414	1.5	.049	14.
%RSD	.7366	2.555	16.01	.2064	1.206	.2830
#1	154200.	50.80	-2.107	730.6	3.973	4819.
#2	154900.	51.78	-2.816	733.0	4.065	4793.
#3	156500.	53.43	-2.830	733.4	4.044	4814.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.833	22.92	331.6	311.8	F 207700.	40010.
Stddev	.192	.29	1.8	.4	559.	193.
%RSD	6.780	1.275	.5346	.1412	.2691	.4829
#1	-3.050	22.58	330.3	311.5	208000.	39820.
#2	-2.685	23.03	330.9	311.6	207100.	40000.
#3	-2.764	23.14	333.6	312.3	208100.	40210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39750.	1224.	131.1	66.44	89.51	4.106
Stddev	54.	2.	7.2	.67	2.94	1.879
%RSD	.1366	.1575	5.497	1.005	3.281	45.77
#1	39820.	1225.	126.3	66.00	91.64	2.144
#2	39720.	1222.	139.3	67.20	90.72	5.890
#3	39720.	1225.	127.6	66.10	86.16	4.284

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-70-A@4 Acquired: 4/13/2016 19:41:02 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.26	-2.560	481.3	600.1	.5505	13.79
Stddev	3.28	.266	.6	1.0	.1225	.25
%RSD	20.17	10.38	.1301	.1715	22.24	1.846
#1	13.57	-2.774	480.6	599.0	.4449	13.50
#2	15.29	-2.645	481.3	601.0	.5219	13.87
#3	19.91	-2.263	481.8	600.3	.6848	13.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.577	52.84	8525.	2019.
Stddev	.944	.59	15.	52.
%RSD	26.39	1.122	.1703	2.596
#1	3.478	52.17	8517.	1976.
#2	4.567	53.29	8516.	2077.
#3	2.687	53.06	8542.	2004.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3526.3	43800.	6624.0
Stddev	7.6	455.	76.9
%RSD	.21526	1.0379	1.1602
#1	3521.1	43285.	6578.6
#2	3522.7	44146.	6712.8
#3	3535.0	43968.	6580.8

Sample Name: 460-111285-A-76-A@4 Acquired: 4/13/2016 19:49:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	148400.	27.24	-2.506	1065.	6.348	4743.
Stddev	493.	.79	.240	2.	.068	21.
%RSD	.3321	2.895	9.599	.1670	1.076	.4472

#1	147900.	26.33	-2.773	1065.	6.288	4736.
#2	148500.	27.67	-2.307	1063.	6.334	4767.
#3	148800.	27.72	-2.437	1066.	6.422	4727.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.489	79.76	326.7	194.9	F 237000.	26790.
Stddev	.083	.57	1.3	1.0	454.	122.
%RSD	3.323	.7177	.3878	.5026	.1914	.4541

#1	-2.454	79.14	325.6	194.3	236700.	26650.
#2	-2.431	79.86	328.1	196.0	237500.	26870.
#3	-2.584	80.27	326.4	194.4	236800.	26840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35920.	1755.	91.16	134.9	89.30	5.059
Stddev	158.	5.	.88	.4	.64	.616
%RSD	.4395	.2772	.9678	.2834	.7181	12.17

#1	36020.	1758.	92.07	134.5	88.70	4.758
#2	35990.	1758.	90.31	135.0	89.97	4.652
#3	35730.	1749.	91.12	135.3	89.22	5.767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-76-A@4 Acquired: 4/13/2016 19:49:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.30	-6.486	668.7	623.9	-2.286	5.813
Stddev	2.91	.771	2.9	2.6	1.371	.144
%RSD	16.83	11.89	.4294	.4161	59.98	2.476
#1	16.75	-6.183	665.6	621.0	-3.842	5.963
#2	14.70	-7.362	671.3	624.9	-1.757	5.677
#3	20.45	-5.912	669.1	625.9	-1.258	5.798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.969	45.07	10370.	1433.
Stddev	.189	.23	28.	15.
%RSD	4.768	.5157	.2667	1.075
#1	3.785	44.81	10370.	1421.
#2	4.163	45.15	10390.	1427.
#3	3.959	45.25	10340.	1450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3508.7	43713.	6697.4
Stddev	9.4	231.	15.7
%RSD	.26745	.52828	.23405
#1	3498.0	43491.	6701.7
#2	3512.9	43696.	6710.4
#3	3515.3	43952.	6680.0

Sample Name: 460-111285-A-94-A@4 Acquired: 4/13/2016 19:57:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107100.	31.76	-8565	462.1	3.176	4052.
Stddev	714.	2.63	.3338	2.2	.138	34.
%RSD	.6663	8.264	38.98	.4701	4.344	.8340

#1	106300.	34.70	-.6642	459.8	3.021	4014.
#2	107500.	30.94	-.6635	462.3	3.285	4079.
#3	107500.	29.65	-1.242	464.2	3.221	4063.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.598	36.30	173.3	61.16	152500.	8092.
Stddev	.101	.28	1.5	.58	653.	54.
%RSD	3.882	.7739	.8905	.9556	.4282	.6686

#1	-2.522	36.14	171.9	60.53	152000.	8041.
#2	-2.713	36.62	175.0	61.69	153200.	8149.
#3	-2.560	36.13	173.0	61.26	152400.	8087.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14950.	1106.	117.1	72.71	73.22	3.859
Stddev	37.	5.	6.5	.40	2.82	1.656
%RSD	.2499	.4425	5.520	.5456	3.850	42.90

#1	14940.	1101.	118.8	72.28	73.56	5.768
#2	15000.	1110.	122.5	72.76	75.86	2.994
#3	14930.	1107.	109.9	73.07	70.25	2.815

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111285-A-94-A@4 Acquired: 4/13/2016 19:57:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.58	-2.051	250.7	320.1	13.39	5.254
Stddev	3.39	2.061	2.5	1.9	.24	.418
%RSD	24.94	100.5	.9979	.5902	1.788	7.957
#1	13.31	-.2661	248.0	319.9	13.44	4.791
#2	17.10	-1.580	252.8	322.1	13.60	5.367
#3	10.34	-4.307	251.5	318.3	13.13	5.604

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.514	41.35	3091.	1825.
Stddev	1.388	.34	11.	3.
%RSD	30.74	.8295	.3672	.1671
#1	5.958	40.96	3078.	1827.
#2	3.191	41.55	3101.	1825.
#3	4.393	41.55	3093.	1821.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3300.1	41212.	6197.7
Stddev	9.1	93.	69.5
%RSD	.27512	.22593	1.1210
#1	3310.5	41275.	6255.7
#2	3295.3	41105.	6216.9
#3	3294.4	41256.	6120.7

Sample Name: CCV Acquired: 4/13/2016 20:09:18 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124900.	2540.	1280.	10410.	1010.	131100.
Stddev	648.	22.	4.	14.	6.	232.
%RSD	.5192	.8634	.3381	.1372	.5579	.1767

#1	124100.	2515.	1284.	10400.	1004.	131400.
#2	125300.	2556.	1275.	10410.	1012.	130900.
#3	125200.	2551.	1282.	10430.	1015.	131100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1288.	2579.	5225.	12800.	103000.	50750.
Stddev	6.	10.	5.	29.	321.	209.
%RSD	.4675	.3880	.1038	.2302	.3111	.4109

#1	1281.	2568.	5230.	12810.	103100.	50520.
#2	1290.	2580.	5219.	12760.	102700.	50800.
#3	1293.	2588.	5225.	12820.	103300.	50930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128800.	5270.	125400.	2596.	7701.	1003.
Stddev	373.	9.	615.	5.	42.	4.
%RSD	.2894	.1621	.4904	.2106	.5500	.4307

#1	128900.	5273.	124700.	2590.	7655.	998.9
#2	128400.	5261.	125800.	2598.	7709.	1003.
#3	129200.	5277.	125600.	2601.	7738.	1008.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 20:09:18 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2493.	2614.	2590.	2589.	1015.	2572.
Stddev	21.	22.	7.	16.	5.	9.
%RSD	.8539	.8588	.2778	.6190	.4560	.3623

#1	2469.	2591.	2593.	2572.	1010.	2561.
#2	2501.	2636.	2582.	2594.	1018.	2575.
#3	2510.	2616.	2595.	2603.	1017.	2579.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1036.	5149.	10240.	9811.
Stddev	4.	25.	33.	62.
%RSD	.3706	.4781	.3235	.6272

#1	1032.	5122.	10240.	9750.
#2	1036.	5155.	10210.	9810.
#3	1039.	5171.	10270.	9873.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2962.2	37197.	5645.5
Stddev	6.0	149.	3.7
%RSD	.20251	.40187	.06616

#1	2969.2	37026.	5641.2
#2	2958.6	37268.	5647.8
#3	2959.0	37298.	5647.5

Sample Name: CCVL Acquired: 4/13/2016 20:17:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	208.1	14.52	10.48	221.8	2.023	5434.
Stddev	12.1	.68	.22	.7	.047	32.
%RSD	5.814	4.682	2.138	.3207	2.318	.5863

#1	199.5	14.74	10.73	221.3	2.076	5399.
#2	222.0	15.06	10.34	221.6	1.987	5461.
#3	203.0	13.76	10.35	222.6	2.005	5442.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.348	55.91	10.83	26.24	168.5	5084.
Stddev	.072	.26	.19	.24	7.9	7.
%RSD	1.666	.4566	1.716	.9265	4.661	.1463

#1	4.348	55.62	10.97	26.04	160.5	5077.
#2	4.420	56.03	10.62	26.17	168.8	5084.
#3	4.275	56.08	10.90	26.51	176.2	5092.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5194.	17.12	5031.	45.45	10.94	20.50
Stddev	48.	.05	16.	.64	1.36	.83
%RSD	.9217	.2965	.3168	1.411	12.41	4.041

#1	5139.	17.12	5024.	44.83	12.35	19.60
#2	5214.	17.07	5019.	45.41	9.647	20.66
#3	5228.	17.17	5049.	46.11	10.81	21.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 20:17:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.28	21.81	54.48	33.15	51.81	21.04
Stddev	3.28	.13	.28	.28	.66	.32
%RSD	17.96	.5810	.5070	.8549	1.271	1.522
#1	17.07	21.67	54.18	32.86	51.69	20.71
#2	15.78	21.85	54.54	33.15	51.22	21.07
#3	22.00	21.92	54.72	33.42	52.52	21.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.17	21.79	22.03	F 6.157
Stddev	.48	.20	.34	11.26
%RSD	.9099	.9030	1.530	182.8
#1	52.61	21.76	22.00	-2.460
#2	53.41	21.60	21.71	18.89
#3	53.49	21.99	22.38	2.040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3148.8	39106.	5766.4
Stddev	11.9	198.	53.5
%RSD	.37763	.50725	.92734
#1	3154.4	39335.	5800.5
#2	3156.9	38998.	5794.0
#3	3135.2	38986.	5704.8

Sample Name: 460-111964-B-2-B@4 Acquired: 4/13/2016 20:21:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62210.	25.19	.3746	554.0	2.826	72500.
Stddev	412.	2.10	.1888	1.3	.037	238.
%RSD	.6621	8.352	50.38	.2275	1.304	.3286

#1	61760.	23.47	.1757	554.7	2.850	72480.
#2	62290.	27.54	.5511	554.7	2.844	72270.
#3	62570.	24.57	.3971	552.6	2.783	72740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4815	66.64	164.0	380.8	143400.	6057.
Stddev	.0392	.47	.9	.7	520.	81.
%RSD	8.148	.7019	.5204	.1758	.3628	1.334

#1	-.5268	66.10	163.1	381.2	143100.	5982.
#2	-.4611	66.95	164.7	381.2	143100.	6045.
#3	-.4567	66.88	164.4	380.0	144000.	6142.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43820.	2141.	11420.	183.9	542.0	5.755
Stddev	118.	7.	62.	.3	3.7	1.218
%RSD	.2702	.3259	.5462	.1387	.6791	21.17

#1	43840.	2140.	11350.	183.9	538.0	6.981
#2	43690.	2135.	11440.	184.2	542.6	4.545
#3	43920.	2149.	11470.	183.7	545.3	5.739

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111964-B-2-B@4 Acquired: 4/13/2016 20:21:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.07	-2.846	314.7	1064.	163.0	14.94
Stddev	2.96	.395	1.1	4.	.4	.31
%RSD	21.05	13.88	.3518	.4133	.2335	2.096
#1	17.13	-2.420	313.4	1060.	162.9	15.30
#2	11.21	-3.200	315.4	1064.	163.4	14.70
#3	13.88	-2.918	315.2	1068.	162.7	14.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.20	273.0	4695.	2085.
Stddev	1.47	1.6	15.	18.
%RSD	10.38	.5910	.3201	.8425
#1	12.50	271.5	4683.	2092.
#2	15.14	272.9	4690.	2098.
#3	14.96	274.7	4712.	2065.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3232.4	40346.	6138.5
Stddev	13.9	305.	59.7
%RSD	.43026	.75496	.97322
#1	3217.4	39998.	6136.0
#2	3234.8	40566.	6199.5
#3	3244.9	40472.	6080.1

Sample Name: 460-111961-B-2-B@4 Acquired: 4/13/2016 20:33:47 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69520.	24.59	-.2885	611.3	3.522	25360.
Stddev	224.	.75	.0689	1.3	.018	73.
%RSD	.3217	3.047	23.90	.2058	.4956	.2896

#1	69460.	24.35	-.2985	612.8	3.502	25290.
#2	69330.	25.43	-.2152	610.7	3.536	25350.
#3	69770.	23.99	-.3520	610.5	3.527	25430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.071	53.37	135.4	318.7	140200.	7644.
Stddev	.241	.27	.7	2.3	222.	14.
%RSD	22.54	.5099	.5408	.7125	.1583	.1853

#1	-.9295	53.14	135.4	318.7	139900.	7658.
#2	-1.350	53.32	136.2	320.9	140300.	7644.
#3	-.9346	53.67	134.7	316.4	140300.	7630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25580.	1718.	2043.	153.9	584.6	4.643
Stddev	46.	4.	12.	.3	.6	1.990
%RSD	.1781	.2066	.5969	.1999	.0983	42.85

#1	25570.	1714.	2029.	153.8	585.2	2.433
#2	25630.	1719.	2053.	153.7	584.0	5.205
#3	25540.	1721.	2048.	154.3	584.7	6.290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111961-B-2-B@4 Acquired: 4/13/2016 20:33:47 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.23	-1.449	201.3	738.0	68.31	8.712
Stddev	1.89	2.069	1.3	1.4	.35	.404
%RSD	18.51	142.8	.6460	.1905	.5106	4.632
#1	9.433	-3.804	201.3	737.3	67.91	8.527
#2	12.39	.0759	202.6	737.1	68.49	8.435
#3	8.860	-.6184	200.0	739.6	68.53	9.175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	28.43	177.2	1810.	2292.
Stddev	.29	.3	1.	8.
%RSD	1.030	.1639	.0500	.3671
#1	28.76	177.0	1809.	2300.
#2	28.21	177.0	1811.	2283.
#3	28.33	177.5	1810.	2293.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3226.6	40238.	6034.1
Stddev	5.5	83.	30.0
%RSD	.17069	.20742	.49693
#1	3227.9	40242.	6027.0
#2	3231.3	40320.	6067.0
#3	3220.5	40153.	6008.4

Sample Name: 460-111950-E-1-B@4 Acquired: 4/13/2016 20:41:46 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15960.	14.65	-.2689	183.9	.7216	8761.
Stddev	250.	2.92	.5286	3.8	.0642	139.
%RSD	1.567	19.94	196.5	2.067	8.894	1.586

#1	15670.	11.85	.2824	180.1	.7325	8612.
#2	16110.	14.41	-.7714	183.8	.7796	8784.
#3	16090.	17.68	-.3178	187.7	.6526	8888.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3199	11.19	55.62	133.5	37280.	3425.
Stddev	.1852	.48	1.16	2.4	801.	98.
%RSD	57.89	4.254	2.079	1.795	2.149	2.853

#1	-.4464	10.77	54.72	131.2	36450.	3316.
#2	-.1074	11.09	55.20	133.5	37340.	3454.
#3	-.4060	11.71	56.92	136.0	38050.	3505.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7000.	360.6	1462.	29.47	1181.	.6051
Stddev	134.	7.0	23.	.28	25.	.6432
%RSD	1.908	1.932	1.578	.9646	2.113	106.3

#1	6877.	353.4	1436.	29.17	1155.	1.186
#2	6982.	360.9	1472.	29.51	1184.	-.0864
#3	7142.	367.4	1479.	29.74	1205.	.7160

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111950-E-1-B@4 Acquired: 4/13/2016 20:41:46 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.059	.1180	53.14	502.2	19.53	3.895
Stddev	1.696	.6113	.85	11.3	.57	.229
%RSD	55.45	517.8	1.596	2.255	2.904	5.890
#1	3.999	.4576	52.27	491.1	19.17	3.982
#2	1.101	.4842	53.19	501.7	19.23	4.068
#3	4.077	-.5876	53.97	513.7	20.18	3.635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	35.07	48.64	1089.	1222.
Stddev	1.88	.61	20.	18.
%RSD	5.361	1.261	1.871	1.509
#1	32.91	47.94	1068.	1201.
#2	35.99	49.09	1090.	1235.
#3	36.32	48.88	1109.	1230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3111.4	38865.	5712.2
Stddev	3.2	65.	33.5
%RSD	.10176	.16734	.58594
#1	3113.9	38791.	5714.0
#2	3112.5	38889.	5677.9
#3	3107.9	38914.	5744.8

Sample Name: scan Acquired: 4/13/2016 20:50:05 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37060.	749.8	159.0	F 1229.	511.1	30770.
Stddev	99.	5.8	.8	4.	1.6	194.
%RSD	.2668	.7687	.5097	.3486	.3135	.6298

#1	37110.	755.7	159.3	1233.	511.0	30640.
#2	36950.	744.2	158.0	1225.	509.5	30680.
#3	37130.	749.5	159.5	1229.	512.7	31000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				1225.		
Low Limit				870.0		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.8	878.6	809.2	924.6	79270.	11620.
Stddev	1.1	2.5	4.5	4.4	357.	36.
%RSD	.2363	.2823	.5516	.4736	.4497	.3136

#1	486.0	879.4	807.5	928.5	79090.	11590.
#2	483.8	875.9	805.8	919.9	79040.	11600.
#3	484.5	880.7	814.2	925.5	79680.	11660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12900.	F 1974.	4183.	F 765.3	823.6	444.5
Stddev	63.	10.	24.	1.8	3.5	2.5
%RSD	.4896	.5303	.5798	.2410	.4288	.5572

#1	12850.	1970.	4183.	767.2	826.0	446.9
#2	12880.	1967.	4159.	763.5	819.6	444.6
#3	12970.	1986.	4208.	765.3	825.4	442.0

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		1835.		755.0		
Low Limit		1260.		535.0		

Sample Name: scan Acquired: 4/13/2016 20:50:05 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	910.9	826.9	F 621.8	1063.	691.1	651.9
Stddev	4.0	1.5	2.8	5.	2.1	1.6
%RSD	.4402	.1803	.4488	.4464	.2970	.2493
#1	915.5	825.5	621.1	1059.	693.4	652.5
#2	908.8	826.8	619.4	1063.	690.4	650.1
#3	908.4	828.5	624.9	1069.	689.5	653.1
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			595.0			
Low Limit			373.0			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	828.4	561.5	1537.	2268.
Stddev	1.1	1.2	7.	5.
%RSD	.1288	.2213	.4319	.2009
#1	827.3	561.8	1534.	2266.
#2	828.3	560.1	1532.	2273.
#3	829.5	562.5	1544.	2265.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3197.2	39879.	5956.2
Stddev	6.9	105.	78.8
%RSD	.21487	.26326	1.3224
#1	3189.2	39910.	5972.5
#2	3201.5	39964.	6025.6
#3	3200.8	39761.	5870.6

Sample Name: CCV Acquired: 4/13/2016 20:57:58 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123900.	2543.	1263.	10430.	1003.	129600.
Stddev	494.	7.	1.	4.	5.	260.
%RSD	.3990	.2912	.0845	.0341	.5455	.2005

#1	124500.	2551.	1264.	10430.	1009.	129900.
#2	123600.	2543.	1262.	10420.	999.9	129400.
#3	123600.	2536.	1264.	10420.	999.8	129600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1283.	2564.	5219.	12750.	101200.	50420.
Stddev	2.	3.	13.	17.	107.	286.
%RSD	.1468	.1317	.2422	.1360	.1056	.5671

#1	1285.	2568.	5230.	12770.	101200.	50720.
#2	1282.	2562.	5221.	12750.	101300.	50150.
#3	1282.	2562.	5205.	12740.	101100.	50390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125900.	5218.	123600.	2599.	7581.	1000.
Stddev	172.	4.	368.	4.	13.	1.
%RSD	.1367	.0771	.2979	.1616	.1778	.1338

#1	125800.	5219.	124100.	2604.	7597.	1001.
#2	125700.	5213.	123400.	2595.	7573.	998.6
#3	126100.	5221.	123400.	2598.	7574.	1001.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 20:57:58 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2454.	2594.	2569.	2547.	1029.	2575.
Stddev	10.	4.	3.	6.	2.	4.
%RSD	.4222	.1579	.1032	.2239	.1728	.1604

#1	2451.	2592.	2572.	2553.	1030.	2577.
#2	2466.	2599.	2570.	2541.	1030.	2578.
#3	2446.	2592.	2567.	2546.	1027.	2571.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1035.	5133.	10180.	9758.
Stddev	4.	30.	40.	51.
%RSD	.3836	.5754	.3968	.5269

#1	1038.	5167.	10190.	9733.
#2	1036.	5111.	10210.	9723.
#3	1030.	5122.	10130.	9817.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3020.4	38226.	5806.1
Stddev	10.5	204.	64.1
%RSD	.34756	.53324	1.1036

#1	3008.9	38022.	5740.1
#2	3023.0	38227.	5809.9
#3	3029.4	38430.	5868.1

Sample Name: CCB Acquired: 4/13/2016 21:01:59 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0162	-1.861	.5703	.2980	.0567	-24.39
Stddev	8.818	1.746	.4416	.0201	.0723	3.53
%RSD	54580.	93.82	77.43	6.745	127.5	14.46

#1	-5.487	-9.137	1.022	.3117	.0951	-24.65
#2	-4.717	-7.932	.1390	.2749	.1016	-27.78
#3	10.16	-3.876	.5504	.3073	-.0267	-20.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1535	.0626	-.1092	.1317	-4.013	.3340
Stddev	.1147	.2756	.0979	.2118	3.289	26.95
%RSD	74.76	440.2	89.62	160.9	81.95	8067.

#1	-.2410	.1106	-.0131	.3456	-2.238	23.98
#2	-.0236	.3111	-.2088	.1275	-1.994	-29.00
#3	-.1959	-.2339	-.1058	-.0780	-7.808	6.024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.546	.0778	1.403	-.0753	-.7585	.5061
Stddev	2.234	.0805	4.738	.1542	.3824	.6955
%RSD	49.15	103.5	337.7	204.6	50.42	137.4

#1	6.494	.1450	6.714	-.0544	-1.195	1.297
#2	2.107	-.0114	-2.392	-.2389	-.4822	.2321
#3	5.036	.0998	-.1127	.0673	-.5985	-.0108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 21:01:59 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.064	.0407	-.1493	-.0394	.2179	.6034
Stddev	1.615	1.894	.2645	.0567	.3915	.1614
%RSD	151.8	4648.	177.2	143.9	179.7	26.75
#1	-2.481	-1.148	.1509	-.1042	-.0015	.6423
#2	-1.405	2.225	-.3482	.0011	-.0147	.7418
#3	.6940	-.9545	-.2505	-.0151	.6700	.4261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4730	.0705	.2846	12.07
Stddev	.1525	.0903	.1164	11.54
%RSD	32.23	128.0	40.91	95.64
#1	-.6038	-.0303	.3651	22.55
#2	-.3056	.0978	.1511	13.95
#3	-.5097	.1440	.3375	-.3003

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3204.0	39891.	5892.1
Stddev	1.9	129.	35.5
%RSD	.05988	.32422	.60265
#1	3202.1	40005.	5886.1
#2	3204.0	39918.	5930.2
#3	3206.0	39750.	5859.9

Sample Name: CCVL Acquired: 4/13/2016 21:06:19 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.9	12.19	9.911	215.7	2.029	5238.
Stddev	10.9	1.40	.523	.8	.067	21.
%RSD	5.385	11.48	5.282	.3888	3.306	.3992

#1	209.9	13.77	10.19	216.3	2.065	5228.
#2	208.4	11.11	9.307	215.9	2.070	5225.
#3	190.3	11.69	10.24	214.7	1.951	5263.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.016	53.75	10.54	24.91	156.4	4820.
Stddev	.035	.19	.36	.17	2.4	31.
%RSD	.8694	.3488	3.385	.6770	1.560	.6358

#1	3.980	53.92	10.87	25.10	153.9	4855.
#2	4.050	53.79	10.58	24.79	158.8	4801.
#3	4.017	53.55	10.16	24.83	156.5	4804.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4844.	16.51	4681.	43.95	9.503	20.20
Stddev	45.	.14	28.	.83	1.874	.29
%RSD	.9192	.8748	.6005	1.899	19.72	1.450

#1	4824.	16.61	4709.	43.17	9.861	20.44
#2	4812.	16.35	4681.	43.85	7.475	19.87
#3	4895.	16.58	4653.	44.83	11.17	20.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 21:06:19 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.60	21.67	51.92	31.85	50.95	20.35
Stddev	.93	.86	.31	.15	.63	.15
%RSD	5.581	3.970	.6062	.4728	1.229	.7137
#1	17.34	22.60	51.89	31.68	51.63	20.19
#2	15.56	20.91	51.62	31.94	50.81	20.42
#3	16.91	21.49	52.25	31.94	50.40	20.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.84	20.69	20.70	F 17.51
Stddev	.10	.14	.27	3.73
%RSD	.1880	.6576	1.301	21.30
#1	51.91	20.79	20.42	21.11
#2	51.73	20.75	20.73	13.66
#3	51.87	20.54	20.96	17.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3173.6	39590.	5898.9
Stddev	6.2	48.	67.8
%RSD	.19532	.12050	1.1500
#1	3166.5	39595.	5820.7
#2	3176.8	39635.	5934.3
#3	3177.7	39540.	5941.7

Sample Name: 460-111686-D-4-A@20 Acquired: 4/13/2016 21:18:47 Type: Unk
 Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12160.	21.26	-5901	19.12	.7146	34.08
Stddev	110.	.03	.4093	.37	.0434	3.68
%RSD	.9005	.1557	69.36	1.953	6.077	10.81
#1	12030.	21.22	-.3912	18.73	.6898	31.95
#2	12240.	21.27	-.3183	19.16	.6892	31.95
#3	12200.	21.28	-1.061	19.47	.7647	38.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.176	.9391	41.82	7.580	49570.	4330.
Stddev	.078	.0863	1.64	.129	813.	76.
%RSD	6.668	9.187	3.911	1.708	1.641	1.764
#1	-1.265	.8412	40.61	7.441	48720.	4242.
#2	-1.117	1.004	41.17	7.603	49640.	4379.
#3	-1.146	.9720	43.68	7.696	50340.	4369.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1374.	32.69	27.12	6.905	18.46	-.1113
Stddev	28.	.75	2.30	.368	1.67	1.841
%RSD	2.014	2.291	8.468	5.328	9.037	1655.
#1	1346.	31.90	28.19	7.222	20.30	-1.060
#2	1374.	32.78	24.48	6.993	18.04	-1.285
#3	1402.	33.39	28.68	6.502	17.05	2.011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111686-D-4-A@20 Acquired: 4/13/2016 21:18:47 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.554	-.9783	75.91	12.79	19.10	.0759
Stddev	1.608	.8882	1.97	.47	.35	.1259
%RSD	45.24	90.79	2.591	3.704	1.839	165.9
#1	4.416	-1.968	73.99	12.25	18.76	-.0025
#2	1.699	-.7178	75.83	13.15	19.46	.0090
#3	4.547	-.2495	77.92	12.98	19.06	.2211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.469	8.601	141.5	258.1
Stddev	1.034	.164	2.8	8.3
%RSD	41.88	1.912	1.960	3.233
#1	1.474	8.412	138.5	258.3
#2	3.537	8.711	142.1	249.6
#3	2.395	8.680	144.0	266.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3189.0	39441.	5922.4
Stddev	7.2	216.	29.4
%RSD	.22722	.54716	.49694
#1	3190.7	39597.	5905.3
#2	3181.1	39531.	5905.6
#3	3195.3	39194.	5956.4

Sample Name: scan Acquired: 4/13/2016 21:10:34 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40360.	F 537.8	F 216.4	F 1793.	F 362.8	F 36440.
Stddev	731.	8.1	3.3	27.	8.1	736.
%RSD	1.812	1.514	1.523	1.524	2.232	2.019

#1	39640.	530.3	213.2	1764.	354.6	35770.
#2	40350.	536.7	216.3	1797.	363.1	36330.
#3	41100.	546.5	219.8	1818.	370.7	37230.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		880.0	195.5	1225.	570.0	33800.
Low Limit		575.0	117.5	870.0	402.0	23050.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 848.7	F 984.9	F 1078.	F 600.2	76920.	12970.
Stddev	13.1	15.3	20.	9.3	1794.	237.
%RSD	1.544	1.553	1.883	1.557	2.332	1.826

#1	835.2	969.8	1061.	591.4	75220.	12750.
#2	849.5	984.5	1073.	599.2	76740.	12940.
#3	861.3	1000.	1100.	610.0	78800.	13220.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	515.0	890.0	855.0	1020.		
Low Limit	362.0	645.0	570.0	705.0		

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13580.	F 2538.	F 13730.	F 937.1	727.4	297.8
Stddev	280.	49.	210.	16.1	12.9	4.6
%RSD	2.065	1.931	1.532	1.721	1.770	1.550

#1	13300.	2492.	13530.	920.0	715.4	293.3
#2	13570.	2532.	13700.	939.2	725.7	297.6
#3	13860.	2589.	13950.	952.1	741.0	302.5

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		1835.	5500.	755.0		
Low Limit		1260.	3160.	535.0		

Sample Name: scan Acquired: 4/13/2016 21:10:34 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	822.9	F 1077.	548.8	1107.	781.6	F 958.8
Stddev	14.5	15.	10.7	21.	12.7	17.1
%RSD	1.759	1.420	1.949	1.942	1.631	1.779
#1	811.9	1061.	537.8	1085.	768.1	940.8
#2	817.5	1078.	549.4	1108.	783.2	960.8
#3	839.3	1092.	559.1	1128.	793.4	974.8
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit		855.0				705.0
Low Limit		560.0				457.5

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	588.7	485.5	2165.	1019.
Stddev	10.4	8.8	41.	28.
%RSD	1.776	1.813	1.910	2.704
#1	577.0	476.7	2125.	990.7
#2	592.3	485.5	2163.	1021.
#3	596.9	494.4	2207.	1046.
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3273.0	40942.	6201.5
Stddev	14.0	223.	17.8
%RSD	.42799	.54346	.28780
#1	3258.5	40686.	6185.9
#2	3274.1	41092.	6221.0
#3	3286.5	41047.	6197.5

Sample Name: MB 460-361880/1-A Acquired: 4/13/2016 21:35:43 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5146	-.9463	.0188	.0365	-.0487	-34.86
Stddev	1.865	.3265	.4992	.1339	.0496	3.85
%RSD	362.5	34.50	2659.	366.5	101.8	11.04
#1	.9952	-.6685	-.5435	-.0456	.0084	-39.19
#2	-1.544	-.8646	.1899	-.0359	-.0812	-31.82
#3	2.092	-1.306	.4100	.1910	-.0734	-33.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1636	.0199	-.0849	-.5567	-6.618	-20.84
Stddev	.1346	.2095	.2073	.1932	2.906	29.73
%RSD	82.29	1055.	244.1	34.70	43.91	142.6
#1	-.1985	-.1270	.0608	-.6853	-4.974	13.47
#2	-.0150	.2598	.0067	-.6503	-4.906	-38.80
#3	-.2773	-.0732	-.3223	-.3346	-9.974	-37.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.196	-.0828	-9.120	-.4946	-.8302	.6566
Stddev	3.637	.0421	5.761	.1977	.6368	.3332
%RSD	304.0	50.77	63.17	39.97	76.70	50.74
#1	1.147	-.1280	-15.69	-.2664	-1.465	.3448
#2	-2.416	-.0448	-4.932	-.6137	-.8339	.6174
#3	4.858	-.0757	-6.736	-.6036	-.1916	1.008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-361880/1-A Acquired: 4/13/2016 21:35:43 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.606	.0904	.0477	.4210	-1.096	-.6734
Stddev	2.753	.9176	.2927	.2166	.390	.2160
%RSD	105.6	1015.	613.7	51.45	35.54	32.07
#1	.2943	-.9047	.0210	.6257	-1.011	-.9225
#2	-2.929	.9030	.3528	.4431	-1.522	-.5571
#3	-5.183	.2730	-.2307	.1942	-.7565	-.5404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0311	.0084	-.1435	9.343
Stddev	.5465	.0736	.1026	8.183
%RSD	1754.	876.9	71.46	87.59
#1	-.6621	.0761	-.1294	18.71
#2	.2762	-.0699	-.0488	3.580
#3	.2925	.0190	-.2524	5.739

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3195.6	39685.	5924.7
Stddev	8.2	133.	35.4
%RSD	.25650	.33512	.59675
#1	3187.1	39544.	5956.5
#2	3203.5	39809.	5886.6
#3	3196.3	39701.	5931.1

Sample Name: 460-110252-G-2-B DU Acquired: 4/13/2016 21:43:59 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	489.7	-1.326	.5720	105.0	.6807	16240.
Stddev	6.4	2.042	.5000	.3	.0129	41.
%RSD	1.308	154.0	87.40	.2891	1.893	.2509
#1	497.0	-3.472	.9534	105.3	.6660	16260.
#2	485.1	.5942	.7568	104.7	.6899	16270.
#3	487.0	-1.100	.0060	105.2	.6862	16190.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0087	.6992	7.388	20.07	88.75	4668.
Stddev	.1966	.1158	.380	.45	5.77	41.
%RSD	2271.	16.56	5.143	2.254	6.498	.8840
#1	-.2349	.5980	6.954	20.18	85.77	4648.
#2	.1203	.6740	7.661	19.57	95.40	4640.
#3	.0887	.8255	7.549	20.45	85.08	4715.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2533.	278.6	21430.	7.400	-2.764	-.5907
Stddev	13.	.5	122.	.530	2.202	.9966
%RSD	.4992	.1865	.5697	7.165	79.66	168.7
#1	2529.	278.3	21330.	7.193	-5.098	-.6634
#2	2523.	279.2	21390.	7.005	-.7240	.4402
#3	2547.	278.2	21570.	8.003	-2.470	-1.549

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-110252-G-2-B DU Acquired: 4/13/2016 21:43:59 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0060	-1.191	-.0705	24.86	24.48	-.0767
Stddev	2.448	1.248	.3237	.08	.13	.1507
%RSD	40590.	104.8	459.3	.3261	.5180	196.4
#1	2.080	-2.628	-.4441	24.76	24.57	-.2500
#2	.6323	-.5640	.1067	24.92	24.54	-.0045
#3	-2.695	-.3812	.1260	24.89	24.34	.0243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3273	48.27	2.158	5717.
Stddev	1.225	.28	.189	42.
%RSD	374.1	.5727	8.771	.7395
#1	1.554	48.04	1.984	5721.
#2	-.8956	48.20	2.131	5673.
#3	.3239	48.58	2.360	5757.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3298.9	41190.	6120.4
Stddev	15.9	155.	31.2
%RSD	.48152	.37559	.51035
#1	3282.9	41183.	6148.0
#2	3314.7	41040.	6126.5
#3	3299.1	41349.	6086.5

Sample Name: 460-111686-A-2-A@20 Acquired: 4/13/2016 21:14:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10750.	13.65	.1688	17.59	.6499	126.9
Stddev	179.	1.49	.2767	.37	.0879	6.0
%RSD	1.667	10.94	163.9	2.081	13.52	4.716

#1	10570.	11.94	-.0682	17.27	.6265	122.6
#2	10750.	14.36	.1017	17.50	.5760	133.8
#3	10920.	14.66	.4729	17.99	.7471	124.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.085	.8903	34.97	9.195	43600.	3173.
Stddev	.092	.0271	.76	.443	641.	21.
%RSD	8.514	3.043	2.176	4.817	1.469	.6584

#1	-1.175	.8895	34.41	8.693	42930.	3157.
#2	-1.090	.9177	34.66	9.529	43670.	3165.
#3	-.9905	.8635	35.84	9.364	44210.	3197.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1138.	36.35	19.98	40.72	16.52	2.449
Stddev	15.	.56	.35	.18	1.69	1.511
%RSD	1.356	1.545	1.759	.4448	10.22	61.70

#1	1121.	35.77	20.15	40.52	15.37	.8947
#2	1143.	36.39	20.22	40.76	15.73	3.913
#3	1151.	36.89	19.58	40.88	18.46	2.540

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111686-A-2-A@20 Acquired: 4/13/2016 21:14:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.167	-1.637	65.97	14.82	13.41	.2134
Stddev	4.607	1.789	1.55	.28	.19	.1560
%RSD	394.7	109.3	2.355	1.880	1.434	73.10
#1	-2.709	-2.539	64.29	14.60	13.36	.3916
#2	6.260	-2.795	66.25	14.73	13.62	.1475
#3	-.0501	.4231	67.36	15.14	13.25	.1012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.269	6.286	98.10	253.2
Stddev	.384	.101	1.91	7.9
%RSD	16.93	1.612	1.942	3.122
#1	2.711	6.169	96.18	249.2
#2	2.021	6.356	98.13	262.3
#3	2.074	6.332	99.99	248.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3259.4	40436.	5928.0
Stddev	15.9	329.	75.0
%RSD	.48745	.81291	1.2649
#1	3241.4	40086.	5842.1
#2	3265.2	40482.	5961.8
#3	3271.5	40739.	5980.2

Sample Name: CCV Acquired: 4/13/2016 21:52:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	118200.	2520.	1235.	10360.	967.4	128400.
Stddev	884.	5.	2.	33.	5.0	271.
%RSD	.7480	.1882	.1269	.3220	.5171	.2108

#1	117600.	2518.	1237.	10400.	965.0	128600.
#2	117800.	2525.	1233.	10350.	964.0	128600.
#3	119200.	2516.	1235.	10340.	973.1	128100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1267.	2526.	5199.	12600.	98250.	48870.
Stddev	2.	2.	14.	19.	333.	198.
%RSD	.1479	.0594	.2718	.1523	.3392	.4049

#1	1270.	2524.	5209.	12620.	98150.	48740.
#2	1267.	2527.	5205.	12600.	97980.	48780.
#3	1266.	2526.	5183.	12580.	98620.	49100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122100.	5154.	117800.	2586.	7394.	982.5
Stddev	282.	8.	966.	7.	25.	4.8
%RSD	.2312	.1545	.8197	.2617	.3334	.4870

#1	122100.	5158.	117300.	2593.	7368.	977.0
#2	121800.	5159.	117300.	2587.	7397.	985.1
#3	122300.	5145.	119000.	2579.	7417.	985.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 21:52:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2379.	2542.	2529.	2490.	1022.	2552.
Stddev	24.	13.	2.	4.	2.	6.
%RSD	1.024	.5166	.0862	.1657	.2091	.2385

#1	2353.	2535.	2530.	2486.	1024.	2558.
#2	2382.	2534.	2531.	2492.	1022.	2546.
#3	2401.	2558.	2527.	2494.	1020.	2553.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1022.	4978.	9912.	9572.
Stddev	2.	18.	37.	119.
%RSD	.1809	.3602	.3696	1.242

#1	1024.	4965.	9894.	9553.
#2	1021.	4971.	9954.	9698.
#3	1021.	4998.	9887.	9463.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2970.7	37676.	5811.6
Stddev	1.6	59.	30.1
%RSD	.05239	.15738	.51744

#1	2971.7	37637.	5814.6
#2	2968.9	37744.	5840.0
#3	2971.6	37647.	5780.1

Sample Name: 460-111686-D-8-A@20 Acquired: 4/13/2016 21:23:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10310.	24.47	-8349	25.51	.4213	329.6
Stddev	349.	2.03	.3315	.39	.1040	12.5
%RSD	3.390	8.310	39.70	1.528	24.69	3.786
#1	9923.	22.24	-1.209	25.13	.3165	315.5
#2	10400.	26.23	-.7188	25.50	.5245	333.9
#3	10600.	24.93	-.5771	25.90	.4230	339.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.220	1.960	34.26	10.58	53810.	2141.
Stddev	.013	.115	.97	.58	998.	123.
%RSD	1.082	5.865	2.824	5.486	1.854	5.722
#1	-1.218	1.879	33.94	10.09	52780.	2006.
#2	-1.234	1.910	33.50	10.43	53880.	2173.
#3	-1.208	2.092	35.35	11.22	54770.	2245.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1159.	39.02	19.70	262.4	21.24	.6961
Stddev	26.	.94	3.97	4.5	.93	.3477
%RSD	2.213	2.419	20.17	1.723	4.399	49.94
#1	1131.	38.01	17.09	258.0	20.41	.6809
#2	1163.	39.16	24.27	262.2	21.06	1.051
#3	1182.	39.88	17.73	267.0	22.25	.3563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111686-D-8-A@20 Acquired: 4/13/2016 21:23:01 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.903	-.6220	70.35	24.37	3.821	-.0289
Stddev	1.398	2.207	1.75	.68	.744	.0922
%RSD	73.44	354.9	2.487	2.795	19.47	318.9
#1	1.957	1.921	68.56	23.90	3.317	-.0108
#2	3.274	-2.043	70.44	24.07	3.470	-.1288
#3	.4796	-1.744	72.05	25.15	4.675	.0528

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.156	11.53	157.3	243.0
Stddev	.716	.33	3.2	11.2
%RSD	22.68	2.863	2.011	4.592
#1	3.660	11.21	154.0	230.8
#2	2.337	11.51	157.8	245.5
#3	3.472	11.87	160.2	252.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3216.5	39803.	5959.8
Stddev	9.9	125.	29.5
%RSD	.30801	.31441	.49453
#1	3215.9	39659.	5972.8
#2	3226.8	39875.	5926.1
#3	3207.0	39876.	5980.5

Sample Name: 460-111686-D-9-A@20 Acquired: 4/13/2016 21:27:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10720.	17.54	-9044	16.48	.7140	205.7
Stddev	64.	1.87	.2290	.11	.0723	6.4
%RSD	.5989	10.66	25.32	.6650	10.13	3.102
#1	10660.	19.45	-.9112	16.53	.6389	199.7
#2	10710.	17.45	-.6720	16.35	.7200	212.4
#3	10790.	15.71	-1.130	16.55	.7831	205.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.299	3.076	38.83	6.228	62530.	4152.
Stddev	.028	.204	.82	.040	509.	6.
%RSD	2.115	6.631	2.110	.6433	.8134	.1488
#1	-1.331	2.903	37.94	6.189	62020.	4152.
#2	-1.287	3.023	38.98	6.225	62530.	4146.
#3	-1.280	3.301	39.56	6.269	63030.	4158.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1416.	36.61	25.52	305.3	16.10	-.2494
Stddev	13.	.46	8.35	2.7	2.56	.3549
%RSD	.8854	1.267	32.72	.8898	15.87	142.3
#1	1405.	36.14	28.01	303.1	16.46	-.6569
#2	1414.	36.60	32.35	304.4	13.38	-.0083
#3	1430.	37.07	16.21	308.3	18.45	-.0829

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111686-D-9-A@20 Acquired: 4/13/2016 21:27:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.524	-4.727	71.20	29.32	15.36	-2.740
Stddev	3.522	.9966	.45	.17	.33	.3480
%RSD	53.98	210.8	.6344	.5636	2.149	127.0
#1	6.302	.0088	70.88	29.21	15.08	.0898
#2	3.119	-1.619	71.01	29.24	15.27	-.3080
#3	10.15	.1916	71.72	29.51	15.72	-.6038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.333	6.663	126.8	252.4
Stddev	.391	.100	1.4	6.4
%RSD	16.78	1.503	1.097	2.542
#1	2.144	6.697	125.6	246.2
#2	2.783	6.550	126.5	251.9
#3	2.072	6.741	128.3	259.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3194.3	39748.	5909.9
Stddev	10.5	247.	30.8
%RSD	.33027	.62018	.52060
#1	3204.7	39971.	5938.4
#2	3194.5	39790.	5913.9
#3	3183.6	39484.	5877.3

Sample Name: 460-110252-G-3-A Acquired: 4/13/2016 22:25:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108.5	-2.041	.4883	6.437	.0029	14590.
Stddev	7.1	2.474	.4235	.128	.0142	107.
%RSD	6.549	121.2	86.73	1.984	495.9	.7361
#1	111.6	.7532	.9733	6.563	-.0035	14610.
#2	113.6	-2.921	.3003	6.442	.0191	14680.
#3	100.4	-3.955	.1913	6.307	-.0070	14470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1285	2.098	16.63	4.302	239.9	1095.
Stddev	.0685	.280	.28	.062	4.2	42.
%RSD	53.34	13.34	1.691	1.434	1.747	3.804
#1	-.0949	1.930	16.64	4.269	240.1	1109.
#2	-.2074	2.421	16.34	4.265	243.9	1128.
#3	-.0833	1.944	16.90	4.374	235.6	1048.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6064.	53.85	16210.	137.7	-4.540	-.6494
Stddev	17.	.25	71.	.4	1.312	.3868
%RSD	.2853	.4717	.4359	.2935	28.91	59.56
#1	6053.	53.67	16140.	137.4	-5.048	-.8291
#2	6084.	54.14	16230.	138.2	-5.522	-.2054
#3	6055.	53.74	16270.	137.5	-3.049	-.9136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-3-A Acquired: 4/13/2016 22:25:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.6332	-1.044	.6089	17.36	31.40	1.613
Stddev	.4674	1.283	.2128	.18	.45	.172
%RSD	73.81	122.9	34.94	1.023	1.445	10.66
#1	-1.013	-1.414	.8530	17.56	31.80	1.790
#2	-.1113	-2.101	.5106	17.26	31.50	1.446
#3	-.7753	.3838	.4631	17.25	30.91	1.602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3370	101.7	3.767	8893.
Stddev	1.219	.7	.752	157.
%RSD	361.9	.7139	19.96	1.770
#1	-.7409	100.9	3.284	8817.
#2	1.661	101.7	4.633	8788.
#3	.0913	102.4	3.383	9074.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3156.4	38988.	5672.7
Stddev	24.5	474.	106.0
%RSD	.77526	1.2157	1.8692
#1	3128.4	38782.	5627.5
#2	3167.5	38651.	5596.8
#3	3173.3	39530.	5793.9

Sample Name: 460-110252-G-5-A Acquired: 4/13/2016 22:34:30 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64.58	-8874	.5640	1.227	.0728	10100.
Stddev	5.51	1.585	.2518	.080	.0296	71.
%RSD	8.535	178.7	44.65	6.501	40.66	.7023
#1	70.55	-6610	.3635	1.176	.0957	10050.
#2	63.51	.5727	.4818	1.319	.0833	10070.
#3	59.69	-2.574	.8466	1.187	.0394	10180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0661	.3449	14.40	3.537	159.8	3992.
Stddev	.0819	.1231	.43	.277	4.9	41.
%RSD	123.8	35.68	3.005	7.837	3.085	1.018
#1	.0215	.4301	13.90	3.531	155.1	3947.
#2	-.0792	.2038	14.68	3.817	165.0	4027.
#3	-.1407	.4009	14.63	3.263	159.4	4003.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	779.6	561.0	5616.	18.24	-1.887	1.256
Stddev	9.8	2.0	36.	.37	1.474	2.658
%RSD	1.258	.3623	.6352	2.017	78.09	211.6
#1	768.4	559.4	5575.	17.95	-.2300	1.120
#2	783.6	560.4	5637.	18.13	-2.381	3.980
#3	786.8	563.3	5637.	18.66	-3.051	-1.331

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-5-A Acquired: 4/13/2016 22:34:30 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.779	.9448	-.0720	11.21	16.01	2.657
Stddev	2.224	1.434	.1089	.23	.13	.073
%RSD	80.01	151.8	151.1	2.014	.8084	2.744
#1	-3.344	1.009	.0481	10.95	16.04	2.715
#2	-.3276	-.5201	-.1643	11.35	16.12	2.682
#3	-4.666	2.345	-.0999	11.33	15.87	2.575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4031	57.01	1.238	1537.
Stddev	.2918	.58	.072	18.
%RSD	72.40	1.014	5.805	1.161
#1	-.2118	56.38	1.240	1542.
#2	-.7389	57.52	1.165	1552.
#3	-.2585	57.14	1.309	1517.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3142.2	38870.	5818.7
Stddev	11.3	259.	24.8
%RSD	.35934	.66711	.42646
#1	3132.6	38958.	5832.5
#2	3139.4	39074.	5833.5
#3	3154.6	38578.	5790.0

Sample Name: 460-110252-G-7-A Acquired: 4/13/2016 22:43:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	142.7	-1.895	.2890	62.18	-.0610	11870.
Stddev	6.6	1.292	.5388	.20	.0913	18.
%RSD	4.602	68.19	186.4	.3160	149.8	.1552
#1	147.8	-3.368	-.3072	62.36	-.0400	11870.
#2	145.1	-.9528	.7411	62.22	.0181	11840.
#3	135.3	-1.364	.4331	61.97	-.1609	11880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1235	.0083	2.609	.8582	102.4	2741.
Stddev	.1114	.1427	.340	.1624	9.7	48.
%RSD	90.23	1718.	13.04	18.93	9.445	1.743
#1	-.2454	-.1501	2.988	1.043	100.5	2711.
#2	-.0980	.0479	2.330	.7383	112.9	2796.
#3	-.0270	.1271	2.509	.7932	93.86	2716.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4812.	797.2	38380.	.4701	-3.216	1.572
Stddev	5.	.8	307.	.1971	.469	1.423
%RSD	.0963	.1039	.8005	41.93	14.60	90.54
#1	4817.	797.4	38240.	.4654	-2.675	.5325
#2	4809.	796.3	38730.	.6696	-3.448	.9894
#3	4810.	798.0	38160.	.2755	-3.523	3.194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-7-A Acquired: 4/13/2016 22:43:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.388	1.130	.3803	4.379	19.01	-.6300
Stddev	2.882	.941	.2816	.094	.23	.0988
%RSD	120.7	83.24	74.05	2.139	1.194	15.69
#1	-5.657	.3538	.6856	4.483	19.21	-.5827
#2	-.2125	.8603	.3241	4.303	19.07	-.5637
#3	-1.293	2.176	.1310	4.349	18.76	-.7436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0348	95.01	4.548	6341.
Stddev	.9976	.97	.174	42.
%RSD	2863.	1.019	3.830	.6683
#1	.2466	94.69	4.354	6295.
#2	.7918	96.09	4.692	6378.
#3	-1.143	94.23	4.598	6350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3113.5	38760.	5732.7
Stddev	15.6	86.	47.5
%RSD	.50104	.22255	.82854
#1	3131.5	38826.	5752.4
#2	3104.6	38663.	5678.6
#3	3104.4	38791.	5767.2

Sample Name: 460-111686-A-10-A@20 Acquired: 4/13/2016 21:31:28 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4788.	3.542	-.1456	12.76	.2128	69.91
Stddev	166.	1.975	.3786	.54	.0356	2.67
%RSD	3.475	55.77	260.0	4.265	16.72	3.813
#1	4615.	1.875	-.0161	12.17	.2086	68.45
#2	4802.	5.724	.1512	12.88	.1795	72.99
#3	4947.	3.027	-.5719	13.24	.2503	68.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5115	4.734	12.61	1.786	12450.	1195.
Stddev	.0294	.263	.58	.281	424.	41.
%RSD	5.750	5.548	4.576	15.71	3.402	3.459
#1	-.5356	4.743	11.94	1.895	12020.	1199.
#2	-.5203	4.467	12.91	1.467	12480.	1152.
#3	-.4787	4.992	12.97	1.995	12860.	1234.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	654.0	18.82	5.962	1100.	6.484	.5639
Stddev	22.1	.61	8.883	35.	1.748	1.131
%RSD	3.385	3.233	149.0	3.144	26.95	200.6
#1	635.2	18.21	-.2753	1064.	7.953	.4488
#2	648.4	18.81	2.028	1104.	6.947	-.5056
#3	678.4	19.43	16.13	1133.	4.551	1.749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111686-A-10-A@20 Acquired: 4/13/2016 21:31:28 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.258	-.5890	18.24	13.24	6.896	-.3268
Stddev	1.109	.2738	.33	.31	.254	.2225
%RSD	49.09	46.48	1.815	2.368	3.681	68.07
#1	-2.265	-.8908	18.02	12.94	7.146	-.4936
#2	-1.146	-.3566	18.07	13.21	6.638	-.0742
#3	-3.363	-.5196	18.62	13.57	6.902	-.4125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.168	1.972	69.35	206.3
Stddev	.275	.092	2.12	15.8
%RSD	12.70	4.673	3.055	7.648
#1	2.305	1.890	67.21	193.7
#2	2.348	1.954	69.39	201.2
#3	1.851	2.071	71.45	224.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3197.6	39703.	5925.2
Stddev	5.8	170.	28.9
%RSD	.18263	.42927	.48850
#1	3197.8	39899.	5949.2
#2	3191.6	39586.	5893.1
#3	3203.3	39625.	5933.3

Sample Name: CCV Acquired: 4/13/2016 22:47:23 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124600.	2499.	1284.	10330.	998.7	129400.
Stddev	568.	7.	1.	5.	3.7	189.
%RSD	.4558	.2897	.1109	.0489	.3696	.1459

#1	124300.	2493.	1283.	10330.	999.1	129200.
#2	125300.	2496.	1285.	10330.	1002.	129600.
#3	124300.	2507.	1285.	10320.	994.8	129300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1264.	2556.	5147.	12830.	101700.	50560.
Stddev	2.	2.	7.	17.	239.	152.
%RSD	.1739	.0712	.1406	.1309	.2350	.3005

#1	1263.	2555.	5141.	12830.	101800.	50430.
#2	1263.	2555.	5155.	12820.	101900.	50730.
#3	1267.	2558.	5145.	12850.	101400.	50520.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128200.	5221.	125600.	2559.	7631.	995.8
Stddev	205.	7.	561.	3.	8.	4.3
%RSD	.1599	.1400	.4468	.1194	.1007	.4277

#1	128100.	5219.	125200.	2559.	7624.	991.0
#2	128400.	5229.	126300.	2556.	7630.	999.0
#3	128100.	5214.	125300.	2562.	7639.	997.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 22:47:23 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2470.	2600.	2569.	2534.	1010.	2552.
Stddev	16.	12.	6.	4.	3.	3.
%RSD	.6327	.4802	.2422	.1637	.3106	.1271

#1	2453.	2586.	2565.	2534.	1007.	2548.
#2	2474.	2609.	2576.	2530.	1013.	2554.
#3	2483.	2605.	2566.	2539.	1011.	2554.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1020.	5120.	10250.	9767.
Stddev	3.	10.	44.	43.
%RSD	.2719	.1918	.4246	.4359

#1	1017.	5117.	10290.	9731.
#2	1021.	5131.	10210.	9756.
#3	1022.	5113.	10240.	9814.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2952.6	37036.	5630.7
Stddev	7.2	83.	29.9
%RSD	.24374	.22411	.53022

#1	2944.3	36997.	5605.7
#2	2955.9	36979.	5622.6
#3	2957.5	37131.	5663.8

Sample Name: LCS 460-361880/2-A Acquired: 4/13/2016 21:40:02 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1809.	1851.	46.19	1959.	46.86	19290.
Stddev	13.	1.	.61	4.	.12	20.
%RSD	.7145	.0414	1.320	.1805	.2663	.1048
#1	1811.	1851.	45.51	1962.	46.84	19310.
#2	1796.	1850.	46.67	1959.	46.75	19290.
#3	1821.	1851.	46.41	1955.	47.00	19270.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.87	488.1	205.3	232.1	954.6	16940.
Stddev	.12	1.2	.9	.4	1.6	9.
%RSD	.2534	.2486	.4294	.1902	.1685	.0541
#1	48.74	488.5	205.8	232.3	954.0	16950.
#2	48.87	489.1	205.8	232.4	953.5	16930.
#3	48.99	486.7	204.3	231.6	956.5	16940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17900.	497.8	17500.	508.3	482.6	446.6
Stddev	45.	1.1	86.	.9	1.4	1.8
%RSD	.2542	.2180	.4920	.1744	.2963	.4073
#1	17870.	498.7	17520.	509.3	480.9	444.9
#2	17950.	498.3	17400.	508.0	483.1	448.5
#3	17870.	496.6	17570.	507.6	483.7	446.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-361880/2-A Acquired: 4/13/2016 21:40:02 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1780.	2034.	487.4	494.1	478.7	482.5
Stddev	8.	8.	1.5	1.7	2.7	3.0
%RSD	.4578	.3860	.3058	.3370	.5610	.6214
#1	1771.	2041.	489.1	492.7	479.5	483.5
#2	1787.	2036.	487.0	495.9	480.9	485.0
#3	1780.	2026.	486.2	493.8	475.7	479.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	495.1	470.8	474.7	51.17
Stddev	2.8	1.5	.3	13.33
%RSD	.5588	.3229	.0649	26.05
#1	494.6	470.8	474.5	41.04
#2	498.0	469.2	474.6	66.27
#3	492.6	472.3	475.1	46.19

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3172.1	39532.	5940.4
Stddev	3.8	166.	34.2
%RSD	.12017	.41958	.57562
#1	3168.8	39405.	5902.4
#2	3171.3	39472.	5968.6
#3	3176.3	39720.	5950.2

Sample Name: LCS 460-362290/2-A@2 Acquired: 4/13/2016 23:04:20 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2418.	2345.	247.3	5077.	492.1	9962.
Stddev	9.	7.	.4	8.	1.1	24.
%RSD	.3587	.3017	.1533	.1512	.2173	.2407

#1	2420.	2353.	247.7	5085.	493.1	9980.
#2	2426.	2341.	247.3	5076.	492.1	9972.
#3	2409.	2341.	246.9	5069.	491.0	9935.

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	520.4	534.5	2508.	500.1	487.8	9500.
Stddev	1.4	.8	3.	.3	10.7	31.
%RSD	.2638	.1420	.1109	.0659	2.199	.3256

#1	521.8	535.3	2510.	499.8	496.8	9470.
#2	519.1	534.3	2510.	500.4	490.6	9532.
#3	520.4	533.8	2505.	500.1	475.9	9499.

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9647.	537.9	9516.	538.8	2557.	486.2
Stddev	29.	1.5	31.	1.0	2.	2.7
%RSD	.3053	.2875	.3208	.1843	.0840	.5622

#1	9642.	537.5	9501.	539.1	2558.	489.2
#2	9678.	539.6	9551.	539.7	2555.	483.8
#3	9620.	536.7	9495.	537.7	2559.	485.5

Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: LCS 460-362290/2-A@2 Acquired: 4/13/2016 23:04:20 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	492.7	539.5	258.7	534.2	503.8	513.5
Stddev	2.1	1.4	1.1	1.4	2.3	1.5
%RSD	.4174	.2668	.4415	.2657	.4495	.2884

#1	494.7	541.2	258.9	534.0	503.9	513.3
#2	490.6	538.5	259.7	532.9	501.5	512.1
#3	492.8	538.9	257.4	535.7	506.0	515.0

Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	498.5	501.7	513.3	46.32
Stddev	2.3	.4	1.3	2.95
%RSD	.4654	.0729	.2520	6.361

#1	498.7	502.0	514.1	45.99
#2	496.1	501.6	514.0	43.54
#3	500.7	501.3	511.8	49.41

Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3136.7	39151.	5760.6
Stddev	8.0	200.	11.5
%RSD	.25360	.51128	.19936

#1	3132.2	38972.	5773.5
#2	3132.0	39115.	5757.0
#3	3145.9	39367.	5751.4

Sample Name: sd 460-111956-A-1-B Acquired: 4/13/2016 23:17:11 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.612	216.4	-.3418	11.01	-.0509	331.7
Stddev	2.776	1.2	.1670	.07	.0312	2.2
%RSD	36.47	.5473	48.85	.6199	61.23	.6763
#1	-5.568	217.0	-.2036	10.95	-.0704	330.5
#2	-6.494	217.2	-.5273	11.00	-.0674	334.3
#3	-10.77	215.1	-.2944	11.09	-.0150	330.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0430	5.568	-.4610	1.447	12.25	81.69
Stddev	.0692	.131	.3547	.324	11.63	25.11
%RSD	160.9	2.345	76.95	22.36	94.98	30.74
#1	-.0157	5.678	-.1348	1.526	17.65	100.0
#2	.1192	5.423	-.4095	1.724	20.20	91.99
#3	.0254	5.602	-.8386	1.092	-1.104	53.07

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100.7	1.032	58350.	56.84	4.307	82.98
Stddev	3.9	.057	179.	.14	.862	1.17
%RSD	3.870	5.546	.3068	.2492	20.01	1.408
#1	98.07	1.023	58150.	56.98	4.971	81.95
#2	98.94	1.093	58460.	56.69	4.618	82.73
#3	105.2	.9796	58450.	56.84	3.333	84.25

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: sd 460-111956-A-1-B Acquired: 4/13/2016 23:17:11 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0300	-1.283	24.14	3.726	2.461	1.061
Stddev	2.425	1.864	.49	.170	.380	.191
%RSD	8088.	145.3	2.010	4.568	15.45	17.96
#1	-0.8395	-0.0030	23.70	3.919	2.556	1.222
#2	2.696	-0.4239	24.66	3.599	2.042	.8504
#3	-1.946	-3.421	24.06	3.659	2.785	1.110

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2323	-34.83	.1013	543.9
Stddev	.5454	.49	.1445	19.3
%RSD	234.7	1.396	142.6	3.549
#1	-0.2023	-34.28	-.0332	551.6
#2	.8443	-34.99	.0832	522.0
#3	.0550	-35.21	.2540	558.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3114.6	38470.	5620.4
Stddev	8.1	84.	18.3
%RSD	.25900	.21823	.32593
#1	3115.7	38374.	5639.0
#2	3122.0	38532.	5602.4
#3	3106.0	38504.	5620.0

Sample Name: CCV Acquired: 4/13/2016 23:43:08 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125400.	2463.	1254.	10130.	1010.	125700.
Stddev	653.	2.	4.	33.	5.	63.
%RSD	.5204	.0945	.3038	.3240	.4602	.0499

#1	124800.	2463.	1258.	10100.	1005.	125700.
#2	125400.	2465.	1252.	10120.	1009.	125800.
#3	126100.	2460.	1252.	10170.	1015.	125700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1254.	2523.	5020.	12570.	101700.	49980.
Stddev	4.	4.	18.	26.	343.	129.
%RSD	.3041	.1718	.3575	.2029	.3377	.2589

#1	1252.	2519.	5002.	12600.	101300.	49960.
#2	1252.	2522.	5038.	12570.	101900.	49860.
#3	1259.	2528.	5020.	12550.	101900.	50110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126600.	5108.	125600.	2517.	7599.	990.3
Stddev	255.	3.	406.	6.	15.	3.0
%RSD	.2010	.0589	.3230	.2443	.2022	.3073

#1	126900.	5105.	125100.	2513.	7584.	986.9
#2	126400.	5111.	125700.	2514.	7599.	991.4
#3	126500.	5108.	125900.	2524.	7615.	992.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/13/2016 23:43:08 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2495.	2561.	2526.	2531.	987.7	2518.
Stddev	8.	13.	2.	10.	2.5	11.
%RSD	.3224	.4982	.0817	.4023	.2532	.4420

#1	2486.	2547.	2524.	2524.	985.6	2506.
#2	2496.	2565.	2528.	2527.	987.0	2518.
#3	2502.	2572.	2525.	2543.	990.4	2529.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1006.	5106.	10220.	9669.
Stddev	5.	7.	17.	38.
%RSD	.4904	.1445	.1627	.3926

#1	1001.	5098.	10210.	9671.
#2	1005.	5106.	10240.	9705.
#3	1011.	5113.	10220.	9629.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3009.9	37935.	5722.5
Stddev	14.0	65.	43.8
%RSD	.46634	.17233	.76504

#1	3019.8	38011.	5765.8
#2	3016.0	37903.	5723.4
#3	2993.8	37893.	5678.2

Sample Name: pds 460-111956-A-1-B Acquired: 4/13/2016 23:25:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1855.	2930.	45.67	1998.	49.83	21170.
Stddev	15.	14.	.61	8.	.36	44.
%RSD	.8071	.4656	1.327	.4026	.7190	.2098

#1	1843.	2931.	46.11	1993.	49.42	21120.
#2	1851.	2916.	45.93	1995.	49.99	21210.
#3	1872.	2943.	44.98	2007.	50.09	21180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.63	517.6	205.3	251.5	1129.	18530.
Stddev	.09	1.8	1.5	2.1	18.	59.
%RSD	.1919	.3417	.7192	.8543	1.557	.3163

#1	48.53	516.3	203.6	249.0	1115.	18480.
#2	48.71	516.8	206.1	252.2	1122.	18500.
#3	48.65	519.6	206.2	253.1	1149.	18590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19480.	512.0	F 306600.	766.6	507.4	857.9
Stddev	20.	.9	6128.	3.9	1.8	4.3
%RSD	.1030	.1738	1.999	.5136	.3587	.5067

#1	19460.	511.0	301000.	762.9	505.6	852.9
#2	19490.	512.4	305500.	766.2	507.3	859.9
#3	19500.	512.6	313100.	770.7	509.2	860.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 460-111956-A-1-B Acquired: 4/13/2016 23:25:44 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1967.	2003.	637.9	521.5	502.8	490.9
Stddev	8.	12.	5.2	2.6	1.6	2.1
%RSD	.3977	.5980	.8121	.4921	.3246	.4259
#1	1961.	2007.	632.4	519.0	501.0	489.3
#2	1965.	1990.	638.7	521.4	503.9	490.1
#3	1976.	2014.	642.6	524.1	503.7	493.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	492.1	318.9	508.1	2849.
Stddev	2.1	1.3	2.1	21.
%RSD	.4182	.4193	.4050	.7202
#1	490.6	318.5	506.3	2831.
#2	491.3	317.8	507.6	2845.
#3	494.5	320.4	510.3	2871.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3077.0	37581.	5698.4
Stddev	14.6	63.	48.6
%RSD	.47550	.16877	.85214
#1	3087.3	37643.	5750.7
#2	3083.3	37583.	5689.9
#3	3060.2	37516.	5654.7

Sample Name: 460-111958-B-1-C@5 Acquired: 4/13/2016 23:34:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	309.4	226.9	-.0634	25.85	.0479	1085.
Stddev	6.2	.9	.4693	.18	.1150	6.
%RSD	2.014	.4142	740.3	.7081	239.9	.5238
#1	315.2	227.5	.1103	25.65	-.0482	1084.
#2	302.8	225.8	.2943	25.90	.0167	1080.
#3	310.1	227.5	-.5948	26.01	.1754	1091.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0999	15.90	-.1339	11.37	277.4	799.8
Stddev	.0539	.04	.3710	.64	9.7	57.7
%RSD	53.99	.2339	277.1	5.619	3.508	7.210
#1	-.0630	15.93	.0199	10.74	278.0	733.3
#2	-.1618	15.86	-.5570	12.01	286.8	829.6
#3	-.0749	15.90	.1355	11.37	267.3	836.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2498.	6.140	F 292200.	132.8	4.132	370.2
Stddev	16.	.078	4895.	.5	1.350	2.9
%RSD	.6222	1.275	1.675	.3906	32.67	.7842
#1	2481.	6.154	289000.	132.2	5.285	366.8
#2	2509.	6.210	297800.	133.0	2.647	372.2
#3	2506.	6.055	289700.	133.2	4.463	371.5

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111958-B-1-C@5 Acquired: 4/13/2016 23:34:16 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.6629	-1.113	592.6	9.302	20.70	131.2
Stddev	3.312	.911	2.5	.338	.40	.8
%RSD	499.7	81.83	.4236	3.634	1.947	.6473
#1	-1.301	-1.655	589.7	9.237	20.53	130.2
#2	-3.610	-1.624	594.4	9.001	20.40	131.5
#3	2.922	-.0615	593.6	9.667	21.16	131.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1165	-29.71	12.52	4415.
Stddev	.9076	.54	.26	45.
%RSD	779.2	1.819	2.043	1.029
#1	-.5446	-29.10	12.24	4363.
#2	1.151	-30.10	12.72	4438.
#3	-.2572	-29.95	12.62	4445.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3017.4	37131.	5508.5
Stddev	7.6	103.	29.2
%RSD	.25022	.27817	.53086
#1	3014.0	37012.	5536.8
#2	3012.1	37192.	5478.4
#3	3026.0	37189.	5510.2

Sample Name: 460-110252-G-2-A Acquired: 4/13/2016 21:48:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	479.5	-2.968	.4095	106.6	.7509	16540.
Stddev	11.6	.644	.2567	.5	.0434	80.
%RSD	2.411	21.70	62.69	.4412	5.781	.4857
#1	478.9	-3.568	.1202	106.2	.7742	16470.
#2	491.3	-3.049	.6103	106.5	.7776	16540.
#3	468.2	-2.287	.4981	107.1	.7008	16630.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0108	.3295	7.518	19.74	97.23	4671.
Stddev	.1087	.0813	.369	.22	10.09	10.
%RSD	1007.	24.67	4.914	1.113	10.38	.2126
#1	-.0870	.2678	7.839	19.83	108.7	4668.
#2	.1278	.2990	7.602	19.90	93.02	4682.
#3	-.0085	.4216	7.114	19.49	89.93	4664.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2543.	282.0	21350.	7.710	-3.363	1.326
Stddev	4.	1.2	135.	.504	1.553	.736
%RSD	.1700	.4224	.6310	6.543	46.18	55.52
#1	2541.	280.8	21500.	8.036	-2.324	1.749
#2	2548.	282.0	21320.	7.965	-2.617	1.752
#3	2540.	283.2	21230.	7.129	-5.148	.4758

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-110252-G-2-A Acquired: 4/13/2016 21:48:14 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .9775	- .1788	.0560	24.65	24.97	- .4414
Stddev	1.206	.4011	.2893	.17	.44	.0679
%RSD	123.4	224.3	516.7	.6849	1.757	15.39
#1	- .7636	- .0426	.0775	24.64	25.47	- .3718
#2	.1075	.1364	.3339	24.82	24.83	- .5076
#3	- 2.276	- .6303	- .2435	24.49	24.63	- .4446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6766	48.28	1.933	5717.
Stddev	.8175	.17	.041	47.
%RSD	120.8	.3418	2.135	.8183
#1	.6966	48.46	1.898	5765.
#2	1.484	48.25	1.924	5714.
#3	- .1507	48.14	1.979	5672.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3242.0	40452.	6045.0
Stddev	14.3	54.	29.7
%RSD	.44252	.13230	.49132
#1	3228.1	40512.	6012.2
#2	3241.1	40436.	6052.7
#3	3256.7	40408.	6070.1

Sample Name: CCB Acquired: 4/13/2016 21:56:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.432	-2.082	-.1302	.1791	.0211	-32.34
Stddev	6.138	1.552	.1563	.1717	.0944	3.16
%RSD	72.79	74.54	120.0	95.90	447.0	9.772

#1	-6.339	-3.140	-.0039	.3711	.0831	-31.30
#2	-15.34	-2.805	-.0818	.0403	-.0875	-35.89
#3	-3.615	-.3004	-.3050	.1257	.0677	-29.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1325	-.0014	-.1328	-.5164	-6.412	-2.221
Stddev	.0348	.3334	.3639	.1499	6.652	10.14
%RSD	26.26	24070.	274.0	29.04	103.7	456.6

#1	-.1548	-.3574	.2871	-.3711	1.099	-13.87
#2	-.1503	.0497	-.3563	-.5074	-11.56	4.647
#3	-.0924	.3035	-.3292	-.6706	-8.779	2.558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.903	.0840	3.850	-.4099	-1.521	1.290
Stddev	3.505	.0800	4.463	.1529	.660	2.326
%RSD	59.38	95.25	115.9	37.29	43.41	180.3

#1	2.540	.0305	8.770	-.5536	-2.282	2.279
#2	9.535	.1760	2.715	-.4268	-1.096	2.956
#3	5.634	.0455	.0638	-.2493	-1.186	-1.367

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 21:56:30 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.881	-1.199	.0321	-.0641	.1577	.6173
Stddev	.890	1.002	.1312	.2167	.5374	.4730
%RSD	47.33	83.64	408.6	338.1	340.8	76.62
#1	-2.665	-.5038	.1800	-.2921	.2829	1.099
#2	-2.065	-2.348	-.0137	.1392	.6214	.5986
#3	-.9130	-.7440	-.0700	-.0393	-.4313	.1540

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1090	.1011	.3595	11.17
Stddev	.3876	.0125	.0536	16.86
%RSD	355.6	12.38	14.91	150.9
#1	.3021	.1004	.4212	29.62
#2	-.3372	.1139	.3320	-3.453
#3	.3622	.0889	.3252	7.359

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3172.8	39539.	5907.0
Stddev	9.0	100.	55.1
%RSD	.28334	.25168	.93237
#1	3163.3	39476.	5954.8
#2	3181.2	39488.	5919.3
#3	3174.0	39654.	5846.8

Sample Name: CCVL Acquired: 4/13/2016 22:00:50 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.5	12.50	9.600	216.4	2.027	5332.
Stddev	7.6	.32	.674	.4	.149	21.
%RSD	3.741	2.572	7.019	.1875	7.375	.3867

#1	205.1	12.82	8.823	216.2	2.199	5315.
#2	208.5	12.52	9.957	216.9	1.928	5327.
#3	194.0	12.18	10.02	216.3	1.954	5355.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.015	53.87	11.20	24.76	152.2	4818.
Stddev	.110	.21	.29	.17	4.3	48.
%RSD	2.738	.3873	2.633	.6858	2.818	.9981

#1	3.957	53.70	11.42	24.77	155.5	4816.
#2	4.142	54.10	11.32	24.58	153.7	4771.
#3	3.946	53.81	10.87	24.92	147.3	4867.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4878.	16.63	4669.	44.34	11.53	19.39
Stddev	23.	.09	56.	.37	1.41	1.54
%RSD	.4643	.5699	1.207	.8450	12.25	7.963

#1	4860.	16.54	4653.	43.91	11.18	17.72
#2	4869.	16.63	4622.	44.60	10.32	20.77
#3	4903.	16.73	4731.	44.50	13.08	19.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 22:00:50 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.70	20.90	52.60	32.16	51.05	20.39
Stddev	2.08	.44	.57	.40	.75	.20
%RSD	11.76	2.118	1.090	1.244	1.471	.9887
#1	19.74	21.35	52.61	32.27	50.22	20.62
#2	15.57	20.46	53.17	31.71	51.68	20.22
#3	17.80	20.89	52.02	32.49	51.25	20.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.62	20.61	20.57	F 10.80
Stddev	.67	.11	.09	4.60
%RSD	1.304	.5158	.4489	42.57
#1	50.96	20.70	20.51	12.32
#2	52.31	20.65	20.68	14.44
#3	51.59	20.49	20.53	5.632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3121.1	38713.	5703.8
Stddev	1.7	104.	62.8
%RSD	.05363	.26826	1.1010
#1	3122.9	38769.	5698.0
#2	3119.7	38778.	5769.3
#3	3120.5	38594.	5644.1

Sample Name: MB 460-362058/1-A Acquired: 4/14/2016 0:16:59 Type: QC

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-20.62	-2.089	.2436	.0234	-.0438	6.868
Stddev	6.42	2.640	.1756	.0662	.1076	3.756
%RSD	31.14	126.4	72.08	282.9	245.4	54.69

#1	-22.11	-.5470	.4437	-.0465	.0110	3.273
#2	-26.16	-5.137	.1158	.0315	.0253	10.77
#3	-13.58	-.5820	.1712	.0851	-.1678	6.565

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0604	-.1016	-.3642	.4548	3.444	-32.04
Stddev	.0715	.2623	.1811	.2463	3.540	18.68
%RSD	118.4	258.2	49.72	54.15	102.8	58.30

#1	-.1421	.0626	-.5717	.5147	.5070	-13.93
#2	-.0095	-.4041	-.2822	.1842	2.450	-51.24
#3	-.0295	.0367	-.2386	.6657	7.375	-30.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.713	-.0764	85.08	.1331	.7498	.0952
Stddev	2.464	.0379	20.03	.2463	.3783	1.057
%RSD	143.8	49.52	23.55	185.1	50.45	1110.

#1	1.055	-.1074	107.0	.3325	.7457	1.123
#2	-3.665	-.0342	80.41	-.1423	1.130	-.9887
#3	-2.530	-.0877	67.79	.2090	.3736	.1516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-362058/1-A Acquired: 4/14/2016 0:16:59 Type: QC

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.218	1.848	-.2222	.4039	-.9555	-.6633
Stddev	1.565	1.409	.6048	.1980	.5087	.1479
%RSD	70.54	76.21	272.2	49.04	53.24	22.30

#1	-3.266	3.471	.4715	.3544	-.9438	-.5219
#2	-.4195	1.133	-.4987	.2353	-1.470	-.8170
#3	-2.968	.9415	-.6393	.6220	-.4527	-.6510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2996	-.0001	-.1018	10.56
Stddev	.4610	.0557	.0472	3.29
%RSD	153.9	38710.	46.33	31.15

#1	.1700	.0069	-.0903	13.07
#2	-.3172	-.0591	-.0614	11.76
#3	-.7515	.0517	-.1536	6.835

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3181.5	39506.	5727.0
Stddev	19.2	124.	19.0
%RSD	.60323	.31329	.33100

#1	3159.4	39408.	5721.0
#2	3193.5	39645.	5748.2
#3	3191.7	39465.	5711.7

Sample Name: sd 460-110252-G-2-A Acquired: 4/13/2016 22:05:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.46	-.6341	-.1389	21.04	.1155	3254.
Stddev	5.99	2.023	.3512	.21	.0693	3.
%RSD	6.277	319.1	253.0	.9755	59.94	.0915

#1	88.79	-2.759	.2661	21.19	.0740	3251.
#2	100.4	-.4131	-.3615	21.13	.1955	3253.
#3	97.17	1.270	-.3211	20.81	.0771	3257.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1481	.2035	1.373	3.464	14.90	883.5
Stddev	.1138	.0804	.525	.164	10.64	25.0
%RSD	76.85	39.53	38.25	4.734	71.40	2.825

#1	-.0365	.2327	1.646	3.637	2.633	856.0
#2	-.1438	.2652	.7678	3.310	20.48	889.8
#3	-.2641	.1125	1.706	3.445	21.59	904.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497.1	56.50	4186.	1.351	-.4695	-.0195
Stddev	6.9	.44	46.	.333	.8109	1.379
%RSD	1.395	.7708	1.107	24.66	172.7	7067.

#1	495.7	56.29	4134.	1.572	-.1468	1.488
#2	491.0	56.22	4201.	1.515	.1304	-.3296
#3	504.7	57.00	4222.	.9680	-1.392	-1.217

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110252-G-2-A Acquired: 4/13/2016 22:05:06 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.871	-.1440	.1496	5.093	4.174	-.3171
Stddev	1.206	.6057	.1291	.185	.513	.1492
%RSD	42.00	420.7	86.27	3.637	12.30	47.04
#1	-2.120	-.3600	.1838	5.239	4.716	-.2439
#2	-2.232	.5401	.2582	5.154	4.109	-.4887
#3	-4.262	-.6121	.0069	4.884	3.695	-.2187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.6492	9.487	.4600	1118.
Stddev	.9629	.176	.0430	23.
%RSD	148.3	1.857	9.346	2.058
#1	-.0085	9.322	.5034	1111.
#2	-.1826	9.467	.4174	1144.
#3	-1.757	9.673	.4592	1099.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3206.1	39844.	5936.9
Stddev	.8	116.	64.8
%RSD	.02378	.29153	1.0907
#1	3205.4	39954.	5989.1
#2	3206.9	39723.	5957.1
#3	3206.2	39856.	5864.4

Sample Name: 460-110252-G-2-C MS Acquired: 4/13/2016 22:09:22 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2220.	1815.	44.87	2011.	46.22	35090.
Stddev	9.	7.	.53	4.	.39	41.
%RSD	.4017	.4071	1.185	.1946	.8543	.1183
#1	2209.	1818.	44.45	2013.	46.19	35130.
#2	2225.	1821.	45.47	2013.	45.84	35050.
#3	2225.	1807.	44.69	2006.	46.63	35080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.14	473.7	207.6	249.9	1011.	21110.
Stddev	.28	.4	1.9	1.9	14.	34.
%RSD	.5956	.0919	.9038	.7618	1.382	.1613
#1	47.15	473.7	205.4	247.9	994.8	21120.
#2	46.86	473.2	208.8	251.6	1019.	21080.
#3	47.42	474.1	208.6	250.3	1019.	21150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19810.	756.6	38170.	498.5	460.2	438.2
Stddev	39.	.3	160.	.6	.1	4.0
%RSD	.1977	.0408	.4200	.1202	.0161	.9015
#1	19770.	756.2	38060.	499.2	460.2	441.8
#2	19830.	756.8	38100.	498.4	460.1	438.8
#3	19840.	756.8	38360.	498.0	460.2	434.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-2-C MS Acquired: 4/13/2016 22:09:22 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1727.	1966.	480.6	500.4	493.7	469.7
Stddev	12.	18.	2.0	1.0	3.7	2.9
%RSD	.6973	.9233	.4239	.1926	.7593	.6256
#1	1718.	1969.	478.3	499.3	495.8	469.2
#2	1741.	1982.	481.3	500.8	496.0	472.8
#3	1722.	1946.	482.1	501.2	489.4	467.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	481.7	503.2	463.5	5846.
Stddev	3.4	1.6	.6	33.
%RSD	.7084	.3269	.1381	.5717
#1	482.1	502.3	463.1	5810.
#2	485.0	502.2	463.1	5853.
#3	478.2	505.1	464.2	5876.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3217.7	40220.	6109.2
Stddev	6.8	110.	10.3
%RSD	.21177	.27233	.16897
#1	3209.9	40128.	6113.8
#2	3221.0	40342.	6116.5
#3	3222.3	40191.	6097.4

Sample Name: CCV Acquired: 4/14/2016 0:37:06 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128100.	2528.	1285.	10420.	1031.	128900.
Stddev	724.	13.	10.	41.	5.	983.
%RSD	.5649	.5050	.7500	.3903	.5177	.7626

#1	127400.	2518.	1279.	10380.	1027.	128400.
#2	128100.	2542.	1280.	10460.	1029.	128300.
#3	128900.	2523.	1296.	10430.	1038.	130000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1286.	2594.	5154.	12860.	104200.	51090.
Stddev	4.	10.	33.	64.	482.	351.
%RSD	.2818	.3999	.6374	.4958	.4622	.6862

#1	1283.	2583.	5137.	12820.	104300.	50730.
#2	1290.	2603.	5133.	12830.	103600.	51090.
#3	1286.	2596.	5192.	12940.	104600.	51440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129400.	5236.	128200.	2585.	7800.	1017.
Stddev	832.	34.	503.	7.	16.	5.
%RSD	.6429	.6522	.3924	.2785	.2085	.4773

#1	129100.	5222.	127900.	2577.	7785.	1011.
#2	128700.	5211.	127900.	2591.	7799.	1020.
#3	130300.	5275.	128700.	2588.	7817.	1019.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/14/2016 0:37:06 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2542.	2633.	2588.	2599.	1016.	2586.
Stddev	4.	15.	13.	8.	3.	12.
%RSD	.1428	.5656	.4913	.2933	.2474	.4807

#1	2546.	2617.	2581.	2590.	1013.	2573.
#2	2539.	2646.	2581.	2603.	1018.	2597.
#3	2541.	2637.	2603.	2604.	1016.	2590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1036.	5218.	10450.	9852.
Stddev	4.	29.	35.	146.
%RSD	.3605	.5555	.3396	1.479

#1	1032.	5190.	10460.	9716.
#2	1040.	5217.	10400.	9834.
#3	1035.	5247.	10470.	10010.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2940.6	37170.	5565.0
Stddev	7.6	270.	46.1
%RSD	.25794	.72752	.82783

#1	2949.2	37072.	5528.6
#2	2937.4	37475.	5616.8
#3	2935.0	36961.	5549.7

Sample Name: CCVL Acquired: 4/14/2016 0:44:56 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.6	14.35	10.46	214.1	2.142	5318.
Stddev	6.0	.75	.38	.8	.058	8.
%RSD	2.684	5.207	3.661	.3745	2.698	.1509

#1	225.9	13.80	10.45	214.4	2.076	5323.
#2	229.9	15.20	10.08	214.7	2.167	5308.
#3	218.1	14.05	10.84	213.2	2.183	5321.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.242	54.39	10.42	25.98	174.9	5033.
Stddev	.106	.39	.09	.20	11.3	52.
%RSD	2.505	.7134	.8203	.7746	6.482	1.034

#1	4.343	54.83	10.46	26.08	185.7	4974.
#2	4.131	54.08	10.32	25.75	175.9	5060.
#3	4.252	54.27	10.48	26.12	163.1	5067.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5161.	16.94	5097.	43.58	11.12	19.89
Stddev	13.	.07	28.	.23	2.34	.67
%RSD	.2555	.4078	.5446	.5170	21.06	3.353

#1	5158.	17.01	5067.	43.34	11.64	19.24
#2	5149.	16.93	5122.	43.62	13.16	19.84
#3	5175.	16.87	5103.	43.79	8.561	20.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/14/2016 0:44:56 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.05	22.48	53.03	33.02	49.38	20.30
Stddev	1.22	1.25	.28	.05	.65	.09
%RSD	7.170	5.582	.5330	.1504	1.316	.4345

#1	16.13	23.64	52.97	33.04	50.06	20.23
#2	18.44	21.15	52.79	32.96	49.29	20.40
#3	16.58	22.66	53.35	33.06	48.77	20.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.16	21.74	21.57	F 17.23
Stddev	.94	.20	.14	11.67
%RSD	1.829	.9125	.6373	67.73

#1	50.09	21.61	21.68	10.52
#2	51.58	21.97	21.62	30.71
#3	51.81	21.64	21.41	10.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3146.9	38735.	5536.5
Stddev	10.4	147.	62.3
%RSD	.33172	.37936	1.1254

#1	3148.2	38810.	5604.9
#2	3135.8	38829.	5521.8
#3	3156.6	38566.	5482.9

Sample Name: pds 460-111840-J-16- Acquired: 4/14/2016 0:52:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2000.	1860.	48.47	1971.	50.02	35140.
Stddev	16.	5.	.77	1.	.36	270.
%RSD	.7922	.2820	1.578	.0661	.7291	.7685
#1	1983.	1860.	47.94	1972.	50.31	35180.
#2	2001.	1854.	48.13	1969.	49.61	34860.
#3	2015.	1864.	49.35	1971.	50.14	35390.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.44	491.5	200.2	245.3	1469.	28080.
Stddev	.23	.2	2.0	1.3	13.	85.
%RSD	.4740	.0407	1.014	.5354	.8547	.3043
#1	48.32	491.4	199.1	243.8	1465.	28000.
#2	48.29	491.7	198.9	246.4	1459.	28060.
#3	48.70	491.3	202.5	245.6	1483.	28170.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21310.	635.8	241600.	498.6	497.8	458.0
Stddev	135.	3.4	4373.	.6	2.7	1.8
%RSD	.6321	.5381	1.810	.1295	.5475	.3843
#1	21310.	636.0	236600.	498.4	499.4	459.4
#2	21180.	632.3	244100.	498.1	494.6	456.1
#3	21450.	639.1	244200.	499.3	499.3	458.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: pds 460-111840-J-16- Acquired: 4/14/2016 0:52:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1938.	2028.	506.4	511.7	515.9	485.5
Stddev	15.	3.	2.9	3.2	5.1	3.6
%RSD	.7583	.1577	.5687	.6221	.9811	.7425
#1	1944.	2030.	503.1	511.3	518.0	484.1
#2	1921.	2024.	507.7	508.8	510.2	482.8
#3	1949.	2030.	508.4	515.1	519.7	489.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	489.5	637.3	499.4	1050.
Stddev	5.1	1.3	2.0	15.
%RSD	1.038	.2042	.3990	1.426
#1	488.6	637.4	498.4	1034.
#2	485.0	635.9	498.1	1052.
#3	495.0	638.5	501.6	1064.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3060.5	38063.	5656.1
Stddev	8.2	240.	27.7
%RSD	.26769	.63177	.48906
#1	3053.6	37911.	5635.9
#2	3058.2	38340.	5687.6
#3	3069.6	37937.	5644.7

Sample Name: LB 460-361895/1-B@5 Acquired: 4/14/2016 0:56:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.524	-1.610	.4564	.1447	-.0245	7.201
Stddev	8.326	1.820	.6249	.0643	.0255	3.969
%RSD	184.0	113.0	136.9	44.44	103.8	55.12
#1	-1.927	-2.362	-.1416	.2086	.0032	4.045
#2	-13.84	.4654	.4057	.1456	-.0468	11.66
#3	2.193	-2.933	1.105	.0800	-.0301	5.900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0743	-.0996	-.0693	.3165	.8975	20.48
Stddev	.0682	.2050	.1081	.0531	4.249	25.75
%RSD	91.85	205.9	156.0	16.78	473.4	125.7
#1	-.1401	.1094	-.0534	.2612	-.6857	-8.502
#2	-.0039	-.1079	-.1845	.3672	5.711	40.73
#3	-.0789	-.3002	.0300	.3210	-2.333	29.22

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.175	.0230	75.70	.4352	-.7733	.4131
Stddev	3.276	.0360	15.94	.4471	3.136	.9127
%RSD	103.2	156.2	21.06	102.7	405.5	221.0
#1	6.514	.0525	91.78	.8393	-4.394	.3274
#2	-.0333	-.0170	75.40	.5115	1.014	-.4538
#3	3.043	.0336	59.90	-.0451	1.060	1.366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 460-361895/1-B@5 Acquired: 4/14/2016 0:56:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.885	.3970	-.1272	.8310	.3675	-.3051
Stddev	2.011	1.621	.2807	.0675	.3989	.0491
%RSD	69.72	408.2	220.6	8.123	108.5	16.08
#1	-.8026	-.9996	-.2763	.7847	.6056	-.3454
#2	-4.817	.0167	-.3019	.9085	-.0930	-.2504
#3	-3.035	2.174	.1965	.7999	.5899	-.3193

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6941	-.0132	-.0252	19.60
Stddev	.6410	.0443	.0563	7.04
%RSD	92.36	336.0	223.2	35.94
#1	-.0156	-.0643	-.0449	19.54
#2	.8666	.0109	-.0691	26.68
#3	1.231	.0139	.0383	12.59

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3145.6	38782.	5589.6
Stddev	12.5	268.	85.2
%RSD	.39801	.68979	1.5235
#1	3147.0	39037.	5610.3
#2	3132.5	38504.	5496.0
#3	3157.4	38804.	5662.5

Sample Name: LCSSRM 460-361840/2- Acquired: 4/14/2016 1:04:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35450.	689.6	151.6	1060.	485.4	28470.
Stddev	515.	6.4	1.4	8.	6.1	141.
%RSD	1.453	.9335	.9082	.7170	1.247	.4950

#1	35080.	683.2	150.7	1053.	480.6	28340.
#2	35240.	689.6	150.8	1060.	483.4	28460.
#3	36040.	696.0	153.2	1068.	492.2	28620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	449.3	847.0	737.2	872.3	70990.	10990.
Stddev	3.2	4.4	4.1	3.0	604.	114.
%RSD	.7106	.5174	.5565	.3463	.8506	1.038

#1	446.1	847.5	733.4	870.9	70490.	10880.
#2	449.2	842.4	736.6	870.2	70820.	10970.
#3	452.5	851.1	741.5	875.7	71660.	11110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12360.	1591.	4291.	721.1	761.2	413.2
Stddev	79.	9.	54.	6.2	5.9	5.6
%RSD	.6354	.5483	1.264	.8571	.7701	1.354

#1	12320.	1584.	4254.	714.8	755.8	409.4
#2	12310.	1588.	4265.	721.3	760.4	410.5
#3	12450.	1601.	4353.	727.2	767.4	419.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-361840/2- Acquired: 4/14/2016 1:04:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	878.6	781.9	567.9	995.3	641.1	614.1
Stddev	12.9	10.8	2.9	5.6	6.4	7.5
%RSD	1.470	1.379	.5190	.5641	1.001	1.219
#1	869.5	771.3	566.0	992.8	635.3	606.6
#2	873.0	781.5	566.4	991.4	639.9	614.2
#3	893.4	792.8	571.3	1002.	648.0	621.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	750.8	539.0	1411.	1617.
Stddev	12.9	5.7	8.	41.
%RSD	1.719	1.059	.5682	2.545
#1	737.5	535.1	1405.	1574.
#2	751.6	536.3	1409.	1621.
#3	763.2	545.5	1420.	1656.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3230.8	40297.	5976.0
Stddev	20.4	416.	59.0
%RSD	.63158	1.0317	.98717
#1	3209.8	39834.	5908.2
#2	3232.2	40416.	6003.6
#3	3250.5	40639.	6016.1

Sample Name: 460-111474-C-1-E DU Acquired: 4/14/2016 1:08:33 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7459.	30.24	.4659	89.03	.8161	1711.
Stddev	112.	.64	.2003	.17	.0453	10.
%RSD	1.497	2.109	42.99	.1891	5.550	.5799

#1	7330.	30.25	.2454	88.93	.8172	1720.
#2	7526.	29.60	.5156	89.23	.7703	1713.
#3	7521.	30.88	.6366	88.94	.8608	1700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7182	12.25	31.03	20.85	48320.	1319.
Stddev	.1133	.26	.15	.48	166.	18.
%RSD	15.78	2.084	.4926	2.296	.3440	1.386

#1	-.7495	11.98	30.85	20.84	48130.	1303.
#2	-.5925	12.28	31.12	21.34	48400.	1314.
#3	-.8126	12.49	31.11	20.38	48430.	1339.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3017.	804.4	703.2	24.72	252.3	1.841
Stddev	38.	1.9	13.9	.45	1.0	.245
%RSD	1.261	.2399	1.969	1.811	.3898	13.29

#1	3011.	802.4	687.5	24.20	252.3	1.621
#2	3058.	806.2	708.4	24.96	251.3	1.799
#3	2983.	804.6	713.6	24.99	253.3	2.104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111474-C-1-E DU Acquired: 4/14/2016 1:08:33 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.567	-2.266	42.24	222.7	13.80	2.288
Stddev	1.957	1.444	.71	1.4	.23	.263
%RSD	42.85	63.74	1.680	.6163	1.684	11.51
#1	4.357	-2.944	41.69	221.1	13.54	2.576
#2	6.620	-.6073	43.04	223.3	13.99	2.227
#3	2.723	-3.246	41.99	223.7	13.88	2.060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.34	40.70	291.5	680.6
Stddev	.37	.68	.9	24.4
%RSD	3.612	1.667	.2993	3.579
#1	10.36	39.93	290.9	652.4
#2	10.71	41.22	291.1	694.7
#3	9.962	40.94	292.5	694.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3182.7	39699.	5729.7
Stddev	18.9	331.	21.0
%RSD	.59237	.83350	.36577
#1	3161.9	39421.	5713.0
#2	3198.8	39611.	5723.0
#3	3187.4	40065.	5753.2

Sample Name: pds 460-110252-G-2-A Acquired: 4/13/2016 22:13:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2302.	1846.	45.70	2042.	48.05	35250.
Stddev	17.	5.	.31	4.	.21	205.
%RSD	.7228	.2858	.6682	.1715	.4443	.5827
#1	2291.	1842.	45.53	2039.	47.80	35270.
#2	2294.	1845.	46.05	2041.	48.13	35440.
#3	2321.	1852.	45.51	2046.	48.21	35030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.53	484.1	210.3	251.1	1054.	21540.
Stddev	.33	.9	1.4	.7	9.	90.
%RSD	.6787	.1775	.6715	.2879	.8441	.4188
#1	48.44	483.6	211.8	251.7	1045.	21480.
#2	48.25	483.5	210.2	250.3	1063.	21490.
#3	48.89	485.1	209.0	251.4	1056.	21640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20320.	764.0	38750.	507.3	474.3	446.9
Stddev	59.	1.9	191.	1.2	2.5	4.3
%RSD	.2923	.2429	.4921	.2275	.5209	.9723
#1	20290.	764.7	38570.	506.6	473.5	442.4
#2	20390.	765.5	38730.	506.6	477.0	447.2
#3	20280.	761.9	38950.	508.6	472.3	451.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110252-G-2-A Acquired: 4/13/2016 22:13:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1792.	2025.	491.0	517.5	504.4	481.5
Stddev	17.	8.	1.5	1.0	3.5	3.7
%RSD	.9589	.4098	.3108	.1995	.6930	.7701
#1	1777.	2024.	489.6	517.5	500.6	477.6
#2	1790.	2017.	492.6	516.4	505.1	481.9
#3	1811.	2033.	490.8	518.5	507.5	485.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	494.7	515.1	476.2	5703.
Stddev	2.0	3.1	1.2	85.
%RSD	.4123	.6022	.2610	1.483
#1	492.4	513.4	476.0	5688.
#2	495.4	513.2	475.1	5626.
#3	496.3	518.6	477.6	5794.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3258.1	40379.	6005.2
Stddev	25.0	376.	74.7
%RSD	.76853	.93235	1.2441
#1	3231.5	40316.	6024.7
#2	3281.2	40038.	5922.7
#3	3261.6	40783.	6068.3

Sample Name: 460-110049-D-12-A Acquired: 4/13/2016 22:17:19 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86.74	-2.892	.2552	21.64	.0182	8990.
Stddev	16.55	1.340	.4464	.12	.0385	66.
%RSD	19.08	46.33	174.9	.5681	211.4	.7330

#1	70.63	-3.882	.5925	21.57	.0531	8928.
#2	103.7	-3.427	.4240	21.57	-.0231	9059.
#3	85.88	-1.368	-.2510	21.78	.0247	8982.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1159	4.794	48.61	7.486	423.2	4684.
Stddev	.0856	.090	1.31	.233	15.1	43.
%RSD	73.89	1.889	2.694	3.107	3.565	.9197

#1	-.2124	4.708	48.73	7.748	436.6	4634.
#2	-.0490	4.888	47.24	7.302	406.9	4708.
#3	-.0863	4.786	49.85	7.409	426.3	4710.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2769.	264.5	21410.	87.23	-3.466	.8261
Stddev	12.	1.0	7.	.45	.469	1.341
%RSD	.4298	.3763	.0318	.5162	13.54	162.3

#1	2755.	263.5	21400.	87.43	-3.997	.3214
#2	2776.	264.4	21410.	87.55	-3.108	-.1893
#3	2777.	265.5	21420.	86.72	-3.292	2.346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110049-D-12-A Acquired: 4/13/2016 22:17:19 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.563	-.6530	-.0675	10.51	32.75	8.197
Stddev	1.459	.6615	.2467	.10	.57	.136
%RSD	93.32	101.3	365.3	.9920	1.744	1.663
#1	-1.750	-1.384	.2099	10.40	32.56	8.229
#2	-.0202	-.4809	-.1506	10.53	32.31	8.047
#3	-2.921	-.0946	-.2619	10.61	33.40	8.314

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6145	69.21	3.600	6225.
Stddev	.3302	.36	.687	65.
%RSD	53.73	.5168	19.08	1.042
#1	.9951	68.96	3.007	6151.
#2	.4051	69.06	4.353	6273.
#3	.4433	69.62	3.439	6249.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3186.9	39875.	5929.2
Stddev	10.9	154.	42.8
%RSD	.34092	.38519	.72203
#1	3181.2	40044.	5881.4
#2	3199.4	39835.	5964.0
#3	3180.0	39745.	5942.2

Sample Name: CCV Acquired: 4/14/2016 1:27:50 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128900.	2537.	1304.	10450.	1032.	130400.
Stddev	637.	16.	7.	69.	4.	654.
%RSD	.4946	.6124	.5653	.6610	.3575	.5015

#1	128200.	2554.	1308.	10520.	1028.	130800.
#2	129500.	2529.	1309.	10450.	1035.	130800.
#3	128900.	2527.	1296.	10380.	1034.	129700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1285.	2602.	5176.	13020.	104500.	51660.
Stddev	9.	18.	25.	77.	683.	318.
%RSD	.7253	.6778	.4843	.5924	.6535	.6161

#1	1294.	2620.	5203.	13090.	105300.	51380.
#2	1286.	2602.	5170.	13030.	104200.	52010.
#3	1275.	2584.	5154.	12940.	104000.	51580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	131400.	5292.	129900.	2587.	7831.	1018.
Stddev	642.	29.	893.	18.	57.	5.
%RSD	.4886	.5497	.6875	.7028	.7234	.4986

#1	131900.	5316.	129100.	2605.	7888.	1023.
#2	131700.	5300.	130800.	2588.	7830.	1015.
#3	130700.	5259.	129700.	2568.	7775.	1015.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/14/2016 1:27:50 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2553.	2633.	2613.	2595.	1016.	2587.
Stddev	14.	30.	14.	17.	7.	14.
%RSD	.5452	1.138	.5226	.6451	.7089	.5595
#1	2567.	2664.	2626.	2611.	1023.	2602.
#2	2554.	2630.	2614.	2595.	1017.	2586.
#3	2539.	2604.	2599.	2578.	1009.	2573.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1032.	5251.	10490.	9905.
Stddev	9.	34.	59.	141.
%RSD	.8626	.6381	.5576	1.427
#1	1040.	5217.	10500.	9820.
#2	1034.	5284.	10550.	10070.
#3	1023.	5252.	10430.	9827.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2953.3	37061.	5590.0
Stddev	23.9	134.	51.6
%RSD	.80850	.36165	.92270
#1	2933.2	36928.	5531.4
#2	2947.0	37057.	5628.4
#3	2979.7	37196.	5610.2

Sample Name: CCVL Acquired: 4/14/2016 1:35:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.4	11.61	10.96	216.8	2.267	5349.
Stddev	11.0	1.41	.50	.5	.012	21.
%RSD	4.896	12.17	4.519	.2216	.5197	.3942

#1	211.8	11.49	10.69	217.2	2.272	5338.
#2	230.1	13.08	10.67	216.8	2.254	5374.
#3	231.4	10.27	11.54	216.3	2.276	5336.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.187	54.78	10.68	26.54	174.2	5106.
Stddev	.078	.15	.29	.45	4.3	40.
%RSD	1.865	.2681	2.681	1.693	2.494	.7918

#1	4.133	54.95	10.60	26.72	170.5	5115.
#2	4.277	54.70	10.45	26.02	179.0	5061.
#3	4.152	54.68	11.00	26.86	173.2	5140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5188.	17.04	5174.	44.30	12.49	20.43
Stddev	19.	.13	11.	.31	1.59	.32
%RSD	.3581	.7652	.2180	.7069	12.73	1.557

#1	5167.	16.92	5186.	44.66	11.11	20.07
#2	5193.	17.18	5172.	44.14	12.12	20.65
#3	5203.	17.02	5163.	44.10	14.23	20.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/14/2016 1:35:38 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.19	21.86	53.61	33.00	50.48	20.46
Stddev	1.41	2.32	.29	.08	.57	.13
%RSD	7.724	10.61	.5424	.2340	1.139	.6305

#1	16.93	20.97	53.30	33.02	51.12	20.35
#2	19.70	24.49	53.64	33.07	50.28	20.42
#3	17.93	20.11	53.88	32.92	50.02	20.60

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.28	21.82	21.77	F 16.13
Stddev	1.45	.26	.16	2.47
%RSD	2.782	1.200	.7222	15.33

#1	50.61	22.12	21.65	13.50
#2	53.18	21.62	21.72	18.41
#3	53.07	21.72	21.95	16.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3101.7	38434.	5494.9
Stddev	6.4	176.	21.2
%RSD	.20727	.45749	.38506

#1	3106.5	38574.	5476.5
#2	3104.2	38236.	5490.3
#3	3094.4	38491.	5518.0

Sample Name: 460-111474-C-2-D@4 Acquired: 4/14/2016 1:39:32 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6571.	24.56	.6935	139.5	.6751	1252.
Stddev	26.	1.37	.5090	.4	.0520	16.
%RSD	.3940	5.566	73.39	.3058	7.695	1.287

#1	6547.	25.93	1.177	140.0	.7348	1236.
#2	6598.	23.19	.1621	139.2	.6502	1251.
#3	6568.	24.57	.7419	139.4	.6403	1268.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6260	11.18	27.31	19.02	41490.	1251.
Stddev	.1561	.22	.31	.19	225.	20.
%RSD	24.94	1.998	1.140	.9844	.5424	1.575

#1	-.5729	10.97	26.96	18.85	41230.	1269.
#2	-.8018	11.41	27.39	19.00	41620.	1230.
#3	-.5034	11.14	27.57	19.22	41630.	1252.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2811.	818.7	631.0	19.01	155.4	.4580
Stddev	25.	4.5	4.3	.29	.8	.7153
%RSD	.8737	.5532	.6889	1.523	.4894	156.2

#1	2783.	814.3	627.0	19.28	155.0	1.223
#2	2828.	818.6	630.3	19.05	156.2	.3462
#3	2822.	823.3	635.6	18.71	154.9	-.1948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111474-C-2-D@4 Acquired: 4/14/2016 1:39:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.336	-.9680	40.56	205.3	5.593	1.276
Stddev	1.571	1.887	.63	1.0	.901	.209
%RSD	47.10	194.9	1.554	.4896	16.10	16.36
#1	2.095	-3.133	39.85	205.0	6.528	1.035
#2	5.102	.3240	41.05	204.4	5.518	1.402
#3	2.809	-.0950	40.80	206.4	4.732	1.391

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	98.72	23.79	227.0	676.1
Stddev	.34	.34	2.5	2.4
%RSD	.3471	1.420	1.085	.3483
#1	99.04	23.45	226.8	676.8
#2	98.75	23.80	224.7	673.5
#3	98.36	24.13	229.6	678.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3105.9	38723.	5566.6
Stddev	12.6	17.	43.0
%RSD	.40643	.04457	.77180
#1	3093.3	38716.	5537.0
#2	3105.8	38742.	5546.9
#3	3118.6	38710.	5615.8

Sample Name: 460-110491-A-18-A@10 Acquired: 4/14/2016 1:43:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11230.	73.53	.1635	77.98	1.358	1733.
Stddev	508.	3.84	.1373	3.57	.042	85.
%RSD	4.524	5.224	83.94	4.574	3.062	4.905
#1	10790.	72.42	.2659	74.55	1.360	1655.
#2	11120.	70.37	.2171	77.72	1.316	1721.
#3	11780.	77.81	.0076	81.67	1.399	1824.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8774	22.87	35.78	17.86	67320.	2590.
Stddev	.1349	1.21	1.77	.91	2926.	114.
%RSD	15.38	5.314	4.937	5.118	4.346	4.403
#1	-.9560	21.53	34.21	17.05	64580.	2470.
#2	-.9547	23.17	35.43	17.68	66970.	2602.
#3	-.7217	23.90	37.69	18.85	70400.	2697.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4816.	204.3	115.8	38.99	22.71	1.144
Stddev	237.	9.9	.9	2.16	2.76	.502
%RSD	4.914	4.845	.7915	5.551	12.14	43.89
#1	4617.	195.8	115.3	36.78	21.92	1.347
#2	4753.	201.9	115.2	39.08	25.77	1.512
#3	5078.	215.2	116.8	41.11	20.43	.5719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110491-A-18-A@10 Acquired: 4/14/2016 1:43:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.116	-2.029	96.25	101.8	13.01	.7571
Stddev	3.383	1.320	4.81	5.3	1.01	.1194
%RSD	108.6	65.08	5.000	5.233	7.749	15.77
#1	.5532	-2.590	92.27	96.89	12.23	.6200
#2	1.845	-.5206	94.88	101.0	12.65	.8129
#3	6.950	-2.976	101.6	107.5	14.15	.8383

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7651	19.74	264.8	500.9
Stddev	.6991	.84	12.0	20.3
%RSD	91.37	4.241	4.549	4.044
#1	1.515	19.13	253.4	477.7
#2	.6478	19.39	263.6	510.1
#3	.1321	20.70	277.4	515.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3247.8	40658.	5983.1
Stddev	5.3	165.	24.9
%RSD	.16228	.40608	.41663
#1	3250.5	40624.	5979.0
#2	3251.2	40837.	6009.8
#3	3241.7	40512.	5960.4

Sample Name: 460-110491-A-26-A@10 Acquired: 4/14/2016 1:47:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15060.	73.42	-1.1489	107.0	1.702	4178.
Stddev	116.	2.74	.2462	.3	.057	18.
%RSD	.7693	3.735	165.3	.2665	3.336	.4258
#1	15000.	70.61	.1322	106.8	1.747	4195.
#2	15200.	73.56	-.3260	106.8	1.721	4180.
#3	14990.	76.08	-.2530	107.3	1.639	4159.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.523	20.04	81.08	14.58	155500.	4762.
Stddev	.025	.45	.28	.48	287.	49.
%RSD	.9924	2.229	.3430	3.294	.1843	1.021
#1	-2.549	20.16	81.40	14.46	155900.	4749.
#2	-2.499	19.54	80.91	15.11	155400.	4816.
#3	-2.520	20.41	80.93	14.17	155400.	4721.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4618.	3219.	30.16	66.57	45.66	1.976
Stddev	39.	6.	7.96	.80	1.01	1.110
%RSD	.8418	.2005	26.40	1.207	2.205	56.15
#1	4627.	3226.	39.15	65.77	44.56	1.183
#2	4651.	3213.	24.00	66.57	46.53	3.244
#3	4575.	3220.	27.33	67.38	45.90	1.501

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110491-A-26-A@10 Acquired: 4/14/2016 1:47:12 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.34	-1.590	216.9	140.9	13.82	.9596
Stddev	3.67	1.154	2.0	.7	.39	.1796
%RSD	32.40	72.59	.9116	.4764	2.806	18.72
#1	12.08	-.2891	216.3	140.1	14.11	1.087
#2	14.58	-2.491	219.2	141.3	13.96	.7542
#3	7.349	-1.989	215.4	141.3	13.38	1.038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3357	30.36	118.9	796.9
Stddev	1.214	.12	.9	23.0
%RSD	361.6	.3923	.7271	2.888
#1	-1.051	30.33	118.6	785.7
#2	.8485	30.49	119.8	781.7
#3	1.209	30.26	118.2	823.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3221.2	40192.	5894.0
Stddev	17.3	194.	93.8
%RSD	.53673	.48312	1.5913
#1	3204.8	39972.	5864.7
#2	3239.3	40262.	5818.3
#3	3219.4	40341.	5998.9

Sample Name: 460-110491-A-33-A@10 Acquired: 4/14/2016 1:54:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13360.	35.20	.1100	43.44	.8514	1424.
Stddev	358.	1.60	.2411	.86	.0302	43.
%RSD	2.681	4.530	219.2	1.970	3.542	3.037
#1	13070.	35.67	.0665	42.62	.8175	1381.
#2	13260.	33.42	.3698	43.37	.8753	1423.
#3	13760.	36.50	-.1064	44.33	.8613	1468.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7941	2.708	51.92	13.71	44940.	4634.
Stddev	.0528	.089	.98	.56	1285.	95.
%RSD	6.643	3.280	1.878	4.101	2.859	2.041
#1	-.7710	2.722	50.88	13.35	43670.	4551.
#2	-.7568	2.614	52.08	13.43	44910.	4614.
#3	-.8545	2.790	52.81	14.36	46240.	4737.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2598.	35.04	54.91	7.130	13.50	1.404
Stddev	78.	1.00	4.29	.231	1.49	1.996
%RSD	3.018	2.845	7.813	3.239	11.04	142.2
#1	2529.	34.30	50.78	6.899	11.89	3.314
#2	2583.	34.65	54.62	7.129	13.77	1.564
#3	2683.	36.17	59.34	7.361	14.83	-.6681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110491-A-33-A@10 Acquired: 4/14/2016 1:54:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4906	-2.156	143.1	29.43	18.72	-.0194
Stddev	.8577	1.368	4.3	.87	.67	.4122
%RSD	174.8	63.44	3.019	2.953	3.571	2121.
#1	-.4037	-3.378	139.5	28.63	19.46	-.4754
#2	.5693	-2.410	142.0	29.31	18.16	.0901
#3	1.306	-.6788	147.9	30.35	18.55	.3269

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8169	11.27	104.0	744.9
Stddev	.0514	.21	2.7	15.0
%RSD	6.292	1.821	2.643	2.011
#1	.7685	11.05	101.8	736.5
#2	.8114	11.31	103.2	736.0
#3	.8708	11.46	107.1	762.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3236.5	40404.	5968.3
Stddev	12.7	148.	28.1
%RSD	.39209	.36740	.47040
#1	3221.8	40288.	5978.0
#2	3243.4	40571.	5990.2
#3	3244.2	40353.	5936.6

Sample Name: 460-110491-A-36-A@4 Acquired: 4/14/2016 1:58:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28760.	51.63	-3534	98.53	2.346	1609.
Stddev	73.	1.27	.0905	.69	.118	3.
%RSD	.2552	2.451	25.61	.7029	5.030	.1689

#1	28840.	50.17	-.2843	97.96	2.242	1612.
#2	28710.	52.28	-.4559	98.33	2.474	1607.
#3	28730.	52.43	-.3201	99.30	2.323	1608.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.182	6.075	118.8	58.68	113800.	5862.
Stddev	.127	.157	.5	.27	255.	38.
%RSD	5.839	2.584	.3810	.4580	.2242	.6483

#1	-2.260	6.241	118.6	58.75	113700.	5820.
#2	-2.035	5.929	118.6	58.39	113600.	5894.
#3	-2.250	6.054	119.4	58.92	114100.	5873.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3770.	155.4	142.8	24.37	57.72	1.249
Stddev	11.	.7	6.4	.49	1.74	.806
%RSD	.2954	.4624	4.497	2.029	3.021	64.53

#1	3763.	154.7	143.5	23.80	59.72	1.763
#2	3783.	156.1	148.9	24.59	56.53	.3201
#3	3764.	155.3	136.1	24.71	56.91	1.663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110491-A-36-A@4 Acquired: 4/14/2016 1:58:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.306	-3.182	173.2	78.16	9.096	1.333
Stddev	3.061	.927	.8	.74	.408	.164
%RSD	41.90	29.13	.4649	.9414	4.481	12.32
#1	10.82	-2.389	172.3	77.31	8.658	1.510
#2	5.255	-2.957	173.8	78.49	9.168	1.186
#3	5.838	-4.201	173.5	78.67	9.464	1.302

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.493	23.95	355.5	1940.
Stddev	.131	.14	.3	29.
%RSD	5.251	.5983	.0943	1.515
#1	2.600	23.92	355.9	1906.
#2	2.347	24.10	355.4	1961.
#3	2.531	23.82	355.3	1952.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3293.0	40872.	5945.6
Stddev	8.5	189.	31.5
%RSD	.25773	.46242	.52967
#1	3300.7	40653.	5909.6
#2	3294.3	40984.	5958.8
#3	3283.9	40978.	5968.3

Sample Name: 460-111853-A-2-A@4 Acquired: 4/14/2016 2:06:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20940.	10.35	.1465	180.4	.8743	61290.
Stddev	7.	1.67	.4926	.6	.0664	97.
%RSD	.0345	16.10	336.2	.3347	7.597	.1584

#1	20940.	12.17	-.0869	179.9	.9385	61390.
#2	20940.	10.01	.7124	180.2	.8787	61260.
#3	20930.	8.886	-.1859	181.1	.8058	61200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0067	13.68	42.20	78.73	38150.	4432.
Stddev	.1157	.21	.49	.93	53.	11.
%RSD	1739.	1.534	1.161	1.178	.1395	.2396

#1	-.1246	13.58	42.63	77.77	38160.	4440.
#2	.0937	13.54	42.31	78.81	38200.	4437.
#3	.0508	13.92	41.67	79.62	38090.	4420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22040.	668.8	546.5	44.96	176.2	.7199
Stddev	34.	.3	6.1	.26	1.4	.2440
%RSD	.1547	.0488	1.122	.5694	.8047	33.90

#1	22010.	669.1	541.4	45.22	174.6	.8614
#2	22040.	668.4	553.3	44.96	177.2	.4381
#3	22070.	668.8	544.7	44.71	176.7	.8602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111853-A-2-A@4 Acquired: 4/14/2016 2:06:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.767	-8651	71.77	252.1	18.44	1.380
Stddev	1.631	.7432	.51	2.3	.78	.165
%RSD	58.96	85.91	.7050	.9301	4.209	11.92
#1	2.513	-.1228	71.20	249.8	17.55	1.322
#2	1.277	-.8634	72.16	251.9	18.90	1.253
#3	4.510	-1.609	71.95	254.5	18.89	1.566

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.417	133.0	861.9	1182.
Stddev	.679	1.2	1.0	15.
%RSD	12.54	.8780	.1121	1.231
#1	6.174	134.0	860.8	1180.
#2	4.860	133.3	862.2	1168.
#3	5.217	131.7	862.6	1197.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3176.4	39670.	5948.3
Stddev	15.5	356.	45.3
%RSD	.48876	.89818	.76088
#1	3158.5	39301.	5897.0
#2	3185.4	39698.	5965.4
#3	3185.4	40012.	5982.5

Sample Name: CCV Acquired: 4/14/2016 2:14:03 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125800.	2482.	1263.	10340.	1016.	129500.
Stddev	376.	6.	6.	16.	6.	330.
%RSD	.2992	.2485	.4377	.1563	.5615	.2549

#1	126200.	2488.	1268.	10350.	1022.	129900.
#2	125500.	2476.	1258.	10340.	1012.	129300.
#3	125600.	2482.	1262.	10320.	1013.	129400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1270.	2549.	5194.	12670.	102900.	50600.
Stddev	3.	3.	20.	72.	611.	24.
%RSD	.2126	.1070	.3926	.5650	.5935	.0473

#1	1273.	2548.	5216.	12740.	103500.	50630.
#2	1269.	2548.	5176.	12600.	102700.	50590.
#3	1268.	2552.	5189.	12670.	102400.	50580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127100.	5224.	125400.	2562.	7587.	988.2
Stddev	483.	18.	138.	7.	6.	4.0
%RSD	.3800	.3523	.1096	.2600	.0847	.4056

#1	127600.	5245.	125500.	2570.	7581.	990.3
#2	126700.	5210.	125300.	2561.	7587.	990.7
#3	126900.	5216.	125500.	2557.	7594.	983.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/14/2016 2:14:03 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2426.	2571.	2577.	2556.	998.8	2554.
Stddev	9.	11.	13.	5.	1.2	2.
%RSD	.3724	.4215	.4979	.2082	.1227	.0674

#1	2430.	2563.	2591.	2561.	999.3	2556.
#2	2416.	2566.	2566.	2555.	997.4	2554.
#3	2433.	2583.	2572.	2550.	999.7	2552.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1021.	5141.	10310.	9551.
Stddev	2.	19.	52.	29.
%RSD	.1960	.3707	.5008	.3050

#1	1022.	5163.	10370.	9584.
#2	1023.	5127.	10270.	9532.
#3	1019.	5134.	10280.	9535.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2979.3	37284.	5547.2
Stddev	6.2	109.	26.5
%RSD	.20814	.29304	.47715

#1	2984.8	37410.	5576.6
#2	2980.5	37227.	5539.7
#3	2972.6	37216.	5525.3

Sample Name: 460-110252-G-1-A Acquired: 4/13/2016 22:21:36 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3403.	-.5834	.5690	49.54	.1246	31040.
Stddev	15.	1.071	.4360	.31	.0655	63.
%RSD	.4374	183.5	76.63	.6315	52.58	.2031
#1	3400.	-.3327	1.038	49.56	.1910	31110.
#2	3390.	.3397	.1764	49.84	.1229	31040.
#3	3420.	-1.757	.4924	49.21	.0600	30980.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0748	1.662	10.19	7.110	5179.	3055.
Stddev	.0197	.076	.33	.293	23.	36.
%RSD	26.28	4.560	3.212	4.122	.4350	1.177
#1	-.0538	1.750	10.46	7.032	5153.	3013.
#2	-.0777	1.617	9.823	6.864	5191.	3079.
#3	-.0928	1.620	10.28	7.435	5193.	3071.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4890.	179.2	40570.	5.869	-.6461	.9362
Stddev	9.	.3	95.	.294	1.970	.2125
%RSD	.1890	.1786	.2346	5.014	304.9	22.70
#1	4888.	179.0	40670.	6.079	.5353	1.179
#2	4882.	179.0	40480.	5.995	.4469	.8454
#3	4900.	179.5	40570.	5.533	-2.921	.7842

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110252-G-1-A Acquired: 4/13/2016 22:21:36 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4444	.3072	4.935	89.69	38.91	.0560
Stddev	4.330	1.439	.249	.34	.46	.0967
%RSD	974.2	468.4	5.044	.3767	1.177	172.5
#1	2.426	-.0138	4.659	89.50	39.43	.1298
#2	1.666	-.9440	5.002	90.08	38.56	.0917
#3	-5.424	1.879	5.144	89.49	38.74	-.0534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.630	141.9	125.5	5839.
Stddev	.338	.5	.7	23.
%RSD	12.85	.3438	.5819	.3969
#1	2.825	142.0	125.0	5821.
#2	2.239	141.4	126.4	5865.
#3	2.824	142.4	125.3	5831.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3217.2	39876.	5927.2
Stddev	10.9	157.	21.0
%RSD	.33992	.39248	.35431
#1	3210.9	39698.	5911.5
#2	3210.9	39993.	5951.1
#3	3229.8	39936.	5919.2

Sample Name: CCVL Acquired: 4/14/2016 2:21:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.6	13.22	10.42	215.9	2.041	5233.
Stddev	3.1	2.37	.73	1.3	.072	38.
%RSD	1.490	17.90	7.028	.6161	3.546	.7247

#1	206.5	10.51	10.27	215.5	2.099	5229.
#2	205.2	14.29	11.22	217.3	1.960	5272.
#3	211.1	14.87	9.780	214.8	2.064	5197.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.159	54.41	10.08	25.41	162.2	4940.
Stddev	.092	.49	.38	.20	2.4	25.
%RSD	2.218	.9085	3.753	.7776	1.473	.4984

#1	4.265	54.74	10.03	25.63	160.2	4944.
#2	4.107	54.64	10.49	25.35	164.9	4963.
#3	4.104	53.84	9.734	25.24	161.5	4914.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4964.	16.60	4951.	44.02	11.15	20.05
Stddev	31.	.19	5.	.19	.52	1.22
%RSD	.6157	1.126	.1038	.4376	4.651	6.071

#1	4972.	16.45	4954.	44.00	11.73	19.97
#2	4989.	16.81	4945.	44.22	10.98	18.88
#3	4930.	16.54	4954.	43.83	10.74	21.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/14/2016 2:21:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.41	22.51	51.97	32.37	49.42	20.36
Stddev	3.13	.41	.32	.39	.71	.16
%RSD	18.01	1.808	.6119	1.195	1.440	.8059

#1	19.81	22.06	51.73	32.45	49.39	20.24
#2	13.86	22.86	52.33	32.70	50.15	20.55
#3	18.55	22.62	51.83	31.94	48.73	20.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.66	21.36	21.19	F 8.131
Stddev	.49	.21	.34	22.95
%RSD	.9548	.9936	1.585	282.3

#1	52.19	21.12	20.83	33.03
#2	51.57	21.51	21.50	3.551
#3	51.22	21.46	21.24	-12.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3195.6	39740.	5806.8
Stddev	7.2	203.	41.4
%RSD	.22475	.51197	.71257

#1	3203.7	39514.	5763.7
#2	3189.9	39797.	5846.2
#3	3193.3	39908.	5810.5

Sample Name: 460-110252-G-4-A Acquired: 4/13/2016 22:30:05 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	138.8	.1190	.0626	40.07	.0153	61860.
Stddev	10.4	1.942	.2582	.12	.0250	333.
%RSD	7.506	1632.	412.4	.2907	163.2	.5388
#1	149.9	-1.889	-.0435	39.94	.0262	61500.
#2	137.1	1.988	.3569	40.11	-.0133	61940.
#3	129.3	.2574	-.1256	40.17	.0331	62150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3998	.2968	-.0136	.6444	7091.	2099.
Stddev	.0617	.1325	.3859	.3371	37.	21.
%RSD	15.43	44.66	2827.	52.31	.5177	1.024
#1	-.3935	.1562	.4313	.5952	7053.	2074.
#2	-.4644	.4195	-.2143	1.003	7095.	2112.
#3	-.3415	.3146	-.2579	.3346	7126.	2110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18990.	456.7	202000.	.7927	-.5290	.8702
Stddev	58.	1.7	3053.	.0893	1.175	.5233
%RSD	.3033	.3664	1.511	11.27	222.2	60.13
#1	18920.	455.0	199200.	.7058	.6349	1.472
#2	19020.	456.6	205200.	.8842	-.5067	.5208
#3	19020.	458.4	201700.	.7880	-1.715	.6180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-4-A Acquired: 4/13/2016 22:30:05 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.410	-.0126	-.0626	4.940	21.62	-.1409
Stddev	2.539	1.424	.4318	.165	.46	.1025
%RSD	74.47	11310.	689.6	3.336	2.131	72.76
#1	-6.331	-.6767	-.5484	4.749	21.48	-.1134
#2	-2.169	-.9830	.2776	5.035	21.25	-.2544
#3	-1.730	1.622	.0829	5.035	22.14	-.0550

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.6089	222.0	3.807	2969.
Stddev	.6637	1.4	.095	21.
%RSD	109.0	.6290	2.496	.7215
#1	-.9364	220.6	3.753	2993.
#2	-1.045	223.4	3.917	2959.
#3	.1550	222.1	3.751	2954.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3027.4	37830.	5684.4
Stddev	4.8	196.	90.6
%RSD	.15849	.51829	1.5939
#1	3032.7	38045.	5787.2
#2	3026.3	37782.	5616.2
#3	3023.3	37662.	5649.8

Sample Name: 460-110252-G-6-A Acquired: 4/13/2016 22:38:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	146.5	-4.993	.4279	101.8	.3037	13190.
Stddev	5.4	.202	.1510	.0	.0754	2.
%RSD	3.705	4.054	35.28	.0318	24.82	.0182
#1	144.8	-4.871	.4728	101.8	.3143	13190.
#2	152.6	-5.227	.2596	101.8	.2236	13190.
#3	142.2	-4.882	.5513	101.7	.3732	13190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1059	.2137	1.638	1.028	43.04	4172.
Stddev	.0939	.1438	.191	.518	15.01	35.
%RSD	88.67	67.29	11.68	50.34	34.88	.8467
#1	-.0032	.2195	1.420	1.279	58.02	4133.
#2	-.1874	.3545	1.776	1.372	28.00	4201.
#3	-.1272	.0671	1.718	.4329	43.10	4181.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2557.	682.7	50070.	1.622	-1.039	1.019
Stddev	21.	.8	90.	.906	1.167	.920
%RSD	.8378	.1142	.1801	55.85	112.3	90.29
#1	2552.	681.8	49970.	2.425	.0349	.1137
#2	2580.	683.3	50100.	.6402	-2.280	.9901
#3	2538.	682.9	50150.	1.800	-.8709	1.953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110252-G-6-A Acquired: 4/13/2016 22:38:50 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.496	-.3257	.3383	15.03	24.01	-.5343
Stddev	3.969	2.269	.1349	.18	.16	.1487
%RSD	265.3	696.7	39.88	1.181	.6755	27.84
#1	-2.577	-1.235	.4084	14.84	24.19	-.4030
#2	2.902	-1.999	.1828	15.07	23.96	-.6958
#3	-4.812	2.257	.4238	15.19	23.88	-.5040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0625	67.51	2.539	4565.
Stddev	.2280	.48	.106	54.
%RSD	364.7	.7047	4.165	1.179
#1	.2730	67.58	2.623	4559.
#2	.0942	67.95	2.574	4622.
#3	-.1796	67.01	2.420	4514.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3100.5	38077.	5561.0
Stddev	3.1	151.	27.6
%RSD	.09955	.39712	.49595
#1	3098.4	38188.	5572.8
#2	3099.1	38138.	5580.6
#3	3104.0	37905.	5529.4

Sample Name: CCB Acquired: 4/13/2016 22:51:23 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.752	-1.155	.2640	.8136	.0215	-2.941
Stddev	6.653	1.108	.3592	1.101	.0397	2.740
%RSD	177.3	95.95	136.0	135.3	184.3	93.17

#1	-4.669	-8652	.0284	.3413	-.0202	-5.892
#2	3.313	-.2201	.0863	2.071	.0587	-.4762
#3	-9.899	-2.378	.6775	.0280	.0261	-2.456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0454	.2340	.0065	.3223	5.340	4.801
Stddev	.1143	.2773	.1070	.1063	13.94	19.85
%RSD	251.9	118.5	1657.	33.00	261.1	413.4

#1	-.0068	.1193	-.0766	.3935	-1.470	27.61
#2	.1765	.5502	-.0312	.3733	21.38	-4.711
#3	-.0335	.0325	.1272	.2000	-3.887	-8.500

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.404	.0804	9.097	-.0030	-.8641	1.206
Stddev	4.408	.0768	8.931	.6927	1.234	.673
%RSD	129.5	95.48	98.18	23450.	142.8	55.81

#1	7.395	.1682	19.41	-.6042	-.7585	1.787
#2	4.145	.0255	3.831	.7545	.3136	.4684
#3	-1.327	.0477	4.050	-.1591	-2.147	1.362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 22:51:23 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.646	.0627	-.1727	-.0469	-.0478	.5063
Stddev	3.128	1.180	.1569	.4237	.1173	.4596
%RSD	118.2	1881.	90.85	903.4	245.6	90.78
#1	-6.207	-1.298	-.2192	-.1379	-.1094	.8436
#2	-.3408	.8061	-.3012	.4149	.0875	.6924
#3	-1.391	.6797	.0022	-.4177	-.1214	-.0172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1958	.1164	.3322	6.769
Stddev	.4942	.0722	.0708	19.75
%RSD	252.3	62.07	21.32	291.8
#1	-.7391	.0771	.2756	-8.872
#2	.2270	.1997	.4117	.2142
#3	-.0754	.0723	.3094	28.97

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3192.8	39412.	5789.7
Stddev	20.0	272.	39.3
%RSD	.62605	.69111	.67914
#1	3169.8	39098.	5750.0
#2	3202.4	39572.	5828.7
#3	3206.2	39567.	5790.3

Sample Name: CCVL Acquired: 4/13/2016 22:55:44 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	212.3	13.74	10.67	213.9	1.958	5252.
Stddev	2.3	2.96	.12	.5	.062	12.
%RSD	1.070	21.53	1.136	.2234	3.151	.2283

#1	214.7	10.42	10.71	213.3	2.029	5264.
#2	210.2	16.11	10.54	214.2	1.920	5240.
#3	212.0	14.69	10.77	214.1	1.924	5250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.208	54.16	10.46	25.91	170.1	4965.
Stddev	.091	.06	.24	.29	4.6	32.
%RSD	2.168	.1158	2.290	1.126	2.681	.6348

#1	4.176	54.22	10.20	26.03	175.4	4975.
#2	4.311	54.09	10.67	25.57	167.2	4990.
#3	4.137	54.16	10.52	26.12	167.8	4930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5031.	16.62	5007.	43.81	10.85	19.17
Stddev	16.	.06	36.	.51	.89	1.13
%RSD	.3139	.3751	.7233	1.168	8.177	5.907

#1	5049.	16.64	5037.	43.36	11.38	17.86
#2	5025.	16.55	5018.	44.37	11.33	19.78
#3	5019.	16.67	4967.	43.72	9.822	19.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 22:55:44 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.72	23.32	52.39	32.46	49.50	20.00
Stddev	1.55	.89	.47	.17	.23	.38
%RSD	8.268	3.813	.8965	.5100	.4563	1.913
#1	19.21	24.06	52.82	32.28	49.24	19.57
#2	19.97	22.33	51.89	32.50	49.58	20.16
#3	16.99	23.56	52.45	32.60	49.66	20.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.35	21.48	21.18	F .8843
Stddev	.16	.16	.12	5.264
%RSD	.3103	.7233	.5697	595.2
#1	51.53	21.59	21.10	-5.162
#2	51.27	21.55	21.11	3.372
#3	51.24	21.30	21.32	4.444

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3173.7	39283.	5744.6
Stddev	6.7	201.	45.3
%RSD	.21122	.51178	.78874
#1	3166.1	39062.	5741.2
#2	3178.7	39333.	5701.1
#3	3176.2	39455.	5791.5

Sample Name: MB 460-362290/1-A Acquired: 4/13/2016 23:00:00 Type: QC

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.971	-.3146	.4573	.1005	-.0438	1.791
Stddev	6.821	.7550	.2681	.0155	.0243	4.759
%RSD	229.5	240.0	58.63	15.45	55.45	265.8

#1	-1.703	.3840	.6203	.0839	-.0447	-3.626
#2	3.126	-1.116	.1479	.1027	-.0676	5.301
#3	-10.34	-.2123	.6036	.1147	-.0191	3.698

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0199	.0576	-.7090	.3693	-1.861	-9.347
Stddev	.0629	.1945	.1767	.1615	9.289	18.88
%RSD	315.9	337.8	24.92	43.73	499.3	202.0

#1	-.0529	-.0252	-.8723	.1979	7.351	-16.98
#2	.0527	-.0819	-.5214	.3913	-11.23	-23.22
#3	-.0595	.2798	-.7332	.5186	-1.708	12.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.316	-.0111	1.347	-.3092	-.3507	.4571
Stddev	3.556	.0237	8.288	.2456	1.789	1.370
%RSD	82.40	213.3	615.1	79.45	510.0	299.8

#1	3.731	-.0298	.4531	-.2284	-.7593	1.759
#2	8.129	-.0191	-6.457	-.5850	-1.900	.5857
#3	1.089	.0156	10.05	-.1141	1.607	-.9731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-362290/1-A Acquired: 4/13/2016 23:00:00 Type: QC

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.540	-.0398	-.2156	.3699	-.6202	-.4954
Stddev	1.199	.3810	.4755	.1995	.4371	.1211
%RSD	77.84	957.1	220.5	53.94	70.47	24.46
#1	-1.974	.2119	-.3591	.2442	-.8522	-.3853
#2	-.1848	.1468	-.6028	.6000	-.1161	-.4756
#3	-2.461	-.4781	.3151	.2656	-.8924	-.6252

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2159	.0090	-.1424	13.99
Stddev	.2251	.0959	.0621	5.73
%RSD	104.2	1060.	43.62	40.98
#1	.0389	-.0916	-.1891	19.14
#2	-.3878	.0192	-.1662	15.00
#3	-.2988	.0995	-.0719	7.816

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3181.1	39504.	5789.6
Stddev	13.3	168.	49.4
%RSD	.41870	.42576	.85353
#1	3175.0	39317.	5758.2
#2	3171.8	39551.	5764.0
#3	3196.3	39643.	5846.6

Sample Name: 460-111956-A-1-B@5 Acquired: 4/13/2016 23:12:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-110.9	1094.	-3.914	55.87	k -.0170	1613.
Stddev	20.2	3.	.485	.30	.0344	23.
%RSD	18.18	.3044	12.39	.5457	202.1	1.431

#1	-95.25	1097.	-3.376	55.53	k -.0510	1640.
#2	-133.7	1091.	-4.047	56.12	k .0178	1596.
#3	-103.8	1093.	-4.318	55.96	k -.0178	1604.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -.1312	27.53	k .1230	k 5.962	k 113.2	431.8
Stddev	.0578	.12	.2856	.244	9.4	29.7
%RSD	44.08	.4280	232.3	4.088	8.273	6.887

#1	k -.1814	27.39	k .0223	k 6.242	k 107.1	415.7
#2	k -.1441	27.59	k -.0986	k 5.797	k 124.0	413.6
#3	k -.0680	27.60	k .4453	k 5.847	k 108.6	466.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 544.6	k 5.365	F 298700.	287.5	k 16.04	k 419.7
Stddev	2.9	.073	1522.	.9	1.45	3.6
%RSD	.5301	1.370	.5094	.2993	9.049	.8497

#1	k 547.4	k 5.427	297200.	286.5	k 17.25	k 416.1
#2	k 541.6	k 5.284	300200.	287.9	k 14.43	k 419.8
#3	k 544.9	k 5.385	298700.	288.1	k 16.42	k 423.2

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111956-A-1-B@5 Acquired: 4/13/2016 23:12:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 7.289	k -1.103	k 125.8	k 11.77	k 18.23	k 7.657
Stddev	1.434	.459	1.4	.19	.14	.252
%RSD	19.67	41.59	1.079	1.605	.7879	3.285

#1	k 5.650	k -1.441	k 126.7	k 11.57	k 18.17	k 7.723
#2	k 8.312	k -1.287	k 124.3	k 11.80	k 18.12	k 7.869
#3	k 7.904	k -.5808	k 126.5	k 11.95	k 18.39	k 7.379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k -.0531	^ *****	k .8574	k 2808.
Stddev	.2018	----	.0973	25.
%RSD	380.2	----	11.35	.8931

#1	k .1780	^ ----	k .9619	k 2791.
#2	k -.1941	^ ----	k .7695	k 2797.
#3	k -.1431	^ ----	k .8409	k 2837.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3061.8	37170.	5517.5
Stddev	18.7	392.	94.4
%RSD	.61076	1.0547	1.7106

#1	3040.3	36744.	5492.9
#2	3073.8	37515.	5437.8
#3	3071.5	37252.	5621.7

Sample Name: 460-111956-A-1-C DU Acquired: 4/13/2016 23:08:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-100.4	1107.	-3.673	56.20	k .0778	1647.
Stddev	14.4	11.	.319	.23	.0560	10.
%RSD	14.37	.9997	8.691	.4144	72.00	.5885

#1	-99.02	1104.	-4.038	56.15	k .1096	1637.
#2	-86.72	1097.	-3.443	55.99	k .1106	1647.
#3	-115.5	1119.	-3.539	56.45	k .0131	1656.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k .0467	27.95	k -.3272	k 6.037	k 108.3	402.7
Stddev	.0711	.05	.2417	.119	11.1	17.4
%RSD	152.2	.1754	73.86	1.975	10.23	4.326

#1	k -.0033	27.90	k -.6056	k 6.147	k 114.1	387.5
#2	k .1280	27.94	k -.2050	k 5.910	k 95.48	398.7
#3	k .0153	28.00	k -.1710	k 6.054	k 115.2	421.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 549.3	k 5.531	F 298600.	289.9	k 15.97	k 422.7
Stddev	4.6	.101	4410.	1.7	1.16	1.7
%RSD	.8453	1.829	1.477	.5899	7.239	.3927

#1	k 545.6	k 5.448	301200.	288.9	k 17.25	k 421.2
#2	k 554.5	k 5.644	293500.	289.0	k 14.99	k 422.5
#3	k 547.8	k 5.501	301200.	291.9	k 15.67	k 424.5

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111956-A-1-C DU Acquired: 4/13/2016 23:08:21 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 9.059	k .0498	k 127.0	k 11.77	k 18.75	k 7.844
Stddev	1.248	.7927	.9	.10	.72	.269
%RSD	13.78	1591.	.6888	.8917	3.836	3.428
#1	k 7.708	k -.8264	k 126.2	k 11.89	k 19.41	k 7.895
#2	k 10.17	k .2586	k 127.0	k 11.72	k 18.85	k 7.554
#3	k 9.298	k .7173	k 127.9	k 11.69	k 17.99	k 8.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k .2842	^ *****	k .9413	k 2842.
Stddev	.1661	----	.0731	47.
%RSD	58.46	----	7.762	1.644
#1	k .4140	^ ----	k .8866	k 2836.
#2	k .0970	^ ----	k 1.024	k 2891.
#3	k .3415	^ ----	k .9131	k 2798.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3055.1	36956.	5614.8
Stddev	12.1	207.	92.9
%RSD	.39676	.55879	1.6541
#1	3060.2	37145.	5642.1
#2	3063.8	36987.	5691.0
#3	3041.3	36735.	5511.4

Sample Name: 460-111956-A-1-D MS Acquired: 4/13/2016 23:21:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	904.3	1982.	97.16	2043.	k 198.7	5567.
Stddev	21.7	21.	1.09	22.	2.5	71.
%RSD	2.396	1.045	1.119	1.059	1.240	1.270

#1	918.6	2005.	98.18	2068.	k 201.5	5648.
#2	914.9	1972.	97.27	2031.	k 198.0	5534.
#3	879.4	1967.	96.02	2030.	k 196.7	5518.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	204.6	234.1	1013.	k 210.3	k 305.2	k 4306.
Stddev	2.2	2.0	15.	2.8	13.6	47.
%RSD	1.091	.8699	1.464	1.347	4.460	1.092

#1	207.1	236.5	1030.	k 213.6	k 319.5	k 4361.
#2	203.3	232.8	1007.	k 208.9	k 303.5	k 4281.
#3	203.2	233.2	1002.	k 208.4	k 292.4	k 4277.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 4430.	223.8	F 287700.	478.6	k 1009.	k 585.3
Stddev	41.	2.4	568.	4.2	8.	7.7
%RSD	.9177	1.061	.1973	.8772	.7993	1.318

#1	k 4477.	226.6	287700.	483.4	k 1018.	k 594.1
#2	k 4409.	222.6	288300.	476.3	k 1002.	k 579.5
#3	k 4404.	222.4	287100.	476.0	k 1007.	k 582.5

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111956-A-1-D MS Acquired: 4/13/2016 23:21:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 215.5	k 204.8	k 227.5	k 225.3	k 224.0	k 210.7
Stddev	1.2	.4	2.3	1.5	2.1	1.8
%RSD	.5486	.1735	1.017	.6561	.9402	.8404
#1	k 215.6	k 204.7	k 230.1	k 227.0	k 226.3	k 212.7
#2	k 214.3	k 204.6	k 225.9	k 224.6	k 223.5	k 210.1
#3	k 216.7	k 205.2	k 226.4	k 224.3	k 222.2	k 209.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k 195.2	^ *****	k 214.7	k 2753.
Stddev	1.9	----	1.7	48.
%RSD	.9697	----	.7685	1.736
#1	k 197.0	^ ----	k 216.6	k 2807.
#2	k 193.3	^ ----	k 213.7	k 2738.
#3	k 195.4	^ ----	k 213.7	k 2715.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3070.2	37257.	5664.0
Stddev	27.1	368.	42.5
%RSD	.88116	.98649	.75103
#1	3039.2	36846.	5626.4
#2	3089.2	37553.	5655.4
#3	3082.2	37372.	5710.2

Sample Name: 460-111957-A-1-B@5 Acquired: 4/13/2016 23:29:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	259.7	232.0	-3159	36.50	.0385	1207.
Stddev	10.3	1.7	.1674	.20	.0351	4.
%RSD	3.950	.7326	52.97	.5556	91.31	.3163

#1	249.7	234.0	-.4006	36.43	.0494	1203.
#2	270.2	231.3	-.4241	36.73	-.0008	1211.
#3	259.2	230.8	-.1232	36.34	.0668	1206.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0627	18.75	-.0881	11.05	165.4	801.8
Stddev	.0910	.19	.2257	.28	12.3	34.5
%RSD	145.2	1.000	256.0	2.537	7.453	4.309

#1	-.1515	18.73	.0054	11.34	173.5	764.5
#2	.0303	18.94	.0757	11.01	171.5	832.6
#3	-.0667	18.57	-.3455	10.78	151.2	808.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2593.	7.024	F 289200.	144.2	6.738	390.4
Stddev	7.	.078	5887.	.8	.575	.9
%RSD	.2875	1.105	2.035	.5569	8.532	.2233

#1	2587.	7.095	289900.	143.3	6.865	391.4
#2	2601.	6.941	294800.	144.6	7.239	390.0
#3	2590.	7.038	283000.	144.7	6.110	389.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111957-A-1-B@5 Acquired: 4/13/2016 23:29:51 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.685	-9136	592.8	471.2	21.52	82.72
Stddev	2.600	.6456	2.8	.5	.38	.30
%RSD	154.3	70.67	.4772	.1153	1.750	.3583
#1	1.183	-1.452	590.7	470.7	21.95	82.95
#2	4.499	-1.091	591.6	471.2	21.39	82.39
#3	-.6267	-.1977	596.0	471.8	21.24	82.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6690	-31.17	11.74	4134.
Stddev	.8996	.40	.11	14.
%RSD	134.5	1.293	.9011	.3322
#1	1.314	-31.10	11.71	4139.
#2	1.051	-31.60	11.86	4119.
#3	-.3586	-30.81	11.66	4145.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3034.4	37533.	5568.5
Stddev	5.1	238.	47.8
%RSD	.16699	.63370	.85829
#1	3038.0	37662.	5590.5
#2	3036.5	37679.	5513.7
#3	3028.6	37259.	5601.3

Sample Name: 460-111960-B-1-C@5 Acquired: 4/13/2016 23:38:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	225.3	-7.028	.4620	132.2	-.0606	135000.
Stddev	11.3	1.474	.4589	.6	.0452	28.
%RSD	5.036	209.8	99.34	.4417	74.63	.0207

#1	228.7	-.9649	-.0444	132.5	-.0092	135000.
#2	212.6	.8848	.8505	132.5	-.0780	134900.
#3	234.5	-2.028	.5798	131.5	-.0944	135000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3408	2.912	-.7610	1.929	62.11	1966.
Stddev	.0169	.437	.2833	.322	7.94	28.
%RSD	4.955	15.01	37.23	16.67	12.79	1.448

#1	.3601	2.444	-.9340	1.573	64.48	1998.
#2	.3328	2.983	-.4340	2.013	68.60	1945.
#3	.3293	3.310	-.9151	2.200	53.25	1955.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5425.	444.4	F 300700.	8.992	-2.567	.5099
Stddev	37.	.2	1631.	.130	1.402	.8415
%RSD	.6743	.0528	.5422	1.443	54.62	165.0

#1	5410.	444.3	298900.	8.985	-3.818	-.3251
#2	5397.	444.6	302200.	9.125	-1.051	1.358
#3	5466.	444.2	301000.	8.866	-2.831	.4970

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111960-B-1-C@5 Acquired: 4/13/2016 23:38:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.392	-3.420	.4686	17.97	32.58	.4239
Stddev	.502	.882	.5421	.22	1.31	.0942
%RSD	21.00	25.80	115.7	1.206	4.021	22.22
#1	-2.299	-4.284	1.071	18.09	33.80	.4244
#2	-2.934	-2.521	.3162	18.10	32.73	.5178
#3	-1.942	-3.455	.0191	17.72	31.20	.3294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2727	709.6	2.650	7290.
Stddev	.3107	1.3	.147	27.
%RSD	113.9	.1771	5.550	.3710
#1	.0550	709.7	2.687	7260.
#2	-.3100	708.3	2.775	7300.
#3	-.5631	710.8	2.488	7311.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3021.6	37779.	5745.1
Stddev	7.3	69.	14.7
%RSD	.24040	.18201	.25503
#1	3014.5	37858.	5733.9
#2	3021.4	37746.	5761.7
#3	3029.0	37733.	5739.6

Sample Name: CCVL Acquired: 4/13/2016 23:51:25 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	212.5	12.65	10.18	210.3	2.069	5227.
Stddev	9.0	1.28	.39	.5	.051	50.
%RSD	4.251	10.10	3.801	.2550	2.469	.9493

#1	219.7	14.06	9.744	210.5	2.021	5170.
#2	215.4	12.33	10.31	209.7	2.063	5254.
#3	202.4	11.56	10.48	210.7	2.123	5257.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.223	53.36	10.36	25.67	175.9	4982.
Stddev	.123	.17	.17	.03	6.2	34.
%RSD	2.900	.3208	1.649	.1143	3.539	.6898

#1	4.100	53.50	10.34	25.64	172.2	4943.
#2	4.345	53.17	10.55	25.68	172.5	5008.
#3	4.225	53.42	10.21	25.69	183.1	4996.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5047.	16.54	4988.	42.83	12.09	20.40
Stddev	44.	.07	6.	.38	1.08	1.29
%RSD	.8780	.3930	.1252	.8979	8.939	6.297

#1	4997.	16.59	4990.	43.02	10.85	21.89
#2	5061.	16.46	4981.	42.38	12.62	19.67
#3	5083.	16.55	4993.	43.08	12.82	19.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/13/2016 23:51:25 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.80	24.01	52.22	32.43	49.03	19.82
Stddev	2.92	.98	.30	.37	.77	.05
%RSD	15.55	4.083	.5834	1.127	1.560	.2551

#1	22.15	23.44	52.25	32.02	49.91	19.86
#2	16.72	25.14	51.90	32.71	48.53	19.76
#3	17.55	23.45	52.51	32.57	48.66	19.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	50.61	21.31	21.21	F 14.62
Stddev	.47	.11	.11	5.09
%RSD	.9358	.5380	.5088	34.81

#1	51.15	21.34	21.16	16.51
#2	50.28	21.42	21.34	18.49
#3	50.39	21.19	21.15	8.853

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3190.4	39266.	5658.6
Stddev	13.1	333.	97.1
%RSD	.40979	.84801	1.7168

#1	3205.5	39644.	5770.6
#2	3182.3	39142.	5607.2
#3	3183.3	39014.	5597.9

Sample Name: CCB Acquired: 4/13/2016 23:47:04 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.696	-1.134	.3133	.2050	.0205	8.548
Stddev	9.965	1.913	.2306	.0605	.0037	3.003
%RSD	129.5	168.7	73.61	29.50	18.28	35.13

#1	1.862	.0410	.0601	.1363	.0189	7.936
#2	-6.925	-3.341	.3683	.2503	.0248	11.81
#3	-18.02	-.1009	.5114	.2283	.0179	5.898

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0616	.1410	-.4344	1.051	-4.793	7.878
Stddev	.0605	.1264	.4022	.384	5.562	26.89
%RSD	98.26	89.60	92.59	36.57	116.1	341.3

#1	-.0387	.0150	-.1555	1.450	.4708	29.62
#2	-.0159	.2677	-.8954	1.017	-4.238	-22.19
#3	-.1302	.1404	-.2522	.6840	-10.61	16.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.115	.2236	47.51	.3500	-.2354	.8762
Stddev	6.188	.2675	9.55	.3268	2.004	1.072
%RSD	76.26	119.6	20.10	93.37	851.5	122.4

#1	14.00	.5235	57.41	.5008	-.5907	1.424
#2	8.691	.0097	38.35	-.0250	-2.038	-.3594
#3	1.659	.1376	46.76	.5743	1.923	1.564

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/13/2016 23:47:04 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.833	-.5374	-.2355	-.2035	-.0584	.3760
Stddev	.983	1.442	.2969	.1233	.5282	.4297
%RSD	34.70	268.4	126.1	60.58	904.1	114.3
#1	-3.243	.0031	.1019	-.1955	.4942	.8605
#2	-1.711	.5565	-.3511	-.0844	-.5583	.0413
#3	-3.544	-2.172	-.4572	-.3305	-.1112	.2262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6345	.0567	.6748	2.133
Stddev	.4665	.1404	.4543	11.81
%RSD	73.52	247.5	67.32	553.6
#1	.8648	.2167	1.199	-8.666
#2	.0976	-.0002	.4174	14.74
#3	.9411	-.0463	.4077	.3244

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3205.1	39959.	5737.4
Stddev	9.1	118.	14.8
%RSD	.28374	.29481	.25790
#1	3213.1	39874.	5724.2
#2	3207.0	39909.	5734.6
#3	3195.2	40093.	5753.4

Sample Name: 460-111961-B-1-H@5 Acquired: 4/13/2016 23:55:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	140.7	1.628	.2605	96.00	.1278	20450.
Stddev	9.9	2.362	.1607	.96	.0345	80.
%RSD	7.056	145.1	61.68	.9953	26.98	.3927

#1	139.9	-.4160	.0830	95.40	.1626	20490.
#2	151.0	1.087	.3027	95.50	.0936	20360.
#3	131.2	4.213	.3960	97.10	.1273	20500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6063	6.968	.2614	13.26	353.7	997.1
Stddev	.0894	.183	.2318	.27	8.0	57.0
%RSD	14.74	2.623	88.68	2.007	2.270	5.715

#1	.7011	6.868	.0231	12.96	344.6	933.9
#2	.5941	7.179	.2751	13.45	356.9	1013.
#3	.5236	6.856	.4860	13.38	359.7	1045.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3215.	353.0	F 301300.	13.69	128.3	.9316
Stddev	22.	1.3	2223.	.06	3.2	1.974
%RSD	.6860	.3814	.7378	.4457	2.530	211.9

#1	3190.	352.0	298700.	13.76	125.5	2.537
#2	3230.	352.5	302500.	13.66	127.7	-1.273
#3	3227.	354.5	302700.	13.64	131.9	1.531

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111961-B-1-H@5 Acquired: 4/13/2016 23:55:42 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.843	-1.306	.7296	202.4	22.64	-.0667
Stddev	.587	1.535	.4109	2.2	.60	.1239
%RSD	31.83	117.6	56.32	1.110	2.645	185.8
#1	-2.491	-.3894	.3195	200.4	21.97	.0673
#2	-1.349	-3.078	1.141	201.8	22.83	-.1772
#3	-1.689	-.4502	.7280	204.8	23.12	-.0902

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2357	89.27	2.223	1028.
Stddev	.7923	1.19	.226	12.
%RSD	336.1	1.330	10.16	1.158
#1	-.6435	88.04	2.458	1027.
#2	.4563	89.35	2.008	1017.
#3	.8944	90.41	2.202	1041.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3072.4	37943.	5597.6
Stddev	14.8	188.	35.1
%RSD	.48240	.49543	.62693
#1	3083.6	37784.	5557.3
#2	3077.9	38150.	5621.5
#3	3055.6	37893.	5614.0

Sample Name: 460-111961-B-2-F@5 Acquired: 4/14/2016 0:00:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	190.3	1.219	.2931	181.1	.1372	48000.
Stddev	7.5	.570	.5898	.4	.0540	203.
%RSD	3.914	46.75	201.2	.2126	39.35	.4233
#1	191.3	1.604	-.3781	180.8	.0794	47850.
#2	182.4	1.488	.5292	181.5	.1862	47920.
#3	197.2	.5641	.7283	180.9	.1459	48230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6170	6.326	-.3567	3.952	2567.	1434.
Stddev	.0279	.308	.3084	.569	17.	40.
%RSD	4.514	4.873	86.45	14.39	.6571	2.806
#1	.6489	5.971	-.2172	3.552	2580.	1392.
#2	.6049	6.489	-.1427	3.700	2548.	1473.
#3	.5972	6.520	-.7101	4.603	2573.	1436.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3646.	744.5	F 295700.	14.05	29.32	2.013
Stddev	35.	3.1	1374.	.81	2.58	1.085
%RSD	.9583	.4142	.4648	5.757	8.803	53.88
#1	3639.	741.2	297200.	14.98	32.04	1.587
#2	3614.	745.0	295300.	13.50	26.90	1.206
#3	3683.	747.3	294500.	13.68	29.03	3.246

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111961-B-2-F@5 Acquired: 4/14/2016 0:00:07 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7355	-.4781	.7520	250.4	22.16	-.2357
Stddev	1.180	1.576	.2329	.6	.11	.1038
%RSD	160.4	329.7	30.97	.2524	.5109	44.04
#1	-1.806	-.2391	.6609	250.4	22.03	-.2221
#2	.5298	.9651	.5784	251.1	22.19	-.3457
#3	-.9306	-2.160	1.017	249.8	22.25	-.1394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4132	281.4	2.473	3044.
Stddev	1.042	1.3	.153	35.
%RSD	252.1	.4553	6.173	1.137
#1	-.3101	280.3	2.484	3011.
#2	-1.503	281.0	2.316	3080.
#3	.5731	282.8	2.621	3040.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3043.3	38039.	5695.7
Stddev	22.5	69.	5.3
%RSD	.73835	.18208	.09349
#1	3059.4	38051.	5692.6
#2	3053.0	38101.	5692.6
#3	3017.7	37964.	5701.8

Sample Name: 460-111961-B-3-F@5 Acquired: 4/14/2016 0:04:35 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.52	.5839	.6767	7.804	-.1045	924.1
Stddev	25.06	.1393	.2693	7.049	.0519	1239.
%RSD	217.5	23.86	39.80	90.32	49.63	134.1
#1	-2.418	.6465	.7888	.1230	-.1088	-35.74
#2	-3.473	.4243	.3694	9.313	-.1541	485.4
#3	40.45	.6810	.8719	13.98	-.0506	2323.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0419	.4369	-.5891	-3.454	-4.835	14.16
Stddev	.0450	.1683	.3253	.597	6.838	59.88
%RSD	107.4	38.53	55.23	17.28	141.4	422.9
#1	.0206	.2610	-.3795	-3.871	-12.65	-41.07
#2	.0115	.4533	-.9639	-3.721	-1.880	5.740
#3	.0936	.5965	-.4238	-2.770	.0284	77.81

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	155.8	20.08	^ *****	.1576	-.9930	-.0542
Stddev	201.0	26.16	-----	.3956	1.029	.6911
%RSD	129.0	130.3	-----	251.0	103.7	1274.
#1	-.7238	-.1341	19.97	-.2125	-2.015	-.5343
#2	85.71	10.75	69.39	.1107	.0437	.7378
#3	382.5	49.63	^ -----	.5746	-1.008	-.3662

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111961-B-3-F@5 Acquired: 4/14/2016 0:04:35 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.400	4.052	.0882	20.12	-1.868	-.4734
Stddev	1.201	.960	.0486	18.36	1.267	.1742
%RSD	22.25	23.70	55.12	91.28	67.84	36.80
#1	-6.589	4.797	.0776	.1327	-3.164	-.6224
#2	-5.424	2.968	.1412	23.98	-1.811	-.5160
#3	-4.186	4.390	.0457	36.24	-.6307	-.2818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-1.384	4.138	-.1408	12.69
Stddev	.354	7.129	.3062	63.44
%RSD	25.54	172.3	217.4	499.8
#1	-1.769	.0185	-.4415	-22.68
#2	-1.074	.0260	-.1516	-25.17
#3	-1.310	12.37	.1706	85.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6791.4	83567.	9526.7
Stddev	454.3	6225.	604.6
%RSD	6.6898	7.4486	6.3458
#1	7276.1	90409.	9968.2
#2	6722.9	82054.	9774.3
#3	6375.2	78239.	8837.7

Sample Name: 460-111961-A-4-C@5 Acquired: 4/14/2016 0:08:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	181.6	-1.909	.1343	148.7	.1524	26850.
Stddev	4.7	3.073	.4188	.7	.0197	100.
%RSD	2.577	161.0	311.9	.4840	12.93	.3719
#1	186.6	-3.899	-.3377	149.0	.1719	26940.
#2	177.3	-3.459	.4616	149.2	.1527	26880.
#3	180.9	1.630	.2788	147.9	.1325	26740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5739	5.479	.2848	3.443	3576.	1241.
Stddev	.1377	.159	.1473	.055	32.	41.
%RSD	23.99	2.910	51.72	1.609	.8913	3.288
#1	.7306	5.626	.4266	3.412	3568.	1213.
#2	.5192	5.502	.2952	3.411	3611.	1222.
#3	.4720	5.309	.1326	3.507	3548.	1288.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3313.	860.1	F 299400.	18.67	190.5	2.240
Stddev	18.	4.0	5853.	.18	4.3	.923
%RSD	.5443	.4644	1.955	.9872	2.246	41.21
#1	3325.	863.2	293100.	18.86	193.8	2.862
#2	3321.	861.5	304800.	18.49	192.0	2.679
#3	3292.	855.6	300300.	18.68	185.7	1.179

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111961-A-4-C@5 Acquired: 4/14/2016 0:08:41 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.6693	-0.1908	.7611	174.5	19.59	-0.3592
Stddev	3.274	2.126	.1828	1.6	.49	.1231
%RSD	489.1	1114.	24.01	.9365	2.506	34.27
#1	2.276	-2.390	.8674	175.1	19.75	-.3441
#2	-4.194	-.0365	.5501	175.7	19.98	-.2443
#3	-.0900	1.854	.8660	172.6	19.04	-.4891

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0314	140.9	2.269	1550.
Stddev	.4179	1.2	.058	28.
%RSD	1332.	.8297	2.550	1.808
#1	-.5045	141.5	2.284	1558.
#2	.2878	139.6	2.205	1573.
#3	.1226	141.7	2.317	1519.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3053.9	38045.	5646.7
Stddev	8.2	149.	39.2
%RSD	.26914	.39278	.69498
#1	3063.2	38216.	5683.3
#2	3047.6	37941.	5651.5
#3	3050.8	37978.	5605.2

Sample Name: LB 460-362182/1-B@5 Acquired: 4/14/2016 0:12:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.210	-3.361	.2480	-.0131	-.0097	18.93
Stddev	5.537	1.118	.3686	.0977	.0421	2.35
%RSD	250.5	33.28	148.6	744.0	432.4	12.40
#1	-6.144	-3.011	.6732	.0891	.0074	16.83
#2	-4.607	-4.613	.0196	-.1055	-.0577	21.47
#3	4.122	-2.459	.0511	-.0230	.0211	18.50

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1376	-.1318	-.2453	.8771	-5.544	59.57
Stddev	.0514	.0954	.2032	.2169	5.948	33.03
%RSD	37.35	72.43	82.82	24.73	107.3	55.45
#1	-.1488	-.1732	-.3747	1.120	1.283	43.87
#2	-.1825	-.0226	-.0111	.8085	-9.614	37.32
#3	-.0815	-.1995	-.3502	.7028	-8.300	97.52

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.831	.0010	^ *****	.8605	-.1315	.2967
Stddev	4.051	.0490	-----	.1574	.1305	.7394
%RSD	105.7	4710.	-----	18.29	99.28	249.2
#1	4.840	.0284	^ -----	1.017	-.2810	.7090
#2	-.6295	-.0555	304300.	.7025	-.0406	-.5569
#3	7.282	.0302	302600.	.8618	-.0728	.7380

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: LB 460-362182/1-B@5 Acquired: 4/14/2016 0:12:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0446	-0.8594	.2891	2.344	1.629	-0.5853
Stddev	2.406	1.365	.1922	.304	.398	.1141
%RSD	5393.	158.8	66.47	12.96	24.41	19.49
#1	2.451	.2144	.0703	2.381	1.593	-0.6375
#2	-2.350	-0.3974	.3667	2.628	1.251	-0.4545
#3	-0.2348	-0.2395	.4303	2.024	2.043	-0.6640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1659	-0.0770	-0.0064	29.54
Stddev	.6674	.0397	.1796	11.10
%RSD	402.3	51.59	2802.	37.59
#1	-0.4084	-0.0961	-0.0536	29.88
#2	.0080	-0.0313	-0.1577	18.27
#3	.8981	-0.1035	.1921	40.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3050.2	37857.	5620.2
Stddev	2.3	155.	20.7
%RSD	.07628	.40899	.36865
#1	3049.6	37681.	5597.6
#2	3048.2	37973.	5638.3
#3	3052.8	37917.	5624.8

Sample Name: LCS 460-362058/2-A@2 Acquired: 4/14/2016 0:21:04 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2423.	2297.	243.4	4994.	k 492.5	9706.
Stddev	30.	7.	.6	10.	4.5	18.
%RSD	1.228	.3111	.2422	.1948	.9194	.1900

#1	2390.	2297.	244.1	4990.	k 487.2	9691.
#2	2447.	2290.	242.9	4986.	495.1	9701.
#3	2432.	2304.	243.3	5005.	495.0	9727.

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	514.0	528.1	2462.	k 489.7	k 486.5	k 9330.
Stddev	1.6	1.3	7.	.4	10.2	64.
%RSD	.3180	.2432	.2740	.0734	2.090	.6906

#1	513.0	527.2	2458.	k 489.3	k 493.2	k 9258.
#2	513.2	527.6	2458.	489.8	474.8	9381.
#3	515.9	529.6	2470.	490.0	491.5	9352.

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 9489.	525.6	9533.	k 529.8	k 2531.	k 476.7
Stddev	20.	1.4	76.	1.2	10.	5.5
%RSD	.2078	.2625	.7984	.2247	.3859	1.164

#1	k 9498.	525.0	9446.	k 529.6	k 2521.	k 470.9
#2	9467.	524.6	9584.	528.7	2531.	477.5
#3	9503.	527.2	9570.	531.1	2541.	481.9

Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: LCS 460-362058/2-A@2 Acquired: 4/14/2016 0:21:04 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 487.3	k 536.6	k 256.4	k 532.9	k 499.9	k 510.2
Stddev	2.0	6.6	2.3	4.5	6.3	4.8
%RSD	.4182	1.232	.8924	.8427	1.254	.9449

#1	k 485.7	k 533.3	k 257.3	k 528.3	k 505.6	k 506.4
#2	486.7	532.2	253.7	533.1	493.2	508.5
#3	489.6	544.2	258.0	537.3	501.0	515.6

Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k 496.4	^ *****	k 507.8	k 39.02
Stddev	5.1	----	1.3	18.20
%RSD	1.031	----	.2520	46.65

#1	k 491.1	^ ----	k 507.5	k 57.08
#2	496.8	498.6	506.7	20.68
#3	501.3	499.3	509.2	39.29

Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3144.9	39450.	5718.8
Stddev	1.5	185.	28.8
%RSD	.04923	.46834	.50317

#1	3146.6	39453.	5692.7
#2	3144.7	39264.	5714.0
#3	3143.5	39633.	5749.7

Sample Name: 460-111840-J-16-C DU Acquired: 4/14/2016 0:24:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.41	1.381	.6725	33.00	-.0623	16240.
Stddev	15.70	2.180	.5301	.20	.0663	65.
%RSD	43.13	157.9	78.83	.5988	106.5	.3993
#1	18.30	3.731	1.272	32.83	-.1248	16200.
#2	46.18	.9883	.2649	32.96	.0073	16200.
#3	44.75	-.5765	.4808	33.22	-.0693	16310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0662	.1369	.1351	2.175	471.9	9979.
Stddev	.0347	.0990	.3618	.167	3.5	170.
%RSD	52.49	72.29	267.8	7.685	.7477	1.700
#1	-.0262	.0253	.1031	2.157	467.9	9783.
#2	-.0834	.1713	.5119	2.351	474.8	10060.
#3	-.0889	.2141	-.2096	2.018	472.8	10090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2554.	145.9	^ *****	4.428	-.2363	.4879
Stddev	6.	.2	-----	.222	2.667	.6432
%RSD	.2490	.1420	-----	5.022	1128.	131.8
#1	2559.	145.6	^ -----	4.277	-.0875	.1143
#2	2557.	146.0	226200.	4.683	-2.975	1.231
#3	2547.	146.0	223700.	4.324	2.353	.1190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111840-J-16-C DU Acquired: 4/14/2016 0:24:49 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.780	1.742	1.052	3.725	30.71	1.456
Stddev	2.043	.632	.060	.115	.24	.177
%RSD	114.8	36.30	5.668	3.088	.7655	12.16
#1	-2.957	2.132	1.120	3.783	30.77	1.654
#2	-2.962	2.081	1.026	3.800	30.44	1.401
#3	.5791	1.012	1.009	3.593	30.90	1.312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1209	149.2	1.747	975.6
Stddev	.6736	1.3	.223	28.3
%RSD	557.4	.9014	12.78	2.899
#1	.6217	147.7	1.503	942.9
#2	-.6928	150.0	1.941	991.3
#3	-.2915	150.1	1.796	992.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3065.1	38155.	5712.3
Stddev	9.1	111.	35.0
%RSD	.29688	.29112	.61297
#1	3074.1	38224.	5714.6
#2	3065.3	38215.	5676.2
#3	3055.9	38027.	5746.2

Sample Name: sd 460-111840-J-16-B Acquired: 4/14/2016 0:33:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.478	-1.571	.2618	6.318	-.0967	3197.
Stddev	4.581	.808	.1299	.147	.0696	8.
%RSD	184.9	51.47	49.61	2.324	71.99	.2395
#1	2.756	-.7254	.2371	6.419	-.1407	3189.
#2	-5.757	-1.650	.4022	6.384	-.0164	3204.
#3	-4.432	-2.336	.1460	6.149	-.1330	3199.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0261	.1178	-.3516	.5294	92.99	1958.
Stddev	.0212	.2366	.0799	.2495	5.96	38.
%RSD	81.11	200.9	22.73	47.12	6.408	1.941
#1	-.0453	-.0468	-.2828	.4404	94.08	1918.
#2	-.0296	.3889	-.4393	.8111	86.56	1993.
#3	-.0034	.0112	-.3328	.3366	98.33	1962.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	504.7	28.53	44380.	1.305	.3489	.2185
Stddev	2.6	.12	319.	.108	1.328	.6970
%RSD	.5195	.4142	.7182	8.273	380.6	319.0
#1	507.3	28.56	44020.	1.430	-1.024	-.3243
#2	504.6	28.63	44460.	1.247	.4436	-.0247
#3	502.1	28.40	44650.	1.239	1.627	1.004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111840-J-16-B Acquired: 4/14/2016 0:33:04 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.327	-.3072	.0854	1.235	5.245	-.4246
Stddev	.367	.9859	.4633	.134	.513	.1359
%RSD	6.887	320.9	542.2	10.88	9.779	32.01
#1	-4.957	-.1749	.6187	1.083	4.658	-.2742
#2	-5.690	.6058	-.1448	1.287	5.606	-.5387
#3	-5.334	-1.353	-.2176	1.337	5.472	-.4610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1170	29.90	.2342	197.0
Stddev	.4622	.35	.0919	10.0
%RSD	395.0	1.180	39.26	5.072
#1	-.2860	29.49	.2877	186.1
#2	-.4710	30.15	.1280	199.4
#3	.4059	30.04	.2868	205.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3130.3	38950.	5648.5
Stddev	3.3	95.	41.0
%RSD	.10636	.24318	.72671
#1	3132.3	39049.	5693.6
#2	3126.5	38942.	5638.6
#3	3132.3	38860.	5613.3

Sample Name: CCB Acquired: 4/14/2016 0:40:53 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.663	-2.099	.6119	.3795	.0098	1.624
Stddev	.468	1.544	.1650	.0749	.1179	4.325
%RSD	12.78	73.58	26.96	19.72	1202.	266.3
#1	3.423	-3.877	.5430	.4067	.1344	-.3302
#2	4.202	-1.321	.4925	.4370	-.0051	6.581
#3	3.363	-1.098	.8002	.2949	-.0999	-1.378

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0344	.2058	.1135	.8474	1.375	-4.802
Stddev	.1510	.0579	.2876	.0898	13.89	16.70
%RSD	439.2	28.11	253.4	10.60	1010.	347.9
#1	.0264	.1520	-.1633	.8240	8.579	.1140
#2	.0768	.2670	.4108	.9467	-14.64	-23.41
#3	-.2063	.1984	.0930	.7717	10.19	8.893

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.084	.1665	49.00	.0281	-.5869	.5299
Stddev	6.233	.0619	11.90	.4957	2.295	.5341
%RSD	152.6	37.15	24.28	1762.	391.0	100.8
#1	6.985	.2349	62.26	-.3734	1.600	.3650
#2	-3.071	.1143	45.48	-.1242	-.3840	1.127
#3	8.339	.1505	39.25	.5821	-2.977	.0977

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/14/2016 0:40:53 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.374	-.3610	-.4327	.0066	.0303	.4393
Stddev	.413	.7555	.0612	.1210	.2191	.4845
%RSD	17.42	209.3	14.15	1837.	723.3	110.3
#1	-2.003	-1.228	-.3697	-.0883	.2748	.9164
#2	-2.300	.1587	-.4921	.1429	-.1485	.4535
#3	-2.820	-.0141	-.4364	-.0349	-.0354	-.0522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1392	.1417	.6583	12.27
Stddev	.3062	.0792	.2823	15.12
%RSD	220.0	55.90	42.88	123.2
#1	-.1658	.1301	.8092	-4.806
#2	.4466	.0690	.8331	17.66
#3	.1368	.2261	.3327	23.96

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3133.2	38823.	5609.9
Stddev	8.4	178.	48.4
%RSD	.26917	.45785	.86303
#1	3123.7	38993.	5665.7
#2	3136.0	38837.	5584.8
#3	3139.9	38639.	5579.2

Sample Name: 460-111840-J-16-D MS Acquired: 4/14/2016 0:48:57 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1050.	987.2	104.2	2105.	209.1	20220.
Stddev	22.	.4	.4	2.	2.3	19.
%RSD	2.088	.0399	.3605	.0757	1.109	.0957
#1	1025.	987.6	104.2	2103.	206.7	20200.
#2	1065.	987.2	104.6	2106.	211.4	20230.
#3	1059.	986.9	103.9	2106.	209.1	20230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.7	219.0	1030.	210.6	678.1	14010.
Stddev	.8	1.2	2.	.8	9.2	182.
%RSD	.3797	.5594	.2331	.3675	1.356	1.302
#1	215.3	219.6	1028.	209.9	687.9	13800.
#2	215.0	219.8	1030.	211.5	676.5	14140.
#3	213.8	217.6	1033.	210.5	669.7	14080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6580.	361.0	231800.	223.2	1048.	201.8
Stddev	19.	.3	2249.	1.0	5.	1.3
%RSD	.2858	.0934	.9703	.4526	.4522	.6288
#1	6597.	361.2	229400.	223.4	1051.	202.1
#2	6560.	360.6	233900.	224.1	1051.	202.8
#3	6583.	361.2	232100.	222.1	1043.	200.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111840-J-16-D MS Acquired: 4/14/2016 0:48:57 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.1	219.0	110.5	226.0	238.9	214.2
Stddev	.6	2.1	.9	1.8	1.4	1.1
%RSD	.2907	.9651	.8332	.7811	.5756	.5004
#1	207.1	221.3	109.6	226.3	238.1	214.4
#2	207.7	218.5	110.6	227.6	240.5	215.1
#3	206.5	217.2	111.4	224.1	238.1	213.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	206.7	357.1	220.1	1005.
Stddev	2.3	3.5	3.0	23.
%RSD	1.110	.9694	1.352	2.293
#1	207.1	353.2	220.3	989.5
#2	208.7	359.7	217.1	993.8
#3	204.2	358.5	223.0	1031.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3069.2	38284.	5675.6
Stddev	3.4	56.	43.1
%RSD	.11183	.14637	.75968
#1	3068.9	38349.	5696.1
#2	3072.8	38248.	5626.0
#3	3065.9	38256.	5704.5

Sample Name: 460-111840-J-16-B@5 Acquired: 4/14/2016 0:28:56 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.15	.5661	.2152	32.45	.0100	16400.
Stddev	5.88	1.217	.4298	.28	.0464	46.
%RSD	20.17	215.0	199.7	.8606	466.3	.2791
#1	32.85	1.555	.3830	32.70	-.0342	16420.
#2	32.23	.9364	-.2732	32.51	.0584	16430.
#3	22.37	-.7931	.5357	32.15	.0057	16350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0224	.3729	.2882	2.115	482.8	10070.
Stddev	.0578	.2224	.5288	.153	12.4	29.
%RSD	257.4	59.65	183.5	7.209	2.576	.2868
#1	-.0205	.5022	.8540	2.122	490.2	10050.
#2	.0881	.1161	.2040	2.264	489.8	10110.
#3	-.0003	.5004	-.1935	1.960	468.4	10060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2570.	147.1	224500.	4.912	-1.665	.4787
Stddev	14.	.8	3622.	.334	.972	.8951
%RSD	.5304	.5534	1.613	6.797	58.36	187.0
#1	2566.	146.8	226100.	4.551	-.9967	1.506
#2	2585.	148.0	227100.	5.210	-2.779	-.1329
#3	2558.	146.4	220400.	4.975	-1.218	.0629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111840-J-16-B@5 Acquired: 4/14/2016 0:28:56 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.398	1.183	1.045	3.576	29.17	1.203
Stddev	1.150	1.423	.041	.089	.30	.115
%RSD	47.97	120.3	3.930	2.484	1.021	9.526
#1	-2.404	-1.983	1.005	3.494	29.51	1.268
#2	-1.245	1.104	1.043	3.564	29.07	1.271
#3	-3.546	2.644	1.087	3.671	28.94	1.071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1418	149.3	1.572	958.2
Stddev	.7157	2.2	.160	11.1
%RSD	504.8	1.506	10.16	1.154
#1	-.6732	150.6	1.560	948.4
#2	.4305	150.5	1.737	956.0
#3	.6680	146.7	1.418	970.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3063.4	37696.	5615.1
Stddev	13.8	128.	65.7
%RSD	.44946	.33848	1.1706
#1	3050.5	37654.	5554.4
#2	3061.7	37595.	5605.9
#3	3077.9	37839.	5684.9

Sample Name: MB 460-361840/1-A@2 Acquired: 4/14/2016 1:00:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.376	-1.570	.5228	-.0043	.0005	.2693
Stddev	15.10	1.778	.2433	.1043	.0776	1.639
%RSD	180.3	113.2	46.53	2435.	14910.	608.6
#1	-15.46	-2.990	.5510	-.1173	-.0629	.3972
#2	8.965	-2.144	.2666	.0881	-.0226	1.841
#3	-18.64	.4235	.7506	.0164	.0871	-1.430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0367	.0496	-.5448	-.0658	-5.115	2.347
Stddev	.0212	.1119	.4591	.1236	2.392	25.22
%RSD	57.82	225.5	84.28	187.8	46.77	1074.
#1	-.0396	-.0436	-.0397	.0495	-7.337	-26.05
#2	-.0563	.0188	-.9369	-.0506	-5.423	10.93
#3	-.0142	.1736	-.6577	-.1964	-2.583	22.15

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6908	.0356	43.97	.0705	-1.379	.8321
Stddev	2.132	.0601	6.06	.4115	.788	1.157
%RSD	308.5	168.7	13.78	583.9	57.16	139.1
#1	2.997	-.0333	47.37	-.1650	-.6123	-.2908
#2	-1.207	.0627	36.98	.5456	-1.338	2.021
#3	.2819	.0775	47.57	-.1692	-2.188	.7666

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-361840/1-A@2 Acquired: 4/14/2016 1:00:45 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .6594	- .9069	- .2335	.4923	- .4049	- .3327
Stddev	2.245	.9715	.4051	.2904	.2853	.1308
%RSD	340.5	107.1	173.5	59.00	70.46	39.33
#1	-2.660	-.9291	.0394	.3837	-.3017	-.3217
#2	-1.087	-1.867	-.6989	.2717	-.1855	-.2076
#3	1.769	.0755	-.0408	.8213	-.7274	-.4686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	- .2353	- .0456	- .1288	12.99
Stddev	.7423	.0623	.2517	8.18
%RSD	315.5	136.8	195.4	62.94
#1	-.4925	.0262	.0189	12.71
#2	.6014	-.0763	.0141	21.31
#3	-.8147	-.0866	-.4194	4.960
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3125.6	38753.	5598.0
Stddev	6.1	58.	18.0
%RSD	.19381	.14947	.32072
#1	3125.2	38686.	5577.5
#2	3119.8	38788.	5605.1
#3	3131.9	38786.	5611.3

Sample Name: 460-111474-C-1-D@4 Acquired: 4/14/2016 1:12:28 Type: Unk

Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7550.	30.49	.5284	90.14	.7416	1739.
Stddev	31.	.51	.1698	.51	.0757	6.
%RSD	.4145	1.686	32.12	.5696	10.21	.3257

#1	7519.	31.08	.5628	89.64	.8143	1734.
#2	7549.	30.26	.6784	90.11	.6632	1745.
#3	7582.	30.14	.3441	90.67	.7473	1738.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7456	12.12	31.69	21.34	48710.	1310.
Stddev	.0522	.43	.14	.16	177.	23.
%RSD	7.005	3.549	.4276	.7723	.3637	1.751

#1	-.7373	11.98	31.71	21.36	48510.	1298.
#2	-.6980	11.78	31.54	21.17	48820.	1336.
#3	-.8014	12.61	31.81	21.50	48810.	1295.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3059.	813.4	703.1	24.88	255.0	2.294
Stddev	19.	3.4	4.8	.67	2.3	.928
%RSD	.6316	.4165	.6768	2.708	.8930	40.47

#1	3037.	809.5	704.1	24.25	252.8	1.684
#2	3074.	815.1	698.0	25.59	254.8	3.362
#3	3064.	815.6	707.3	24.80	257.4	1.835

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111474-C-1-D@4 Acquired: 4/14/2016 1:12:28 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.613	-.3241	42.71	225.6	13.21	1.937
Stddev	1.005	1.096	.41	2.3	.28	.146
%RSD	38.46	338.2	.9517	1.033	2.137	7.555
#1	1.472	.7160	42.26	223.0	12.91	1.838
#2	3.367	-.2199	43.05	226.5	13.24	1.868
#3	2.999	-1.468	42.81	227.4	13.47	2.105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.87	40.97	293.3	677.2
Stddev	.48	.34	.8	17.3
%RSD	4.440	.8346	.2602	2.551
#1	11.41	40.93	292.4	657.5
#2	10.74	40.65	293.6	684.5
#3	10.47	41.33	293.9	689.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3139.8	39224.	5677.3
Stddev	3.3	166.	42.8
%RSD	.10500	.42411	.75320
#1	3136.0	39079.	5644.1
#2	3141.9	39187.	5725.6
#3	3141.5	39406.	5662.2

Sample Name: sd 460-111474-C-1-D Acquired: 4/14/2016 1:16:24 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1448.	4.852	.2704	17.62	.0951	353.7
Stddev	16.	2.143	.7017	.14	.0646	4.9
%RSD	1.077	44.17	259.5	.8076	67.99	1.379
#1	1435.	6.938	.3927	17.55	.1180	348.9
#2	1465.	4.961	.9029	17.54	.1451	353.6
#3	1444.	2.656	-.4845	17.79	.0221	358.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2780	2.636	5.911	4.609	9800.	262.7
Stddev	.1400	.048	.214	.486	176.	.3
%RSD	50.34	1.804	3.613	10.55	1.791	.1114
#1	-.2304	2.689	5.891	4.114	9721.	263.0
#2	-.1680	2.620	5.707	4.626	9677.	262.7
#3	-.4355	2.597	6.133	5.086	10000.	262.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	608.3	164.9	142.0	5.171	50.12	2.288
Stddev	7.1	2.6	5.9	.251	.63	.268
%RSD	1.166	1.569	4.131	4.852	1.252	11.71
#1	607.0	164.3	135.2	5.384	49.52	2.597
#2	602.0	162.7	146.0	4.894	50.07	2.120
#3	616.0	167.8	144.7	5.236	50.77	2.147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111474-C-1-D Acquired: 4/14/2016 1:16:24 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.195	-3.093	8.700	45.55	1.971	-0.0508
Stddev	.903	1.482	.522	.82	.638	.1133
%RSD	75.62	479.0	6.001	1.810	32.40	223.2
#1	-2.226	1.011	9.166	44.69	2.192	-.0974
#2	-.8144	-.0275	8.136	45.64	1.251	-.1334
#3	-.5439	-1.912	8.799	46.33	2.469	.0784

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.800	7.986	58.13	136.7
Stddev	1.025	.081	1.19	14.5
%RSD	56.93	1.017	2.044	10.60
#1	2.824	7.918	57.64	130.2
#2	1.801	8.076	57.26	153.3
#3	.7747	7.966	59.48	126.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3163.0	39202.	5745.8
Stddev	18.5	195.	54.0
%RSD	.58621	.49666	.93922
#1	3177.5	39364.	5723.5
#2	3169.5	39256.	5706.7
#3	3142.1	38986.	5807.4

Sample Name: 460-111474-C-1-F MS Acquired: 4/14/2016 1:20:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11010.	1005.	25.71	1117.	27.82	11500.
Stddev	165.	1.	.52	5.	.43	102.
%RSD	1.498	.1005	2.032	.4068	1.534	.8870

#1	10830.	1004.	25.54	1118.	27.42	11570.
#2	11150.	1005.	26.30	1112.	28.27	11550.
#3	11040.	1006.	25.30	1121.	27.77	11390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.02	284.3	171.3	179.9	83150.	11170.
Stddev	.04	1.0	.4	.6	430.	81.
%RSD	.1467	.3636	.2134	.3352	.5171	.7213

#1	24.99	284.7	171.6	180.5	83070.	11090.
#2	25.00	283.1	171.3	179.3	83620.	11250.
#3	25.06	285.1	170.9	180.0	82770.	11170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13170.	1398.	10790.	352.8	467.5	210.5
Stddev	99.	7.	114.	.9	3.3	.7
%RSD	.7499	.5046	1.053	.2456	.6990	.3538

#1	13270.	1402.	10670.	353.6	471.1	209.6
#2	13170.	1403.	10880.	351.9	464.7	211.0
#3	13070.	1390.	10830.	353.0	466.7	210.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111474-C-1-F MS Acquired: 4/14/2016 1:20:25 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1003.	1105.	316.4	744.6	260.5	264.6
Stddev	1.	3.	1.4	5.8	1.1	.8
%RSD	.1140	.2430	.4298	.7853	.4187	.2970
#1	1002.	1105.	317.3	751.0	259.2	263.8
#2	1003.	1102.	314.8	739.6	261.3	264.5
#3	1004.	1108.	317.1	743.1	260.9	265.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	275.0	286.0	591.1	1278.
Stddev	1.4	3.4	2.7	27.
%RSD	.5054	1.184	.4609	2.132
#1	275.3	282.6	589.0	1252.
#2	273.5	289.3	594.2	1307.
#3	276.3	286.1	590.2	1276.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3103.0	38394.	5595.1
Stddev	39.0	616.	119.6
%RSD	1.2554	1.6053	2.1370
#1	3059.3	37710.	5486.4
#2	3133.9	38565.	5575.8
#3	3115.9	38907.	5723.2

Sample Name: pds 460-111474-C-1-D Acquired: 4/14/2016 1:24:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9567.	1957.	50.34	2157.	52.96	21930.
Stddev	172.	9.	.57	10.	.72	41.
%RSD	1.798	.4777	1.137	.4696	1.351	.1889
#1	9371.	1966.	50.93	2158.	52.13	21890.
#2	9642.	1959.	50.31	2166.	53.38	21970.
#3	9690.	1947.	49.78	2146.	53.36	21940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.35	537.2	243.3	275.3	49600.	19810.
Stddev	.23	2.8	2.8	2.4	139.	267.
%RSD	.4508	.5258	1.170	.8612	.2804	1.345
#1	50.52	537.6	242.8	274.6	49460.	19510.
#2	50.45	539.8	246.3	278.0	49740.	19920.
#3	50.09	534.2	240.7	273.5	49580.	20000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22800.	1334.	20730.	552.4	773.1	483.7
Stddev	43.	4.	348.	2.9	5.2	4.4
%RSD	.1882	.2727	1.678	.5211	.6779	.9128
#1	22770.	1330.	20330.	552.7	771.3	485.0
#2	22850.	1338.	20880.	555.2	779.0	487.3
#3	22780.	1334.	20970.	549.4	769.0	478.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111474-C-1-D Acquired: 4/14/2016 1:24:09 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1972.	2185.	565.9	750.3	516.0	513.9
Stddev	21.	17.	4.8	7.3	4.1	5.1
%RSD	1.084	.7693	.8436	.9795	.7965	.9945
#1	1983.	2199.	563.1	752.3	518.9	515.3
#2	1985.	2189.	571.5	756.4	517.8	518.2
#3	1947.	2166.	563.2	742.1	511.3	508.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	531.7	554.8	818.4	713.6
Stddev	5.3	7.0	1.9	21.8
%RSD	1.003	1.255	.2307	3.047
#1	532.1	546.8	816.7	698.6
#2	536.8	558.0	820.4	738.6
#3	526.2	559.5	818.0	703.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3054.2	38064.	5580.5
Stddev	11.0	262.	38.9
%RSD	.35950	.68840	.69795
#1	3048.7	37766.	5573.8
#2	3047.0	38167.	5622.4
#3	3066.8	38259.	5545.3

Sample Name: CCB Acquired: 4/14/2016 1:31:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.418	-1.919	.5776	.4254	.0853	13.74
Stddev	11.85	1.477	.2507	.0447	.0157	10.60
%RSD	346.7	76.94	43.41	10.50	18.45	77.15
#1	9.988	-3.250	.2883	.4563	.1015	25.94
#2	-7.749	-2.178	.7324	.4458	.0844	8.552
#3	-12.49	-.3304	.7122	.3742	.0700	6.737

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0787	.1193	-.0437	1.312	-.0787	1.445
Stddev	.1362	.2050	.1888	.520	5.423	22.63
%RSD	173.1	171.8	431.9	39.62	6891.	1566.
#1	.1839	.3021	.0858	1.896	5.471	-17.06
#2	.1273	-.1022	.0435	1.141	-5.365	26.67
#3	-.0752	.1581	-.2604	.8989	-.3415	-5.273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.429	.3657	28.91	-.1687	-1.178	1.111
Stddev	10.16	.3292	13.27	.1142	2.558	.585
%RSD	120.6	90.03	45.88	67.67	217.1	52.63
#1	20.10	.7388	41.37	-.0369	-1.551	1.783
#2	1.519	.2421	30.41	-.2337	-3.530	.8358
#3	3.668	.1162	14.97	-.2355	1.545	.7151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/14/2016 1:31:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6755	-.2330	.2200	.0087	.2882	.3789
Stddev	2.958	1.173	.2638	.2921	.4434	.5206
%RSD	437.9	503.5	119.9	3347.	153.9	137.4
#1	2.145	1.120	.3328	.1209	.7637	.7443
#2	-2.730	-.9724	-.0815	-.3228	-.1141	.6097
#3	2.612	-.8466	.4087	.2281	.2151	-.2171

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0955	.1073	.8848	9.615
Stddev	.3128	.2161	.7286	20.78
%RSD	327.7	201.3	82.35	216.1
#1	-.3839	.3550	1.725	29.54
#2	-.1395	.0090	.5039	11.22
#3	.2371	-.0421	.4256	-11.92

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3156.4	39166.	5652.4
Stddev	20.7	497.	110.0
%RSD	.65621	1.2701	1.9457
#1	3179.8	39717.	5769.2
#2	3140.5	38751.	5637.4
#3	3148.9	39030.	5550.7

Sample Name: 460-110491-A-28-A@10 Acquired: 4/14/2016 1:51:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14910.	45.49	.2801	108.8	.9331	2435.
Stddev	39.	.55	.4594	.2	.0697	12.
%RSD	.2596	1.214	164.0	.1866	7.466	.4751
#1	14870.	46.04	.4651	108.6	.8804	2439.
#2	14940.	45.48	.6182	108.9	.9069	2422.
#3	14910.	44.94	-.2429	109.0	1.012	2445.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.833	4.843	53.74	25.18	105800.	3518.
Stddev	.076	.152	.14	.26	168.	50.
%RSD	4.130	3.143	.2631	1.036	.1587	1.423
#1	-1.796	4.735	53.66	24.91	105600.	3478.
#2	-1.783	4.777	53.66	25.18	105700.	3574.
#3	-1.920	5.017	53.91	25.43	105900.	3501.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4111.	152.2	71.26	15.48	44.34	.2990
Stddev	37.	1.1	8.02	.59	2.20	.5780
%RSD	.8958	.7117	11.26	3.793	4.961	193.3
#1	4125.	152.5	67.28	14.83	44.02	.7594
#2	4069.	151.0	66.00	15.98	46.68	.4872
#3	4139.	153.1	80.50	15.61	42.31	-.3497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110491-A-28-A@10 Acquired: 4/14/2016 1:51:00 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.076	-1.046	109.4	75.06	5.115	.6523
Stddev	2.927	.524	.8	.42	.663	.2079
%RSD	36.24	50.14	.6916	.5553	12.96	31.86
#1	8.880	-.8059	109.8	74.60	5.880	.4305
#2	4.831	-1.647	108.5	75.18	4.753	.6837
#3	10.52	-.6841	109.9	75.40	4.713	.8426

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8351	27.33	186.1	864.7
Stddev	.8113	.34	2.2	14.5
%RSD	97.15	1.227	1.201	1.682
#1	1.533	27.12	186.2	857.9
#2	-.0549	27.72	183.8	854.8
#3	1.027	27.17	188.2	881.4

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3201.1	39981.	5887.8
Stddev	4.2	94.	31.0
%RSD	.13274	.23505	.52727
#1	3202.8	39921.	5918.0
#2	3196.3	39933.	5856.0
#3	3204.4	40089.	5889.3

Sample Name: 460-111851-E-2-A@4 Acquired: 4/14/2016 2:02:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29350.	18.00	.9295	163.0	1.812	7735.
Stddev	61.	.96	.7286	.5	.018	104.
%RSD	.2073	5.354	78.39	.3029	1.019	1.349
#1	29320.	16.91	1.066	162.5	1.803	7833.
#2	29300.	18.36	1.580	163.2	1.800	7745.
#3	29420.	18.74	.1421	163.4	1.833	7625.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.253	30.43	119.9	627.5	114500.	3157.
Stddev	.325	.21	.8	3.9	1135.	16.
%RSD	25.92	.6824	.6469	.6250	.9907	.5051
#1	-1.485	30.33	120.1	630.8	115700.	3168.
#2	-1.393	30.30	120.5	623.1	114400.	3164.
#3	-.8819	30.67	119.0	628.4	113500.	3138.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7298.	1230.	2154.	100.5	155.5	1.135
Stddev	91.	11.	11.	.9	.2	1.064
%RSD	1.244	.8626	.4882	.8545	.1362	93.76
#1	7359.	1241.	2166.	99.73	155.4	.0418
#2	7343.	1228.	2146.	100.4	155.5	1.196
#3	7194.	1220.	2149.	101.4	155.8	2.168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111851-E-2-A@4 Acquired: 4/14/2016 2:02:32 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.336	-1.542	92.56	339.2	-1.748	4.904
Stddev	1.982	1.426	.77	.9	.339	.037
%RSD	45.72	92.48	.8321	.2673	19.36	.7623
#1	2.443	-2.322	92.96	338.9	-1.685	4.873
#2	4.167	-2.410	93.05	338.4	-2.114	4.946
#3	6.397	.1039	91.67	340.2	-1.446	4.895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	18.62	40.61	1389.	725.3
Stddev	.95	.12	8.	11.9
%RSD	5.114	.3022	.5624	1.642
#1	19.71	40.52	1398.	712.2
#2	18.15	40.56	1386.	728.2
#3	17.99	40.75	1383.	735.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3208.0	39906.	5757.1
Stddev	23.0	806.	73.6
%RSD	.71725	2.0185	1.2787
#1	3192.8	39223.	5732.4
#2	3196.7	39700.	5699.0
#3	3234.5	40794.	5839.9

Sample Name: 460-111893-C-1-A@4 Acquired: 4/14/2016 2:10:10 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22640.	1.106	.3246	84.98	.5752	3334.
Stddev	129.	1.798	.4708	.98	.1292	34.
%RSD	.5677	162.6	145.1	1.153	22.46	1.025
#1	22500.	3.025	.7187	83.90	.7009	3301.
#2	22700.	.8306	-.1968	85.23	.5819	3333.
#3	22740.	-.5388	.4518	85.82	.4428	3369.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2971	4.615	24.59	11.49	15250.	889.2
Stddev	.0379	.181	.41	.20	117.	15.3
%RSD	12.76	3.924	1.683	1.760	.7636	1.722
#1	-.2681	4.542	24.50	11.36	15170.	887.8
#2	-.2832	4.482	24.24	11.39	15200.	905.1
#3	-.3400	4.822	25.05	11.72	15390.	874.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2204.	147.3	64.43	13.11	71.48	.8825
Stddev	16.	1.0	7.36	.42	1.71	.4816
%RSD	.7052	.7077	11.42	3.185	2.393	54.57
#1	2191.	146.5	65.94	13.47	71.00	1.426
#2	2199.	146.9	56.44	13.21	70.07	.7135
#3	2221.	148.5	70.92	12.65	73.38	.5082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111893-C-1-A@4 Acquired: 4/14/2016 2:10:10 Type: Unk
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8235	-.6009	36.35	43.45	2.228	.0433
Stddev	2.265	1.277	.71	.55	.452	.3125
%RSD	275.1	212.6	1.941	1.270	20.30	721.8
#1	-1.531	-2.026	35.85	42.86	2.415	.3147
#2	1.015	.4408	36.04	43.54	1.712	-.2984
#3	2.987	-.2173	37.16	43.95	2.556	.1136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.51	15.25	320.6	726.6
Stddev	.16	.06	1.6	6.0
%RSD	1.112	.4067	.4986	.8278
#1	14.38	15.26	319.0	720.4
#2	14.46	15.18	320.5	726.8
#3	14.69	15.30	322.2	732.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3213.6	40122.	5867.7
Stddev	10.3	233.	19.9
%RSD	.32204	.58015	.33888
#1	3223.4	40314.	5873.1
#2	3214.7	40189.	5884.3
#3	3202.8	39863.	5845.6

Sample Name: CCB Acquired: 4/14/2016 2:17:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.980	-2.105	.4063	.4857	-.0132	-5.616
Stddev	8.336	.617	.3577	.0509	.0442	2.114
%RSD	119.4	29.31	88.02	10.48	336.2	37.64
#1	-16.09	-1.584	.0925	.4336	-.0635	-4.206
#2	-5.132	-2.787	.3308	.5352	.0048	-4.595
#3	.2770	-1.944	.7957	.4883	.0193	-8.046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0420	.1112	-.3143	.2260	5.040	27.50
Stddev	.0622	.1679	.1257	.1362	3.044	25.09
%RSD	148.2	151.0	39.99	60.27	60.40	91.23
#1	-.0059	-.0799	-.2679	.2343	5.008	4.967
#2	-.0062	.2350	-.4566	.0858	2.012	23.00
#3	-.1137	.1784	-.2184	.3577	8.099	54.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.712	.1855	18.63	.0475	-.1273	.0237
Stddev	4.663	.0789	6.76	.0751	2.551	.5587
%RSD	81.63	42.53	36.32	158.0	2003.	2353.
#1	6.286	.2695	25.70	.0893	2.749	-.0978
#2	10.06	.1739	12.22	-.0391	-1.017	.6333
#3	.7891	.1130	17.95	.0924	-2.115	-.4642

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/14/2016 2:17:37 Type: QC
Method: sw04052016(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.912	-.3651	.2303	-.0319	-.2310	.7509
Stddev	2.454	1.205	.3670	.0693	.2763	.4182
%RSD	128.4	330.0	159.4	217.5	119.6	55.70
#1	.4757	1.023	-.1267	-.0438	.0512	1.189
#2	-4.428	-1.142	.6066	-.0945	-.2430	.7086
#3	-1.783	-.9758	.2111	.0426	-.5011	.3554

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2018	.2022	.6323	5.141
Stddev	.9090	.0774	.2392	15.31
%RSD	450.3	38.27	37.83	297.8
#1	-.1404	.2425	.9064	22.76
#2	1.232	.2510	.4658	-2.407
#3	-.4863	.1130	.5246	-4.932

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3186.6	39392.	5681.3
Stddev	12.8	151.	110.9
%RSD	.40187	.38319	1.9516
#1	3178.2	39254.	5599.3
#2	3180.2	39368.	5637.1
#3	3201.3	39553.	5807.4

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Batch Number: 362272 Batch Start Date: 04/13/16 07:33 Batch Analyst: Chen, MandiBatch Method: 3050B Batch End Date: 04/13/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00055	ME_LCSS_91 00001	
MB 460-362272/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-362272/2		3050B, 6010C		CALC NOT SET TO RUN	1.03 g	50 mL		1.03 g	
460-111935-A-1 DU		3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	50 mL			
460-111935-A-1 MS		3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	50 mL	2 mL		
460-112001-B-1	A5_N_6	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	50 mL			
460-112001-B-2	A5_N_12	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	50 mL			
460-112001-B-3	A5_S_6	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	50 mL			
460-112001-A-4	A5_S_12	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	50 mL			

Batch Notes	
Balance ID	#35
Hydrogen Peroxide ID	0000135237
Logbook ID for diluted Nitric	MPR278
Lot # of Nitric Acid	0000129810
Hot Block ID	#1
Oven, Bath or Block Temperature 1	95c Degrees C
Pipette ID	#63
Thermometer ID	ICP-4 (CF -1)
Digestion Tube/Cup ID	J227204-6407 (50 ml Dg tube)
Uncorrected Temperature	96c Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112001-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID	Lab Sample ID
<u>A5_N_6</u>	<u>460-112001-1</u>
<u>A5_N_12</u>	<u>460-112001-2</u>
<u>A5_S_6</u>	<u>460-112001-3</u>
<u>A5_S_12</u>	<u>460-112001-4</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112001-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112001-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/12/2016 16:35 End Date: 04/12/2016 18:40

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l	M o i s t																
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
460-111997-A-25 DU	1	T	16:35	X	X																
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
ZZZZZZ			16:35																		
460-112001-1	1	T	18:40	X	X																
460-112001-2	1	T	18:40	X	X																
460-112001-3	1	T	18:40	X	X																
460-112001-4	1	T	18:40	X	X																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112001-1

SDG No.: _____

Batch Number: 362176 Batch Start Date: 04/12/16 16:35 Batch Analyst: Armbruster, ChrisBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-111997-A-25 DU		Moisture	T	178	0.96 g	6.81 g	6.28 g		
460-112001-A-1	A5_N_6	Moisture	T	179	1.01 g	7.16 g	6.51 g		
460-112001-A-2	A5_N_12	Moisture	T	180	1.04 g	7.44 g	6.83 g		
460-112001-A-3	A5_S_6	Moisture	T	181	1.01 g	6.30 g	5.80 g		
460-112001-A-4	A5_S_12	Moisture	T	182	1.02 g	6.19 g	5.58 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	4/12/16
Oven Temp In	106 Degrees C
Time samples were place in the oven	18:42
Date samples were removed from oven	4/13/16
Oven Temp Out	108 Degrees C
Time Samples were removed from oven	08:43
Oven ID	1
Thermometer ID	117036
Uncorrected In Temperature	106 Celsius
Uncorrected Out Temperature	108 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS

460-112001 Chain of Custody



ey 08817
-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice)

IAN HOFMANN

Samplers Name (Printed)

EARL-86

Site/Project Identification

DE-ELMORE 546 / SITE: E130150

Company

EARL

P. O. #

State (Location of site): NJ: ☐ NY: ☒ Other: ☐

Regulatory Program:

DKOP: ☐

Address

225 Atlantic Ave

Analysis Turnaround Time

Standard ☐

Rush Charges Authorized For:

1 Week ☐

2 Week ☐

Other ☒ 24-Hr

ANALYSIS REQUESTED (ENTER % BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:

Job No:

112001

Sample Numbers

Sample Identification

Date

Time

Matrix

No. of Cont.

TOTAL METALS

TCLP METALS

AS-N-6

4/12/16

1400

S

2

X

X

X

X

X

X

X

AS-N-12

1350

S

2

X

X

X

X

X

X

X

X

AS-S-6

1340

S

2

X

X

X

X

X

X

X

X

AS-S-12

1330

S

2

X

X

X

X

X

X

X

X

1-DAY
RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH

6 = Other _____, 7 = Other _____

Soil:

Water:

Special Instructions

ANALYSIS OF METALS - WAIT FOR OR TO ANALYZE TEL

Water Metals Filtered (Yes/No)?

Relinquished by

EARL

Company

EARL

Date / Time

4/12/16

1430

Received by

EARL

Company

EARL

Date / Time

4/12/16

Received by

EARL

Company

EARL

Date / Time

4/12/16

1430

Received by

EARL

Company

EARL

Date / Time

4/12/16

Received by

Relinquished by

EARL

Company

EARL

Date / Time

4/12/16

1430

Received by

EARL

Company

EARL

Date / Time

4/12/16

Received by

Relinquished by

EARL

Company

EARL

Date / Time

4/12/16

1430

Received by

EARL

Company

EARL

Date / Time

4/12/16

Received by

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132),

TAL-0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-112001-1

Login Number: 112001

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2° C IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.