158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L11010116

Client: Larry Duty, 1401 Enclave Parkway, Houston, TX, 77077

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on January 19, 2011.

Stephanie Mossburg

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on January 19, 2011.

David E. Vandenberg

David Vandenberg - Managing Director

State of origin: New Mexico
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 861 pages.

Look closer. Go further. Do more.

Microbac REPORT L11010116
PREPARED FOR Shaw E I, Inc.
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
HTA-IDW-001-0111	L11010116-01	01/05/2011 08:30	01/06/2011

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1888675
Report generated: 01/19/2011 11:07

Login Number: L11010116

Department: Login

Analyst: N/A
Analyst #2: N/A

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
22001	0015410	2.0

Sample Management: Sample HTA-IDW-TB-0111 has headspace >6mm.

Sample Identification

Lab ID	Client ID
L11010116-01	HTA-IDW-001-0111
L11010116-02	HTA-IDW-TB-0111

Narrative ID: 18966
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Login Number: L11010116

Department: Volatiles

Analyst: Mary Schilling

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Trichlorofluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 19155
Approved By: Michael Albertson

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	8260B	1	06-JAN-11

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353371**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **01/07/2011 18:07**
Cal Date: **12/15/2010 14:32**
Run Date: **01/07/2011 18:07**
File ID: **6M96906**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.50	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.50	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	3.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1	4.43	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.50	0.500
Bromomethane	74-83-9		U	3.00	0.500
Carbon disulfide	75-15-0		U	1.50	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.50	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	2.00	0.500
MEK (2-Butanone)	78-93-3		U	10.0	2.50
Methyl t-butyl ether (MTBE)	1634-04-4		U	5.00	0.500
Methylene chloride	75-09-2		U	1.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353371**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **01/07/2011 18:07**
Cal Date: **12/15/2010 14:32**
Run Date: **01/07/2011 18:07**
File ID: **6M96906**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.50	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	97.0	70	120	
4-Bromofluorobenzene	93.6	75	120	
Dibromofluoromethane	94.7	85	115	
Toluene-d8	95.6	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 121510
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 35784

Internal Standard: STD42959 Surrogate Standard: STD42937
CCV: STD43006 LCS: STD42965 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG351532,WG351604

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M96326	RINSE	NA	2	1		12/15/10 08:17
2	6M96327	WG351532-01 50NG BFB STD 8260	NA	1	1	STD42828	12/15/10 09:15
3	6M96328	WG351532-02 0.3ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 09:41
4	6M96329	WG351532-03 0.4ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 10:20
5	6M96330	WG351532-04 1ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 10:51
6	6M96331	WG351532-05 2ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 11:22
7	6M96332	WG351532-06 5ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 11:54
8	6M96333	WG351532-07 20ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 12:25
9	6M96334	WG351532-08 50ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 12:56
10	6M96335	WG351532-09 100ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 13:29
11	6M96336	WG351532-10 200ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 14:00
12	6M96337	WG351532-11 300ug/L WATER STD 8260	NA	1	1	STD43006	12/15/10 14:32
13	6M96338	RINSE	NA	1	1		12/15/10 15:03
14	6M96339	WG351532-12 50ug/L ALT SOURCE	NA	1	1	STD42965	12/15/10 15:34
15	6M96340	RINSE	NA	1	1		12/15/10 16:05
16	6M96341	WG351604-01 VBLK1215 BLANK 8260	NA	1	1		12/15/10 16:37
17	6M96342	WG351604-02 20ug/L LCS 8260	NA	1	1	STD42965	12/15/10 17:08
18	6M96343	WG351604-03 20ug/L LCSDUP 8260	NA	1	1	STD42965	12/15/10 17:40
19	6M96344	L10120369-01 A 826-SPE	7	1	1		12/15/10 18:11
20	6M96345	L10120369-02 A 826-SPE	4	1	1		12/15/10 18:42
21	6M96346	L10120369-03 A 826-SPE	5	1	1		12/15/10 19:13
22	6M96347	L10120369-07 A 826-SPE	<2	1	1		12/15/10 19:45
23	6M96348	L10120369-08 A 826-SPE	7	1	1		12/15/10 20:16
24	6M96349	L10120369-11 A 826-SPE	7	1	1		12/15/10 20:47
25	6M96350	RINSE	NA	1	1		12/15/10 21:19
26	6M96351	WG351604-04 624 BLANK	NA	1	1		12/15/10 21:50
27	6M96352	L10120390-13 A 624	<2	2	1		12/15/10 22:21
28	6M96353	L10120390-05 A 624	<2	2	1		12/15/10 22:52
29	6M96354	L10120390-07 A 624	<2	2	1		12/15/10 23:23
30	6M96355	L10120390-08 A 624	<2	2	1		12/15/10 23:54
31	6M96356	L10120390-09 A 624	<2	2	1		12/16/10 00:26
32	6M96357	L10120390-10 A 624	<2	2	1		12/16/10 00:57
33	6M96358	L10120390-11 A 624	<2	2	1		12/16/10 01:28
34	6M96359	L10120390-12 A 624	<2	2	1		12/16/10 01:59

Approved: December 17, 2010

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 121510
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 35784

Internal Standard: STD42959 Surrogate Standard: STD42937
CCV: STD43006 LCS: STD42965 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG351532,WG351604

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M96360	L10120428-01 A 624	<2	2	1		12/16/10 02:30
36	6M96361	L10120428-02 A 624	<2	2	1		12/16/10 03:01
37	6M96362	L10120428-03 A 624	<2	2	1		12/16/10 03:33
38	6M96363	L10120428-04 A 624	<2	2	1		12/16/10 04:04
39	6M96364	L10120428-05 A 624	<2	2	1		12/16/10 04:35
40	6M96365	RINSE	NA	2	1		12/16/10 05:07
41	6M96366	RINSE	NA	2	1		12/16/10 05:38
42	6M96367	RINSE	NA	2	1		12/16/10 06:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
33	X	10	Over Calibration Range	TCE
File ID: 6M96358				

Approved: December 17, 2010

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 010311
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 35980

Internal Standard: STD42959 Surrogate Standard: STD43146
CCV: STD43238/STD43184 LCS: STD43256 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG352959,WG352992

Comments: Rerun MDLs for methylene chloride,1,3-butadiene, and APPIX.

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M96750	RINSE	NA	1	1		01/03/11 08:10
2	6M96751	RINSE	NA	1	1		01/03/11 08:41
3	6M96752	RINSE	NA	1	1		01/03/11 09:16
4	6M96753	WG352958-01 50NG BFB STD 8260	NA	1	1	STD42828	01/03/11 09:46
5	6M96754	WG352958-01 50NG BFB STD 8260	NA	1	1	STD42828	01/03/11 10:00
6	6M96755	WG352958-02 50ug/L WATER STD 8260	NA	1	1	STD43238	01/03/11 10:25
7	6M96756	WG352958-02 50ug/L WATER STD 8260	NA	1	1	STD43238	01/03/11 10:59
8	6M96757	RINSE	NA	1	1		01/03/11 11:31
9	6M96758	WG352959-01 VBLK0103 BLANK 8260	NA	1	1		01/03/11 12:02
10	6M96759	WG352959-02 20ug/L LCS 8260	NA	1	1	STD43256	01/03/11 12:33
11	6M96760	WG352959-03 20ug/L LCSDUP 8260	NA	1	1	STD43256	01/03/11 13:05
12	6M96761	RINSE	NA	1	1		01/03/11 13:37
12.5	6M96762	L11010003-01 826-SPE	NA	1	1	STD43270	01/03/11 14:13
14	6M96763	L11010006-02 826-SPE	NA	1	1	STD43270	01/03/11 14:45
15	6M96764	L11010006-03 826-SPE	NA	1	1	STD43270	01/03/11 15:18
16	6M96765	L11010006-04 826-SPE	NA	1	1	STD43270	01/03/11 15:50
17	6M96766	L11010006-05 826-SPE	NA	1	1	STD43270	01/03/11 16:22
18	6M96767	L11010006-06 826-SPE	NA	1	1	STD43270	01/03/11 16:54
19	6M96768	L11010006-07 826-SPE	NA	1	1	STD43270	01/03/11 17:27
20	6M96769	L11010006-05 826-SPE	NA	1	1	STD43270	01/03/11 17:59
21	6M96770	WG352992-02 5ug/L APPIX STD	NA	1	1	STD43184	01/03/11 18:30
22	6M96771	WG352992-03 20 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 19:03
23	6M96772	WG352992-04 50 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 19:34
24	6M96773	WG352992-05 100 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 20:06
25	6M96774	WG352992-06 200 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 20:37
26	6M96775	WG352992-07 300 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 21:09
27	6M96776	WG352992-08 400 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 21:40
28	6M96777	WG352992-09 500 ug/L APPIX STD	NA	1	1	STD43184	01/03/11 22:12
29	6M96778	RINSE	NA	1	1		01/03/11 22:43
30	6M96779	RINSE	NA	1	1		01/03/11 23:15

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Approved: January 04, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS6	Dataset:	010311		
Analyst1:	MES	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	14
Method:	624	SOP:	MSV10	Rev:	8
Method:	5030B/5030C/5035A	SOP:	PAT01	Rev:	12
Maintenance Log ID:	35980				

Internal Standard: STD42959 Surrogate Standard: STD43146

CCV: STD43238/STD43184 LCS: STD43256 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG352959,WG352992

Comments: Rerun MDLs for methylene chloride,1,3-butadiene, and APPIX.

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4 File ID: 6M96753				
	RR, BFB failed.			
6 File ID: 6M96755				
	RR for AF40.			

Approved: January 04, 2011

Page: 2

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 010411
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36012

Internal Standard: STD43010 Surrogate Standard: STD43010
CCV: STD43238/STD43184 LCS: STD43256 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG353022

Comments: RR MDLs AND LOD for Isobutanol and cyclohexanone

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M96780	WG353021-01 50NG BFB STD 8260	NA	1	1	STD42828	01/04/11 08:41
2	6M96781	WG353021-01 50NG BFB STD 8260	NA	1	1	STD42828	01/04/11 08:57
3	6M96782	WG353021-02 50ug/L WATER STD 8260	NA	1	1	STD43238	01/04/11 09:24
4	6M96783	WG353023-01 100ug/L APPIX/FOO CCV	NA	1	1	STD43184	01/04/11 09:55
5	6M96784	WG353022-01 VBLK0104 BLANK 8260	NA	1	1		01/04/11 10:27
6	6M96785	WG353022-02 20ug/L LCS 8260	NA	1	1	STD43256	01/04/11 10:59
7	6M96786	WG353022-03 20ug/L LCSDUP 8260	NA	1	1	STD43256	01/04/11 11:30
8	6M96787	WG352992-10 100ug/L APPIX ALT SOURC	NA	1	1	STD43281	01/04/11 12:02
9	6M96788	L10120869-01 B D1 10X 826-SPE	<2	1	10		01/04/11 12:35
10	6M96789	L10120869-04 B D1 10X 826-SPE	<2	1	10		01/04/11 13:07
11	6M96790	L10120881-01 B D1 826-SPE	<2	1	1		01/04/11 13:39
12	6M96791	L10120869-02 B 826-SPE	<2	1	1		01/04/11 14:11
13	6M96792	L11010006-01 826-SPE	NA	1	1	STD43270	01/04/11 14:43
14	6M96793	L11010006-02 826-SPE	NA	1	1	STD43270	01/04/11 15:16
15	6M96794	L11010006-03 826-SPE	NA	1	1	STD43270	01/04/11 15:49
16	6M96795	L11010006-04 826-SPE	NA	1	1	STD43270	01/04/11 16:21
17	6M96796	L11010006-05 826-SPE	NA	1	1	STD43270	01/04/11 16:54
18	6M96797	L11010006-06 826-SPE	NA	1	1	STD43270	01/04/11 17:27
19	6M96798	L11010006-07 826-SPE	NA	1	1	STD43270	01/04/11 17:59
20	6M96799	L11010001-01 826-SPE	NA	1	1	STD43270	01/04/11 18:31
21	6M96800	L10120854-11 A 8260	<2	1	1		01/04/11 19:03
22	6M96801	L10120854-12 A 8260	<2	1	1		01/04/11 19:35
23	6M96802	L10120854-13 A 8260	<2	1	1		01/04/11 20:07
24	6M96803	L10120857-01 A 10X 826-TC	NA	17	10		01/04/11 20:38
25	6M96804	RINSE	NA	1	1		01/04/11 21:10
26	6M96805	WG353022-04 624 BLANK	NA	1	1		01/04/11 21:41
27	6M96806	L11010013-29 A 624-SPE	7	2	1		01/04/11 22:13
28	6M96807	L11010013-01 A 624-SPE	7	2	1		01/04/11 22:44
29	6M96808	L11010013-02 A 624-SPE	7	2	1		01/04/11 23:15
30	6M96809	L11010013-03 A 624-SPE	7	2	1		01/04/11 23:47
31	6M96810	L11010013-04 A 624-SPE	7	2	1		01/05/11 00:18
32	6M96811	L11010013-05 A 624-SPE	7	2	1		01/05/11 00:50
33	6M96812	L11010013-24 A 624-SPE	7	2	1		01/05/11 01:21
34	6M96813	L11010013-25 A 624-SPE	7	2	1		01/05/11 01:52

Approved: January 06, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 010411
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36012

Internal Standard: STD43010 Surrogate Standard: STD43010
CCV: STD43238/STD43184 LCS: STD43256 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG353022

Comments: RR MDLs AND LOD for Isobutanol and cyclohexanone

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M96814	L11010013-26 A 624-SPE	7	2	1		01/05/11 02:23
36	6M96815	L11010013-27 A 624-SPE	7	2	1		01/05/11 02:54
37	6M96816	L11010013-28 A 624-SPE	7	2	1		01/05/11 03:26
38	6M96817	RINSE	NA	1	1		01/05/11 03:57
39	6M96818	L10120549-04 B 826-REF-BLK	<2	1	1		01/05/11 04:28
40	6M96819	LCS STUDY 10/19/10	NA	1	1		01/05/11 05:00
41	6M96820	LCS STUDY 10/19/10	NA	1	1		01/05/11 05:32
42	6M96821	RINSE	NA	1	1		01/05/11 06:03
43	6M96822	RINSE	NA	1	1		01/05/11 06:34

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1 File ID: 6M96780				
	RR, BFB failed.			

Approved: January 06, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 010711
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36048

Internal Standard: STD43177 Surrogate Standard: STD43146
CCV: STD43299 LCS: STD43256 MS/MSD: STD43256

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG353371

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M96888	WG353370-01 BFB 50ng 8260	NA	1	1	STD43280	01/07/11 08:48
2	6M96889	WG353370-02 50ug/L CCV 8260	NA	1	1	STD43299	01/07/11 09:14
3	6M96890	RINSE	NA	1	1		01/07/11 09:46
4	6M96891	WG353371-01 VBLK0107 BLANK 8260	NA	1	1		01/07/11 10:17
5	6M96892	WG353371-02 20ug/L LCS 8260	NA	1	1	STD43256	01/07/11 10:48
6	6M96893	L11010130-15 A 826-SPE	<	1	1		01/07/11 11:19
7	6M96894	L11010116-02 A 826-SPE	<	1	1		01/07/11 11:51
8	6M96895	L11010086-01 B 826-SPE1	<	1	1		01/07/11 12:23
9	6M96896	L11010086-02 B 2X 826-SPE1	<	1	2		01/07/11 12:54
10	6M96897	L11010130-13 A 826-SPE	<	1	1		01/07/11 13:25
11	6M96898	L11010130-01 A 826-SPE	<	1	1		01/07/11 13:56
12	6M96899	L11010130-02 A 826-SPE	<	1	1		01/07/11 14:27
13	6M96900	L11010085-02 A 826-SPE	<	1	1		01/07/11 14:59
14	6M96901	L11010130-03 MS A 826-SPE	<	1	1	STD43256	01/07/11 15:30
15	6M96902	L11010130-04 MSD A 826-SPE	<	1	1	STD43256	01/07/11 16:01
16	6M96903	L11010085-03 MS A 826-SPE	<	1	1	STD43256	01/07/11 16:32
17	6M96904	L11010085-04 MSD A 826-SPE	<	1	1	STD43256	01/07/11 17:04
18	6M96905	L11010112-01 A 826-BETX	<	1	1		01/07/11 17:36
19	6M96906	L11010116-01 A 826-SPE	<	1	1		01/07/11 18:07
20	6M96907	L11010037-20 B 8260	<	1	1		01/07/11 18:39
21	6M96908	L11010037-24 A 8260	<	1	1		01/07/11 19:11
22	6M96909	L11010042-01 A 8260	<	1	1		01/07/11 19:43
23	6M96910	L11010043-01 A 8260	<	1	1		01/07/11 20:14
24	6M96911	RINSE	NA	1	1		01/07/11 20:46
25	6M96912	RINSE	NA	1	1		01/07/11 21:18
26	6M96913	WG353371-09 624 BLANK	NA	1	1		01/07/11 21:49
27	6M96914	L11010041-02 B 624	<2	2	1		01/07/11 22:20
28	6M96915	L11010123-01 A 624-SPE	7	2	1		01/07/11 22:52
29	6M96916	RINSE	NA	1	1		01/07/11 23:23
30	6M96917	L10120734-01 A 826-REF-BLK	<2	1	1		01/07/11 23:55
31	6M96918	L10120734-02 A 826-REF-BLK	<2	1	1		01/08/11 00:27
32	6M96919	L10120734-03 A 826-REF-BLK	<2	1	1		01/08/11 00:58
33	6M96920	L10120734-04 A 826-REF-BLK	<2	1	1		01/08/11 01:29
34	6M96921	RINSE	NA	1	1		01/08/11 02:00

Approved: January 10, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 010711
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36048

Internal Standard: STD43177 Surrogate Standard: STD43146
CCV: STD43299 LCS: STD43256 MS/MSD: STD43256

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG353371

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M96922	RINSE	NA	1	1		01/08/11 02:32
36	6M96923	L11010176-01 A 826-SPE	7	1	1		01/08/11 03:04

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7 File ID: 6M96894				
	sample was cancelled.			
30 File ID: 6M96917				
	RR for chloromethane			

Approved: January 10, 2011

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Microbac Laboratories Inc.

Data Checklist

Date: 15-DEC-2010
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 38111
Analytical Workgroups: WG351532,WG351604

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	X
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-DEC-2010

Secondary Reviewer:
17-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-20-2010 16:02:54

Microbac Laboratories Inc.

Data Checklist

Date: 03-JAN-2011
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 38364
Analytical Workgroups: WG352959,WG352992

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
04-JAN-2011

Secondary Reviewer:
04-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-04-2011 15:12:56

Microbac Laboratories Inc.

Data Checklist

Date: 04-JAN-2011
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 38411
Analytical Workgroups: WG353022

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
06-JAN-2011

Secondary Reviewer:
06-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-06-2011 15:00:31

Microbac Laboratories Inc.

Data Checklist

Date: 07-JAN-2011
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 38457
Analytical Workgroups: WG353371

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
10-JAN-2011

Secondary Reviewer:
10-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-10-2011 16:00:36

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG353371

Login Number: L11010116

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
HTA-IDW-001-0111	01	01/05/11							14		01/07/11	2.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1889210
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11010116
Instrument Id: HPMS6
Workgroup (AAB#): WG353371

Method: 8260
CAL ID: HPMS6-15-DEC-10
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L11010116-01	1.00	01	97.0	94.7	93.6	95.6
WG353371-01	1.00	01	92.1	94.9	94.9	96.2
WG353371-02	1.00	01	96.1	95.6	97.8	97.7
WG353371-09	1.00	01	96.4	98.0	91.3	95.2

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1888350
Report generated: 01/11/2011 10:10

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: 6M96891
Prep Date: 01/07/11 10:17
Analyzed Date: 01/07/11 10:17
Analyst: MES

Work Group: WG353371
Blank Sample ID: WG353371-01
Instrument ID: HPMS6
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353371-02	6M96892	01/07/11 10:48	01
HTA-IDW-001-0111	L11010116-01	6M96906	01/07/11 18:07	01

Report Name: BLANK_SUMMARY
PDF File ID: 1889211
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 10:17 Sample ID: WG353371-01
Instrument ID: HPMS6 Run Date: 01/07/11 10:17 Prep Method: 5030B/5030C/503
File ID: 6M96891 Analyst: MES Method: 8260B
Workgroup (AAB#): WG353371 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-15-DEC-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.50	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,3-Trichloropropane	0.500	1.50	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	3.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
2-Hexanone	2.50	10.0	2.50	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.50	0.500	1	U
Bromomethane	0.500	3.00	0.500	1	U
Carbon disulfide	0.500	1.50	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.50	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U

Report Name: BLANK
PDF ID: 1889212
11-JAN-2011 10:10

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 10:17 Sample ID: WG353371-01
Instrument ID: HPMS6 Run Date: 01/07/11 10:17 Prep Method: 5030B/5030C/503
File ID: 6M96891 Analyst: MES Method: 8260B
Workgroup (AAB#): WG353371 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-15-DEC-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U
MEK (2-Butanone)	2.50	10.0	2.50	1	U
Methyl t-butyl ether (MTBE)	0.500	5.00	0.500	1	U
Methylene chloride	0.250	1.00	0.250	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.50	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	92.1	70 - 120	PASS
4-Bromofluorobenzene	94.9	75 - 120	PASS
Dibromofluoromethane	94.9	85 - 115	PASS
Toluene-d8	96.2	85 - 120	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name: BLANK
PDF ID: 1889212
11-JAN-2011 10:10

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353371-02
Instrument ID: HPMS6 Run Time: 10:48 Prep Method: 5030B/5030C/503
File ID: 6M96892 Analyst: MES Method: 8260B
Workgroup (AAB#): WG353371 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD43256 Cal ID: HPMS6-15-DEC-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1,2-Tetrachloroethane	20.0	21.3	107	80 - 130	
1,1,1-Trichloroethane	20.0	21.5	107	65 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.3	107	65 - 130	
1,1,2-Trichloroethane	20.0	20.9	105	75 - 125	
1,1-Dichloroethane	20.0	20.9	105	70 - 135	
1,1-Dichloroethene	20.0	20.0	100	70 - 130	
1,1-Dichloropropene	20.0	21.6	108	75 - 130	
1,2,3-Trichlorobenzene	20.0	20.8	104	55 - 140	
1,2,3-Trichloropropane	20.0	20.7	104	75 - 125	
1,2,4-Trichlorobenzene	20.0	19.6	98.2	65 - 135	
1,2,4-Trimethylbenzene	20.0	21.6	108	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	19.1	95.3	50 - 130	
1,2-Dibromoethane	20.0	21.4	107	80 - 120	
1,2-Dichlorobenzene	20.0	20.2	101	70 - 120	
1,2-Dichloroethane	20.0	21.2	106	70 - 130	
1,2-Dichloropropane	20.0	21.3	106	75 - 125	
1,3,5-Trimethylbenzene	20.0	21.9	110	75 - 130	
1,3-Dichlorobenzene	20.0	20.5	103	75 - 125	
1,3-Dichloropropane	20.0	20.7	104	75 - 125	
1,4-Dichlorobenzene	20.0	20.4	102	75 - 125	
2,2-Dichloropropane	20.0	20.8	104	70 - 135	
2-Chlorotoluene	20.0	20.3	101	75 - 125	
2-Hexanone	20.0	19.8	98.8	55 - 130	
4-Chlorotoluene	20.0	21.7	108	75 - 130	
4-Methyl-2-pentanone	20.0	19.8	98.9	60 - 135	
Acetone	20.0	20.2	101	40 - 140	
Benzene	20.0	21.6	108	80 - 120	
Bromobenzene	20.0	20.4	102	75 - 125	
Bromochloromethane	20.0	20.6	103	65 - 130	
Bromodichloromethane	20.0	21.3	106	75 - 120	
Bromoform	20.0	19.4	97.2	70 - 130	
Bromomethane	20.0	19.8	99.1	30 - 145	
Carbon disulfide	20.0	21.0	105	35 - 160	
Carbon tetrachloride	20.0	21.7	109	65 - 140	
Chlorobenzene	20.0	20.1	101	80 - 120	
Chlorodibromomethane	20.0	20.2	101	60 - 135	
Chloroethane	20.0	25.6	128	60 - 135	
Chloroform	20.0	20.7	104	65 - 135	
Chloromethane	20.0	24.2	121	40 - 125	
cis-1,2-Dichloroethene	20.0	21.7	108	70 - 125	
cis-1,3-Dichloropropene	20.0	21.6	108	70 - 130	

LCS - Modified 03/06/2008
PDF File ID: 1888346
Report generated: 01/11/2011 10:10

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353371-02
Instrument ID: HPMS6 Run Time: 10:48 Prep Method: 5030B/5030C/503
File ID: 6M96892 Analyst: MES Method: 8260B
Workgroup (AAB#): WG353371 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD43256 Cal ID: HPMS6-15-DEC-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Dibromomethane	20.0	21.1	105	75 - 125	
Dichlorodifluoromethane	20.0	31.2	156	30 - 155	*
Ethylbenzene	20.0	21.2	106	75 - 125	
Hexachlorobutadiene	20.0	19.1	95.7	50 - 140	
Isopropylbenzene	20.0	18.4	92.0	75 - 125	
m-,p-Xylene	40.0	42.4	106	75 - 130	
MEK (2-Butanone)	20.0	20.9	104	30 - 150	
Methyl t-butyl ether (MTBE)	20.0	19.4	97.0	65 - 125	
Methylene chloride	20.0	20.2	101	55 - 140	
n-Butylbenzene	20.0	21.9	110	70 - 135	
n-Propylbenzene	20.0	21.4	107	70 - 130	
Naphthalene	20.0	22.0	110	55 - 140	
o-Xylene	20.0	20.9	104	80 - 120	
p-Isopropyltoluene	20.0	20.0	100	75 - 130	
sec-Butylbenzene	20.0	21.3	106	70 - 125	
Styrene	20.0	21.3	106	65 - 135	
tert-Butylbenzene	20.0	20.8	104	70 - 130	
Tetrachloroethene	20.0	20.2	101	45 - 150	
Toluene	20.0	20.9	105	75 - 120	
trans-1,2-Dichloroethene	20.0	21.2	106	60 - 140	
trans-1,3-Dichloropropene	20.0	19.9	99.6	55 - 140	
Trichloroethene	20.0	21.5	108	70 - 125	
Trichlorofluoromethane	20.0	25.6	128	60 - 145	
Vinyl chloride	20.0	27.4	137	50 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	96.1	70 - 120	PASS
4-Bromofluorobenzene	97.8	75 - 120	PASS
Dibromofluoromethane	95.6	85 - 115	PASS
Toluene-d8	97.7	85 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1888346
Report generated: 01/11/2011 10:10

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11010116
Instrument: HPMS6
Analyst: MES
Workgroup: WG351532

Tune ID: WG351532-01
Run Date: 12/15/2010
Run Time: 09:15
File ID: 6M96327
Cal ID: HPMS6 - 15-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.4	7467	PASS
75.0	95.0	30.0	60.0	48.7	16220	PASS
95.0	95.0	100	100	100	33317	PASS
96.0	95.0	5.00	9.00	5.57	1856	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	93.1	31002	PASS
175	174	5.00	9.00	6.36	1972	PASS
176	174	95.0	101	97.5	30216	PASS
177	176	5.00	9.00	7.02	2122	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG351532-02	STD	01	12/15/2010 09:41	
WG351532-03	STD	01	12/15/2010 10:20	
WG351532-04	STD	01	12/15/2010 10:51	
WG351532-05	STD	01	12/15/2010 11:22	
WG351532-06	STD	01	12/15/2010 11:54	
WG351532-07	STD	01	12/15/2010 12:25	
WG351532-08	STD-CCV	01	12/15/2010 12:56	
WG351532-09	STD	01	12/15/2010 13:29	
WG351532-10	STD	01	12/15/2010 14:00	
WG351532-11	STD	01	12/15/2010 14:32	
WG351532-12	SSCV	01	12/15/2010 15:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1889214
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11010116
Instrument: HPMS6
Analyst: MES
Workgroup: WG352958

Tune ID: WG352958-01
Run Date: 01/03/2011
Run Time: 10:00
File ID: 6M96754
Cal ID: HPMS6 - 15-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.8	15788	PASS
75.0	95.0	30.0	60.0	46.0	33309	PASS
95.0	95.0	100	100	100	72424	PASS
96.0	95.0	5.00	9.00	6.81	4935	PASS
173	174	0	2.00	0.910	562	PASS
174	95.0	50.0	100	85.3	61757	PASS
175	174	5.00	9.00	6.88	4249	PASS
176	174	95.0	101	97.6	60296	PASS
177	176	5.00	9.00	6.25	3771	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG352992-02	STD	01	01/03/2011 18:30	
WG352992-03	STD	01	01/03/2011 19:03	
WG352992-04	STD	01	01/03/2011 19:34	
WG352992-05	STD-CCV	01	01/03/2011 20:06	
WG352992-06	STD	01	01/03/2011 20:37	
WG352992-07	STD	01	01/03/2011 21:09	
WG352992-08	STD	01	01/03/2011 21:40	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1889214
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11010116
Instrument: HPMS6
Analyst: MES
Workgroup: WG353021

Tune ID: WG353021-01
Run Date: 01/04/2011
Run Time: 08:57
File ID: 6M96781
Cal ID: HPMS6 - 15-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.0	13919	PASS
75.0	95.0	30.0	60.0	45.0	28501	PASS
95.0	95.0	100	100	100	63349	PASS
96.0	95.0	5.00	9.00	6.84	4334	PASS
173	174	0	2.00	0.898	465	PASS
174	95.0	50.0	100	81.8	51792	PASS
175	174	5.00	9.00	8.17	4229	PASS
176	174	95.0	101	99.8	51714	PASS
177	176	5.00	9.00	6.36	3288	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG352992-10	SSCV	01	01/04/2011 12:02	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1889214
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11010116
Instrument: HPMS6
Analyst: MES
Workgroup: WG353370

Tune ID: WG353370-01
Run Date: 01/07/2011
Run Time: 08:48
File ID: 6M96888
Cal ID: HPMS6 - 15-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.5	7009	PASS
75.0	95.0	30.0	60.0	45.4	15572	PASS
95.0	95.0	100	100	100	34266	PASS
96.0	95.0	5.00	9.00	6.97	2390	PASS
173	174	0	2.00	0.821	235	PASS
174	95.0	50.0	100	83.6	28640	PASS
175	174	5.00	9.00	7.62	2182	PASS
176	174	95.0	101	98.6	28248	PASS
177	176	5.00	9.00	6.46	1826	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG353370-02	CCV	01	01/07/2011 09:14	
WG353371-01	BLANK	01	01/07/2011 10:17	
WG353371-02	LCS	01	01/07/2011 10:48	
WG353371-06	REF	01	01/07/2011 14:27	
WG353371-03	REF	01	01/07/2011 14:59	
WG353371-07	MS	01	01/07/2011 15:30	
WG353371-08	MSD	01	01/07/2011 16:01	
WG353371-04	MS	01	01/07/2011 16:32	
WG353371-05	MSD	01	01/07/2011 17:04	
L11010116-01	HTA-IDW-001-0111	01	01/07/2011 18:07	
WG353371-09	BLANK2	01	01/07/2011 21:49	*

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1889214
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 8260B
ICAL Workgroup: WG351532

Instrument ID: HPMS6
Initial Calibration Date: 15-DEC-10 14:32
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
1,1-Dichloroethene	CCC	0.3978	6.69		
1,2-Dichloropropane	CCC	0.2389	6.38		
Chloroform	CCC	0.4424	3.28		
Ethylbenzene	CCC	0.4658	6.86		
Toluene	CCC	1.284	1.32		
Vinyl Chloride	CCC	0.2355	7.95		
1,1,2,2-Tetrachloroethane	SPCC	0.3557	9.85		
1,1-Dichloroethane	SPCC	0.4547	4.82		
Bromoform	SPCC	0.1583	13.4		
Chlorobenzene	SPCC	0.9087	2.50		
Chloromethane	SPCC	0.3452	6.25		
1,1,1,2-Tetrachloroethane		0.3211	12.0		
1,1,1-Trichloroethane		0.4090	7.15		
1,1,2-Trichloroethane		0.1966	6.43		
1,1-Dichloropropene		0.3356	6.76		
1,2,3-Trichlorobenzene		0.7026	6.85		
1,2,3-Trichloropropane		0.1138	12.8		
1,2,4-Trichlorobenzene		0.8919	4.53		
1,2,4-Trimethylbenzene		2.287	4.56		
1,2-Dibromo-3-Chloropropane		0.06068	4.15		
1,2-Dibromoethane		0.2005	11.7		
1,2-Dichlorobenzene		1.246	5.01		
1,2-Dichloroethane		0.3010	5.29		
1,3,5-Trimethylbenzene		2.221	6.52		
1,3-Dichlorobenzene		1.422	5.38		
1,3-Dichloropropane		0.3321	6.85		
1,4-Dichlorobenzene		1.448	4.18		
2,2-Dichloropropane		0.3948	5.74		
2-Butanone		0.05670	4.09		
2-Chlorotoluene		1.979	5.50		
2-Hexanone		0.1001	5.23		
4-Chlorotoluene		1.873	4.36		
4-Methyl-2-Pentanone		0.04382	3.52		
Acetone		0.03767	6.47		
Benzene		0.9393	2.33		
Bromobenzene		0.7431	3.27		
Bromochloromethane		0.1579	6.01		
Bromodichloromethane		0.3016	9.39		
Bromomethane		0.1842	15.8	0.99900	
Carbon Disulfide		0.7133	3.30		
Carbon Tetrachloride		0.4038	10.0		
Chloroethane		0.1589	5.92		
Dibromochloromethane		0.2753	11.6		
Dibromomethane		0.1117	17.9	0.99900	
Dichlorodifluoromethane		0.2916	6.38		

INT_CAL - Modified 03/06/2008
PDF File ID: 1889213
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 8260B
ICAL Workgroup: WG351532

Instrument ID: HPMS6
Initial Calibration Date: 15-DEC-10 14:32
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Hexachlorobutadiene		0.4205	7.58		
Isopropylbenzene		1.417	5.42		
Methyl Tert Butyl Ether		0.4601	4.10		
Methylene Chloride		0.2409	6.59		
Naphthalene		1.206	6.45		
Styrene		0.8793	10.2		
Tetrachloroethene		0.3795	3.02		
Trichloroethene		0.2893	5.99		
Trichlorofluoromethane		0.4148	14.3		
cis-1,2-Dichloroethene		0.2719	2.37		
cis-1,3-Dichloropropene		0.3426	6.99		
m-,p-Xylene		0.5627	6.42		
n-Butylbenzene		2.095	6.93		
n-Propylbenzene		3.140	5.62		
o-Xylene		0.5402	5.58		
p-Isopropyltoluene		2.493	8.44		
sec-Butylbenzene		2.811	5.91		
tert-Butylbenzene		0.5100	6.20		
trans-1,2-Dichloroethene		0.2500	6.28		
trans-1,3-Dichloropropene		0.3590	9.91		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

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INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-02			WG351532-03			WG351532-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4078.00000	0.3412	1.00	11738.0000	0.3955
1,2-Dichloropropane	NA	NA	NA	0.400	2456.00000	0.2055	1.00	6969.00000	0.2348
Chloroform	0.300	4435.00000	0.4610	0.400	5404.00000	0.4521	1.00	12261.0000	0.4131
Ethylbenzene	NA	NA	NA	0.400	3759.00000	0.4052	1.00	10099.0000	0.4383
Toluene	NA	NA	NA	0.400	11840.0000	1.276	1.00	29462.0000	1.279
Vinyl Chloride	NA	NA	NA	0.400	2469.00000	0.2066	1.00	7797.00000	0.2627
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1409.00000	0.2977	1.00	3598.00000	0.3110
1,1-Dichloroethane	NA	NA	NA	0.400	4923.00000	0.4119	1.00	13080.0000	0.4407
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2602.00000	0.1129
Chlorobenzene	NA	NA	NA	0.400	8606.00000	0.9276	1.00	21024.0000	0.9124
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	11511.0000	0.3878
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	2332.00000	0.2514	1.00	6303.00000	0.2735
1,1,1-Trichloroethane	NA	NA	NA	0.400	4159.00000	0.3480	1.00	11851.0000	0.3993
1,1,2-Trichloroethane	NA	NA	NA	0.400	1933.00000	0.2083	1.00	3917.00000	0.1700
1,1-Dichloropropene	NA	NA	NA	0.400	3570.00000	0.2987	1.00	8940.00000	0.3012
1,2,3-Trichlorobenzene	0.300	2136.00000	0.5872	0.400	3226.00000	0.6817	1.00	8063.00000	0.6970
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	954.000000	0.08250
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	3829.00000	0.8091	1.00	9938.00000	0.8591
1,2,4-Trimethylbenzene	NA	NA	NA	0.400	10335.0000	2.184	1.00	24717.0000	2.137
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	1371.00000	0.1478	1.00	4269.00000	0.1853
1,2-Dichlorobenzene	0.300	4641.00000	1.276	0.400	5569.00000	1.177	1.00	13180.0000	1.139
1,2-Dichloroethane	NA	NA	NA	0.400	3341.00000	0.2795	1.00	8366.00000	0.2819
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	9330.00000	1.972	1.00	24248.0000	2.096
1,3-Dichlorobenzene	NA	NA	NA	0.400	5918.00000	1.251	1.00	16169.0000	1.398
1,3-Dichloropropane	NA	NA	NA	0.400	2640.00000	0.2846	1.00	7287.00000	0.3163
1,4-Dichlorobenzene	0.300	4905.00000	1.348	0.400	6714.00000	1.419	1.00	16076.0000	1.390
2,2-Dichloropropane	NA	NA	NA	0.400	4226.00000	0.3536	1.00	11307.0000	0.3809
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	0.400	8868.00000	1.874	1.00	22728.0000	1.965
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	8179.00000	1.728	1.00	20379.0000	1.762
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	11187.0000	0.9360	1.00	27282.0000	0.9191
Bromobenzene	0.300	2725.00000	0.7491	0.400	3459.00000	0.7309	1.00	8262.00000	0.7142
Bromochloromethane	NA	NA	NA	0.400	1725.00000	0.1443	1.00	4572.00000	0.1540
Bromodichloromethane	NA	NA	NA	0.400	2882.00000	0.2411	1.00	8424.00000	0.2838
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	6958.00000	0.2344
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	20396.0000	0.6872
Carbon Tetrachloride	NA	NA	NA	0.400	3822.00000	0.3198	1.00	11252.0000	0.3791
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	4544.00000	0.1531

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INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-05			WG351532-06			WG351532-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	23106.0000	0.3902	5.00	56512.0000	0.3945	20.0	245251.000	0.4253
1,2-Dichloropropane	2.00	14200.0000	0.2398	5.00	33791.0000	0.2359	20.0	145024.000	0.2515
Chloroform	2.00	25879.0000	0.4370	5.00	62423.0000	0.4357	20.0	259933.000	0.4507
Ethylbenzene	2.00	20610.0000	0.4479	5.00	53940.0000	0.4836	20.0	220031.000	0.4816
Toluene	2.00	58202.0000	1.265	5.00	142599.000	1.278	20.0	596514.000	1.306
Vinyl Chloride	2.00	12994.0000	0.2194	5.00	35472.0000	0.2476	20.0	143243.000	0.2484
1,1,2,2-Tetrachloroethane	2.00	9115.00000	0.3923	5.00	22653.0000	0.3910	20.0	85534.0000	0.3683
1,1-Dichloroethane	2.00	26937.0000	0.4549	5.00	67134.0000	0.4686	20.0	276698.000	0.4798
Bromoform	2.00	6990.00000	0.1519	5.00	18525.0000	0.1661	20.0	76367.0000	0.1672
Chlorobenzene	2.00	40771.0000	0.8860	5.00	105481.000	0.9456	20.0	416145.000	0.9109
Chloromethane	2.00	18726.0000	0.3162	5.00	49638.0000	0.3465	20.0	201363.000	0.3492
1,1,1,2-Tetrachloroethane	2.00	14466.0000	0.3144	5.00	38424.0000	0.3445	20.0	155657.000	0.3407
1,1,1-Trichloroethane	2.00	23392.0000	0.3950	5.00	58759.0000	0.4102	20.0	251306.000	0.4358
1,1,2-Trichloroethane	2.00	9001.00000	0.1956	5.00	23359.0000	0.2094	20.0	91943.0000	0.2012
1,1-Dichloropropene	2.00	20305.0000	0.3429	5.00	49049.0000	0.3424	20.0	204239.000	0.3542
1,2,3-Trichlorobenzene	2.00	16471.0000	0.7090	5.00	43243.0000	0.7464	20.0	167728.000	0.7221
1,2,3-Trichloropropane	2.00	2961.00000	0.1275	5.00	7033.00000	0.1214	20.0	27027.0000	0.1164
1,2,4-Trichlorobenzene	2.00	20944.0000	0.9015	5.00	53424.0000	0.9222	20.0	208345.000	0.8970
1,2,4-Trimethylbenzene	2.00	50627.0000	2.179	5.00	135470.000	2.338	20.0	552676.000	2.380
1,2-Dibromo-3-Chloropropane	2.00	1439.00000	0.06190	5.00	3251.00000	0.05610	20.0	13779.0000	0.05930
1,2-Dibromoethane	2.00	9541.00000	0.2073	5.00	23575.0000	0.2113	20.0	96409.0000	0.2110
1,2-Dichlorobenzene	2.00	29525.0000	1.271	5.00	78238.0000	1.351	20.0	293854.000	1.265
1,2-Dichloroethane	2.00	17601.0000	0.2972	5.00	42770.0000	0.2985	20.0	187142.000	0.3245
1,3,5-Trimethylbenzene	2.00	49203.0000	2.118	5.00	130103.000	2.246	20.0	548542.000	2.362
1,3-Dichlorobenzene	2.00	33457.0000	1.440	5.00	85743.0000	1.480	20.0	342802.000	1.476
1,3-Dichloropropane	2.00	15251.0000	0.3314	5.00	39520.0000	0.3543	20.0	158952.000	0.3479
1,4-Dichlorobenzene	2.00	34121.0000	1.469	5.00	89355.0000	1.542	20.0	347272.000	1.495
2,2-Dichloropropane	2.00	23038.0000	0.3891	5.00	54787.0000	0.3824	20.0	242558.000	0.4206
2-Butanone	NA	NA	NA	5.00	7784.00000	0.05430	20.0	34221.0000	0.05930
2-Chlorotoluene	2.00	43231.0000	1.861	5.00	120039.000	2.072	20.0	487918.000	2.101
2-Hexanone	NA	NA	NA	5.00	10270.0000	0.09210	20.0	46884.0000	0.1026
4-Chlorotoluene	2.00	44769.0000	1.927	5.00	111475.000	1.924	20.0	436706.000	1.880
4-Methyl-2-Pentanone	NA	NA	NA	5.00	6331.00000	0.04420	20.0	25248.0000	0.04380
Acetone	NA	NA	NA	5.00	5453.00000	0.03810	20.0	23299.0000	0.04040
Benzene	2.00	54605.0000	0.9221	5.00	134526.000	0.9390	20.0	561370.000	0.9734
Bromobenzene	2.00	17012.0000	0.7323	5.00	45263.0000	0.7813	20.0	179105.000	0.7711
Bromochloromethane	2.00	8897.00000	0.1502	5.00	23844.0000	0.1664	20.0	96765.0000	0.1678
Bromodichloromethane	2.00	18093.0000	0.3055	5.00	42830.0000	0.2990	20.0	186606.000	0.3236
Bromomethane	2.00	12153.0000	0.2052	5.00	28058.0000	0.1959	20.0	100977.000	0.1751
Carbon Disulfide	2.00	40967.0000	0.6918	5.00	102624.000	0.7163	20.0	426945.000	0.7403
Carbon Tetrachloride	2.00	23136.0000	0.3907	5.00	58504.0000	0.4084	20.0	250951.000	0.4352
Chloroethane	2.00	8989.00000	0.1518	5.00	23848.0000	0.1665	20.0	97434.0000	0.1690

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INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-08			WG351532-09			WG351532-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	603978.000	0.4239	100	1203494.00	0.4136	200	2380819.00	0.3985
1,2-Dichloropropane	50.0	361686.000	0.2538	100	723396.000	0.2486	200	1440244.00	0.2410
Chloroform	50.0	646898.000	0.4540	100	1295125.00	0.4451	200	2584122.00	0.4325
Ethylbenzene	50.0	554768.000	0.4857	100	1123017.00	0.4973	200	2226909.00	0.4868
Toluene	50.0	1474044.00	1.291	100	2962262.00	1.312	200	5804864.00	1.269
Vinyl Chloride	50.0	349949.000	0.2456	100	675580.000	0.2322	200	1323751.00	0.2215
1,1,2,2-Tetrachloroethane	50.0	221984.000	0.3744	100	426603.000	0.3635	200	825862.000	0.3470
1,1-Dichloroethane	50.0	674670.000	0.4735	100	1347177.00	0.4630	200	2661792.00	0.4455
Bromoform	50.0	198630.000	0.1739	100	388935.000	0.1722	200	750060.000	0.1640
Chlorobenzene	50.0	1039536.00	0.9101	100	2044350.00	0.9053	200	3988108.00	0.8718
Chloromethane	50.0	485958.000	0.3411	100	985402.000	0.3386	200	2015050.00	0.3372
1,1,1,2-Tetrachloroethane	50.0	398075.000	0.3485	100	798361.000	0.3535	200	1564195.00	0.3419
1,1,1-Trichloroethane	50.0	621616.000	0.4363	100	1251004.00	0.4299	200	2495404.00	0.4176
1,1,2-Trichloroethane	50.0	229420.000	0.2009	100	448442.000	0.1986	200	863178.000	0.1887
1,1-Dichloropropene	50.0	506594.000	0.3555	100	1016460.00	0.3493	200	2034365.00	0.3405
1,2,3-Trichlorobenzene	50.0	432923.000	0.7301	100	871908.000	0.7429	200	1683537.00	0.7074
1,2,3-Trichloropropane	50.0	71179.0000	0.1200	100	136616.000	0.1164	200	267851.000	0.1125
1,2,4-Trichlorobenzene	50.0	536328.000	0.9045	100	1101619.00	0.9386	200	2150209.00	0.9034
1,2,4-Trimethylbenzene	50.0	1414329.00	2.385	100	2802495.00	2.388	200	5483876.00	2.304
1,2-Dibromo-3-Chloropropane	50.0	36976.0000	0.06240	100	72989.0000	0.06220	200	148066.000	0.06220
1,2-Dibromoethane	50.0	247068.000	0.2163	100	488909.000	0.2165	200	952109.000	0.2081
1,2-Dichlorobenzene	50.0	754528.000	1.272	100	1476908.00	1.258	200	2876975.00	1.209
1,2-Dichloroethane	50.0	452779.000	0.3178	100	902660.000	0.3102	200	1783147.00	0.2984
1,3,5-Trimethylbenzene	50.0	1391118.00	2.346	100	2774707.00	2.364	200	5387089.00	2.263
1,3-Dichlorobenzene	50.0	870852.000	1.469	100	1715869.00	1.462	200	3325277.00	1.397
1,3-Dichloropropane	50.0	398049.000	0.3485	100	772887.000	0.3422	200	1517580.00	0.3318
1,4-Dichlorobenzene	50.0	881849.000	1.487	100	1725764.00	1.470	200	3355199.00	1.410
2,2-Dichloropropane	50.0	590069.000	0.4141	100	1208465.00	0.4153	200	2401930.00	0.4020
2-Butanone	50.0	84023.0000	0.05900	100	166433.000	0.05720	200	320926.000	0.05370
2-Chlorotoluene	50.0	1234640.00	2.082	100	2395864.00	2.041	200	4376912.00	1.839
2-Hexanone	50.0	122982.000	0.1077	100	228081.000	0.1010	200	445114.000	0.09730
4-Chlorotoluene	50.0	1127230.00	1.901	100	2262678.00	1.928	200	4608956.00	1.937
4-Methyl-2-Pentanone	50.0	65628.0000	0.04610	100	126289.000	0.04340	200	246628.000	0.04130
Acetone	50.0	57647.0000	0.04050	100	107462.000	0.03690	200	207965.000	0.03480
Benzene	50.0	1375364.00	0.9653	100	2756160.00	0.9471	200	5450869.00	0.9123
Bromobenzene	50.0	448818.000	0.7569	100	871879.000	0.7429	200	1688298.00	0.7094
Bromochloromethane	50.0	239249.000	0.1679	100	474773.000	0.1632	200	892216.000	0.1493
Bromodichloromethane	50.0	466061.000	0.3271	100	935639.000	0.3215	200	1858893.00	0.3111
Bromomethane	50.0	235439.000	0.1652	100	449020.000	0.1543	200	952544.000	0.1594
Carbon Disulfide	50.0	1061680.00	0.7451	100	2093116.00	0.7193	200	4143381.00	0.6934
Carbon Tetrachloride	50.0	625301.000	0.4389	100	1269163.00	0.4361	200	2522090.00	0.4221
Chloroethane	50.0	241877.000	0.1698	100	454270.000	0.1561	200	873076.000	0.1461

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INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	507141.000	0.05670
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	694084.000	0.09970
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	394330.000	0.04410
Acetone	300	316019.000	0.03530
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA

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INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-02			WG351532-03			WG351532-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Dibromochloromethane	NA	NA	NA	0.400	1979.00000	0.2133	1.00	5627.00000	0.2442
Dibromomethane	NA	NA	NA	0.400	782.000000	0.06540	1.00	3171.00000	0.1068
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	8367.00000	0.2819
Hexachlorobutadiene	NA	NA	NA	0.400	1767.00000	0.3734	1.00	4699.00000	0.4062
Isopropylbenzene	NA	NA	NA	0.400	11723.0000	1.264	1.00	31736.0000	1.377
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	12829.0000	0.4322
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	7313.00000	0.2464
Naphthalene	NA	NA	NA	0.400	4992.00000	1.055	1.00	13027.0000	1.126
Styrene	NA	NA	NA	0.400	6657.00000	0.7175	1.00	18405.0000	0.7988
Tetrachloroethene	NA	NA	NA	0.400	3528.00000	0.3803	1.00	8558.00000	0.3714
Trichloroethene	NA	NA	NA	0.400	3096.00000	0.2590	1.00	8419.00000	0.2836
Trichlorofluoromethane	NA	NA	NA	0.400	3411.00000	0.2854	1.00	12101.0000	0.4077
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3203.00000	0.2680	1.00	7874.00000	0.2653
cis-1,3-Dichloropropene	NA	NA	NA	0.400	3658.00000	0.3061	1.00	9573.00000	0.3225
m-,p-Xylene	NA	NA	NA	0.800	9190.00000	0.4953	2.00	25062.0000	0.5438
n-Butylbenzene	NA	NA	NA	0.400	8668.00000	1.832	1.00	23606.0000	2.041
n-Propylbenzene	NA	NA	NA	0.400	13556.0000	2.865	1.00	34655.0000	2.996
o-Xylene	NA	NA	NA	0.400	4512.00000	0.4863	1.00	11933.0000	0.5179
p-Isopropyltoluene	NA	NA	NA	0.400	9735.00000	2.057	1.00	27384.0000	2.367
sec-Butylbenzene	NA	NA	NA	0.400	11638.0000	2.459	1.00	31495.0000	2.723
tert-Butylbenzene	NA	NA	NA	0.400	2111.00000	0.4461	1.00	5537.00000	0.4786
trans-1,2-Dichloroethene	NA	NA	NA	0.400	2618.00000	0.2190	1.00	7046.00000	0.2374
trans-1,3-Dichloropropene	NA	NA	NA	0.400	2685.00000	0.2894	1.00	7741.00000	0.3360

INT_CAL - Modified 03/06/2008
PDF File ID: 1889213
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-05			WG351532-06			WG351532-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Dibromochloromethane	2.00	12297.0000	0.2672	5.00	31945.0000	0.2864	20.0	135121.000	0.2958
Dibromomethane	2.00	6484.00000	0.1095	5.00	17015.0000	0.1188	20.0	72665.0000	0.1260
Dichlorodifluoromethane	2.00	15614.0000	0.2637	5.00	43436.0000	0.3032	20.0	180692.000	0.3133
Hexachlorobutadiene	2.00	8684.00000	0.3738	5.00	25818.0000	0.4457	20.0	101225.000	0.4358
Isopropylbenzene	2.00	63708.0000	1.385	5.00	163823.000	1.469	20.0	671365.000	1.470
Methyl Tert Butyl Ether	2.00	26135.0000	0.4414	5.00	65044.0000	0.4540	20.0	272989.000	0.4734
Methylene Chloride	2.00	15951.0000	0.2694	5.00	35089.0000	0.2449	20.0	138553.000	0.2403
Naphthalene	2.00	28062.0000	1.208	5.00	72026.0000	1.243	20.0	283155.000	1.219
Styrene	2.00	37886.0000	0.8233	5.00	101004.000	0.9055	20.0	429070.000	0.9392
Tetrachloroethene	2.00	16505.0000	0.3587	5.00	41371.0000	0.3709	20.0	177211.000	0.3879
Trichloroethene	2.00	16040.0000	0.2709	5.00	42261.0000	0.2950	20.0	177255.000	0.3074
Trichlorofluoromethane	2.00	22574.0000	0.3812	5.00	64851.0000	0.4527	20.0	265754.000	0.4608
cis-1,2-Dichloroethene	2.00	15852.0000	0.2677	5.00	38920.0000	0.2717	20.0	163731.000	0.2839
cis-1,3-Dichloropropene	2.00	19045.0000	0.3216	5.00	48531.0000	0.3388	20.0	208664.000	0.3618
m-,p-Xylene	4.00	48949.0000	0.5319	10.0	128790.000	0.5773	40.0	533583.000	0.5840
n-Butylbenzene	2.00	45699.0000	1.967	5.00	120766.000	2.085	20.0	508420.000	2.189
n-Propylbenzene	2.00	69939.0000	3.011	5.00	186368.000	3.217	20.0	774956.000	3.337
o-Xylene	2.00	23690.0000	0.5148	5.00	62251.0000	0.5581	20.0	258167.000	0.5651
p-Isopropyltoluene	2.00	55848.0000	2.404	5.00	149988.000	2.589	20.0	615043.000	2.648
sec-Butylbenzene	2.00	65021.0000	2.799	5.00	166514.000	2.874	20.0	684339.000	2.946
tert-Butylbenzene	2.00	11919.0000	0.5130	5.00	30501.0000	0.5265	20.0	124451.000	0.5358
trans-1,2-Dichloroethene	2.00	14843.0000	0.2507	5.00	36106.0000	0.2520	20.0	154464.000	0.2678
trans-1,3-Dichloropropene	2.00	15588.0000	0.3388	5.00	40647.0000	0.3644	20.0	173842.000	0.3805

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8260B

Instrument ID: HPMS6

Initial Calibration Date: 15-DEC-10 14:32

Column ID: F

Analyte	WG351532-08			WG351532-09			WG351532-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Dibromochloromethane	50.0	344465.000	0.3016	100	684173.000	0.3030	200	1331699.00	0.2911
Dibromomethane	50.0	178311.000	0.1251	100	361520.000	0.1242	200	705485.000	0.1181
Dichlorodifluoromethane	50.0	441049.000	0.3095	100	857042.000	0.2945	200	1644921.00	0.2753
Hexachlorobutadiene	50.0	258394.000	0.4358	100	528599.000	0.4504	200	1054684.00	0.4431
Isopropylbenzene	50.0	1702955.00	1.491	100	3344212.00	1.481	200	6414761.00	1.402
Methyl Tert Butyl Ether	50.0	686150.000	0.4816	100	1391834.00	0.4783	200	2745439.00	0.4595
Methylene Chloride	50.0	338438.000	0.2375	100	667151.000	0.2293	200	1304790.00	0.2184
Naphthalene	50.0	741285.000	1.250	100	1517127.00	1.293	200	2979111.00	1.252
Styrene	50.0	1101508.00	0.9644	100	2170467.00	0.9611	200	4228751.00	0.9244
Tetrachloroethene	50.0	445092.000	0.3897	100	881771.000	0.3905	200	1768973.00	0.3867
Trichloroethene	50.0	438538.000	0.3078	100	872621.000	0.2999	200	1736786.00	0.2907
Trichlorofluoromethane	50.0	655284.000	0.4599	100	1291295.00	0.4438	200	2552124.00	0.4271
cis-1,2-Dichloroethene	50.0	396601.000	0.2784	100	795752.000	0.2735	200	1594727.00	0.2669
cis-1,3-Dichloropropene	50.0	528511.000	0.3709	100	1063416.00	0.3654	200	2114684.00	0.3539
m-,p-Xylene	100	1364093.00	0.5971	200	2705536.00	0.5990	400	5247120.00	0.5735
n-Butylbenzene	50.0	1316578.00	2.220	100	2660877.00	2.267	200	5149061.00	2.163
n-Propylbenzene	50.0	1961485.00	3.308	100	3880335.00	3.306	200	7327740.00	3.079
o-Xylene	50.0	645161.000	0.5648	100	1279847.00	0.5667	200	2504940.00	0.5476
p-Isopropyltoluene	50.0	1579621.00	2.664	100	3132847.00	2.669	200	6060519.00	2.546
sec-Butylbenzene	50.0	1750241.00	2.952	100	3459058.00	2.947	200	6634024.00	2.787
tert-Butylbenzene	50.0	313026.000	0.5279	100	627617.000	0.5348	200	1231608.00	0.5175
trans-1,2-Dichloroethene	50.0	377868.000	0.2652	100	748334.000	0.2572	200	1498507.00	0.2508
trans-1,3-Dichloropropene	50.0	441214.000	0.3863	100	894836.000	0.3962	200	1738856.00	0.3801

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L11010116
Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 15-DEC-10 14:32
Column ID: F

Analyte	WG351532-11		
	CONC	RESP	RF
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

INT_CAL - Modified 03/06/2008
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Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11010116 Run Date: 12/15/2010 Sample ID: WG351532-12
Instrument ID: HPMS6 Run Time: 15:34 Method: 8260B
File ID: 6M96339 Analyst: MES QC Key: DOD4
ICal Workgroup: WG351532 Cal ID: HPMS6 - 15-DEC-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	49.2	ug/L	0.391	1.70	25	
1,2-Dichloropropane	CCC	50.0	52.9	ug/L	0.253	5.80	25	
Chloroform	CCC	50.0	49.0	ug/L	0.434	2.00	25	
Ethylbenzene	CCC	50.0	53.3	ug/L	0.497	6.60	25	
Toluene	CCC	50.0	51.6	ug/L	1.32	3.10	25	
Vinyl Chloride	CCC	50.0	56.5	ug/L	0.266	12.9	25	
1,1,2,2-Tetrachloroethane	SPCC	50.0	53.1	ug/L	0.378	6.10	25	
1,1-Dichloroethane	SPCC	50.0	50.3	ug/L	0.457	0.600	25	
Bromoform	SPCC	50.0	50.4	ug/L	0.160	0.800	25	
Chlorobenzene	SPCC	50.0	49.9	ug/L	0.907	0.200	25	
Chloromethane	SPCC	50.0	53.6	ug/L	0.370	7.10	25	
1,1,1,2-Tetrachloroethane		50.0	54.3	ug/L	0.349	8.60	25	
1,1,1-Trichloroethane		50.0	51.5	ug/L	0.421	2.90	25	
1,1,2-Trichloroethane		50.0	51.5	ug/L	0.202	2.90	25	
1,1-Dichloropropene		50.0	52.3	ug/L	0.351	4.50	25	
1,2,3-Trichlorobenzene		50.0	51.7	ug/L	0.727	3.40	25	
1,2,3-Trichloropropane		50.0	53.3	ug/L	0.121	6.60	25	
1,2,4-Trichlorobenzene		50.0	48.9	ug/L	0.873	2.20	25	
1,2,4-Trimethylbenzene		50.0	53.3	ug/L	2.44	6.70	25	
1,2-Dibromo-3-Chloropropane		50.0	50.6	ug/L	0.0614	1.20	25	
1,2-Dibromoethane		50.0	54.6	ug/L	0.219	9.30	25	
1,2-Dichlorobenzene		50.0	50.1	ug/L	1.25	0.200	25	
1,2-Dichloroethane		50.0	50.9	ug/L	0.307	1.90	25	
1,3,5-Trimethylbenzene		50.0	54.5	ug/L	2.42	9.10	25	
1,3-Dichlorobenzene		50.0	50.6	ug/L	1.44	1.20	25	
1,3-Dichloropropane		50.0	52.6	ug/L	0.349	5.20	25	
1,4-Dichlorobenzene		50.0	49.8	ug/L	1.44	0.400	25	
2,2-Dichloropropane		50.0	49.7	ug/L	0.393	0.500	25	
2-Chlorotoluene		50.0	48.9	ug/L	1.94	2.20	25	
2-Hexanone		50.0	51.9	ug/L	0.104	3.80	25	
4-Chlorotoluene		50.0	54.0	ug/L	2.02	7.90	25	
4-Methyl-2-Pentanone		50.0	51.1	ug/L	0.0448	2.20	25	
Acetone		50.0	51.7	ug/L	0.0389	3.40	25	
Benzene		50.0	51.6	ug/L	0.969	3.20	25	
Bromobenzene		50.0	50.8	ug/L	0.755	1.60	25	
Bromochloromethane		50.0	51.8	ug/L	0.164	3.50	25	
Bromodichloromethane		50.0	51.9	ug/L	0.313	3.70	25	
Bromomethane		50.0	51.2	ug/L	0.164	2.30	25	
Carbon Disulfide		50.0	50.5	ug/L	0.721	1.10	25	
Carbon Tetrachloride		50.0	52.1	ug/L	0.421	4.20	25	
Dibromochloromethane		50.0	53.3	ug/L	0.294	6.70	25	
Chloroethane		50.0	59.3	ug/L	0.188	18.5	25	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1888347
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11010116 Run Date: 12/15/2010 Sample ID: WG351532-12
Instrument ID: HPMS6 Run Time: 15:34 Method: 8260B
File ID: 6M96339 Analyst: MES QC Key: DOD4
ICal Workgroup: WG351532 Cal ID: HPMS6 - 15-DEC-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
cis-1,2-Dichloroethene		50.0	51.9	ug/L	0.282	3.70	25	
cis-1,3-Dichloropropene		50.0	54.0	ug/L	0.370	8.00	25	
Dibromomethane		50.0	50.1	ug/L	0.121	0.200	25	
Dichlorodifluoromethane		50.0	57.8	ug/L	0.337	15.6	25	
Hexachlorobutadiene		50.0	51.9	ug/L	0.436	3.70	25	
Isopropylbenzene		50.0	45.8	ug/L	1.30	8.30	25	
m-,p-Xylene		100	106	ug/L	0.597	6.10	25	
2-Butanone		50.0	52.8	ug/L	0.0599	5.70	25	
Methyl Tert Butyl Ether		50.0	51.1	ug/L	0.470	2.10	25	
Methylene Chloride		50.0	47.6	ug/L	0.230	4.70	25	
n-Butylbenzene		50.0	52.6	ug/L	2.21	5.20	25	
n-Propylbenzene		50.0	52.0	ug/L	3.27	4.10	25	
Naphthalene		50.0	52.4	ug/L	1.26	4.80	25	
o-Xylene		50.0	52.7	ug/L	0.570	5.50	25	
p-Isopropyltoluene		50.0	49.9	ug/L	2.49	0.200	25	
sec-Butylbenzene		50.0	52.4	ug/L	2.95	4.90	25	
Styrene		50.0	54.8	ug/L	0.964	9.60	25	
tert-Butylbenzene		50.0	52.9	ug/L	0.540	5.80	25	
Tetrachloroethene		50.0	50.6	ug/L	0.384	1.20	25	
trans-1,2-Dichloroethene		50.0	52.1	ug/L	0.261	4.20	25	
trans-1,3-Dichloropropene		50.0	50.1	ug/L	0.360	0.200	25	
Trichloroethene		50.0	52.3	ug/L	0.303	4.60	25	
Trichlorofluoromethane		50.0	58.4	ug/L	0.485	16.9	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1888347
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353370-02
Instrument ID: HPMS6 Run Time: 09:14 Method: 8260B
File ID: 6M96889 Analyst: MES QC Key: DOD4
Workgroup (AAB#): WG353371 Cal ID: HPMS6 - 15-DEC-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	55.2	ug/L	0.439	10.4	20	
1,2-Dichloropropane	CCC	50.0	53.2	ug/L	0.254	6.42	20	
Chloroform	CCC	50.0	52.3	ug/L	0.463	4.62	20	
Ethylbenzene	CCC	50.0	52.6	ug/L	0.490	5.21	20	
Toluene	CCC	50.0	51.6	ug/L	1.33	3.17	20	
Vinyl Chloride	CCC	50.0	57.4	ug/L	0.270	14.8	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.9	ug/L	0.348	2.26	20	
1,1-Dichloroethane	SPCC	50.0	53.9	ug/L	0.491	7.90	20	
Bromoform	SPCC	50.0	49.3	ug/L	0.156	1.42	20	
Chlorobenzene	SPCC	50.0	49.4	ug/L	0.899	1.12	20	
Chloromethane	SPCC	50.0	54.3	ug/L	0.375	8.53	20	
1,1,1,2-Tetrachloroethane		50.0	52.5	ug/L	0.337	4.92	20	
1,1,1-Trichloroethane		50.0	53.9	ug/L	0.441	7.83	20	
1,1,2-Trichloroethane		50.0	48.8	ug/L	0.192	2.36	20	
1,1-Dichloropropene		50.0	54.1	ug/L	0.363	8.19	20	
1,2,3-Trichlorobenzene		50.0	49.2	ug/L	0.691	1.68	20	
1,2,3-Trichloropropane		50.0	49.9	ug/L	0.114	0.242	20	
1,2,4-Trichlorobenzene		50.0	49.5	ug/L	0.883	1.01	20	
1,2,4-Trimethylbenzene		50.0	53.4	ug/L	2.44	6.77	20	
1,2-Dibromo-3-Chloropropane		50.0	44.0	ug/L	0.0534	12.0	20	
1,2-Dibromoethane		50.0	49.1	ug/L	0.197	1.90	20	
1,2-Dichlorobenzene		50.0	49.2	ug/L	1.23	1.61	20	
1,2-Dichloroethane		50.0	51.1	ug/L	0.308	2.18	20	
1,3,5-Trimethylbenzene		50.0	54.0	ug/L	2.40	7.97	20	
1,3-Dichlorobenzene		50.0	51.3	ug/L	1.46	2.66	20	
1,3-Dichloropropane		50.0	49.1	ug/L	0.326	1.85	20	
1,4-Dichlorobenzene		50.0	50.7	ug/L	1.47	1.44	20	
2,2-Dichloropropane		50.0	54.9	ug/L	0.434	9.83	20	
2-Chlorotoluene		50.0	54.7	ug/L	2.16	9.35	20	
2-Hexanone		50.0	47.9	ug/L	0.0958	4.22	20	
4-Chlorotoluene		50.0	50.8	ug/L	1.90	1.56	20	
4-Methyl-2-Pentanone		50.0	47.9	ug/L	0.0420	4.21	20	
Acetone		50.0	48.5	ug/L	0.0365	3.03	20	
Benzene		50.0	52.7	ug/L	0.990	5.35	20	
Bromobenzene		50.0	50.7	ug/L	0.753	1.36	20	
Bromochloromethane		50.0	51.6	ug/L	0.163	3.14	20	
Bromodichloromethane		50.0	52.7	ug/L	0.318	5.32	20	
Bromomethane		50.0	51.0	ug/L	0.164	1.94	20	
Carbon Disulfide		50.0	56.6	ug/L	0.807	13.1	20	
Carbon Tetrachloride		50.0	55.3	ug/L	0.447	10.6	20	
Dibromochloromethane		50.0	50.8	ug/L	0.280	1.57	20	
Chloroethane		50.0	58.2	ug/L	0.185	16.4	20	

CCV - Modified 03/05/2008
PDF File ID: 1888348
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353370-02
Instrument ID: HPMS6 Run Time: 09:14 Method: 8260B
File ID: 6M96889 Analyst: MES QC Key: DOD4
Workgroup (AAB#): WG353371 Cal ID: HPMS6 - 15-DEC-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
cis-1,2-Dichloroethene		50.0	53.1	ug/L	0.289	6.11	20	
cis-1,3-Dichloropropene		50.0	51.8	ug/L	0.355	3.60	20	
Dibromomethane		50.0	49.1	ug/L	0.119	1.84	20	
Dichlorodifluoromethane		50.0	57.2	ug/L	0.333	14.3	20	
Hexachlorobutadiene		50.0	47.3	ug/L	0.398	5.47	20	
Isopropylbenzene		50.0	52.6	ug/L	1.49	5.15	20	
m-,p-Xylene		100	106	ug/L	0.595	5.79	20	
2-Butanone		50.0	49.6	ug/L	0.0563	0.736	20	
Methyl Tert Butyl Ether		50.0	47.9	ug/L	0.441	4.13	20	
Methylene Chloride		50.0	50.4	ug/L	0.243	0.724	20	
n-Butylbenzene		50.0	55.2	ug/L	2.31	10.4	20	
n-Propylbenzene		50.0	55.1	ug/L	3.46	10.2	20	
Naphthalene		50.0	52.0	ug/L	1.25	4.03	20	
o-Xylene		50.0	51.8	ug/L	0.559	3.55	20	
p-Isopropyltoluene		50.0	53.6	ug/L	2.67	7.15	20	
sec-Butylbenzene		50.0	53.6	ug/L	3.01	7.17	20	
Styrene		50.0	53.5	ug/L	0.941	7.00	20	
tert-Butylbenzene		50.0	52.7	ug/L	0.538	5.42	20	
Tetrachloroethene		50.0	50.8	ug/L	0.385	1.52	20	
trans-1,2-Dichloroethene		50.0	55.2	ug/L	0.276	10.3	20	
trans-1,3-Dichloropropene		50.0	52.3	ug/L	0.375	4.55	20	
Trichloroethene		50.0	52.8	ug/L	0.306	5.65	20	
Trichlorofluoromethane		50.0	63.5	ug/L	0.527	27.0	20	*
1,2-Dichloroethene		100	108	ug/L	0.282	8.21	40	
Xylenes		150	158	ug/L	0.577	5.05	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1888348
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11010116
Instrument ID: HPMS6
Workgroup (AAB#): WG353371

ICAL CCV Number: WG351532-08
CAL ID: HPMS6 - 15-DEC-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG351532-08	NA	NA	296487	571108	712409
Upper Limit	NA	NA	592974	1142216	1424818
Lower Limit	NA	NA	148244	285554	356205
L11010116-01	1.00	01	257150	508528	619618
WG353371-01	1.00	01	290071	576297	718719
WG353371-02	1.00	01	294734	576140	711601

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1889215
Report generated 01/11/2011 10:10

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11010116
Instrument ID: HPMS6
Workgroup (AAB#): WG353371

ICAL CCV Number: WG351532-08
CAL ID: HPMS6 - 15-DEC-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG351532-08	NA	NA	19.17	15.6	11.09
Upper Limit	NA	NA	19.67	16.1	11.59
Lower Limit	NA	NA	18.67	15.1	10.59
L11010116-01	1.00	01	19.18	15.59	11.09
WG353371-01	1.00	01	19.18	15.59	11.08
WG353371-02	1.00	01	19.17	15.6	11.09

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1889216
Report generated: 01/11/2011 10:10

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\010711\6M96906.D Vial: 19
Acq On : 7 Jan 2011 18:07 Operator: MES
Sample : L11010116-01 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 10 09:25:57 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

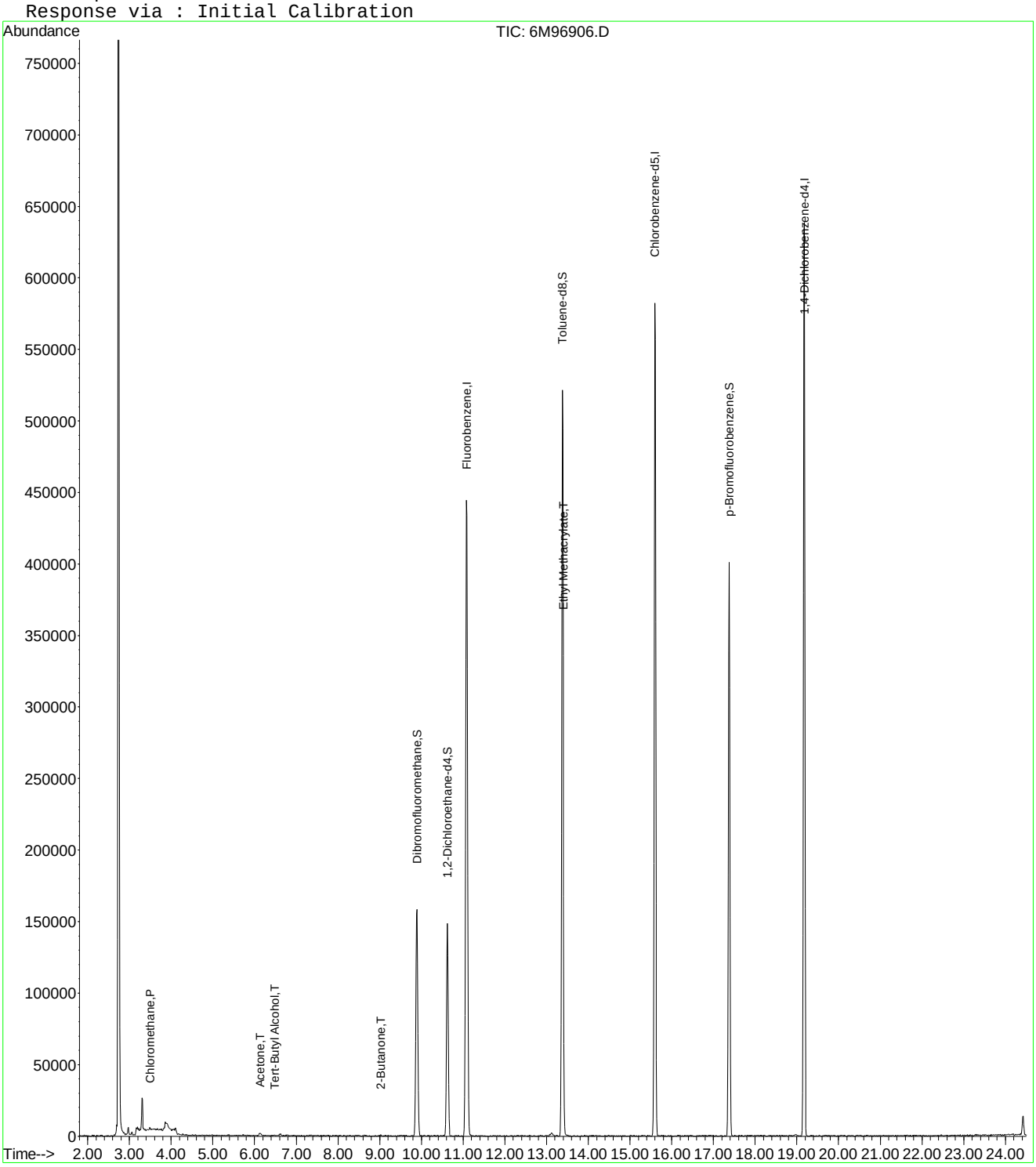
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	619618	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.59	117	508528	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	257150	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	151259	23.6864 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.76%		
42) 1,2-Dichloroethane-d4	10.62	65	142248	24.2451 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.00%		
57) Toluene-d8	13.38	98	523710	23.9049 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 95.60%		
78) p-Bromofluorobenzene	17.38	95	181629	23.4051 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 93.64%		
Target Compounds					Qvalue
3) Chloromethane	3.49	50	2521	0.2946 ug/L #	63
13) Acetone	6.14	43	4134	4.4286 ug/L #	73
15) Tert-Butyl Alcohol	6.48	59	478	2.3183 ug/L #	57
29) 2-Butanone	9.03	43	406	0.2889 ug/L #	58
59) Ethyl Methacrylate	13.40	69	1120	0.2477 ug/L	81

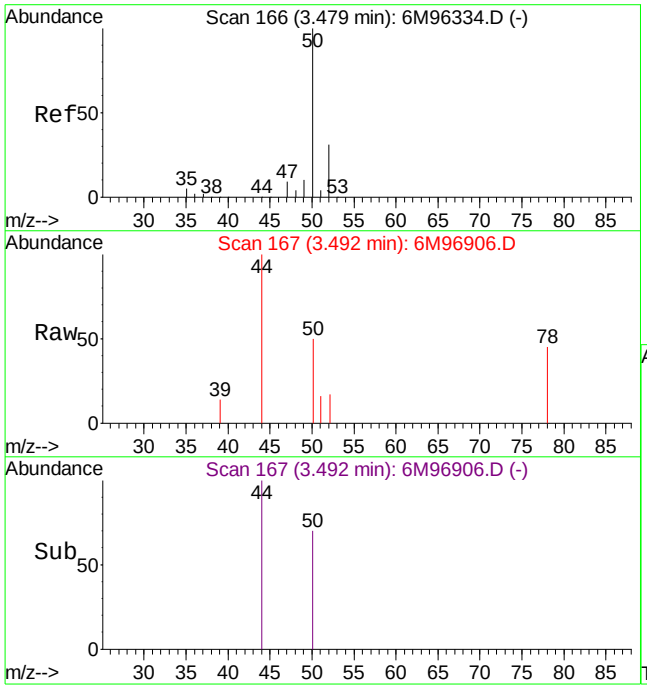
(#) = qualifier out of range (m) = manual integration
6M96906.D 8260WTR.M Mon Jan 10 09:25:58 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\010711\6M96906.D Vial: 19
Acq On : 7 Jan 2011 18:07 Operator: MES
Sample : L11010116-01 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 10 9:25 2011 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration

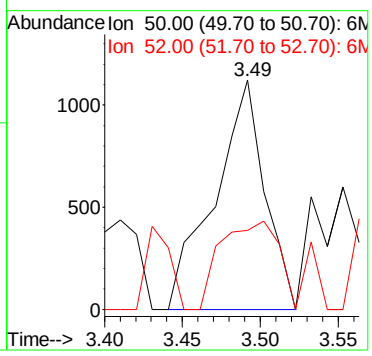


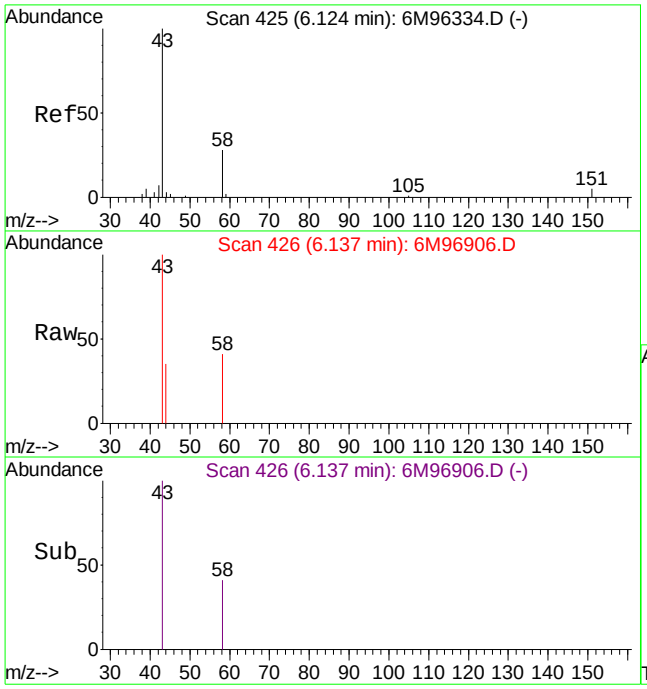


#3
Chloromethane
Concen: 0.29 ug/L
RT: 3.49 min Scan# 167
Delta R.T. 0.01 min
Lab File: 6M96906.D
Acq: 7 Jan 2011 18:07

Tgt Ion: 50 Resp: 2521

Ion	Ratio	Lower	Upper
50	100		
52	52.4	19.1	44.7#

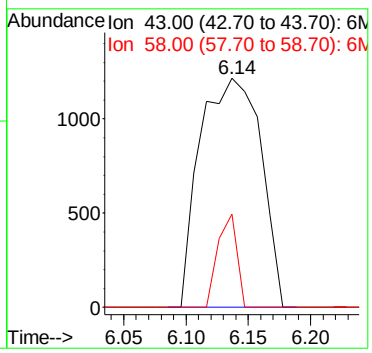


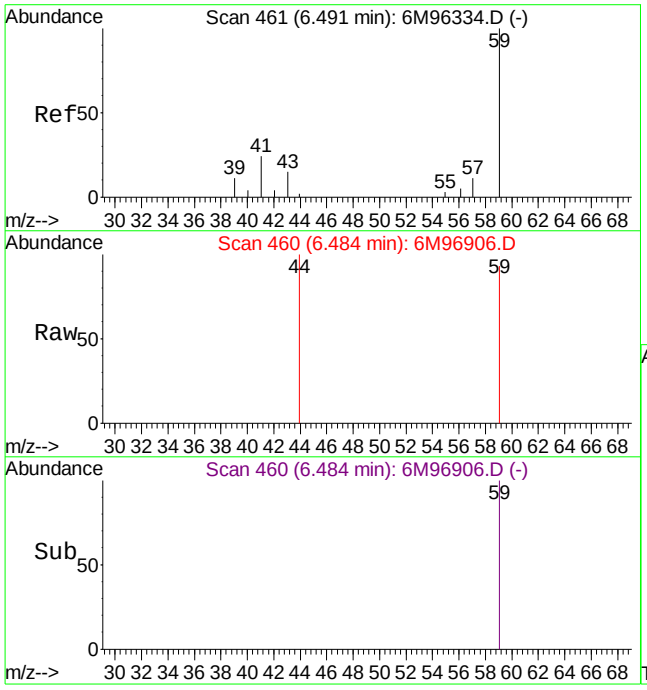


#13
Acetone
Concen: 4.43 ug/L
RT: 6.14 min Scan# 426
Delta R.T. 0.01 min
Lab File: 6M96906.D
Acq: 7 Jan 2011 18:07

Tgt Ion: 43 Resp: 4134

Ion	Ratio	Lower	Upper
43	100		
58	12.7	16.0	37.2#

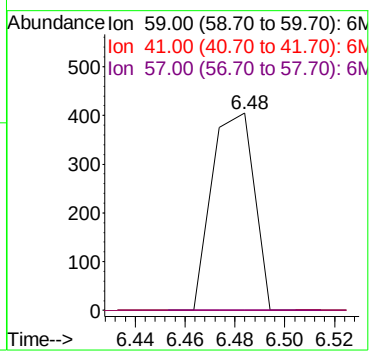


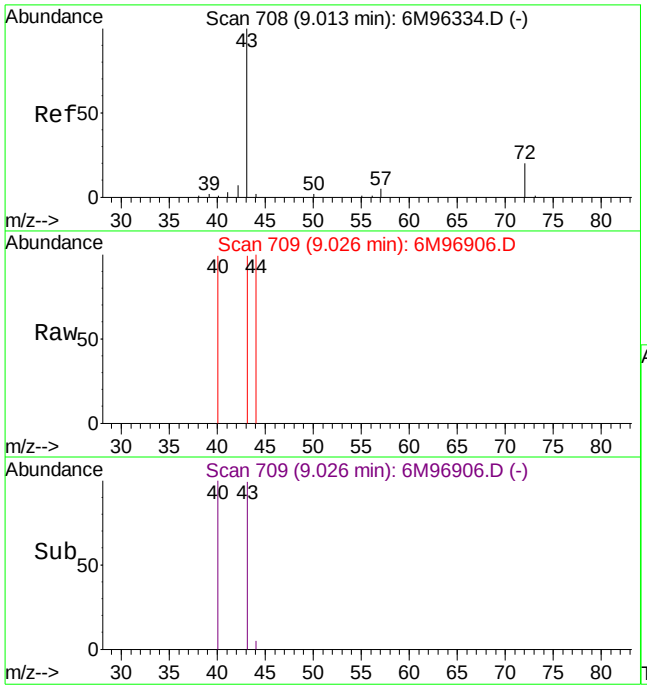


#15
Tert-Butyl Alcohol
Concen: 2.32 ug/L
RT: 6.48 min Scan# 460
Delta R.T. -0.01 min
Lab File: 6M96906.D
Acq: 7 Jan 2011 18:07

Tgt Ion: 59 Resp: 478

Ion	Ratio	Lower	Upper
59	100		
41	0.0	14.5	33.7#
57	0.0	6.7	15.7#

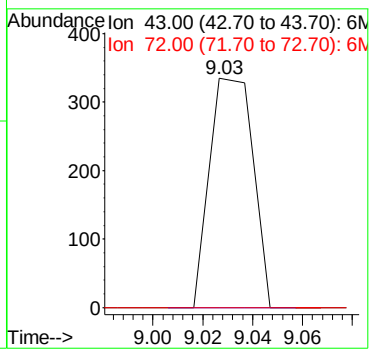


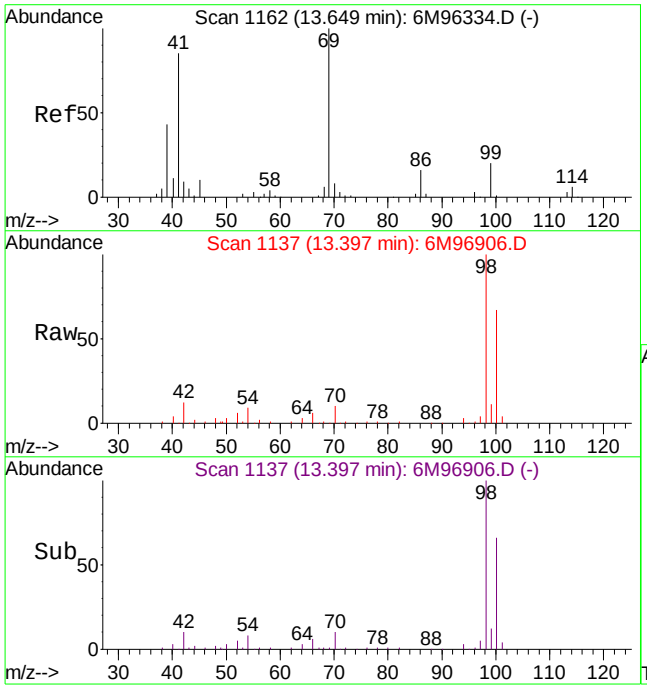


#29
2-Butanone
Concen: 0.29 ug/L
RT: 9.03 min Scan# 709
Delta R.T. 0.01 min
Lab File: 6M96906.D
Acq: 7 Jan 2011 18:07

Tgt Ion: 43 Resp: 406

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.3	26.5#

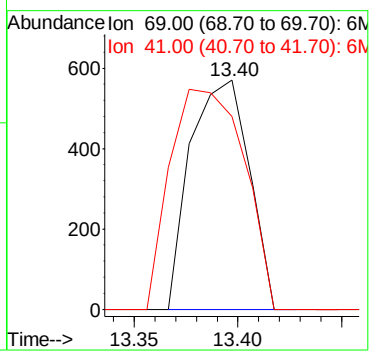




#59
Ethyl Methacrylate
Concen: 0.25 ug/L
RT: 13.40 min Scan# 1137
Delta R.T. -0.25 min
Lab File: 6M96906.D
Acq: 7 Jan 2011 18:07

Tgt Ion: 69 Resp: 1120

Ion	Ratio	Lower	Upper
69	100		
41	102.2	51.0	119.0



2.1.1.4 Standards Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96328.D Vial: 2
Acq On : 15 Dec 2010 9:41 Operator: MES
Sample : WG351532-02 0.3ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 10:06:08 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 09:09:46 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	801684	25.00 ug/L	-0.04
56) Chlorobenzene-d5	15.60	117	618098	25.00 ug/L	-0.04
76) 1,4-Dichlorobenzene-d4	19.17	152	303153	25.00 ug/L	-0.04

System Monitoring Compounds

36) Dibromofluoromethane	0.00	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery	=	0.00%#
42) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery	=	0.00%#
57) Toluene-d8	0.00	98	0	0.0000 ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery	=	0.00%#
78) p-Bromofluorobenzene	0.00	95	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery	=	0.00%#

Target Compounds

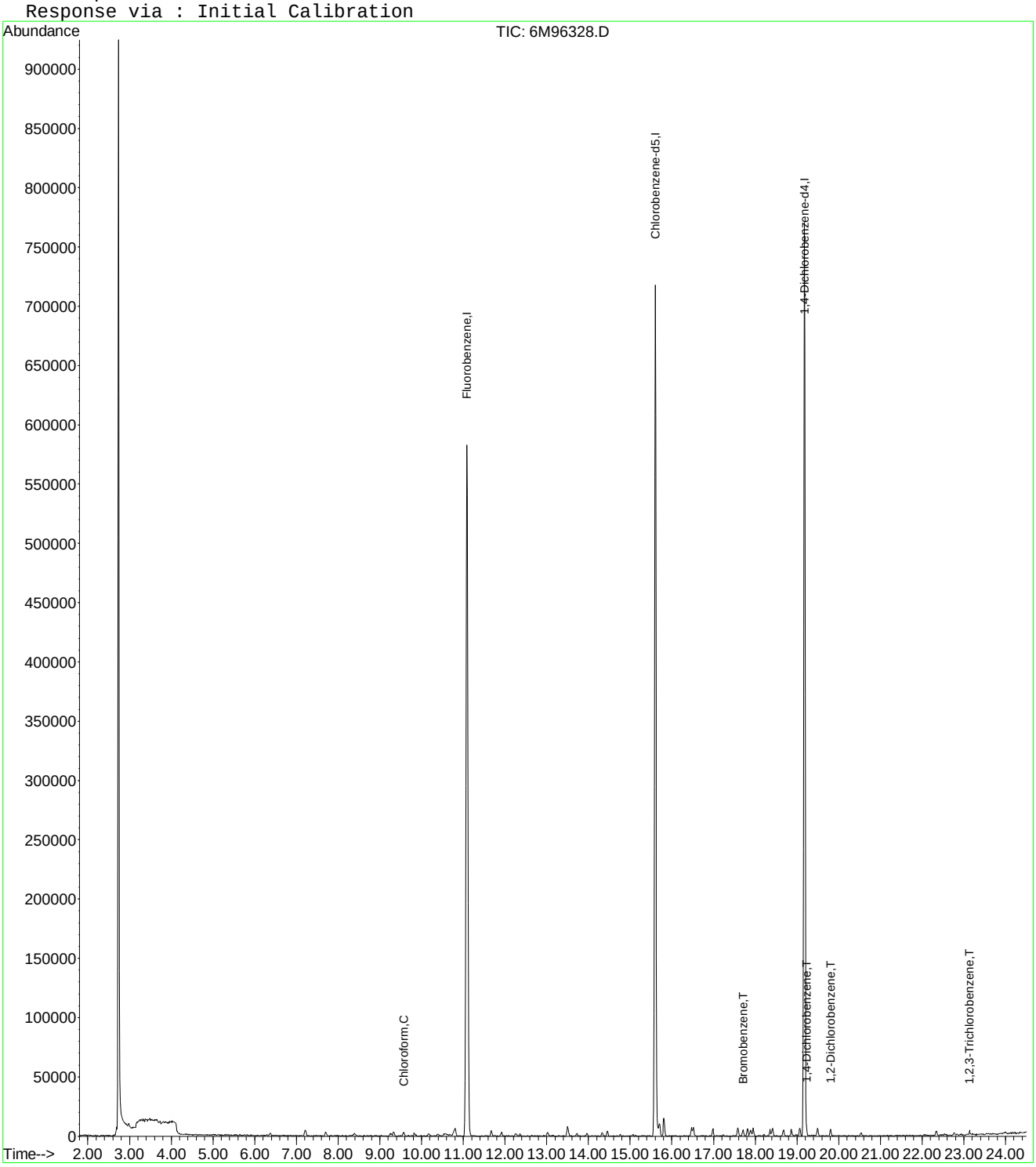
					Qvalue
33) Chloroform	9.58	83	4435	0.3152 ug/L #	79
82) Bromobenzene	17.71	156	2725	0.3102 ug/L	89
92) 1,4-Dichlorobenzene	19.24	146	4905	0.2753 ug/L	98
94) 1,2-Dichlorobenzene	19.81	146	4641	0.3049 ug/L	89
99) 1,2,3-Trichlorobenzene	23.14	180	2136	0.2347 ug/L	86

(#) = qualifier out of range (m) = manual integration
6M96328.D 8260WTR.M Wed Dec 15 10:15:40 2010 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96328.D Vial: 2
Acq On : 15 Dec 2010 9:41 Operator: MES
Sample : WG351532-02 0.3ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 10:15 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 09:09:46 2010
Response via : Initial Calibration



6M96328.D 8260WTR.M Wed Dec 15 10:15:40 2010 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96329.D Vial: 3
Acq On : 15 Dec 2010 10:20 Operator: MES
Sample : WG351532-03 0.4ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 10:47:03 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:46:37 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	746995	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	579854	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	295764	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	0.00	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery	=	0.00%#
42) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery	=	0.00%#
57) Toluene-d8	0.00	98	0	0.0000 ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery	=	0.00%#
78) p-Bromofluorobenzene	0.00	95	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery	=	0.00%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.05	85	2436	0.2443 ug/L #	62
3) Chloromethane	3.48	50	4518	0.2597 ug/L	95
4) Vinyl Chloride	3.71	62	2469	0.2177 ug/L #	67
6) Bromomethane	4.58	94	3101	0.6860 ug/L	86
8) Trichlorofluoromethane	5.24	101	3411	0.2644 ug/L #	88
14) 1,1-Dichloroethene	6.36	61	4078	0.3284 ug/L	92
19) Methylene Chloride	7.21	84	3574	0.4563 ug/L	77
20) Carbon Disulfide	7.25	76	8162	0.3651 ug/L	96
22) Methyl Tert Butyl Ether	7.45	73	4724	0.3767 ug/L #	56
23) trans-1,2-Dichloroethene	7.70	96	2618	0.3627 ug/L	96
24) n-Hexane	7.79	57	3141	0.2836 ug/L	81
27) 1,1-Dichloroethane	8.39	63	4923	0.3331 ug/L	100
31) 2,2-Dichloropropane	9.26	77	4226	0.3984 ug/L	75
32) cis-1,2-Dichloroethene	9.33	96	3203	0.3899 ug/L	81
33) Chloroform	9.55	83	5404	0.4095 ug/L #	88
34) Bromochloromethane	9.82	130	1725	0.3417 ug/L	89
37) 1,1,1-Trichloroethane	10.16	97	4159	0.3498 ug/L	80
38) Cyclohexane	10.20	56	3735	0.2762 ug/L	87
39) 1,1-Dichloropropene	10.39	75	3570	0.3732 ug/L	86
41) Carbon Tetrachloride	10.55	117	3822	0.3269 ug/L #	70
44) 1,2-Dichloroethane	10.75	62	3341	0.3417 ug/L #	66
45) Benzene	10.80	78	11187	0.3939 ug/L	94
46) Trichloroethene	11.66	130	3096	0.3307 ug/L	90
47) Methylcyclohexane	11.76	83	3316	0.3111 ug/L	86
48) 1,2-Dichloropropane	11.92	63	2456	0.2952 ug/L	84
50) Bromodichloromethane	12.26	83	2882	0.2982 ug/L	93
51) Dibromomethane	12.35	93	782	0.2021 ug/L	72
54) cis-1,3-Dichloropropene	13.01	75	3658	0.3528 ug/L	92
58) Toluene	13.51	91	11840	0.4024 ug/L	95
59) Ethyl Methacrylate	13.65	69	1529	0.2970 ug/L #	53
60) trans-1,3-Dichloropropene	13.71	75	2685	0.3279 ug/L #	78
61) 1,1,2-Trichloroethane	13.97	97	1933	0.4035 ug/L	80
63) 1,3-Dichloropropane	14.32	76	2640	0.3352 ug/L	96
64) Tetrachloroethene	14.46	166	3528	0.3920 ug/L	87
65) Dibromochloromethane	14.76	129	1979	0.2855 ug/L	97
66) 1,2-Dibromoethane	15.06	107	1371	0.2761 ug/L	97
67) 1-Chlorohexane	15.20	91	3458	0.3618 ug/L	85
68) Chlorobenzene	15.65	112	8606	0.3823 ug/L	84
69) 1,1,1,2-Tetrachloroethane	15.69	131	2332	0.2906 ug/L #	65
70) Ethylbenzene	15.70	106	3759	0.3379 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96329.D Vial: 3
Acq On : 15 Dec 2010 10:20 Operator: MES
Sample : WG351532-03 0.4ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 10:47:03 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:46:37 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

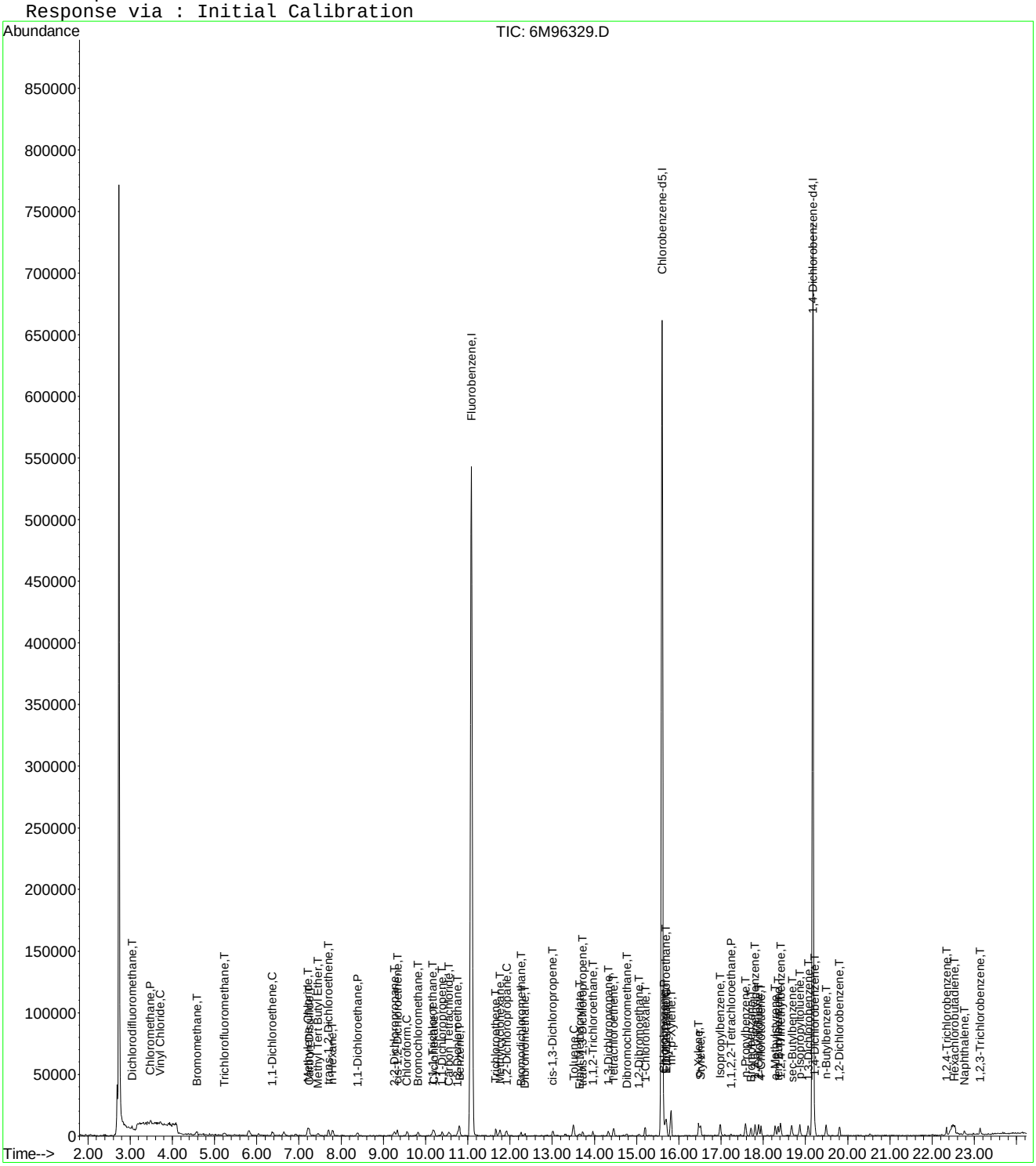
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
71)	m-,p-Xylene	15.81	106	9190	0.6763 ug/L		94
72)	o-Xylene	16.47	106	4512	0.3613 ug/L		91
73)	Styrene	16.52	104	6657	0.3220 ug/L		78
75)	Isopropylbenzene	16.98	105	11723	0.3706 ug/L		97
77)	1,1,2,2-Tetrachloroethane	17.23	83	1409	0.3133 ug/L		94
81)	n-Propylbenzene	17.58	91	13556	0.4018 ug/L	#	95
82)	Bromobenzene	17.70	156	3459	0.4030 ug/L		84
83)	1,3,5-Trimethylbenzene	17.81	105	9330	0.3963 ug/L		97
84)	2-Chlorotoluene	17.89	91	8868	0.4147 ug/L		98
85)	4-Chlorotoluene	17.94	91	8179	0.3857 ug/L		95
86)	a-Methylstyrene	18.28	118	4392	0.3165 ug/L		93
87)	tert-Butylbenzene	18.35	134	2111	0.3691 ug/L		97
88)	1,2,4-Trimethylbenzene	18.42	105	10335	0.4170 ug/L		81
89)	sec-Butylbenzene	18.68	105	11638	0.3980 ug/L		87
90)	p-Isopropyltoluene	18.87	119	9735	0.3790 ug/L		100
91)	1,3-Dichlorobenzene	19.07	146	5918	0.3526 ug/L		97
92)	1,4-Dichlorobenzene	19.23	146	6714	0.3893 ug/L	#	39
93)	n-Butylbenzene	19.49	91	8668	0.3906 ug/L		95
94)	1,2-Dichlorobenzene	19.80	146	5569	0.3793 ug/L		99
96)	1,2,4-Trichlorobenzene	22.34	180	3829	0.3702 ug/L	#	84
97)	Hexachlorobutadiene	22.52	225	1767	0.4727 ug/L	#	61
98)	Naphthalene	22.77	128	4992	0.3112 ug/L		93
99)	1,2,3-Trichlorobenzene	23.14	180	3226	0.3793 ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96329.D Vial: 3
Acq On : 15 Dec 2010 10:20 Operator: MES
Sample : WG351532-03 0.4ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 10:48 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:46:37 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96330.D Vial: 4
Acq On : 15 Dec 2010 10:51 Operator: MES
Sample : WG351532-04 1ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:16:02 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	742045	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	576045	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	289206	25.00 ug/L	0.00

System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	3588	0.4436 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery	= 1.76%#	
42) 1,2-Dichloroethane-d4	10.63	65	3476	0.4713 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery	= 1.88%#	
57) Toluene-d8	13.38	98	11483	0.4664 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery	= 1.88%#	
78) p-Bromofluorobenzene	17.39	95	4045	0.5071 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery	= 2.04%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	8367	0.8447 ug/L #	84
3) Chloromethane	3.49	50	11511	0.6661 ug/L #	55
4) Vinyl Chloride	3.70	62	7797	0.7420 ug/L	97
5) 1,3-Butadiene	3.75	54	7718	1.1625 ug/L #	74
6) Bromomethane	4.58	94	6958	1.5496 ug/L	89
7) Chloroethane	4.74	64	4544	0.7828 ug/L	83
8) Trichlorofluoromethane	5.24	101	12101	0.9585 ug/L #	28
9) Diethyl ether	5.78	59	23320	4.4921 ug/L	92
10) Isoprene	5.82	67	9601	1.0098 ug/L	90
12) 1,1,2-Trichloro-1,2,2-Trif	6.05	101	6780	0.8800 ug/L	96
14) 1,1-Dichloroethene	6.37	61	11738	0.9590 ug/L	99
15) Tert-Butyl Alcohol	6.49	59	2515	7.6520 ug/L #	56
16) Dimethyl Sulfide	6.65	62	6878	0.8225 ug/L	78
17) Iodomethane	6.91	142	5408	1.0540 ug/L	91
18) Methyl acetate	6.94	43	3560	0.6342 ug/L #	71
19) Methylene Chloride	7.21	84	7313	0.9399 ug/L	96
20) Carbon Disulfide	7.24	76	20396	0.9184 ug/L	96
22) Methyl Tert Butyl Ether	7.44	73	12829	1.0299 ug/L	83
23) trans-1,2-Dichloroethene	7.71	96	7046	0.9824 ug/L	93
24) n-Hexane	7.80	57	9615	0.8738 ug/L	94
25) Diisopropyl ether	8.18	45	125214	3.9391 ug/L	97
26) Vinyl Acetate	8.19	43	56867	7.1861 ug/L #	81
27) 1,1-Dichloroethane	8.38	63	13080	0.9038 ug/L	100
28) Ethyl-Tert-Butyl ether	8.81	59	92279	4.2048 ug/L	96
29) 2-Butanone	8.81	43	9948	4.3908 ug/L #	64
30) Propionitrile	9.14	54	1675	2.4737 ug/L #	59
31) 2,2-Dichloropropane	9.26	77	11307	1.0604 ug/L	86
32) cis-1,2-Dichloroethene	9.33	96	7874	0.9620 ug/L	89
33) Chloroform	9.56	83	12261	0.9224 ug/L	91
34) Bromochloromethane	9.82	130	4572	0.9049 ug/L	94
35) Tetrahydrofuran	9.85	42	5578	3.5955 ug/L	93
37) 1,1,1-Trichloroethane	10.18	97	11851	1.0055 ug/L	93
38) Cyclohexane	10.21	56	11071	0.8240 ug/L	93
39) 1,1-Dichloropropene	10.39	75	8940	0.9414 ug/L	93
40) Tert-Amyl-Methyl ether	10.53	73	66614	4.5571 ug/L	96
41) Carbon Tetrachloride	10.55	117	11252	0.9725 ug/L	92
44) 1,2-Dichloroethane	10.76	62	8366	0.8672 ug/L #	83
45) Benzene	10.80	78	27282	0.9748 ug/L	93
46) Trichloroethene	11.67	130	8419	0.9330 ug/L	95
47) Methylcyclohexane	11.76	83	9632	0.9098 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96330.D Vial: 4
Acq On : 15 Dec 2010 10:51 Operator: MES
Sample : WG351532-04 1ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:16:02 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

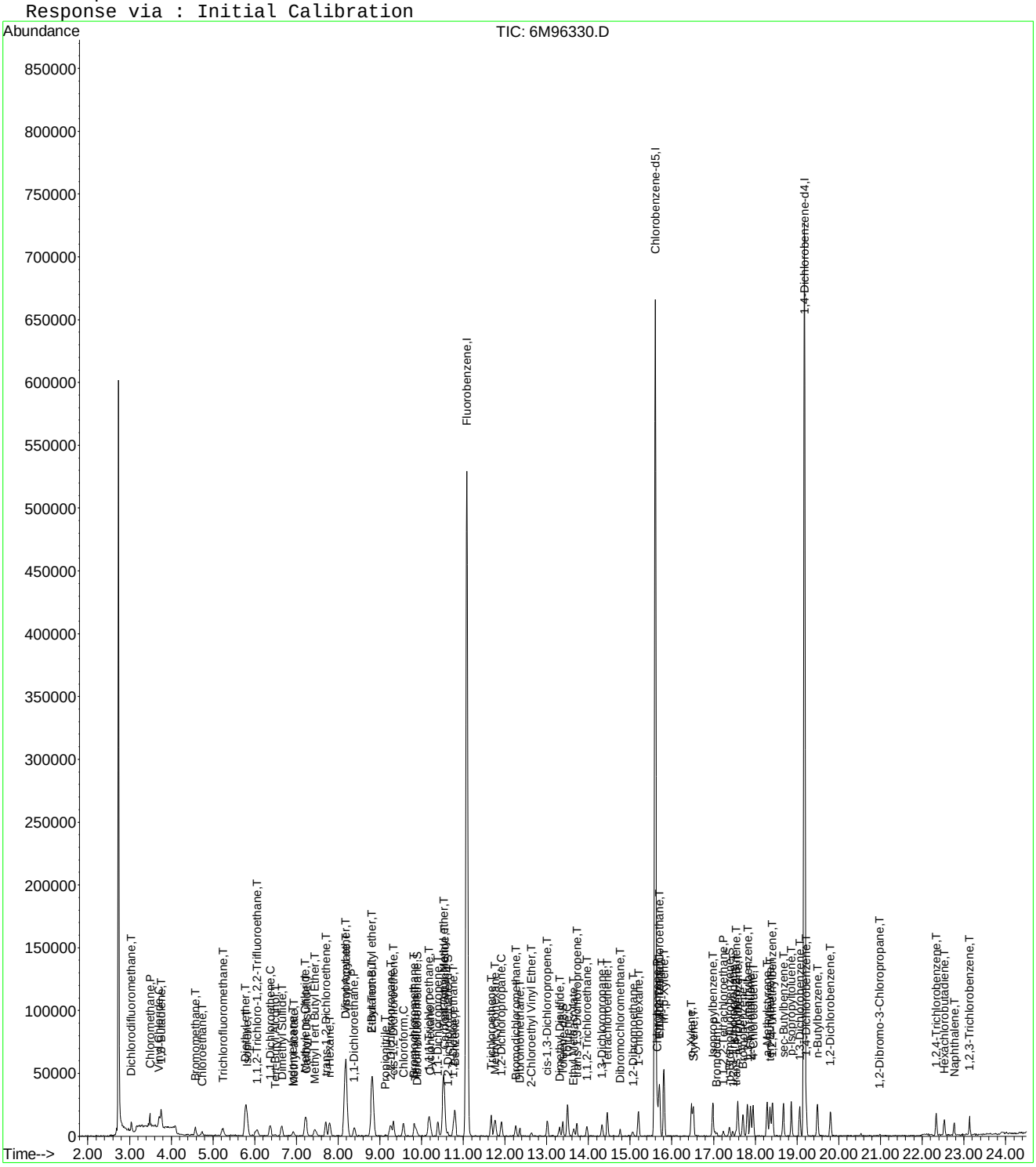
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) 1,2-Dichloropropane	11.91	63	6969	0.8601 ug/L	98
50) Bromodichloromethane	12.26	83	8424	0.8849 ug/L	91
51) Dibromomethane	12.35	93	3171	0.8379 ug/L	97
52) 2-Chloroethyl Vinyl Ether	12.63	63	1859	0.5675 ug/L #	44
54) cis-1,3-Dichloropropene	13.01	75	9573	0.9266 ug/L	92
55) Dimethyl Disulfide	13.31	79	2832	0.5333 ug/L #	67
58) Toluene	13.50	91	29462	0.9962 ug/L	96
59) Ethyl Methacrylate	13.64	69	4609	0.9012 ug/L	83
60) trans-1,3-Dichloropropene	13.72	75	7741	0.9442 ug/L	98
61) 1,1,2-Trichloroethane	13.97	97	3917	0.8061 ug/L	97
63) 1,3-Dichloropropane	14.32	76	7287	0.9445 ug/L	86
64) Tetrachloroethene	14.46	166	8558	0.9445 ug/L	98
65) Dibromochloromethane	14.75	129	5627	0.8373 ug/L	99
66) 1,2-Dibromoethane	15.07	107	4269	0.8806 ug/L	96
67) 1-Chlorohexane	15.20	91	9579	1.0075 ug/L	90
68) Chlorobenzene	15.65	112	21024	0.9442 ug/L	97
69) 1,1,1,2-Tetrachloroethane	15.70	131	6303	0.8039 ug/L	89
70) Ethylbenzene	15.70	106	10099	0.9242 ug/L	98
71) m-,p-Xylene	15.81	106	25062	1.8799 ug/L	98
72) o-Xylene	16.47	106	11933	0.9550 ug/L	96
73) Styrene	16.52	104	18405	0.8905 ug/L	91
74) Bromoform	17.07	173	2602	0.6585 ug/L #	84
75) Isopropylbenzene	16.98	105	31736	0.9962 ug/L	100
77) 1,1,2,2-Tetrachloroethane	17.23	83	3598	0.8095 ug/L	90
79) 1,2,3-Trichloropropane	17.47	110	954	0.7060 ug/L #	54
80) trans-1,4-Dichloro-2-Buten	17.54	53	1499	0.8061 ug/L	91
81) n-Propylbenzene	17.58	91	34655	1.0291 ug/L	98
82) Bromobenzene	17.70	156	8262	0.9645 ug/L	100
83) 1,3,5-Trimethylbenzene	17.82	105	24248	1.0288 ug/L	96
84) 2-Chlorotoluene	17.89	91	22728	1.0700 ug/L	95
85) 4-Chlorotoluene	17.95	91	20379	0.9832 ug/L	98
86) a-Methylstyrene	18.28	118	13704	1.0098 ug/L	95
87) tert-Butylbenzene	18.36	134	5537	0.9683 ug/L	85
88) 1,2,4-Trimethylbenzene	18.41	105	24717	1.0003 ug/L	97
89) sec-Butylbenzene	18.67	105	31495	1.0821 ug/L	94
90) p-Isopropyltoluene	18.87	119	27384	1.0695 ug/L	96
91) 1,3-Dichlorobenzene	19.07	146	16169	0.9871 ug/L	97
92) 1,4-Dichlorobenzene	19.22	146	16076	0.9580 ug/L	98
93) n-Butylbenzene	19.49	91	23606	1.0719 ug/L	97
94) 1,2-Dichlorobenzene	19.80	146	13180	0.9085 ug/L	99
95) 1,2-Dibromo-3-Chloropropan	20.98	75	482	0.7543 ug/L	98
96) 1,2,4-Trichlorobenzene	22.34	180	9938	0.9896 ug/L	97
97) Hexachlorobutadiene	22.53	225	4699	1.2268 ug/L	96
98) Naphthalene	22.77	128	13027	0.8499 ug/L	98
99) 1,2,3-Trichlorobenzene	23.14	180	8063	0.9747 ug/L	94

(#) = qualifier out of range (m) = manual integration
6M96330.D 8260WTR.M Wed Dec 15 11:16:03 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96330.D Vial: 4
Acq On : 15 Dec 2010 10:51 Operator: MES
Sample : WG351532-04 1ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:16 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96331.D Vial: 5
Acq On : 15 Dec 2010 11:22 Operator: MES
Sample : WG351532-05 2ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:47:30 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	740186	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	575196	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	290399	25.00 ug/L	0.00

System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	7235	0.8966 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.60%#	
42) 1,2-Dichloroethane-d4	10.63	65	6192	0.8417 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	3.36%#	
57) Toluene-d8	13.38	98	22740	0.9251 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	3.72%#	
78) p-Bromofluorobenzene	17.38	95	8009	1.0000 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.00%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	15614	1.5803 ug/L	91
3) Chloromethane	3.48	50	18726	1.0863 ug/L #	76
4) Vinyl Chloride	3.71	62	12994	1.2397 ug/L	100
5) 1,3-Butadiene	3.76	54	15813	2.3877 ug/L #	69
6) Bromomethane	4.57	94	12153	2.7133 ug/L	92
7) Chloroethane	4.74	64	8989	1.5524 ug/L	83
8) Trichlorofluoromethane	5.23	101	22574	1.7926 ug/L	98
9) Diethyl ether	5.78	59	122310	23.6195 ug/L	91
10) Isoprene	5.82	67	19918	2.1003 ug/L	89
12) 1,1,2-Trichloro-1,2,2-Trif	6.03	101	13267	1.7263 ug/L	98
13) Acetone	6.14	43	2338	1.6611 ug/L #	48
14) 1,1-Dichloroethene	6.36	61	23106	1.8925 ug/L	97
15) Tert-Butyl Alcohol	6.48	59	13055	39.8200 ug/L #	88
16) Dimethyl Sulfide	6.64	62	14517	1.7403 ug/L	87
17) Iodomethane	6.91	142	12354	2.4138 ug/L	97
18) Methyl acetate	6.94	43	7627	1.3622 ug/L #	89
19) Methylene Chloride	7.21	84	15951	2.0553 ug/L	71
20) Carbon Disulfide	7.24	76	40967	1.8492 ug/L	99
21) Acrylonitrile	7.40	53	2794	1.3898 ug/L	91
22) Methyl Tert Butyl Ether	7.45	73	26135	2.1033 ug/L	93
23) trans-1,2-Dichloroethene	7.70	96	14843	2.0746 ug/L	86
24) n-Hexane	7.79	57	18395	1.6760 ug/L	99
25) Diisopropyl ether	8.18	45	656048	20.6904 ug/L	97
26) Vinyl Acetate	8.36	43	20114	2.5481 ug/L	95
27) 1,1-Dichloroethane	8.38	63	26937	1.8660 ug/L	94
28) Ethyl-Tert-Butyl ether	8.81	59	496446	22.6781 ug/L	95
29) 2-Butanone	9.02	43	3051	1.3500 ug/L #	64
30) Propionitrile	9.13	54	12840	19.0103 ug/L	95
31) 2,2-Dichloropropane	9.25	77	23038	2.1660 ug/L	86
32) cis-1,2-Dichloroethene	9.33	96	15852	1.9416 ug/L	94
33) Chloroform	9.57	83	25879	1.9518 ug/L	93
34) Bromochloromethane	9.81	130	8897	1.7653 ug/L	96
35) Tetrahydrofuran	9.85	42	28381	18.3400 ug/L	89
37) 1,1,1-Trichloroethane	10.16	97	23392	1.9897 ug/L	95
38) Cyclohexane	10.19	56	22294	1.6635 ug/L	93
39) 1,1-Dichloropropene	10.39	75	20305	2.1435 ug/L	86
40) Tert-Amyl-Methyl ether	10.52	73	355672	24.3928 ug/L	95
41) Carbon Tetrachloride	10.56	117	23136	2.0047 ug/L	91
44) 1,2-Dichloroethane	10.76	62	17601	1.8292 ug/L	90
45) Benzene	10.79	78	54605	1.9560 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96331.D Vial: 5
Acq On : 15 Dec 2010 11:22 Operator: MES
Sample : WG351532-05 2ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:47:30 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

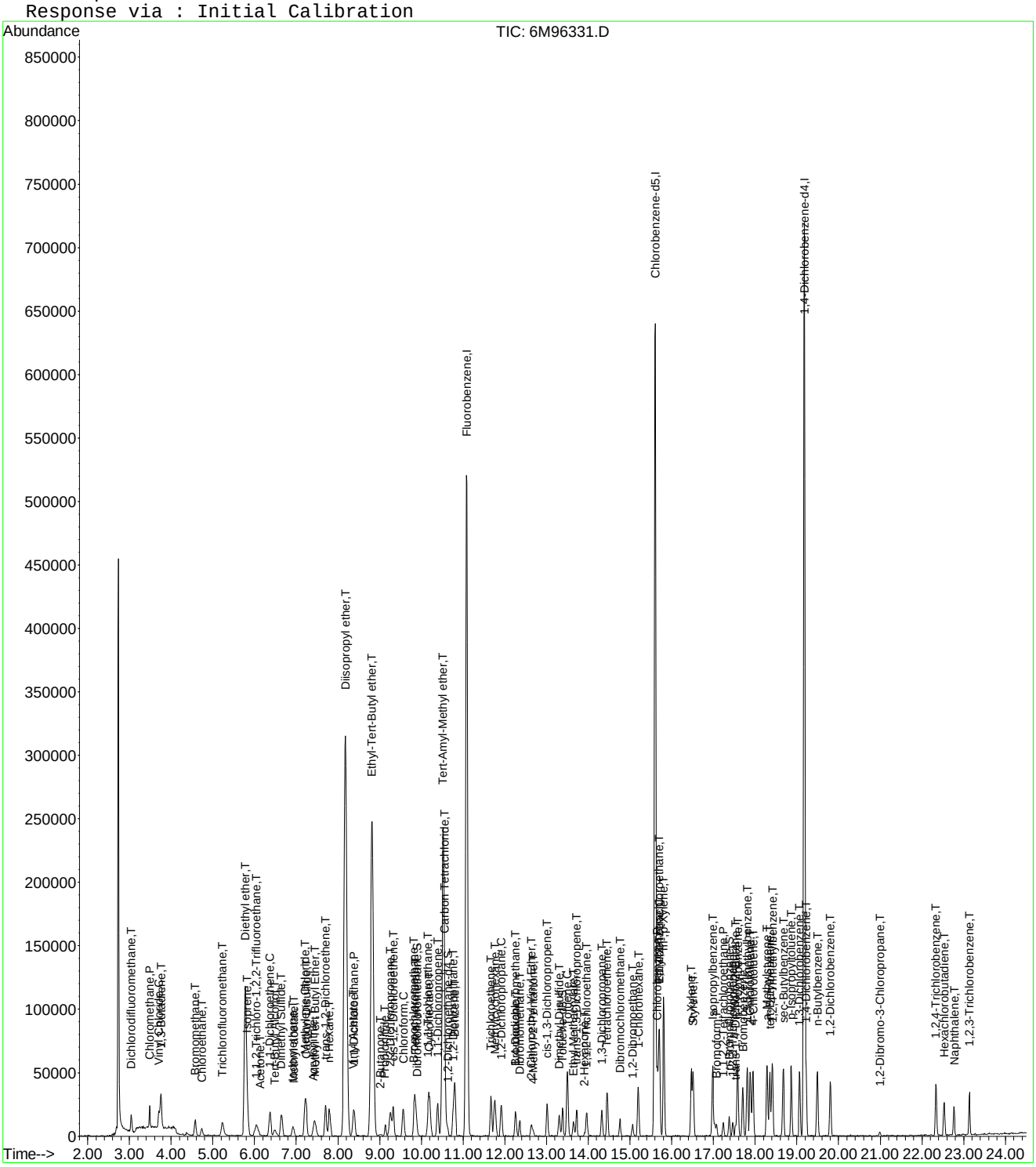
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Trichloroethene	11.66	130	16040	1.7820 ug/L	95
47) Methylcyclohexane	11.76	83	19743	1.8694 ug/L	92
48) 1,2-Dichloropropane	11.92	63	14200	1.7569 ug/L	94
49) 1,4-Dioxane	12.25	88	1010	31.6622 ug/L	90
50) Bromodichloromethane	12.25	83	18093	1.9053 ug/L	99
51) Dibromomethane	12.36	93	6484	1.7177 ug/L	94
52) 2-Chloroethyl Vinyl Ether	12.63	63	5410	1.6556 ug/L	97
53) 4-Methyl-2-Pentanone	12.67	58	2008	1.2264 ug/L #	63
54) cis-1,3-Dichloropropene	13.01	75	19045	1.8481 ug/L	92
55) Dimethyl Disulfide	13.31	79	6866	1.2963 ug/L	89
58) Toluene	13.50	91	58202	1.9710 ug/L	98
59) Ethyl Methacrylate	13.64	69	10540	2.0640 ug/L	70
60) trans-1,3-Dichloropropene	13.71	75	15588	1.9041 ug/L	99
61) 1,1,2-Trichloroethane	13.96	97	9001	1.8551 ug/L	98
62) 2-Hexanone	13.91	43	4045	1.3788 ug/L	96
63) 1,3-Dichloropropane	14.33	76	15251	1.9797 ug/L	89
64) Tetrachloroethene	14.45	166	16505	1.8243 ug/L	98
65) Dibromochloromethane	14.76	129	12297	1.8326 ug/L	99
66) 1,2-Dibromoethane	15.06	107	9541	1.9709 ug/L	99
67) 1-Chlorohexane	15.20	91	18805	1.9808 ug/L	88
68) Chlorobenzene	15.65	112	40771	1.8338 ug/L	80
69) 1,1,1,2-Tetrachloroethane	15.69	131	14466	1.8478 ug/L	95
70) Ethylbenzene	15.70	106	20610	1.8890 ug/L	98
71) m-,p-Xylene	15.81	106	48949	3.6771 ug/L	94
72) o-Xylene	16.47	106	23690	1.8988 ug/L	99
73) Styrene	16.51	104	37886	1.8357 ug/L	90
74) Bromoform	17.07	173	6990	1.7717 ug/L	90
75) Isopropylbenzene	16.98	105	63708	2.0029 ug/L	97
77) 1,1,2,2-Tetrachloroethane	17.24	83	9115	2.0422 ug/L	97
79) 1,2,3-Trichloropropane	17.46	110	2961	2.1822 ug/L	89
80) trans-1,4-Dichloro-2-Buten	17.53	53	3602	1.9291 ug/L	81
81) n-Propylbenzene	17.58	91	69939	2.0683 ug/L	98
82) Bromobenzene	17.72	156	17012	1.9777 ug/L	100
83) 1,3,5-Trimethylbenzene	17.81	105	49203	2.0790 ug/L	99
84) 2-Chlorotoluene	17.88	91	43231	2.0268 ug/L	97
85) 4-Chlorotoluene	17.95	91	44769	2.1511 ug/L	92
86) a-Methylstyrene	18.28	118	29439	2.1604 ug/L	100
87) tert-Butylbenzene	18.36	134	11919	2.0759 ug/L	91
88) 1,2,4-Trimethylbenzene	18.42	105	50627	2.0404 ug/L	91
89) sec-Butylbenzene	18.68	105	65021	2.2248 ug/L	96
90) p-Isopropyltoluene	18.87	119	55848	2.1723 ug/L	98
91) 1,3-Dichlorobenzene	19.06	146	33457	2.0341 ug/L	98
92) 1,4-Dichlorobenzene	19.23	146	34121	2.0251 ug/L	86
93) n-Butylbenzene	19.49	91	45699	2.0666 ug/L	94
94) 1,2-Dichlorobenzene	19.80	146	29525	2.0268 ug/L	98
95) 1,2-Dibromo-3-Chloropropan	20.99	75	1439	2.2427 ug/L	88
96) 1,2,4-Trichlorobenzene	22.33	180	20944	2.0770 ug/L	98
97) Hexachlorobutadiene	22.54	225	8684	2.2580 ug/L	94
98) Naphthalene	22.77	128	28062	1.8232 ug/L	98
99) 1,2,3-Trichlorobenzene	23.14	180	16471	1.9829 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M96331.D 8260WTR.M Wed Dec 15 11:47:31 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96331.D Vial: 5
Acq On : 15 Dec 2010 11:22 Operator: MES
Sample : WG351532-05 2ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 11:47 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration



6M96331.D 8260WTR.M Wed Dec 15 11:47:32 2010 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96332.D Vial: 6
Acq On : 15 Dec 2010 11:54 Operator: MES
Sample : WG351532-06 5ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:18:47 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	716304	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	557745	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	289658	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	9.89	111	18821	2.4103 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 9.64%#		
42) 1,2-Dichloroethane-d4	10.62	65	16752	2.3531 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 9.40%#		
57) Toluene-d8	13.38	98	61672	2.5873 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 10.36%#		
78) p-Bromofluorobenzene	17.38	95	22087	2.7648 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 11.04%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	43436	4.5426 ug/L	95
3) Chloromethane	3.49	50	49638	2.9755 ug/L	90
4) Vinyl Chloride	3.70	62	35472	3.4970 ug/L	99
5) 1,3-Butadiene	3.75	54	36820	5.7450 ug/L	82
6) Bromomethane	4.58	94	28058	6.4732 ug/L	97
7) Chloroethane	4.75	64	23848	4.2560 ug/L	90
8) Trichlorofluoromethane	5.24	101	64851	5.3214 ug/L	98
9) Diethyl ether	5.78	59	227983	45.4940 ug/L	91
10) Isoprene	5.82	67	50433	5.4952 ug/L	92
11) Acrolein	6.03	56	1276	2.7142 ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	38719	5.2062 ug/L	96
13) Acetone	6.12	43	5453	4.0035 ug/L	82
14) 1,1-Dichloroethene	6.37	61	56512	4.7829 ug/L	96
15) Tert-Butyl Alcohol	6.48	59	23842	75.1468 ug/L	92
16) Dimethyl Sulfide	6.64	62	37086	4.5941 ug/L	86
17) Iodomethane	6.92	142	39304	7.9355 ug/L	99
18) Methyl acetate	6.94	43	19779	3.6503 ug/L	97
19) Methylene Chloride	7.21	84	35089	4.6719 ug/L	80
20) Carbon Disulfide	7.25	76	102624	4.7868 ug/L	99
21) Acrylonitrile	7.41	53	7228	3.7152 ug/L	93
22) Methyl Tert Butyl Ether	7.45	73	65044	5.4091 ug/L	93
23) trans-1,2-Dichloroethene	7.71	96	36106	5.2149 ug/L	91
24) n-Hexane	7.80	57	47564	4.4780 ug/L	96
25) Diisopropyl ether	8.18	45	1262439	41.1422 ug/L	97
26) Vinyl Acetate	8.37	43	47445	6.2109 ug/L	100
27) 1,1-Dichloroethane	8.39	63	67134	4.8057 ug/L	99
28) Ethyl-Tert-Butyl ether	8.82	59	946999	44.7021 ug/L	94
29) 2-Butanone	9.02	43	7784	3.5591 ug/L	97
30) Propionitrile	9.14	54	22567	34.5256 ug/L	93
31) 2,2-Dichloropropane	9.26	77	54787	5.3227 ug/L	85
32) cis-1,2-Dichloroethene	9.33	96	38920	4.9261 ug/L	92
33) Chloroform	9.57	83	62423	4.8650 ug/L	95
34) Bromochloromethane	9.82	130	23844	4.8889 ug/L	94
35) Tetrahydrofuran	9.85	42	52061	34.7638 ug/L	88
37) 1,1,1-Trichloroethane	10.17	97	58759	5.1647 ug/L	93
38) Cyclohexane	10.20	56	57462	4.4306 ug/L	93
39) 1,1-Dichloropropene	10.39	75	49049	5.3505 ug/L	89
40) Tert-Amyl-Methyl ether	10.53	73	671279	47.5727 ug/L	95
41) Carbon Tetrachloride	10.56	117	58504	5.2382 ug/L	99
44) 1,2-Dichloroethane	10.76	62	42770	4.5930 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96332.D Vial: 6
Acq On : 15 Dec 2010 11:54 Operator: MES
Sample : WG351532-06 5ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:18:47 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

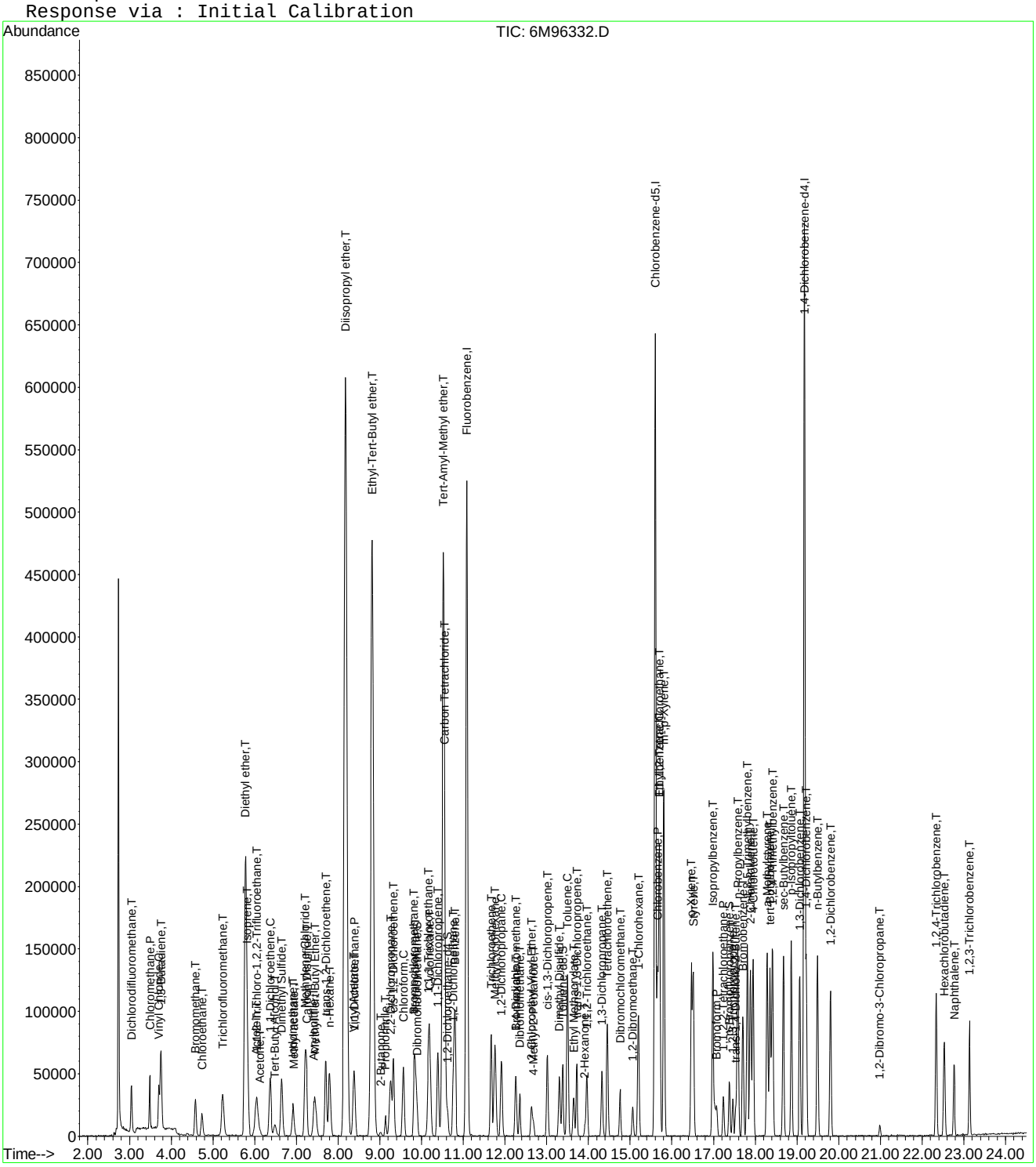
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) Benzene	10.80	78	134526	4.9795 ug/L	91
46) Trichloroethene	11.67	130	42261	4.8515 ug/L	95
47) Methylcyclohexane	11.76	83	50022	4.8944 ug/L	92
48) 1,2-Dichloropropane	11.91	63	33791	4.3203 ug/L	88
49) 1,4-Dioxane	12.26	88	2559	82.8961 ug/L	89
50) Bromodichloromethane	12.26	83	42830	4.6607 ug/L	95
51) Dibromomethane	12.35	93	17015	4.6577 ug/L	99
52) 2-Chloroethyl Vinyl Ether	12.64	63	12854	4.0648 ug/L	96
53) 4-Methyl-2-Pentanone	12.68	58	6331	3.9956 ug/L	98
54) cis-1,3-Dichloropropene	13.02	75	48531	4.8665 ug/L	94
55) Dimethyl Disulfide	13.30	79	19689	3.8411 ug/L	94
58) Toluene	13.50	91	142599	4.9801 ug/L	100
59) Ethyl Methacrylate	13.65	69	23830	4.8125 ug/L	86
60) trans-1,3-Dichloropropene	13.72	75	40647	5.1204 ug/L	95
61) 1,1,2-Trichloroethane	13.97	97	23359	4.9649 ug/L	96
62) 2-Hexanone	13.92	43	10270	3.6102 ug/L	98
63) 1,3-Dichloropropane	14.32	76	39520	5.2905 ug/L	83
64) Tetrachloroethene	14.46	166	41371	4.7158 ug/L	98
65) Dibromochloromethane	14.76	129	31945	4.9096 ug/L	99
66) 1,2-Dibromoethane	15.06	107	23575	5.0223 ug/L	99
67) 1-Chlorohexane	15.20	91	49066	5.3301 ug/L	86
68) Chlorobenzene	15.66	112	105481	4.8928 ug/L	90
69) 1,1,1,2-Tetrachloroethane	15.70	131	38424	5.0617 ug/L	99
70) Ethylbenzene	15.70	106	53940	5.0985 ug/L	95
71) m-,p-Xylene	15.81	106	128790	9.9774 ug/L	99
72) o-Xylene	16.47	106	62251	5.1456 ug/L	99
73) Styrene	16.52	104	101004	5.0471 ug/L	96
74) Bromoform	17.07	173	18525	4.8423 ug/L	98
75) Isopropylbenzene	16.98	105	163823	5.3114 ug/L	99
77) 1,1,2,2-Tetrachloroethane	17.23	83	22653	5.0884 ug/L	92
79) 1,2,3-Trichloropropane	17.46	110	7033	5.1965 ug/L	75
80) trans-1,4-Dichloro-2-Buten	17.53	53	8416	4.5189 ug/L	99
81) n-Propylbenzene	17.58	91	186368	5.5256 ug/L	99
82) Bromobenzene	17.70	156	45263	5.2755 ug/L	97
83) 1,3,5-Trimethylbenzene	17.81	105	130103	5.5113 ug/L	98
84) 2-Chlorotoluene	17.89	91	120039	5.6422 ug/L	96
85) 4-Chlorotoluene	17.95	91	111475	5.3700 ug/L	96
86) a-Methylstyrene	18.29	118	71726	5.2772 ug/L	91
87) tert-Butylbenzene	18.36	134	30501	5.3259 ug/L	89
88) 1,2,4-Trimethylbenzene	18.42	105	135470	5.4737 ug/L	99
89) sec-Butylbenzene	18.67	105	166514	5.7121 ug/L	98
90) p-Isopropyltoluene	18.87	119	149988	5.8489 ug/L	95
91) 1,3-Dichlorobenzene	19.07	146	85743	5.2264 ug/L	99
92) 1,4-Dichlorobenzene	19.23	146	89355	5.3167 ug/L	93
93) n-Butylbenzene	19.49	91	120766	5.4753 ug/L	98
94) 1,2-Dichlorobenzene	19.81	146	78238	5.3847 ug/L	98
95) 1,2-Dibromo-3-Chloropropan	20.98	75	3251	5.0798 ug/L	97
96) 1,2,4-Trichlorobenzene	22.34	180	53424	5.3115 ug/L	97
97) Hexachlorobutadiene	22.53	225	25818	6.7302 ug/L	97
98) Naphthalene	22.77	128	72026	4.6915 ug/L	100
99) 1,2,3-Trichlorobenzene	23.14	180	43243	5.2192 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96332.D Vial: 6
Acq On : 15 Dec 2010 11:54 Operator: MES
Sample : WG351532-06 5ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:18 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 10:51:12 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96333.D Vial: 7
Acq On : 15 Dec 2010 12:25 Operator: MES
Sample : WG351532-07 20ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:49:59 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 12:35:06 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	720854	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	571078	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	290332	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	9.89	111	76772	10.0328 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 40.12%#		
42) 1,2-Dichloroethane-d4	10.62	65	72717	10.5591 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 42.24%#		
57) Toluene-d8	13.39	98	248870	10.1408 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 40.56%#		
78) p-Bromofluorobenzene	17.38	95	91664	11.1201 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 44.48%#		

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.04	85	180692	20.2039 ug/L	93
3) Chloromethane	3.48	50	201363	15.0923 ug/L	94
4) Vinyl Chloride	3.71	62	143243	17.0688 ug/L	97
5) 1,3-Butadiene	3.75	54	118721	20.0951 ug/L	96
6) Bromomethane	4.58	94	100977	19.5909 ug/L	97
7) Chloroethane	4.74	64	97434	18.8860 ug/L	92
8) Trichlorofluoromethane	5.23	101	265754	22.0865 ug/L	99
9) Diethyl ether	5.78	59	365199	75.7161 ug/L	91
10) Isoprene	5.82	67	216209	22.0811 ug/L	89
11) Acrolein	6.02	56	7668	18.0651 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	158387	21.4426 ug/L	98
13) Acetone	6.13	43	23299	17.4372 ug/L	98
14) 1,1-Dichloroethene	6.37	61	245251	20.9697 ug/L	97
15) Tert-Butyl Alcohol	6.48	59	41694	142.7164 ug/L	95
16) Dimethyl Sulfide	6.65	62	155182	19.7066 ug/L	90
17) Iodomethane	6.91	142	209433	31.9668 ug/L	98
18) Methyl acetate	6.93	43	79297	16.7904 ug/L	97
19) Methylene Chloride	7.21	84	138553	19.0584 ug/L	81
20) Carbon Disulfide	7.24	76	426945	20.1035 ug/L	100
21) Acrylonitrile	7.40	53	32579	17.0933 ug/L	100
22) Methyl Tert Butyl Ether	7.44	73	272989	21.8719 ug/L	94
23) trans-1,2-Dichloroethene	7.70	96	154464	21.7736 ug/L	89
24) n-Hexane	7.79	57	201382	19.5856 ug/L	96
25) Diisopropyl ether	8.18	45	2028341	71.3614 ug/L	97
26) Vinyl Acetate	8.36	43	191942	24.3670 ug/L	97
27) 1,1-Dichloroethane	8.39	63	276698	20.2478 ug/L	97
28) Ethyl-Tert-Butyl ether	8.82	59	1539337	75.5714 ug/L	94
29) 2-Butanone	9.02	43	34221	16.4189 ug/L	92
30) Propionitrile	9.13	54	39803	70.6948 ug/L	99
31) 2,2-Dichloropropane	9.25	77	242558	22.2208 ug/L	83
32) cis-1,2-Dichloroethene	9.33	96	163731	20.6481 ug/L	91
33) Chloroform	9.57	83	259933	20.2266 ug/L	93
34) Bromochloromethane	9.82	130	96765	20.4966 ug/L	99
35) Tetrahydrofuran	9.85	42	84748	65.4648 ug/L	89
37) 1,1,1-Trichloroethane	10.17	97	251306	21.5448 ug/L	91
38) Cyclohexane	10.20	56	238944	19.1292 ug/L	93
39) 1,1-Dichloropropene	10.39	75	204239	21.3327 ug/L	89
40) Tert-Amyl-Methyl ether	10.53	73	1101756	79.1427 ug/L	94
41) Carbon Tetrachloride	10.55	117	250951	21.9253 ug/L	99
44) 1,2-Dichloroethane	10.76	62	187142	20.8258 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96333.D Vial: 7
Acq On : 15 Dec 2010 12:25 Operator: MES
Sample : WG351532-07 20ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:49:59 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 12:35:06 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

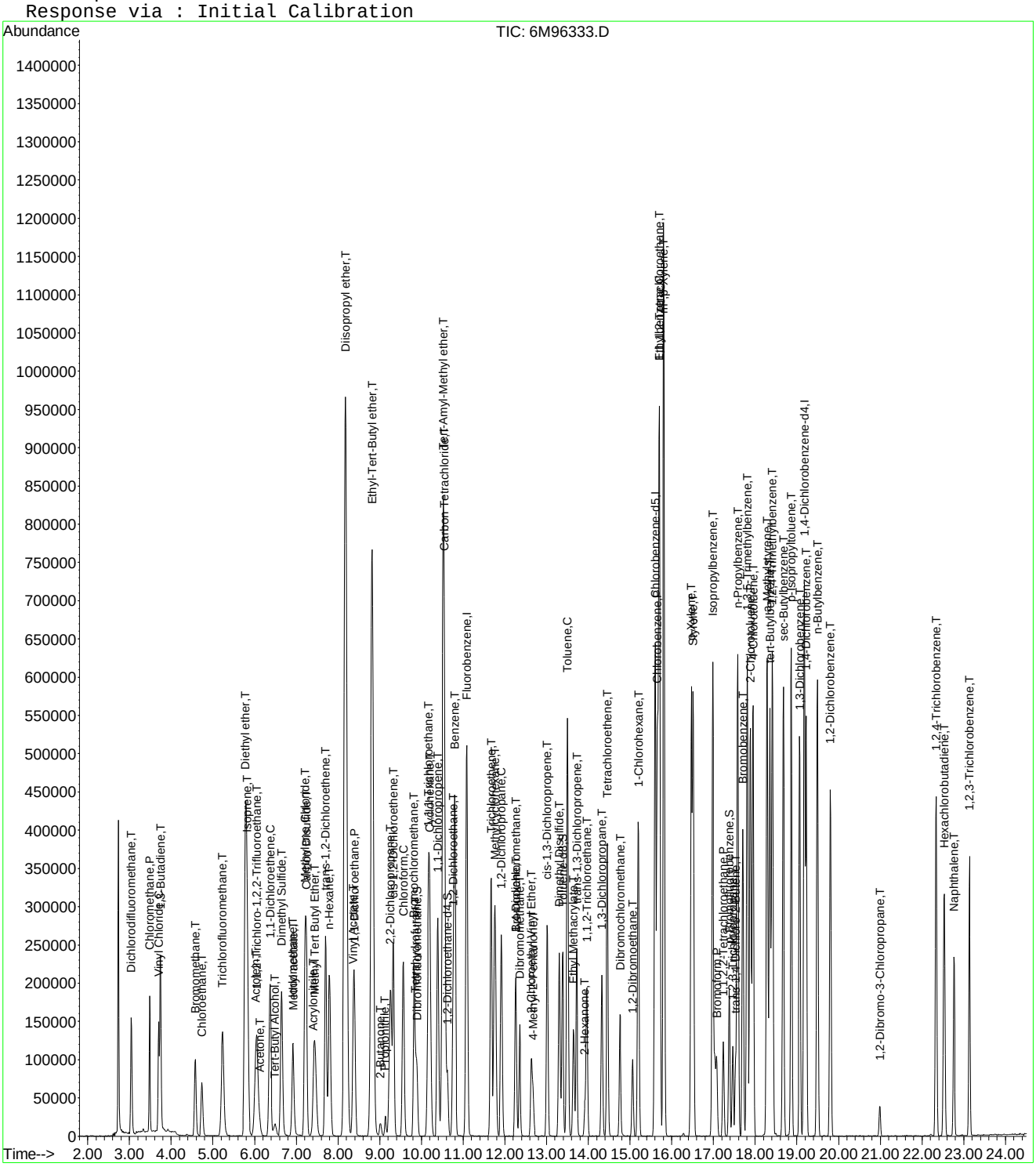
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Benzene	10.79	78	561370	20.5898	ug/L	92
46)	Trichloroethene	11.67	130	177255	20.3121	ug/L	94
47)	Methylcyclohexane	11.76	83	213292	20.8130	ug/L	91
48)	1,2-Dichloropropane	11.92	63	145024	19.5341	ug/L	90
49)	1,4-Dioxane	12.26	88	4301	147.9770	ug/L	80
50)	Bromodichloromethane	12.26	83	186606	20.7563	ug/L	96
51)	Dibromomethane	12.35	93	72665	21.3972	ug/L	98
52)	2-Chloroethyl Vinyl Ether	12.63	63	54036	17.2227	ug/L	95
53)	4-Methyl-2-Pentanone	12.67	58	25248	16.3018	ug/L	90
54)	cis-1,3-Dichloropropene	13.01	75	208664	20.7359	ug/L	96
55)	Dimethyl Disulfide	13.30	79	96036	18.5566	ug/L	94
58)	Toluene	13.50	91	596514	20.0307	ug/L	99
59)	Ethyl Methacrylate	13.64	69	102986	20.3723	ug/L	83
60)	trans-1,3-Dichloropropene	13.72	75	173842	21.1937	ug/L	100
61)	1,1,2-Trichloroethane	13.97	97	91943	19.8563	ug/L	96
62)	2-Hexanone	13.92	43	46884	16.7742	ug/L	100
63)	1,3-Dichloropropane	14.33	76	158952	20.8352	ug/L	83
64)	Tetrachloroethene	14.46	166	177211	20.0384	ug/L	99
65)	Dibromochloromethane	14.76	129	135121	20.8323	ug/L	98
66)	1,2-Dibromoethane	15.06	107	96409	20.5859	ug/L	98
67)	1-Chlorohexane	15.20	91	203960	20.8579	ug/L	88
68)	Chlorobenzene	15.65	112	416145	19.2006	ug/L	92
69)	1,1,1,2-Tetrachloroethane	15.70	131	155657	20.3633	ug/L	98
70)	Ethylbenzene	15.70	106	220031	20.2110	ug/L	99
71)	m-,p-Xylene	15.81	106	533583	40.4265	ug/L	97
72)	o-Xylene	16.47	106	258167	20.5645	ug/L	100
73)	Styrene	16.51	104	429070	20.7540	ug/L	94
74)	Bromoform	17.08	173	76367	20.1319	ug/L	99
75)	Isopropylbenzene	16.98	105	671365	20.5796	ug/L	99
77)	1,1,2,2-Tetrachloroethane	17.24	83	85534	20.4974	ug/L	96
79)	1,2,3-Trichloropropane	17.46	110	27027	20.5478	ug/L	89
80)	trans-1,4-Dichloro-2-Buten	17.53	53	33101	18.8650	ug/L	85
81)	n-Propylbenzene	17.58	91	774956	22.0124	ug/L	99
82)	Bromobenzene	17.71	156	179105	20.8371	ug/L	97
83)	1,3,5-Trimethylbenzene	17.81	105	548542	22.2113	ug/L	100
84)	2-Chlorotoluene	17.89	91	487918	21.9675	ug/L	97
85)	4-Chlorotoluene	17.95	91	436706	20.6464	ug/L	96
86)	a-Methylstyrene	18.29	118	314863	21.6794	ug/L	98
87)	tert-Butylbenzene	18.35	134	124451	21.0876	ug/L	87
88)	1,2,4-Trimethylbenzene	18.41	105	552676	21.3823	ug/L	88
89)	sec-Butylbenzene	18.68	105	684339	21.8801	ug/L	98
90)	p-Isopropyltoluene	18.87	119	615043	22.3265	ug/L	97
91)	1,3-Dichlorobenzene	19.07	146	342802	20.8361	ug/L	98
92)	1,4-Dichlorobenzene	19.23	146	347272	20.7120	ug/L	99
93)	n-Butylbenzene	19.49	91	508420	21.8530	ug/L	98
94)	1,2-Dichlorobenzene	19.80	146	293854	20.2475	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	20.99	75	13779	20.1037	ug/L	94
96)	1,2,4-Trichlorobenzene	22.34	180	208345	20.3150	ug/L	99
97)	Hexachlorobutadiene	22.54	225	101225	23.4540	ug/L	99
98)	Naphthalene	22.76	128	283155	19.0679	ug/L	99
99)	1,2,3-Trichlorobenzene	23.14	180	167728	20.4445	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96333.D Vial: 7
Acq On : 15 Dec 2010 12:25 Operator: MES
Sample : WG351532-07 20ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 12:49 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 12:35:06 2010
Response via : Initial Calibration



6M96333.D 8260WTR.M Wed Dec 15 12:50:00 2010 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96334.D Vial: 8
Acq On : 15 Dec 2010 12:56 Operator: MES
Sample : WG351532-08 50ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 16 16:53:29 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	712409	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	571108	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	296487	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	189717	25.8392 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.36%		
42) 1,2-Dichloroethane-d4	10.62	65	176940	26.2300 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.92%		
57) Toluene-d8	13.38	98	641759	26.0834 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.32%		
78) p-Bromofluorobenzene	17.38	95	235254	26.2932 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.16%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	441049	53.0707 ug/L	100
3) Chloromethane	3.48	50	485958	49.3962 ug/L	100
4) Vinyl Chloride	3.70	62	349949	52.1461 ug/L	100
5) 1,3-Butadiene	3.74	54	266067	54.7774 ug/L	100
6) Bromomethane	4.57	94	235439	51.4193 ug/L	100
7) Chloroethane	4.73	64	241877	53.4172 ug/L	100
8) Trichlorofluoromethane	5.22	101	655284	55.4340 ug/L	100
9) Diethyl ether	5.78	59	457760	101.0103 ug/L	100
10) Isoprene	5.82	67	519980	51.9745 ug/L	100
11) Acrolein	6.02	56	21389	88.9600 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	385640	53.0460 ug/L	100
13) Acetone	6.12	43	57647	53.7118 ug/L	100
14) 1,1-Dichloroethene	6.37	61	603978	53.2779 ug/L	100
15) Tert-Butyl Alcohol	6.49	59	45723	192.8749 ug/L	100
16) Dimethyl Sulfide	6.64	62	375584	52.2205 ug/L	100
17) Iodomethane	6.91	142	522365	52.4138 ug/L	100
18) Methyl acetate	6.93	43	187577	50.1985 ug/L	100
19) Methylene Chloride	7.21	84	338438	49.3063 ug/L	100
20) Carbon Disulfide	7.24	76	1061680	52.2268 ug/L	100
21) Acrylonitrile	7.41	53	83953	53.4825 ug/L	100
22) Methyl Tert Butyl Ether	7.45	73	686150	52.3393 ug/L	100
23) trans-1,2-Dichloroethene	7.70	96	377868	53.0375 ug/L	100
24) n-Hexane	7.80	57	487577	51.5541 ug/L	100
25) Diisopropyl ether	8.18	45	2517816	101.9481 ug/L	100
26) Vinyl Acetate	8.36	43	448215	47.4480 ug/L	100
27) 1,1-Dichloroethane	8.39	63	674670	52.0653 ug/L	100
28) Ethyl-Tert-Butyl ether	8.82	59	1917337	102.4146 ug/L	100
29) 2-Butanone	9.01	43	84023	51.9976 ug/L	100
30) Propionitrile	9.14	54	48874	107.5451 ug/L	100
31) 2,2-Dichloropropane	9.26	77	590069	52.4551 ug/L	100
32) cis-1,2-Dichloroethene	9.33	96	396601	51.1849 ug/L	100
33) Chloroform	9.56	83	646898	51.3173 ug/L	100
34) Bromochloromethane	9.82	130	239249	53.1700 ug/L	100
35) Tetrahydrofuran	9.85	42	109148	102.8898 ug/L	100
37) 1,1,1-Trichloroethane	10.17	97	621616	53.3342 ug/L	100
38) Cyclohexane	10.20	56	590578	52.1331 ug/L	100
39) 1,1-Dichloropropene	10.39	75	506594	52.9751 ug/L	100
40) Tert-Amyl-Methyl ether	10.52	73	1382714	102.9215 ug/L	100
41) Carbon Tetrachloride	10.56	117	625301	54.3447 ug/L	100
44) 1,2-Dichloroethane	10.76	62	452779	52.7853 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96334.D Vial: 8
Acq On : 15 Dec 2010 12:56 Operator: MES
Sample : WG351532-08 50ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 16 16:53:29 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

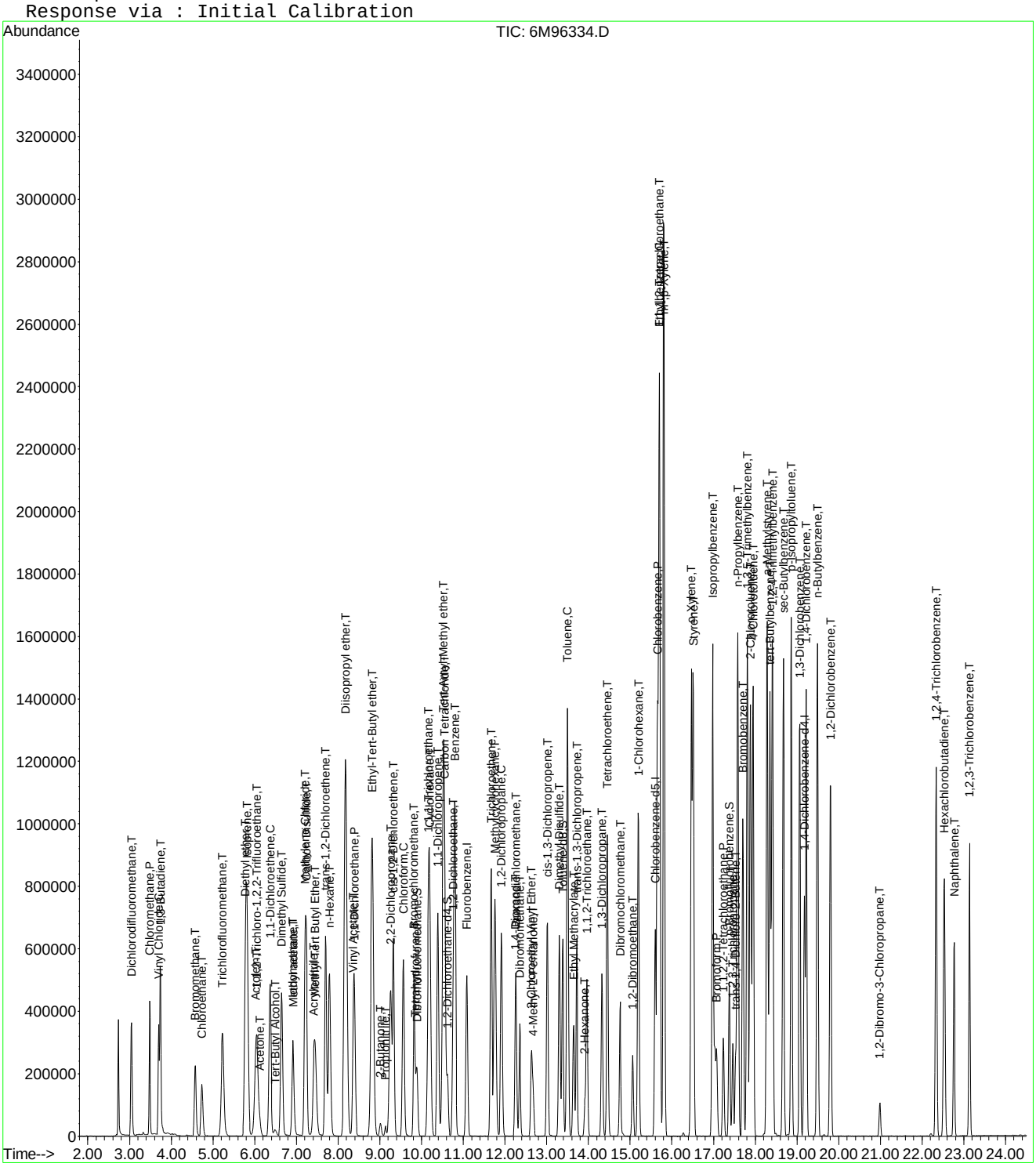
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Benzene	10.80	78	1375364	51.3831 ug/L	100
46)	Trichloroethene	11.67	130	438538	53.1983 ug/L	100
47)	Methylcyclohexane	11.76	83	527782	52.4169 ug/L	100
48)	1,2-Dichloropropane	11.91	63	361686	53.1363 ug/L	100
49)	1,4-Dioxane	12.25	88	6343	223.0796 ug/L	100
50)	Bromodichloromethane	12.26	83	466061	54.2283 ug/L	100
51)	Dibromomethane	12.35	93	178311	51.7286 ug/L	100
52)	2-Chloroethyl Vinyl Ether	12.63	63	143777	51.8118 ug/L	100
53)	4-Methyl-2-Pentanone	12.67	58	65628	52.5841 ug/L	100
54)	cis-1,3-Dichloropropene	13.02	75	528511	54.1293 ug/L	100
55)	Dimethyl Disulfide	13.30	79	261909	53.4691 ug/L	100
58)	Toluene	13.50	91	1474044	50.2394 ug/L	100
59)	Ethyl Methacrylate	13.65	69	268564	52.8963 ug/L	100
60)	trans-1,3-Dichloropropene	13.72	75	441214	53.8056 ug/L	100
61)	1,1,2-Trichloroethane	13.97	97	229420	51.0843 ug/L	100
62)	2-Hexanone	13.91	43	122982	53.7981 ug/L	100
63)	1,3-Dichloropropane	14.32	76	398049	52.4649 ug/L	100
64)	Tetrachloroethene	14.46	166	445092	51.3410 ug/L	100
65)	Dibromochloromethane	14.76	129	344465	54.7687 ug/L	100
66)	1,2-Dibromoethane	15.06	107	247068	53.9519 ug/L	100
67)	1-Chlorohexane	15.20	91	513060	52.2229 ug/L	100
68)	Chlorobenzene	15.66	112	1039536	50.0764 ug/L	100
69)	1,1,1,2-Tetrachloroethane	15.70	131	398075	54.2763 ug/L	100
70)	Ethylbenzene	15.70	106	554768	52.1367 ug/L	100
71)	m-,p-Xylene	15.81	106	1364093	106.1107 ug/L	100
72)	o-Xylene	16.47	106	645161	52.2830 ug/L	100
73)	Styrene	16.52	104	1101508	54.8387 ug/L	100
74)	Bromoform	17.07	173	198630	54.9246 ug/L	100
75)	Isopropylbenzene	16.98	105	1702955	52.6009 ug/L	100
77)	1,1,2,2-Tetrachloroethane	17.23	83	221984	52.6292 ug/L	100
79)	1,2,3-Trichloropropane	17.46	110	71179	52.7361 ug/L	96
80)	trans-1,4-Dichloro-2-Buten	17.53	53	85893	50.5612 ug/L	100
81)	n-Propylbenzene	17.58	91	1961485	52.6790 ug/L	100
82)	Bromobenzene	17.70	156	448818	50.9269 ug/L	100
83)	1,3,5-Trimethylbenzene	17.81	105	1391118	52.8179 ug/L	100
84)	2-Chlorotoluene	17.89	91	1234640	52.5960 ug/L	100
85)	4-Chlorotoluene	17.95	91	1127230	50.7371 ug/L	100
86)	a-Methylstyrene	18.29	118	821533	52.8248 ug/L	100
87)	tert-Butylbenzene	18.36	134	313026	51.7514 ug/L	100
88)	1,2,4-Trimethylbenzene	18.42	105	1414329	52.1490 ug/L	100
89)	sec-Butylbenzene	18.67	105	1750241	52.5025 ug/L	100
90)	p-Isopropyltoluene	18.87	119	1579621	53.4249 ug/L	100
91)	1,3-Dichlorobenzene	19.07	146	870852	51.6566 ug/L	100
92)	1,4-Dichlorobenzene	19.22	146	881849	51.3587 ug/L	100
93)	n-Butylbenzene	19.49	91	1316578	52.9781 ug/L	100
94)	1,2-Dichlorobenzene	19.81	146	754528	51.0426 ug/L	100
95)	1,2-Dibromo-3-Chloropropan	20.98	75	36976	51.3731 ug/L	100
96)	1,2,4-Trichlorobenzene	22.34	180	536328	50.7029 ug/L	100
97)	Hexachlorobutadiene	22.53	225	258394	51.8120 ug/L	100
98)	Naphthalene	22.77	128	741285	51.8409 ug/L	100
99)	1,2,3-Trichlorobenzene	23.14	180	432923	51.9530 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96334.D Vial: 8
Acq On : 15 Dec 2010 12:56 Operator: MES
Sample : WG351532-08 50ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 16 16:53 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96335.D Vial: 9
Acq On : 15 Dec 2010 13:29 Operator: MES
Sample : WG351532-09 100ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 13:54:07 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:27:24 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	727488	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	564569	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	293410	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	386070	50.0639 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 200.24%#		
42) 1,2-Dichloroethane-d4	10.63	65	356383	50.7089 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 202.84%#		
57) Toluene-d8	13.38	98	1270143	51.9884 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 207.96%#		
78) p-Bromofluorobenzene	17.38	95	465079	53.8436 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 215.36%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	857042	97.8640 ug/L	100
3) Chloromethane	3.48	50	985402	85.7821 ug/L	99
4) Vinyl Chloride	3.70	62	675580	89.9912 ug/L	100
5) 1,3-Butadiene	3.73	54	509344	85.6072 ug/L	99
6) Bromomethane	4.57	94	449020	83.2054 ug/L	99
7) Chloroethane	4.73	64	454270	92.5932 ug/L	99
8) Trichlorofluoromethane	5.22	101	1291295	104.6525 ug/L	99
9) Diethyl ether	5.78	59	910685	187.5973 ug/L	99
10) Isoprene	5.82	67	1042365	100.9212 ug/L	100
11) Acrolein	6.02	56	50090	141.4053 ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	6.05	101	765586	100.2377 ug/L	100
13) Acetone	6.13	43	107462	84.6052 ug/L	96
14) 1,1-Dichloroethene	6.37	61	1203494	100.8500 ug/L	100
15) Tert-Butyl Alcohol	6.51	59	85551	324.2723 ug/L	98
16) Dimethyl Sulfide	6.64	62	735334	94.5775 ug/L	99
17) Iodomethane	6.91	142	934521	123.3042 ug/L	99
18) Methyl acetate	6.94	43	375329	84.2824 ug/L	98
19) Methylene Chloride	7.21	84	667151	92.4719 ug/L	99
20) Carbon Disulfide	7.25	76	2093116	98.0531 ug/L	100
21) Acrylonitrile	7.41	53	166915	90.8161 ug/L	99
22) Methyl Tert Butyl Ether	7.45	73	1391834	104.8962 ug/L	100
23) trans-1,2-Dichloroethene	7.71	96	748334	101.3162 ug/L	99
24) n-Hexane	7.80	57	1005029	98.8559 ug/L	100
25) Diisopropyl ether	8.18	45	4967796	182.2345 ug/L	100
26) Vinyl Acetate	8.37	43	1017962	116.7370 ug/L	99
27) 1,1-Dichloroethane	8.39	63	1347177	97.9298 ug/L	100
28) Ethyl-Tert-Butyl ether	8.82	59	3822895	189.7147 ug/L	100
29) 2-Butanone	9.01	43	166433	85.0177 ug/L	100
30) Propionitrile	9.14	54	96466	186.8650 ug/L	97
31) 2,2-Dichloropropane	9.26	77	1208465	105.6806 ug/L	100
32) cis-1,2-Dichloroethene	9.33	96	795752	98.3958 ug/L	99
33) Chloroform	9.56	83	1295125	99.2290 ug/L	99
34) Bromochloromethane	9.82	130	474773	100.3154 ug/L	99
35) Tetrahydrofuran	9.85	42	214267	177.5502 ug/L	99
37) 1,1,1-Trichloroethane	10.17	97	1251004	104.3686 ug/L	100
38) Cyclohexane	10.20	56	1184067	96.2004 ug/L	100
39) 1,1-Dichloropropene	10.39	75	1016460	103.5171 ug/L	100
40) Tert-Amyl-Methyl ether	10.52	73	2779664	198.2818 ug/L	99
41) Carbon Tetrachloride	10.55	117	1269163	107.7018 ug/L	99
44) 1,2-Dichloroethane	10.76	62	902660	100.0814 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96335.D Vial: 9
Acq On : 15 Dec 2010 13:29 Operator: MES
Sample : WG351532-09 100ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 13:54:07 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:27:24 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

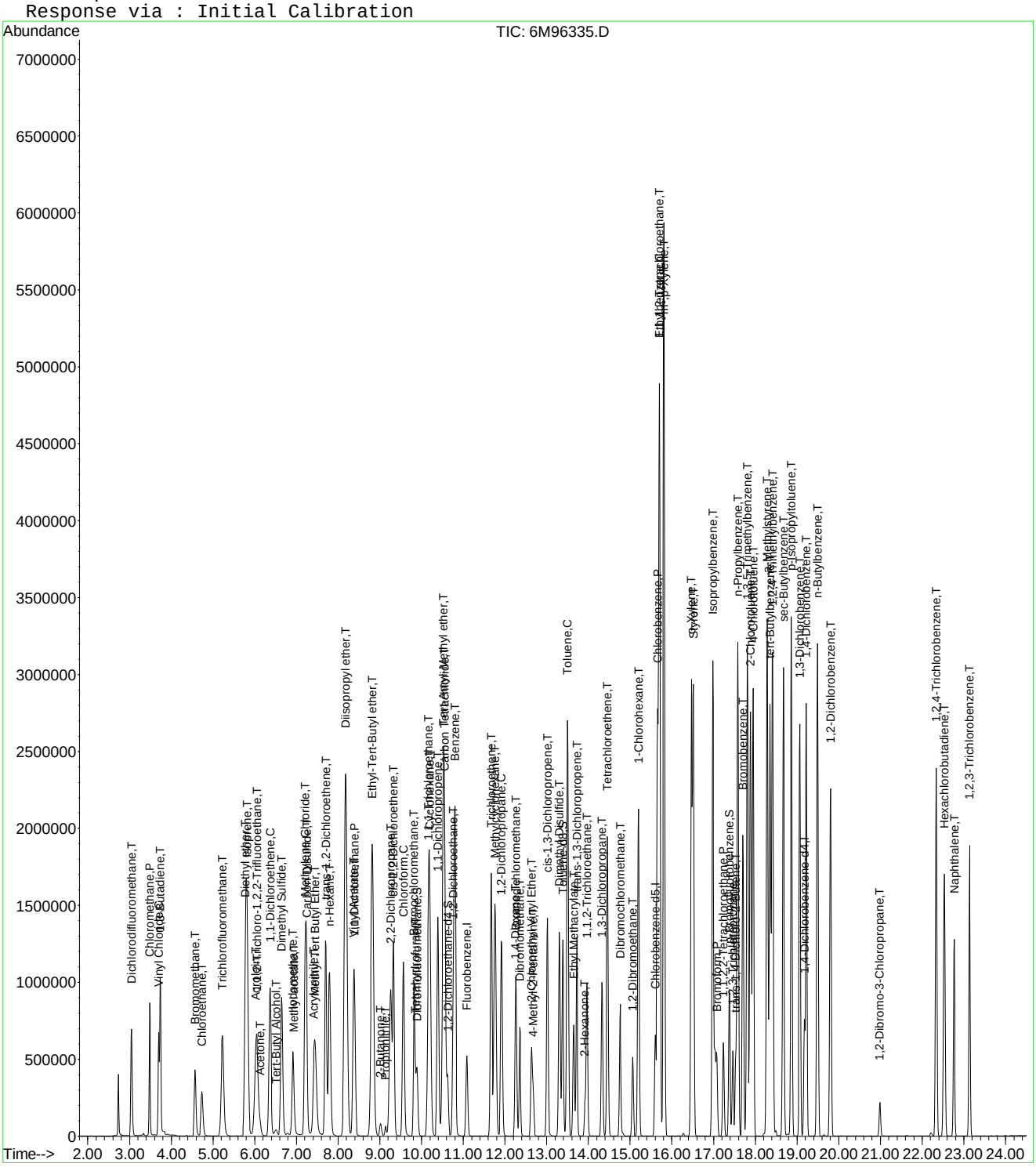
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) Benzene	10.80	78	2756160	99.9670 ug/L	100
46) Trichloroethene	11.67	130	872621	100.6012 ug/L	99
47) Methylcyclohexane	11.76	83	1073523	103.3997 ug/L	99
48) 1,2-Dichloropropane	11.91	63	723396	99.7174 ug/L	99
49) 1,4-Dioxane	12.25	88	12139	424.7433 ug/L	97
50) Bromodichloromethane	12.26	83	935639	104.6965 ug/L	100
51) Dibromomethane	12.35	93	361520	107.9898 ug/L	99
52) 2-Chloroethyl Vinyl Ether	12.64	63	301631	99.4438 ug/L	100
53) 4-Methyl-2-Pentanone	12.67	58	126289	88.0858 ug/L	98
54) cis-1,3-Dichloropropene	13.02	75	1063416	105.5397 ug/L	99
55) Dimethyl Disulfide	13.30	79	543153	105.0175 ug/L	100
58) Toluene	13.50	91	2962262	100.9992 ug/L	99
59) Ethyl Methacrylate	13.65	69	524691	103.4065 ug/L	100
60) trans-1,3-Dichloropropene	13.72	75	894836	109.7206 ug/L	99
61) 1,1,2-Trichloroethane	13.97	97	448442	98.9809 ug/L	99
62) 2-Hexanone	13.91	43	228081	88.7469 ug/L	98
63) 1,3-Dichloropropane	14.32	76	772887	102.0447 ug/L	99
64) Tetrachloroethene	14.46	166	881771	101.2109 ug/L	99
65) Dibromochloromethane	14.76	129	684173	107.8154 ug/L	99
66) 1,2-Dibromoethane	15.06	107	488909	106.2167 ug/L	99
67) 1-Chlorohexane	15.20	91	1037330	106.2874 ug/L	99
68) Chlorobenzene	15.66	112	2044350	97.1164 ug/L	99
69) 1,1,1,2-Tetrachloroethane	15.70	131	798361	107.2495 ug/L	99
70) Ethylbenzene	15.70	106	1123017	104.9959 ug/L	97
71) m-,p-Xylene	15.81	106	2705536	209.0472 ug/L	99
72) o-Xylene	16.47	106	1279847	103.5813 ug/L	99
73) Styrene	16.52	104	2170467	107.2885 ug/L	99
74) Bromoform	17.08	173	388935	105.9479 ug/L	100
75) Isopropylbenzene	16.98	105	3344212	103.7875 ug/L	100
77) 1,1,2,2-Tetrachloroethane	17.23	83	426603	101.4757 ug/L	100
79) 1,2,3-Trichloropropane	17.46	110	136616	102.8838 ug/L	92
80) trans-1,4-Dichloro-2-Buten	17.53	53	170947	98.4613 ug/L	99
81) n-Propylbenzene	17.58	91	3880335	106.8309 ug/L	100
82) Bromobenzene	17.70	156	871879	99.6638 ug/L	100
83) 1,3,5-Trimethylbenzene	17.81	105	2774707	108.1964 ug/L	100
84) 2-Chlorotoluene	17.89	91	2395864	103.9951 ug/L	99
85) 4-Chlorotoluene	17.95	91	2262678	104.5116 ug/L	100
86) a-Methylstyrene	18.29	118	1638677	108.2730 ug/L	99
87) tert-Butylbenzene	18.36	134	627617	104.4003 ug/L	98
88) 1,2,4-Trimethylbenzene	18.42	105	2802495	105.4926 ug/L	100
89) sec-Butylbenzene	18.67	105	3459058	106.6959 ug/L	99
90) p-Isopropyltoluene	18.87	119	3132847	109.2060 ug/L	99
91) 1,3-Dichlorobenzene	19.07	146	1715869	102.5214 ug/L	100
92) 1,4-Dichlorobenzene	19.22	146	1725764	101.3087 ug/L	100
93) n-Butylbenzene	19.49	91	2660877	110.4438 ug/L	100
94) 1,2-Dichlorobenzene	19.81	146	1476908	100.4589 ug/L	99
95) 1,2-Dibromo-3-Chloropropan	20.98	75	72989	103.8075 ug/L	96
96) 1,2,4-Trichlorobenzene	22.34	180	1101619	105.2345 ug/L	98
97) Hexachlorobutadiene	22.53	225	528599	113.6166 ug/L	100
98) Naphthalene	22.77	128	1517127	103.5090 ug/L	100
99) 1,2,3-Trichlorobenzene	23.14	180	871908	104.9061 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96335.D Vial: 9
Acq On : 15 Dec 2010 13:29 Operator: MES
Sample : WG351532-09 100ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 13:54 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:27:24 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96336.D Vial: 10
Acq On : 15 Dec 2010 14:00 Operator: MES
Sample : WG351532-10 200ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 14:25:21 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:57:24 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	746897	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	571805	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	297507	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	9.88	111	767210	98.0651 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 392.28%#		
42) 1,2-Dichloroethane-d4	10.62	65	700090	97.7050 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 390.80%#		
57) Toluene-d8	13.38	98	2539673	102.6236 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 410.48%#		
78) p-Bromofluorobenzene	17.38	95	897836	100.8382 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 403.36%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	1644921	185.6979 ug/L	99
3) Chloromethane	3.48	50	2015050	182.4018 ug/L	99
4) Vinyl Chloride	3.70	62	1323751	180.6969 ug/L	99
5) 1,3-Butadiene	3.74	54	931808	154.0370 ug/L	99
6) Bromomethane	4.56	94	952544	172.1041 ug/L	99
7) Chloroethane	4.74	64	873076	178.3076 ug/L	99
8) Trichlorofluoromethane	5.23	101	2552124	203.2131 ug/L	100
10) Isoprene	5.81	67	2077118	196.6354 ug/L	99
11) Acrolein	6.03	56	110662	348.7153 ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	1521741	196.3563 ug/L	99
13) Acetone	6.14	43	207965	167.2707 ug/L	96
14) 1,1-Dichloroethene	6.36	61	2380819	196.7417 ug/L	99
15) Tert-Butyl Alcohol	6.54	59	584	2.2389 ug/L #	39
16) Dimethyl Sulfide	6.65	62	1467526	188.7612 ug/L	100
17) Iodomethane	6.91	142	1652422	201.3516 ug/L	100
18) Methyl acetate	6.93	43	727623	170.9339 ug/L	99
19) Methylene Chloride	7.21	84	1304790	178.3661 ug/L	99
20) Carbon Disulfide	7.24	76	4143381	191.4513 ug/L	100
21) Acrylonitrile	7.41	53	328645	182.0932 ug/L	98
22) Methyl Tert Butyl Ether	7.44	73	2745439	200.1967 ug/L	99
23) trans-1,2-Dichloroethene	7.70	96	1498507	198.6254 ug/L	99
24) n-Hexane	7.79	57	1911041	186.9740 ug/L	100
25) Diisopropyl ether	8.18	45	7696	0.2863 ug/L #	76
26) Vinyl Acetate	8.36	43	2005587	215.7194 ug/L	99
27) 1,1-Dichloroethane	8.38	63	2661792	191.9195 ug/L	99
28) Ethyl-Tert-Butyl ether	8.82	59	6947	0.3444 ug/L #	76
29) 2-Butanone	9.02	43	320926	169.1698 ug/L	99
31) 2,2-Dichloropropane	9.25	77	2401930	203.6193 ug/L	99
32) cis-1,2-Dichloroethene	9.32	96	1594727	193.9370 ug/L	98
33) Chloroform	9.56	83	2584122	194.0259 ug/L	100
34) Bromochloromethane	9.82	130	892216	185.8571 ug/L	99
35) Tetrahydrofuran	9.84	42	963	0.8200 ug/L #	42
37) 1,1,1-Trichloroethane	10.16	97	2495404	203.1719 ug/L	99
38) Cyclohexane	10.19	56	2368658	192.8506 ug/L	99
39) 1,1-Dichloropropene	10.39	75	2034365	201.9676 ug/L	99
40) Tert-Amyl-Methyl ether	10.53	73	3718	0.2612 ug/L #	76
41) Carbon Tetrachloride	10.55	117	2522090	208.6667 ug/L	99
44) 1,2-Dichloroethane	10.75	62	1783147	195.1461 ug/L	99
45) Benzene	10.79	78	5450869	193.3291 ug/L	99
46) Trichloroethene	11.66	130	1736786	197.6125 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96336.D Vial: 10
Acq On : 15 Dec 2010 14:00 Operator: MES
Sample : WG351532-10 200ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 14:25:21 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:57:24 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

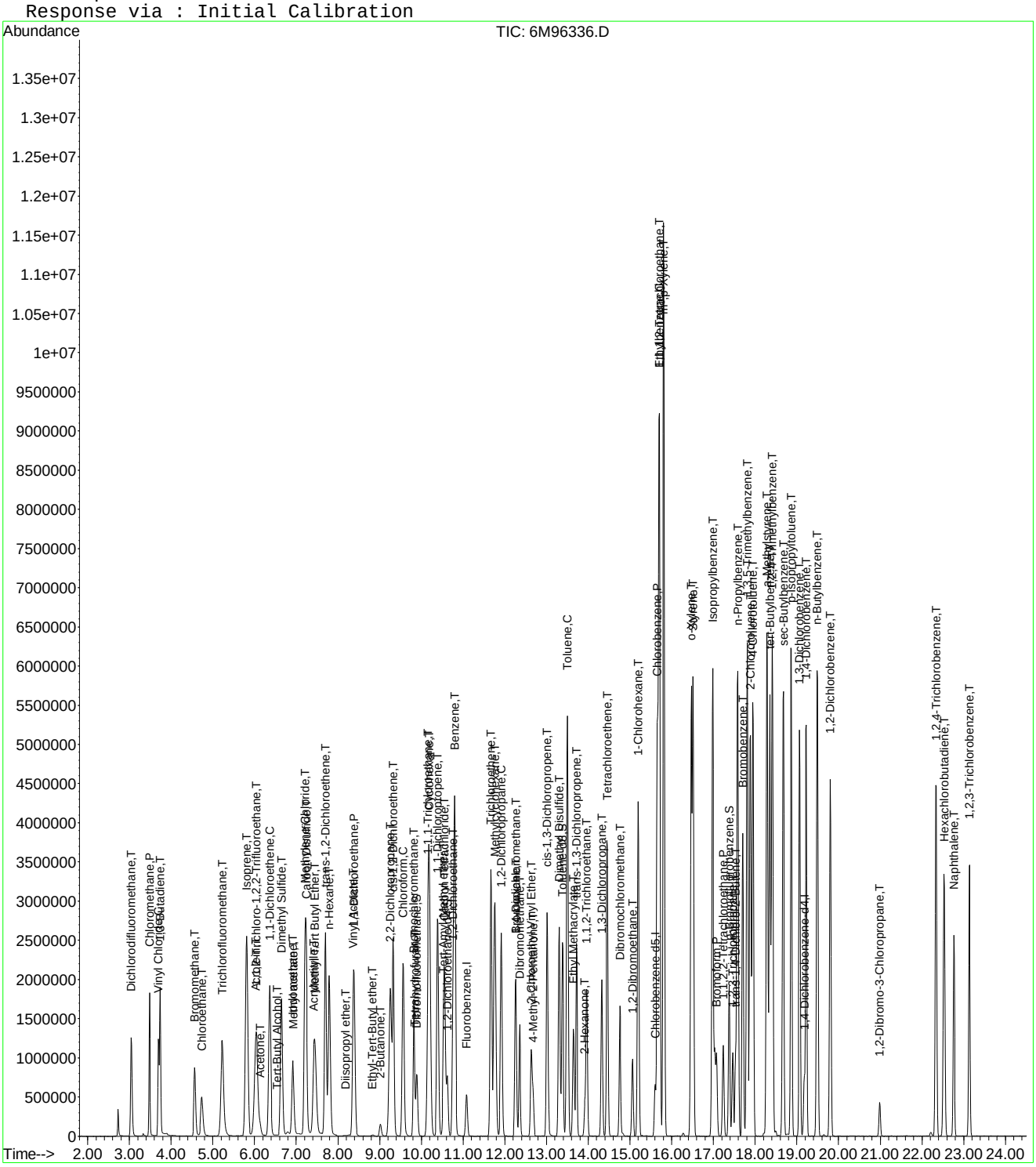
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Methylcyclohexane	11.76	83	2133753	200.6972 ug/L	99
48) 1,2-Dichloropropane	11.92	63	1440244	197.0443 ug/L	100
49) 1,4-Dioxane	12.26	88	2184	76.3819 ug/L #	15
50) Bromodichloromethane	12.26	83	1858893	204.1043 ug/L	100
51) Dibromomethane	12.36	93	705485	207.7004 ug/L	100
52) 2-Chloroethyl Vinyl Ether	12.63	63	598930	196.6290 ug/L	98
53) 4-Methyl-2-Pentanone	12.67	58	246628	174.4625 ug/L	99
54) cis-1,3-Dichloropropene	13.01	75	2114684	205.2027 ug/L	97
55) Dimethyl Disulfide	13.31	79	1105557	210.7858 ug/L	100
58) Toluene	13.50	91	5804864	196.3409 ug/L	99
59) Ethyl Methacrylate	13.64	69	1007121	196.5146 ug/L	100
60) trans-1,3-Dichloropropene	13.71	75	1738856	210.6360 ug/L	100
61) 1,1,2-Trichloroethane	13.96	97	863178	189.7142 ug/L	99
62) 2-Hexanone	13.92	43	445114	178.3033 ug/L	97
63) 1,3-Dichloropropane	14.33	76	1517580	198.6484 ug/L	99
64) Tetrachloroethene	14.46	166	1768973	201.7491 ug/L	99
65) Dibromochloromethane	14.76	129	1331699	208.8628 ug/L	99
66) 1,2-Dibromoethane	15.06	107	952109	205.5583 ug/L	99
67) 1-Chlorohexane	15.19	91	2051842	207.5730 ug/L	100
68) Chlorobenzene	15.65	112	3988108	189.2597 ug/L	99
69) 1,1,1,2-Tetrachloroethane	15.71	131	1564195	209.7232 ug/L	100
70) Ethylbenzene	15.71	106	2226909	206.7292 ug/L	93
71) m-,p-Xylene	15.81	106	5247120	403.3717 ug/L	93
72) o-Xylene	16.47	106	2504940	201.1089 ug/L	97
73) Styrene	16.51	104	4228751	208.1380 ug/L	98
74) Bromoform	17.07	173	750060	203.7201 ug/L	100
75) Isopropylbenzene	16.98	105	6414761	197.1855 ug/L	99
77) 1,1,2,2-Tetrachloroethane	17.24	83	825862	193.7404 ug/L	99
79) 1,2,3-Trichloropropane	17.46	110	267851	197.7931 ug/L	91
80) trans-1,4-Dichloro-2-Buten	17.53	53	332697	191.3459 ug/L	97
81) n-Propylbenzene	17.58	91	7327740	197.2592 ug/L	98
82) Bromobenzene	17.71	156	1688298	190.2103 ug/L	100
83) 1,3,5-Trimethylbenzene	17.81	105	5387089	205.0773 ug/L	99
84) 2-Chlorotoluene	17.89	91	4376912	185.7312 ug/L	94
85) 4-Chlorotoluene	17.94	91	4608956	208.3250 ug/L	96
86) a-Methylstyrene	18.28	118	3218524	207.1740 ug/L	99
87) tert-Butylbenzene	18.35	134	1231608	202.0305 ug/L	98
88) 1,2,4-Trimethylbenzene	18.41	105	5483876	202.3044 ug/L	89
89) sec-Butylbenzene	18.68	105	6634024	199.6763 ug/L	98
90) p-Isopropyltoluene	18.87	119	6060519	205.8179 ug/L	98
91) 1,3-Dichlorobenzene	19.07	146	3325277	195.7186 ug/L	99
92) 1,4-Dichlorobenzene	19.23	146	3355199	194.0105 ug/L	99
93) n-Butylbenzene	19.48	91	5149061	208.0159 ug/L	98
94) 1,2-Dichlorobenzene	19.80	146	2876975	192.9946 ug/L	98
95) 1,2-Dibromo-3-Chloropropan	20.98	75	148066	206.2500 ug/L	99
96) 1,2,4-Trichlorobenzene	22.34	180	2150209	201.9038 ug/L	98
97) Hexachlorobutadiene	22.54	225	1054684	216.5896 ug/L	100
98) Naphthalene	22.76	128	2979111	203.7706 ug/L	100
99) 1,2,3-Trichlorobenzene	23.14	180	1683537	199.8920 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96336.D Vial: 10
Acq On : 15 Dec 2010 14:00 Operator: MES
Sample : WG351532-10 200ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 14:25 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 13:57:24 2010
Response via : Initial Calibration



6M96336.D 8260WTR.M Wed Dec 15 14:25:23 2010 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\121510\6M96337.D Vial: 11
Acq On : 15 Dec 2010 14:32 Operator: MES
Sample : WG351532-11 300ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 14:56:10 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 14:26:30 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	745587	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	579864	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	303414	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	0.00	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery	=	0.00%#
42) 1,2-Dichloroethane-d4	0.00	65	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery	=	0.00%#
57) Toluene-d8	0.00	98	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery	=	0.00%#
78) p-Bromofluorobenzene	0.00	95	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery	=	0.00%#

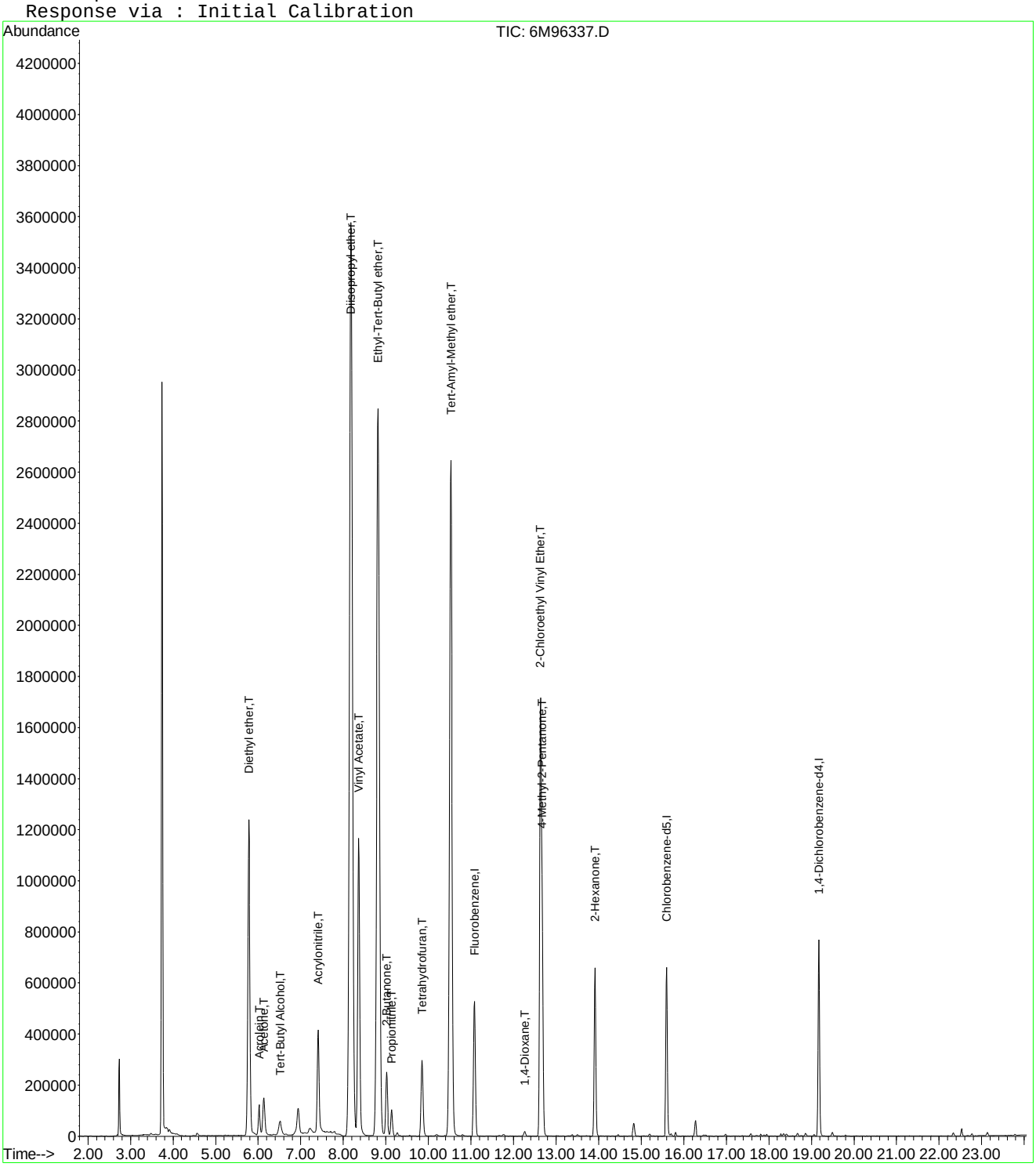
Target Compounds					Qvalue
9) Diethyl ether	5.78	59	1398161	288.5129 ug/L	99
11) Acrolein	6.02	56	164027	608.9981 ug/L	100
13) Acetone	6.13	43	316019	268.6299 ug/L	95
15) Tert-Butyl Alcohol	6.51	59	149666	574.7829 ug/L	98
21) Acrylonitrile	7.41	53	467757	273.7814 ug/L	94
25) Diisopropyl ether	8.18	45	7506593	279.7472 ug/L	99
26) Vinyl Acetate	8.36	43	2907012	304.9938 ug/L	100
28) Ethyl-Tert-Butyl ether	8.82	59	5799990	288.0535 ug/L	100
29) 2-Butanone	9.01	43	507141	283.8964 ug/L	100
30) Propionitrile	9.14	54	145540	288.7917 ug/L	95
35) Tetrahydrofuran	9.85	42	326211	278.2600 ug/L	100
40) Tert-Amyl-Methyl ether	10.53	73	4131329	290.6949 ug/L	100
49) 1,4-Dioxane	12.26	88	17910	627.4742 ug/L	99
52) 2-Chloroethyl Vinyl Ether	12.63	63	913262	307.8143 ug/L	98
53) 4-Methyl-2-Pentanone	12.67	58	394330	290.6797 ug/L	99
62) 2-Hexanone	13.92	43	694084	286.7095 ug/L	97

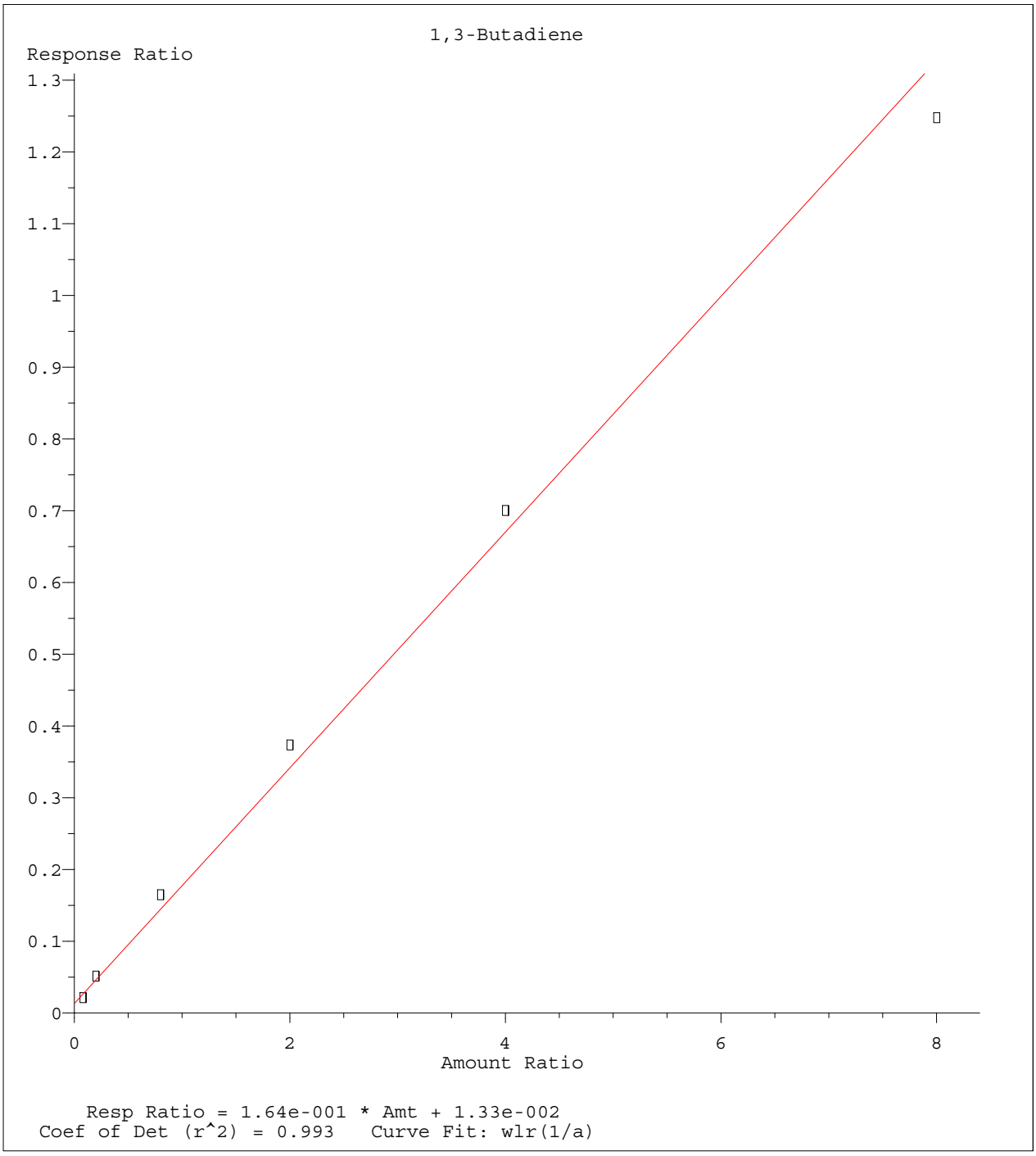
(#) = qualifier out of range (m) = manual integration
6M96337.D 8260WTR.M Wed Dec 15 14:57:18 2010 Page 1

Quantitation Report (QT Reviewed)

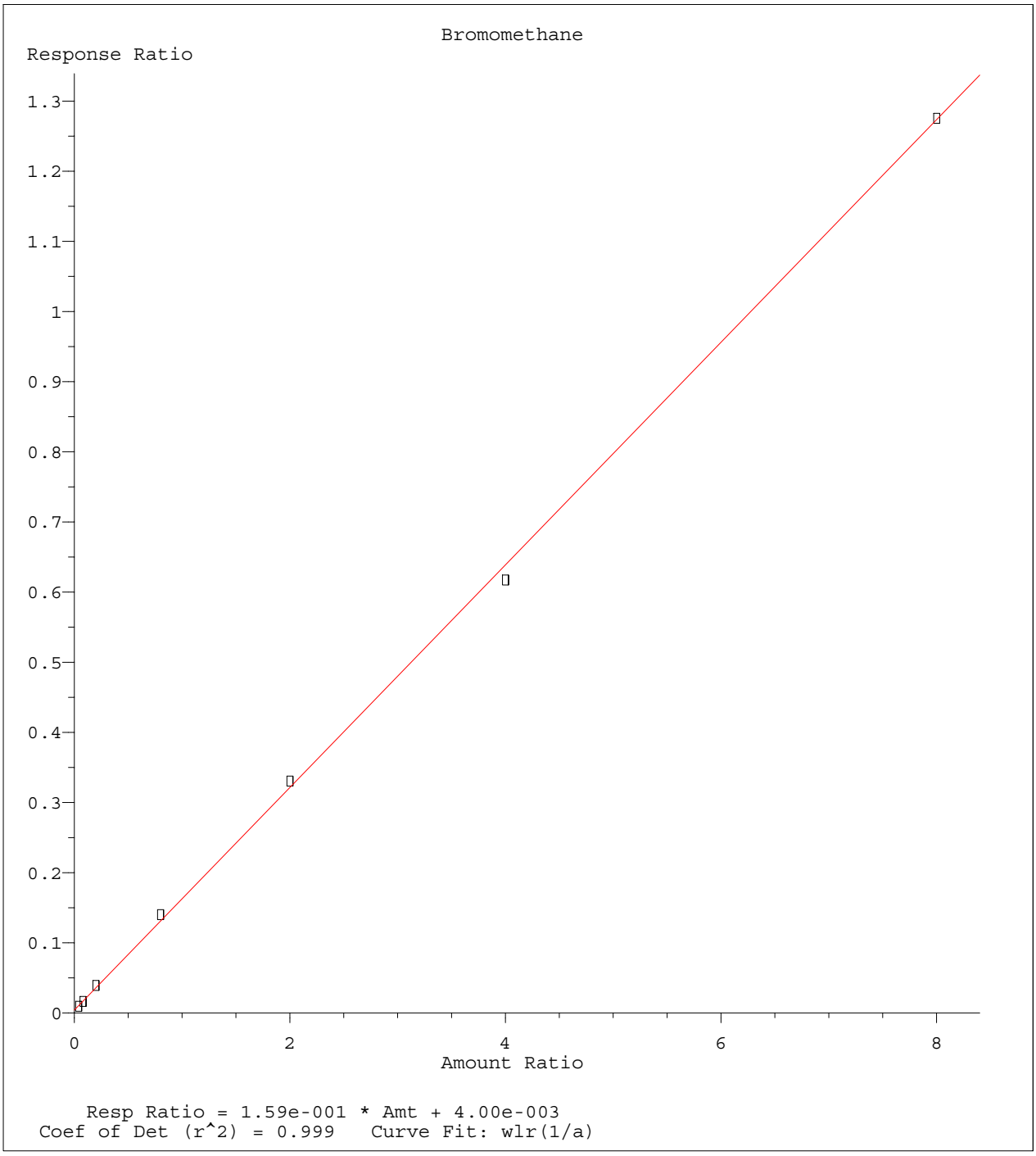
Data File : C:\MSDCHEM\1\DATA\121510\6M96337.D Vial: 11
Acq On : 15 Dec 2010 14:32 Operator: MES
Sample : WG351532-11 300ug/L WATER STD 8260 Inst : HPMS6
Misc : 1,1 STD43006 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 14:57 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 14:56:16 2010
Response via : Initial Calibration

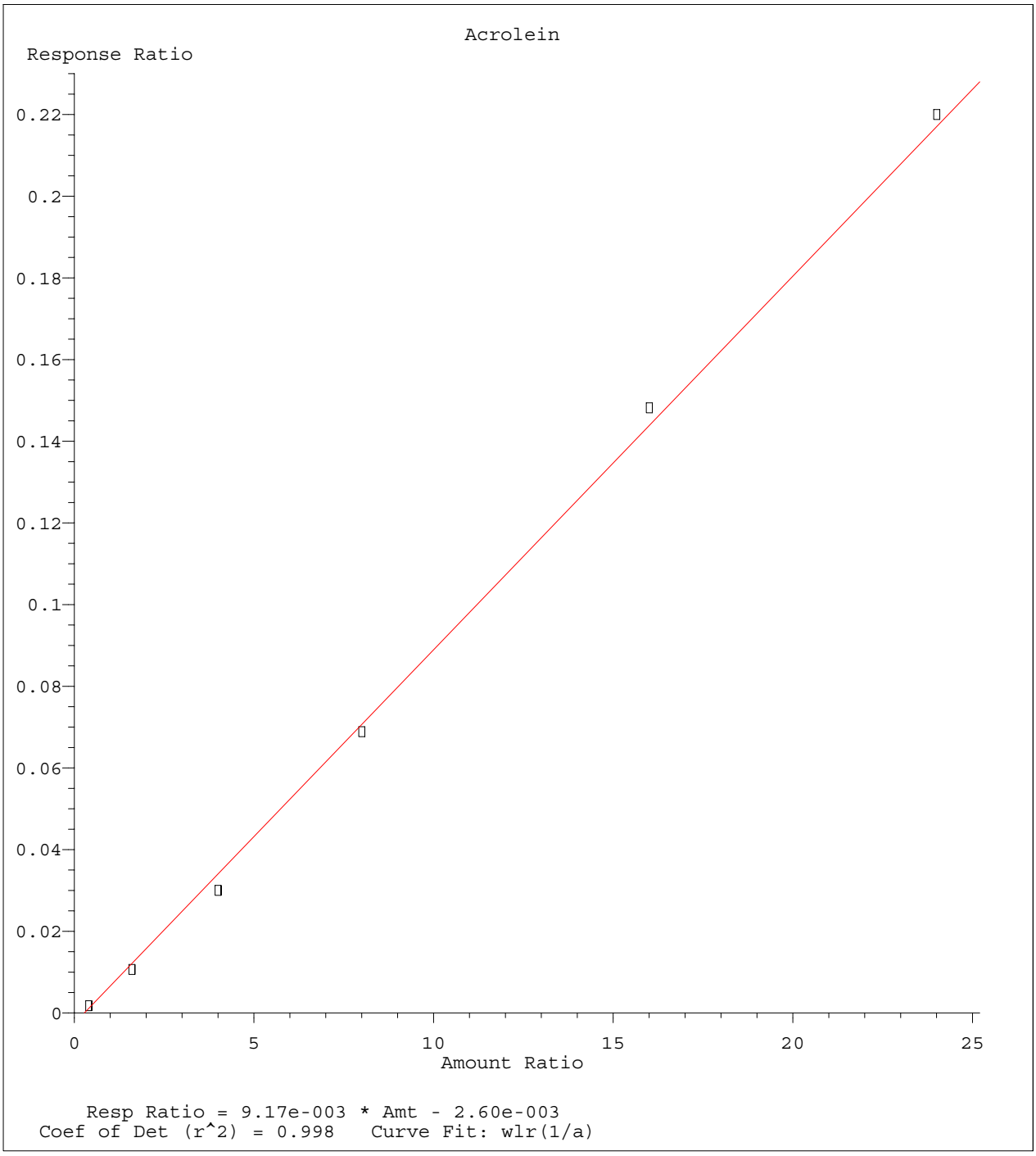




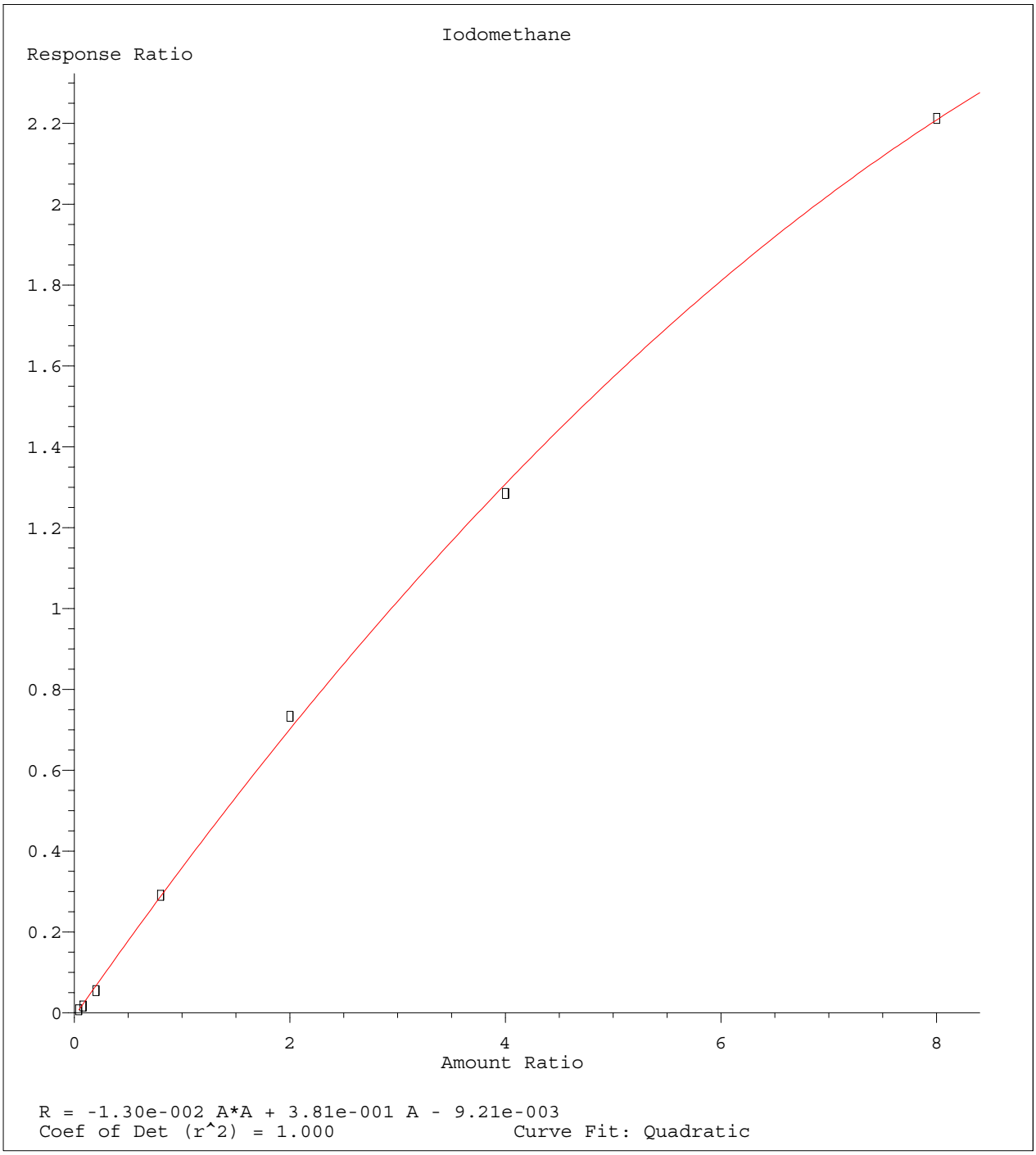
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010



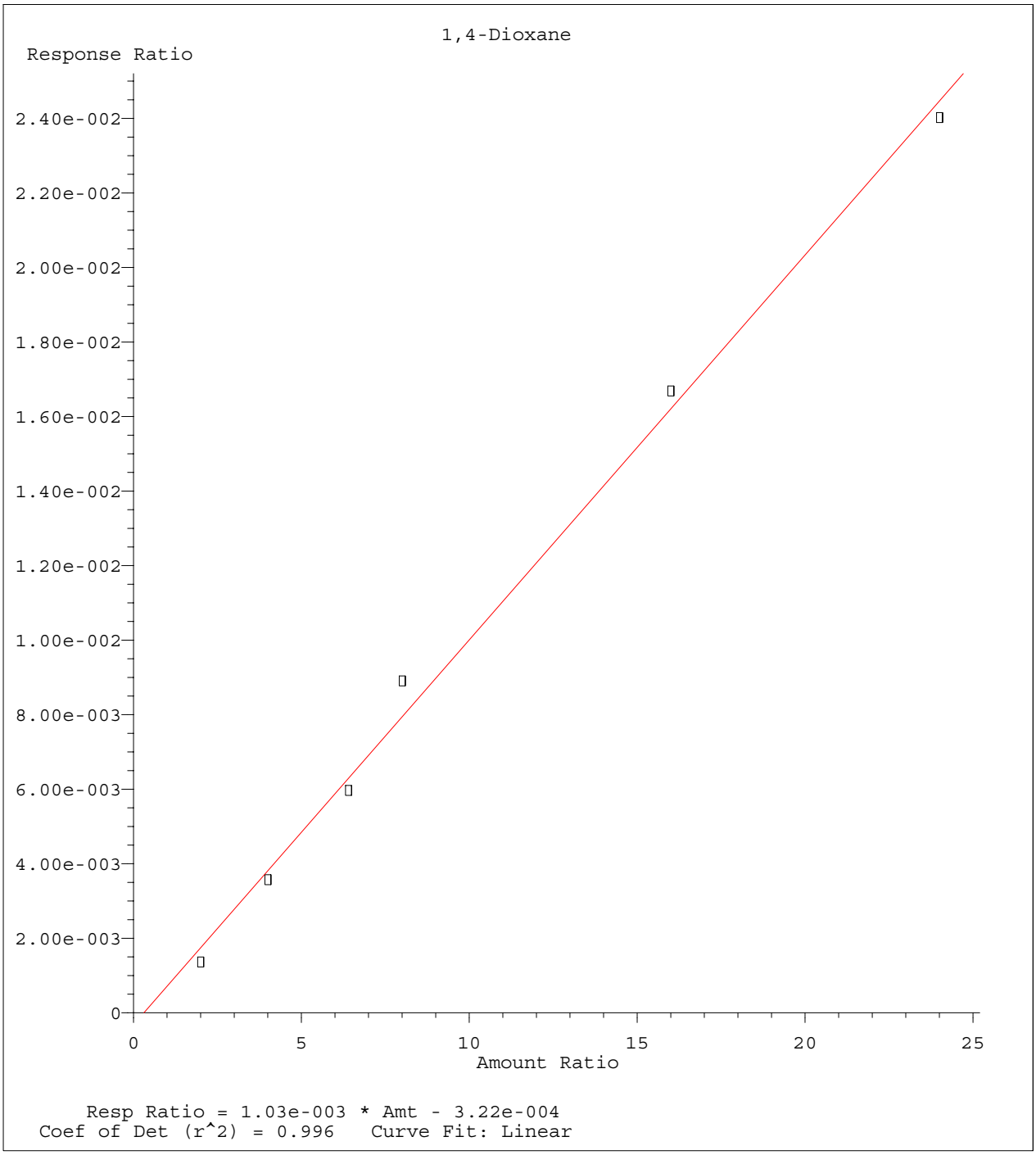
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010



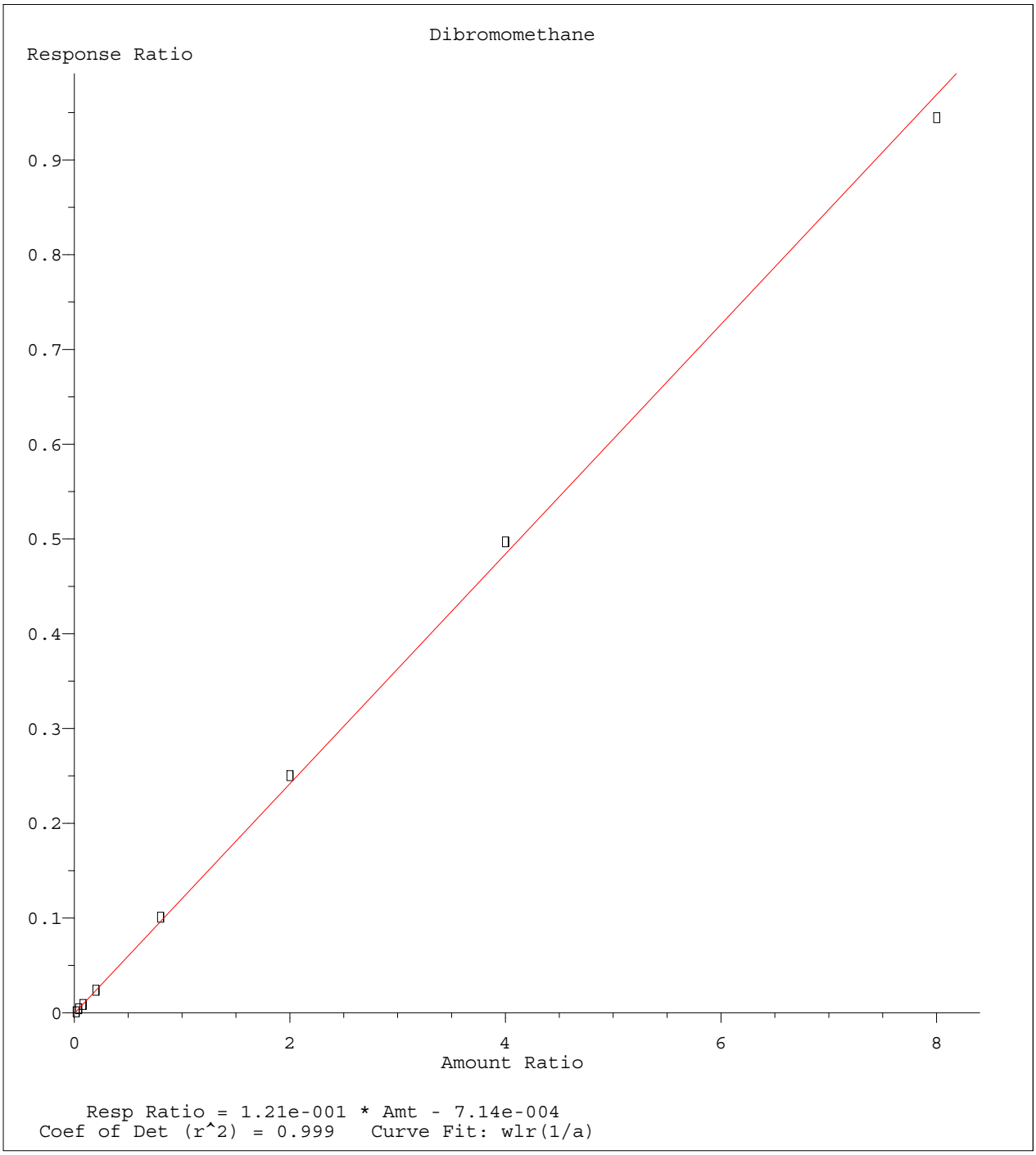
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Wed Dec 15 15:19:42 2010

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96339.D Vial: 13
Acq On : 15 Dec 2010 15:34 Operator: MES
Sample : WG351532-12 50ug/L ALT SOURCE Inst : HPMS6
Misc : 1,1 STD42965 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 15:58:07 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	762955	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	593927	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	308102	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	176718	22.4742 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 89.88%		
42) 1,2-Dichloroethane-d4	10.62	65	160174	22.1715 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 88.68%		
57) Toluene-d8	13.39	98	612913	23.9539 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 95.80%		
78) p-Bromofluorobenzene	17.38	95	227218	24.4377 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.76%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	514495	57.8069 ug/L	99
3) Chloromethane	3.48	50	564272	53.5567 ug/L	99
4) Vinyl Chloride	3.70	62	405763	56.4573 ug/L	100
5) 1,3-Butadiene	3.74	54	229803	43.7850 ug/L	97
6) Bromomethane	4.57	94	250885	51.1595 ug/L	99
7) Chloroethane	4.74	64	287394	59.2645 ug/L	100
8) Trichlorofluoromethane	5.23	101	739956	58.4497 ug/L	99
9) Diethyl ether	5.78	59	498966	102.8086 ug/L	100
10) Isoprene	5.81	67	551942	51.5143 ug/L	98
11) Acrolein	6.02	56	54790	202.9211 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	404273	51.9249 ug/L	100
13) Acetone	6.13	43	59431	51.7055 ug/L	96
14) 1,1-Dichloroethene	6.36	61	596867	49.1625 ug/L	99
15) Tert-Butyl Alcohol	6.49	59	46775	184.2405 ug/L	96
16) Dimethyl Sulfide	6.65	62	403670	52.4072 ug/L	100
17) Iodomethane	6.91	142	455967	42.2067 ug/L	99
18) Methyl acetate	6.93	43	248300	62.0466 ug/L	100
19) Methylene Chloride	7.21	84	350208	47.6409 ug/L	100
20) Carbon Disulfide	7.24	76	1100355	50.5432 ug/L	100
21) Acrylonitrile	7.40	53	86487	51.4466 ug/L	100
22) Methyl Tert Butyl Ether	7.44	73	716940	51.0649 ug/L	99
23) trans-1,2-Dichloroethene	7.70	96	397520	52.0993 ug/L	100
24) n-Hexane	7.80	57	558849	55.1753 ug/L	99
25) Diisopropyl ether	8.18	45	2758698	104.3013 ug/L	100
26) Vinyl Acetate	8.36	43	272613	26.9469 ug/L	100
27) 1,1-Dichloroethane	8.38	63	697854	50.2865 ug/L	99
28) Ethyl-Tert-Butyl ether	8.82	59	2012524	100.3772 ug/L	99
29) 2-Butanone	9.02	43	91432	52.8340 ug/L	99
30) Propionitrile	9.14	54	53591	110.1121 ug/L	97
31) 2,2-Dichloropropane	9.25	77	599306	49.7467 ug/L	99
32) cis-1,2-Dichloroethene	9.33	96	430272	51.8515 ug/L	97
33) Chloroform	9.56	83	661664	49.0113 ug/L	100
34) Bromochloromethane	9.82	130	249463	51.7670 ug/L	98
35) Tetrahydrofuran	9.85	42	6445	5.6730 ug/L	91
37) 1,1,1-Trichloroethane	10.17	97	642330	51.4603 ug/L	99
38) Cyclohexane	10.20	56	721530	59.4732 ug/L	98
39) 1,1-Dichloropropene	10.39	75	535164	52.2552 ug/L	99
40) Tert-Amyl-Methyl ether	10.53	73	1517805	105.4921 ug/L	100
41) Carbon Tetrachloride	10.55	117	642015	52.1007 ug/L	100
44) 1,2-Dichloroethane	10.76	62	467824	50.9260 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96339.D Vial: 13
Acq On : 15 Dec 2010 15:34 Operator: MES
Sample : WG351532-12 50ug/L ALT SOURCE Inst : HPMS6
Misc : 1,1 STD42965 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 15:58:07 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

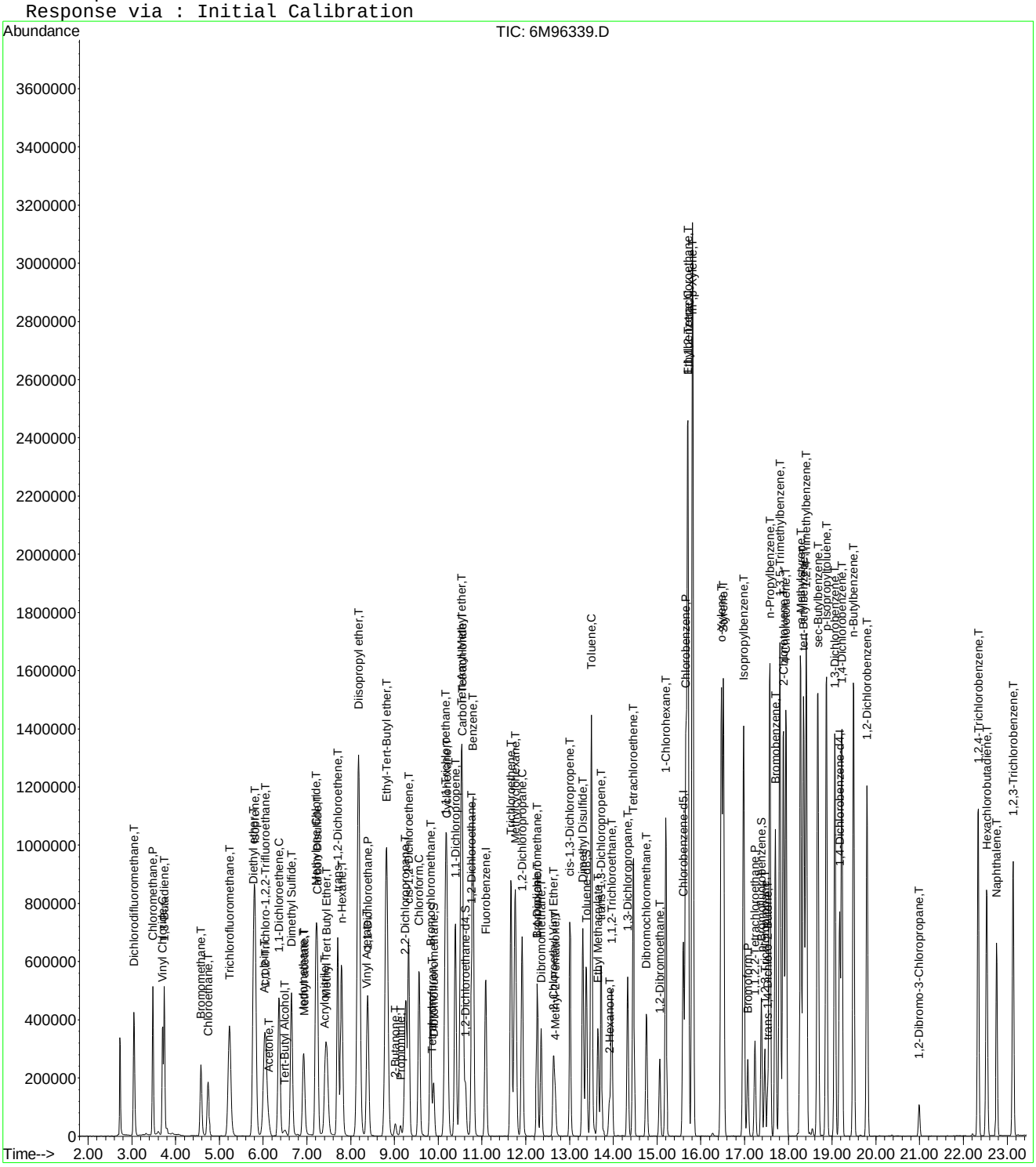
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Benzene	10.79	78	1479096	51.5976	ug/L	100
46)	Trichloroethene	11.66	130	461846	52.3141	ug/L	98
47)	Methylcyclohexane	11.76	83	596053	55.2754	ug/L	100
48)	1,2-Dichloropropane	11.92	63	385760	52.9185	ug/L	99
49)	1,4-Dioxane	12.26	88	6649	218.5143	ug/L	100
50)	Bromodichloromethane	12.26	83	477357	51.8629	ug/L	99
51)	Dibromomethane	12.36	93	184867	50.0822	ug/L	99
52)	2-Chloroethyl Vinyl Ether	12.63	63	146338	49.2410	ug/L	98
53)	4-Methyl-2-Pentanone	12.67	58	68315	51.1107	ug/L	98
54)	cis-1,3-Dichloropropene	13.01	75	564430	53.9782	ug/L	99
55)	Dimethyl Disulfide	13.30	79	291421	55.5526	ug/L	99
58)	Toluene	13.50	91	1573444	51.5668	ug/L	99
59)	Ethyl Methacrylate	13.64	69	276525	52.3718	ug/L	99
60)	trans-1,3-Dichloropropene	13.72	75	427282	50.1046	ug/L	99
61)	1,1,2-Trichloroethane	13.97	97	240403	51.4732	ug/L	99
62)	2-Hexanone	13.92	43	123394	51.9045	ug/L	99
63)	1,3-Dichloropropane	14.33	76	414852	52.5788	ug/L	100
64)	Tetrachloroethene	14.46	166	456245	50.6055	ug/L	99
65)	Dibromochloromethane	14.75	129	348801	53.3274	ug/L	98
66)	1,2-Dibromoethane	15.06	107	260251	54.6472	ug/L	96
67)	1-Chlorohexane	15.19	91	532571	52.1261	ug/L	100
68)	Chlorobenzene	15.65	112	1077542	49.9129	ug/L	100
69)	1,1,1,2-Tetrachloroethane	15.70	131	413983	54.2767	ug/L	99
70)	Ethylbenzene	15.70	106	589861	53.3049	ug/L	98
71)	m-,p-Xylene	15.81	106	1418616	106.1121	ug/L	99
72)	o-Xylene	16.47	106	676629	52.7264	ug/L	100
73)	Styrene	16.51	104	1145101	54.8186	ug/L	100
74)	Bromoform	17.07	173	189640	50.4239	ug/L	99
75)	Isopropylbenzene	16.98	105	1543113	45.8325	ug/L	100
77)	1,1,2,2-Tetrachloroethane	17.24	83	232594	53.0658	ug/L	99
79)	1,2,3-Trichloropropane	17.46	110	74776	53.3125	ug/L	92
80)	trans-1,4-Dichloro-2-Buten	17.53	53	55989	31.7156	ug/L	97
81)	n-Propylbenzene	17.58	91	2013515	52.0377	ug/L	100
82)	Bromobenzene	17.71	156	465130	50.7882	ug/L	98
83)	1,3,5-Trimethylbenzene	17.81	105	1492947	54.5473	ug/L	100
84)	2-Chlorotoluene	17.89	91	1193215	48.9150	ug/L	95
85)	4-Chlorotoluene	17.94	91	1245842	53.9619	ug/L	95
86)	a-Methylstyrene	18.29	118	840590	52.0126	ug/L	99
87)	tert-Butylbenzene	18.35	134	332546	52.9060	ug/L	97
88)	1,2,4-Trimethylbenzene	18.41	105	1503058	53.3313	ug/L	88
89)	sec-Butylbenzene	18.68	105	1816469	52.4349	ug/L	99
90)	p-Isopropyltoluene	18.87	119	1533775	49.9188	ug/L	99
91)	1,3-Dichlorobenzene	19.06	146	886820	50.6207	ug/L	99
92)	1,4-Dichlorobenzene	19.23	146	888507	49.7957	ug/L	100
93)	n-Butylbenzene	19.48	91	1358799	52.6158	ug/L	100
94)	1,2-Dichlorobenzene	19.80	146	769524	50.0946	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	20.98	75	37857	50.6143	ug/L	100
96)	1,2,4-Trichlorobenzene	22.34	180	537752	48.9210	ug/L	99
97)	Hexachlorobutadiene	22.54	225	268802	51.8671	ug/L	99
98)	Naphthalene	22.76	128	778393	52.3838	ug/L	99
99)	1,2,3-Trichlorobenzene	23.14	180	447849	51.7181	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\121510\6M96339.D Vial: 13
Acq On : 15 Dec 2010 15:34 Operator: MES
Sample : WG351532-12 50ug/L ALT SOURCE Inst : HPMS6
Misc : 1,1 STD42965 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 15 15:58 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration



6M96339.D 8260WTR.M Wed Dec 15 15:58:09 2010 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\010711\6M96889.D Vial: 2
Acq On : 7 Jan 2011 9:14 Operator: MES
Sample : WG353370-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD43299 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 09:39:26 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	825269	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	652553	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	328064	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.89	111	202997	23.8669 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.48%		
42) 1,2-Dichloroethane-d4	10.62	65	180681	23.1216 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.48%		
57) Toluene-d8	13.38	98	684426	24.3456 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.40%		
78) p-Bromofluorobenzene	17.38	95	244132	24.6592 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.64%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	550288	57.1599 ug/L	99
3) Chloromethane	3.48	50	618423	54.2644 ug/L	99
4) Vinyl Chloride	3.70	62	446194	57.3951 ug/L	98
5) 1,3-Butadiene	3.74	54	359503	64.2292 ug/L	99
6) Bromomethane	4.58	94	270391	50.9715 ug/L	100
7) Chloroethane	4.74	64	305371	58.2167 ug/L	98
8) Trichlorofluoromethane	5.24	101	869261	63.4790 ug/L	100
9) Diethyl ether	5.78	59	512676	97.6573 ug/L	98
10) Isoprene	5.82	67	656034	56.6062 ug/L	99
11) Acrolein	6.03	56	24756	88.8891 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.05	101	502804	59.7040 ug/L	98
13) Acetone	6.12	43	60282	48.4858 ug/L	97
14) 1,1-Dichloroethene	6.37	61	724635	55.1797 ug/L	99
15) Tert-Butyl Alcohol	6.50	59	51809	188.6601 ug/L	98
16) Dimethyl Sulfide	6.64	62	431734	51.8184 ug/L	99
17) Iodomethane	6.91	142	473508	40.4430 ug/L	99
18) Methyl acetate	6.94	43	218546	50.4879 ug/L	98
19) Methylene Chloride	7.21	84	400449	50.3621 ug/L	98
20) Carbon Disulfide	7.25	76	1331760	56.5535 ug/L	99
21) Acrylonitrile	7.41	53	90504	49.7711 ug/L	99
22) Methyl Tert Butyl Ether	7.44	73	727971	47.9355 ug/L	100
23) trans-1,2-Dichloroethene	7.71	96	455172	55.1509 ug/L	100
24) n-Hexane	7.80	57	681548	62.2086 ug/L	98
25) Diisopropyl ether	8.18	45	2952378	103.1955 ug/L	99
26) Vinyl Acetate	8.36	43	437416	39.9724 ug/L	99
27) 1,1-Dichloroethane	8.39	63	809812	53.9479 ug/L	99
28) Ethyl-Tert-Butyl ether	8.82	59	2124147	97.9449 ug/L	99
29) 2-Butanone	9.01	43	92906	49.6321 ug/L	99
30) Propionitrile	9.14	54	51539	97.9000 ug/L	94
31) 2,2-Dichloropropane	9.26	77	715585	54.9136 ug/L	97
32) cis-1,2-Dichloroethene	9.33	96	476226	53.0560 ug/L	98
33) Chloroform	9.57	83	763886	52.3107 ug/L	99
34) Bromochloromethane	9.82	130	268823	51.5723 ug/L	99
35) Tetrahydrofuran	9.85	42	116146	94.5137 ug/L	99
37) 1,1,1-Trichloroethane	10.17	97	727933	53.9150 ug/L	99
38) Cyclohexane	10.20	56	606321	46.2033 ug/L	99
39) 1,1-Dichloropropene	10.39	75	599276	54.0969 ug/L	98
40) Tert-Amyl-Methyl ether	10.53	73	1484894	95.4120 ug/L	99
41) Carbon Tetrachloride	10.56	117	736937	55.2882 ug/L	99
44) 1,2-Dichloroethane	10.76	62	507684	51.0921 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\010711\6M96889.D Vial: 2
Acq On : 7 Jan 2011 9:14 Operator: MES
Sample : WG353370-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD43299 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 09:39:26 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

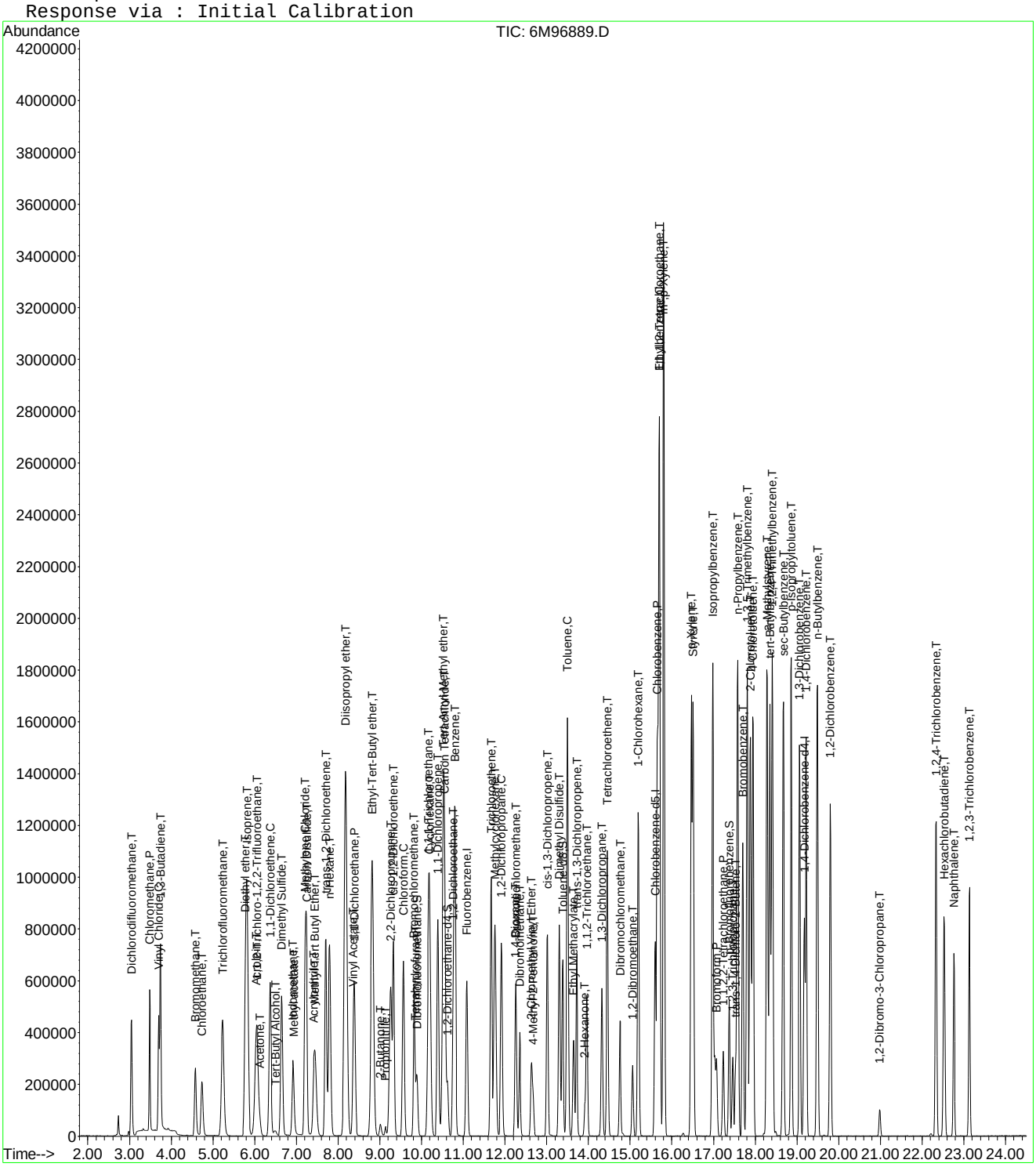
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Benzene	10.80	78	1633329	52.6757	ug/L	100
46)	Trichloroethene	11.67	130	504433	52.8236	ug/L	99
47)	Methylcyclohexane	11.76	83	564290	48.3786	ug/L	99
48)	1,2-Dichloropropane	11.91	63	419584	53.2123	ug/L	99
49)	1,4-Dioxane	12.25	88	5449	167.4404	ug/L	90
50)	Bromodichloromethane	12.26	83	524275	52.6595	ug/L	99
51)	Dibromomethane	12.35	93	195949	49.0791	ug/L	100
52)	2-Chloroethyl Vinyl Ether	12.63	63	148152	46.0872	ug/L	99
53)	4-Methyl-2-Pentanone	12.67	58	69248	47.8968	ug/L	96
54)	cis-1,3-Dichloropropene	13.02	75	585874	51.7984	ug/L	99
55)	Dimethyl Disulfide	13.30	79	327833	57.7749	ug/L	100
58)	Toluene	13.50	91	1729382	51.5855	ug/L	98
59)	Ethyl Methacrylate	13.64	69	278934	48.0819	ug/L	99
60)	trans-1,3-Dichloropropene	13.72	75	489783	52.2738	ug/L	99
61)	1,1,2-Trichloroethane	13.97	97	250517	48.8198	ug/L	100
62)	2-Hexanone	13.92	43	125084	47.8884	ug/L	98
63)	1,3-Dichloropropane	14.32	76	425410	49.0729	ug/L	97
64)	Tetrachloroethene	14.46	166	502827	50.7616	ug/L	99
65)	Dibromochloromethane	14.76	129	364949	50.7834	ug/L	98
66)	1,2-Dibromoethane	15.06	107	256663	49.0519	ug/L	99
67)	1-Chlorohexane	15.19	91	593732	52.8915	ug/L	100
68)	Chlorobenzene	15.65	112	1172712	49.4410	ug/L	99
69)	1,1,1,2-Tetrachloroethane	15.70	131	439626	52.4604	ug/L	99
70)	Ethylbenzene	15.70	106	639556	52.6033	ug/L	100
71)	m-,p-Xylene	15.80	106	1553987	105.7949	ug/L	99
72)	o-Xylene	16.47	106	730001	51.7748	ug/L	100
73)	Styrene	16.51	104	1227874	53.5002	ug/L	99
74)	Bromoform	17.07	173	203666	49.2882	ug/L	98
75)	Isopropylbenzene	16.98	105	1944840	52.5747	ug/L	99
77)	1,1,2,2-Tetrachloroethane	17.23	83	228078	48.8692	ug/L	99
79)	1,2,3-Trichloropropane	17.46	110	74493	49.8791	ug/L	94
80)	trans-1,4-Dichloro-2-Buten	17.53	53	90474	48.1316	ug/L	100
81)	n-Propylbenzene	17.58	91	2270957	55.1199	ug/L	99
82)	Bromobenzene	17.70	156	494210	50.6799	ug/L	99
83)	1,3,5-Trimethylbenzene	17.81	105	1573341	53.9868	ug/L	99
84)	2-Chlorotoluene	17.89	91	1420154	54.6758	ug/L	99
85)	4-Chlorotoluene	17.94	91	1248375	50.7815	ug/L	98
86)	a-Methylstyrene	18.29	118	898467	52.2111	ug/L	98
87)	tert-Butylbenzene	18.35	134	352796	52.7124	ug/L	99
88)	1,2,4-Trimethylbenzene	18.41	105	1602034	53.3844	ug/L	88
89)	sec-Butylbenzene	18.67	105	1976669	53.5874	ug/L	100
90)	p-Isopropyltoluene	18.87	119	1752808	53.5763	ug/L	99
91)	1,3-Dichlorobenzene	19.06	146	957509	51.3300	ug/L	100
92)	1,4-Dichlorobenzene	19.23	146	963673	50.7220	ug/L	100
93)	n-Butylbenzene	19.49	91	1517796	55.1964	ug/L	99
94)	1,2-Dichlorobenzene	19.80	146	804684	49.1960	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	20.98	75	35061	44.0238	ug/L	97
96)	1,2,4-Trichlorobenzene	22.34	180	579318	49.4956	ug/L	99
97)	Hexachlorobutadiene	22.53	225	260816	47.2639	ug/L	99
98)	Naphthalene	22.76	128	822960	52.0131	ug/L	100
99)	1,2,3-Trichlorobenzene	23.14	180	453296	49.1619	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

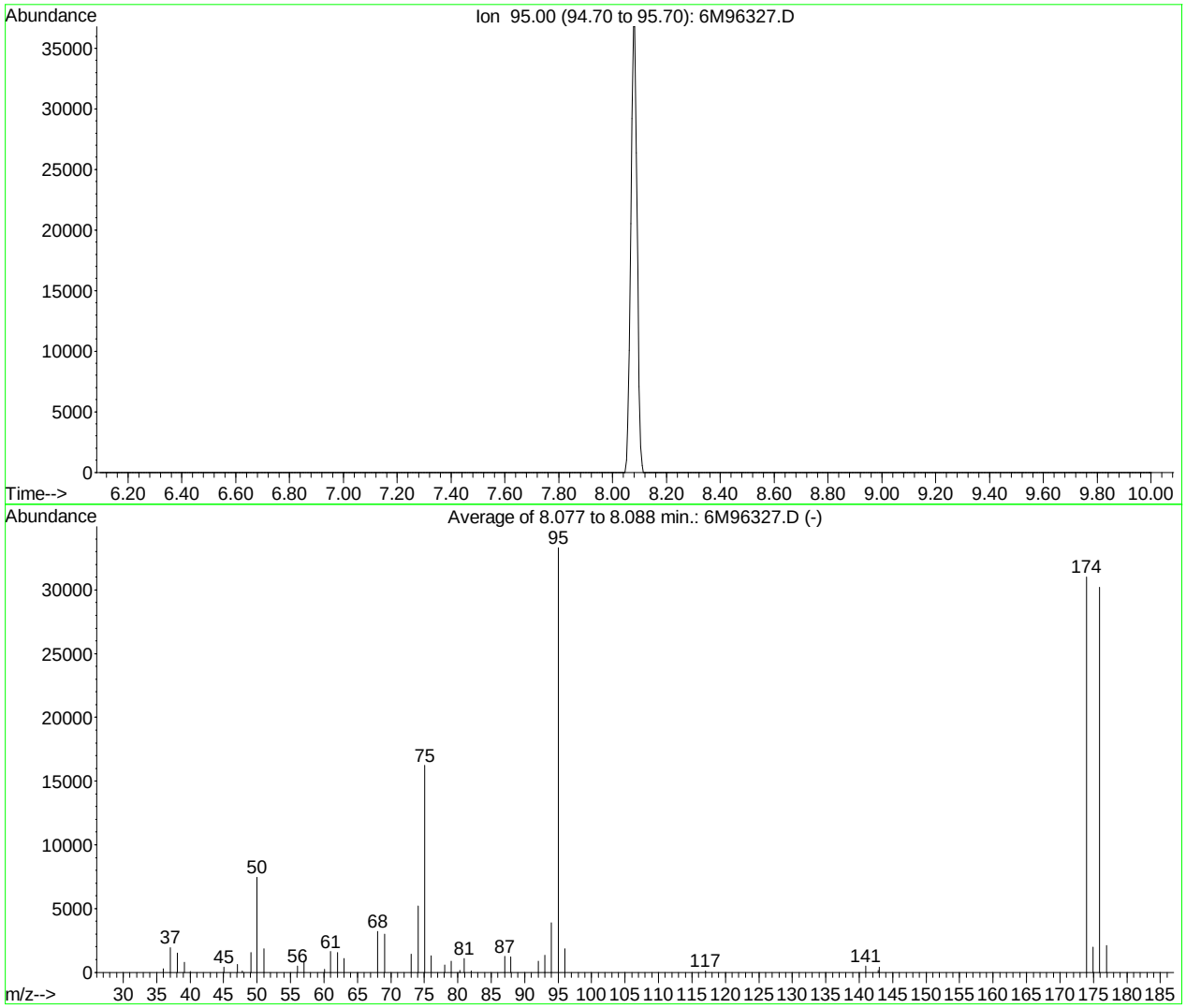
Data File : C:\MSDchem\1\data\010711\6M96889.D Vial: 2
Acq On : 7 Jan 2011 9:14 Operator: MES
Sample : WG353370-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD43299 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 9:39 2011 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration



2.1.1.5 Raw QC Data

```
Data File : C:\MSDCHEM\1\DATA\121510\6M96327.D          Vial: 1
Acq On    : 15 Dec 2010   9:15                       Operator: MES
Sample    : WG351532-01 50NG BFB STD 8260            Inst    : HPMS6
Misc      : 1,1 STD42828                             Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title     :
```

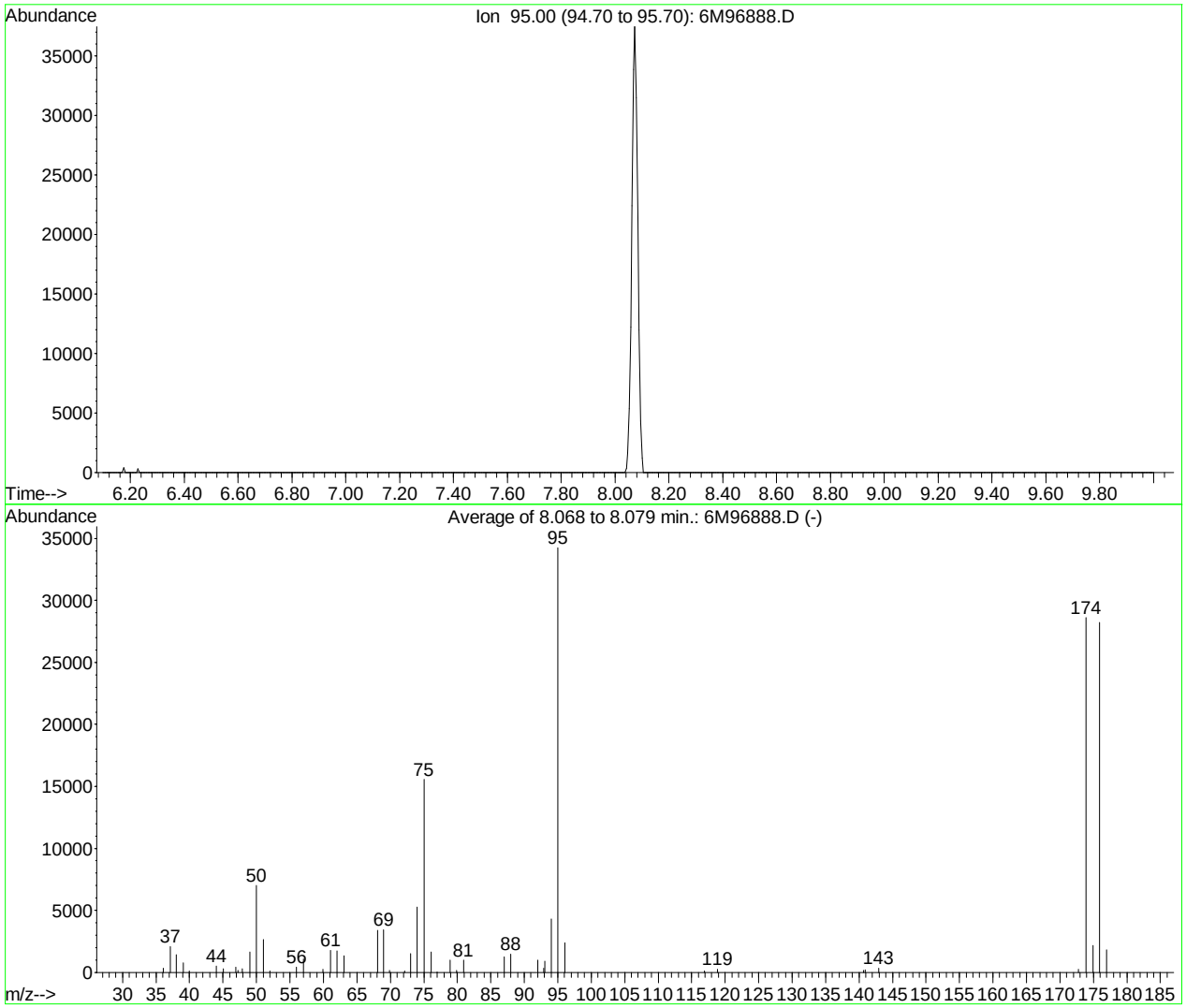


AutoFind: Scans 377, 378, 379; Background Corrected with Scan 369

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	7467	PASS
75	95	30	60	48.7	16220	PASS
95	95	100	100	100.0	33317	PASS
96	95	5	9	5.6	1856	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.1	31002	PASS
175	174	5	9	6.4	1972	PASS
176	174	95	101	97.5	30216	PASS
177	176	5	9	7.0	2122	PASS

6M96327.D BFB.M Wed Dec 15 09:40:08 2010

```
Data File : C:\MSDCHEM\1\DATA\010711\6M96888.D          Vial: 1
Acq On    :  7 Jan 2011   8:48                       Operator: MES
Sample    : WG353370-01 BFB 50ng 8260                Inst    : HPMS6
Misc      : 1,1 STD43280                             Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title     :
```



AutoFind: Scans 375, 376, 377; Background Corrected with Scan 367

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	7009	PASS
75	95	30	60	45.4	15572	PASS
95	95	100	100	100.0	34266	PASS
96	95	5	9	7.0	2390	PASS
173	174	0.00	2	0.8	235	PASS
174	95	50	100	83.6	28640	PASS
175	174	5	9	7.6	2182	PASS
176	174	95	101	98.6	28248	PASS
177	176	5	9	6.5	1826	PASS

6M96888.D BFB.M Fri Jan 07 09:02:53 2011

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\010711\6M96891.D Vial: 4
Acq On : 7 Jan 2011 10:17 Operator: MES
Sample : WG353371-01 VBLK0107 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 10 09:23:51 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.08	96	718719	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.59	117	576297	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.18	152	290071	25.00 ug/L	0.00

System Monitoring Compounds

36) Dibromofluoromethane	9.88	111	175699	23.7199 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.88%		
42) 1,2-Dichloroethane-d4	10.62	65	156683	23.0231 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.08%		
57) Toluene-d8	13.38	98	596823	24.0386 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 96.16%		
78) p-Bromofluorobenzene	17.38	95	207789	23.7373 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 94.96%		

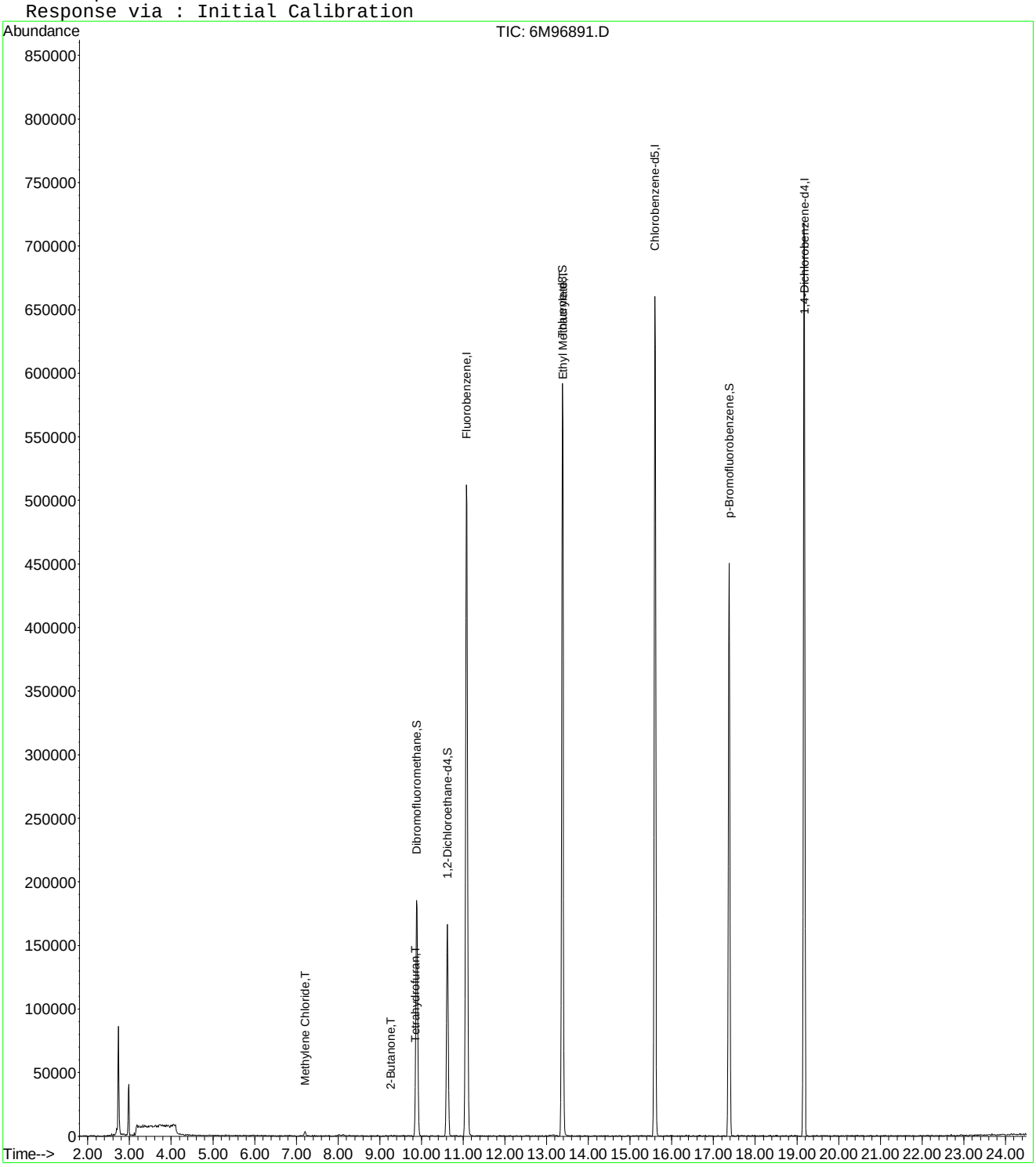
Target Compounds					Qvalue
19) Methylene Chloride	7.21	84	1707	0.2465 ug/L	57
29) 2-Butanone	9.26	43	224	0.1374 ug/L #	58
35) Tetrahydrofuran	9.85	42	206	0.1925 ug/L #	42
59) Ethyl Methacrylate	13.39	69	1605	0.3133 ug/L	87

(#) = qualifier out of range (m) = manual integration
6M96891.D 8260WTR.M Mon Jan 10 09:25:27 2011 Page 1

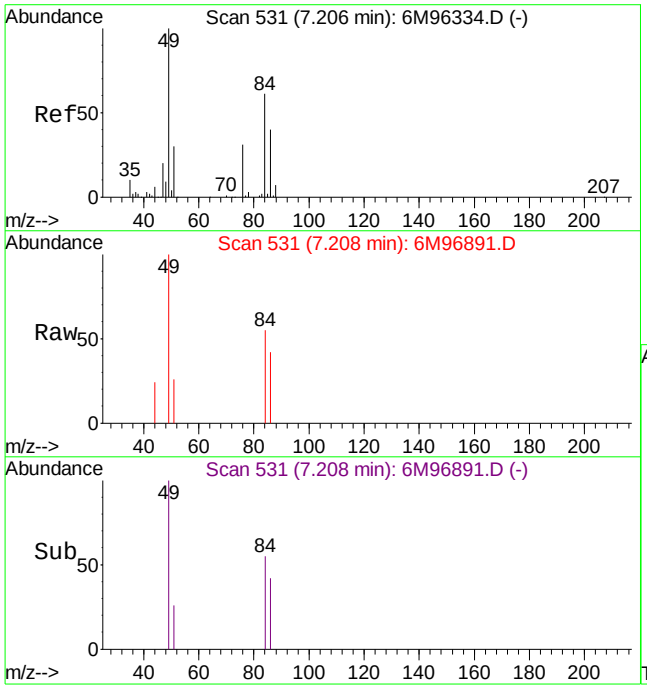
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\010711\6M96891.D Vial: 4
Acq On : 7 Jan 2011 10:17 Operator: MES
Sample : WG353371-01 VBLK0107 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 10 9:23 2011 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration



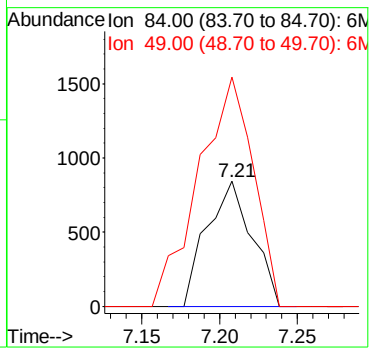
6M96891.D 8260WTR.M Mon Jan 10 09:25:31 2011 Page 2

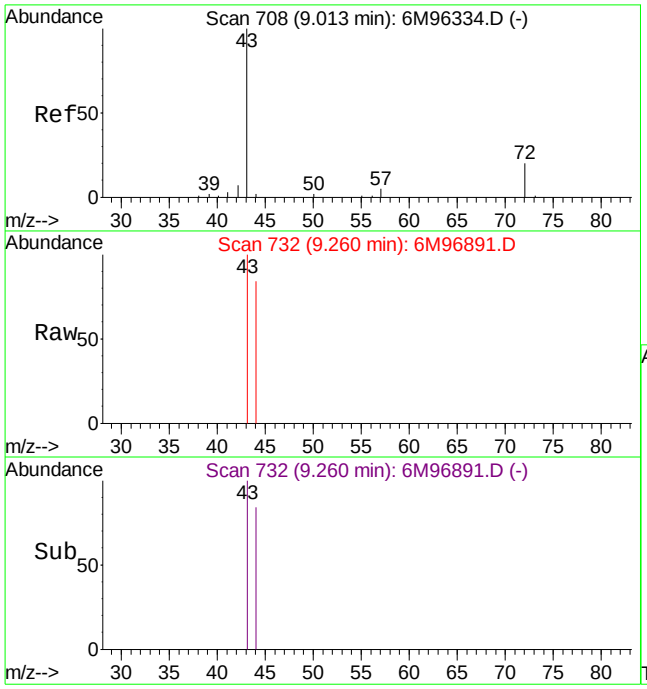


#19
Methylene Chloride
Concen: 0.25 ug/L
RT: 7.21 min Scan# 531
Delta R.T. 0.00 min
Lab File: 6M96891.D
Acq: 7 Jan 2011 10:17

Tgt Ion: 84 Resp: 1707

Ion	Ratio	Lower	Upper
84	100		
49	221.2	98.4	229.6

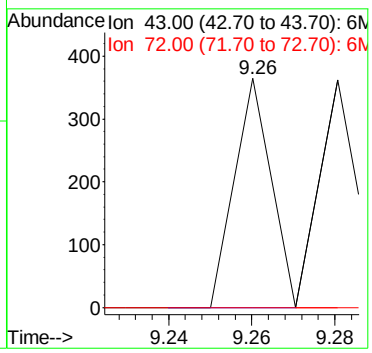


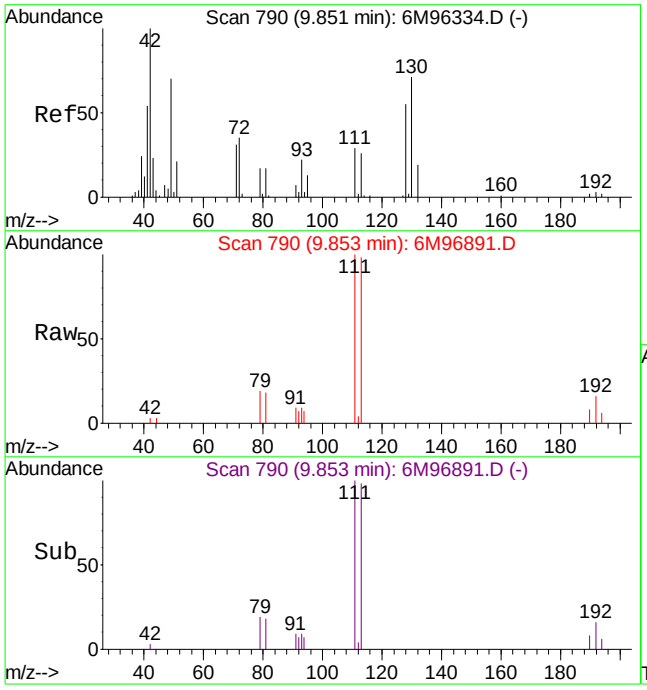


#29
2-Butanone
Concen: 0.14 ug/L
RT: 9.26 min Scan# 732
Delta R.T. 0.25 min
Lab File: 6M96891.D
Acq: 7 Jan 2011 10:17

Tgt Ion: 43 Resp: 224

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.3	26.5#

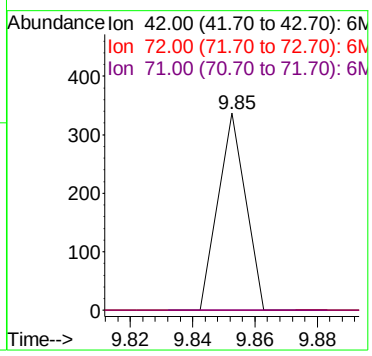


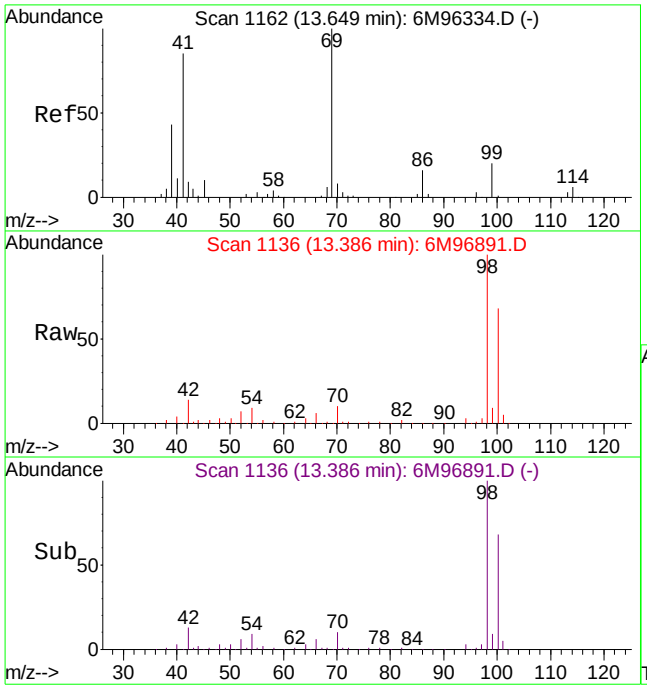


#35
Tetrahydrofuran
Concen: 0.19 ug/L
RT: 9.85 min Scan# 790
Delta R.T. 0.00 min
Lab File: 6M96891.D
Acq: 7 Jan 2011 10:17

Tgt Ion: 42 Resp: 206

Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.3	47.3#
71	0.0	19.2	44.8#

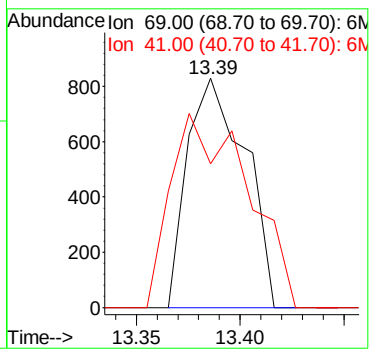




#59
Ethyl Methacrylate
Concen: 0.31 ug/L
RT: 13.39 min Scan# 1136
Delta R.T. -0.26 min
Lab File: 6M96891.D
Acq: 7 Jan 2011 10:17

Tgt Ion: 69 Resp: 1605

Ion	Ratio	Lower	Upper
69	100		
41	96.5	51.0	119.0



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\010711\6M96892.D Vial: 5
Acq On : 7 Jan 2011 10:48 Operator: MES
Sample : WG353371-02 20ug/L LCS 8260 Inst : HPMS6
Misc : 1,1 STD43256 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 11:13:14 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.09	96	711601	25.00 ug/L	0.00
56) Chlorobenzene-d5	15.60	117	576140	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	19.17	152	294734	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.88	111	175333	23.9072 ug/L	-0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.64%		
42) 1,2-Dichloroethane-d4	10.62	65	161800	24.0128 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.04%		
57) Toluene-d8	13.38	98	606423	24.4319 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.72%		
78) p-Bromofluorobenzene	17.38	95	217540	24.4580 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	259290	31.2354 ug/L	99
3) Chloromethane	3.48	50	237856	24.2048 ug/L	100
4) Vinyl Chloride	3.70	62	183764	27.4139 ug/L	99
5) 1,3-Butadiene	3.74	54	120899	23.8144 ug/L	96
6) Bromomethane	4.58	94	92399	19.8203 ug/L	98
7) Chloroethane	4.73	64	115994	25.6457 ug/L	99
8) Trichlorofluoromethane	5.23	101	302277	25.6003 ug/L	99
9) Diethyl ether	5.78	59	447475	98.8529 ug/L	98
10) Isoprene	5.82	67	205052	20.5192 ug/L	96
11) Acrolein	6.02	56	54632	216.4485 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.04	101	167620	23.0829 ug/L	99
13) Acetone	6.13	43	21662	20.2062 ug/L	99
14) 1,1-Dichloroethene	6.37	61	226437	19.9971 ug/L	98
15) Tert-Butyl Alcohol	6.48	59	47641	201.1938 ug/L	97
16) Dimethyl Sulfide	6.64	62	149430	20.8001 ug/L	99
17) Iodomethane	6.91	142	70564	7.1729 ug/L	98
18) Methyl acetate	6.94	43	94595	25.3438 ug/L	99
19) Methylene Chloride	7.21	84	138506	20.2015 ug/L	96
20) Carbon Disulfide	7.24	76	426264	20.9928 ug/L	100
21) Acrylonitrile	7.40	53	31301	19.9630 ug/L	99
22) Methyl Tert Butyl Ether	7.45	73	254012	19.3980 ug/L	100
23) trans-1,2-Dichloroethene	7.70	96	150549	21.1550 ug/L	98
24) n-Hexane	7.80	57	211060	22.3418 ug/L	97
25) Diisopropyl ether	8.18	45	2697681	109.3550 ug/L	99
26) Vinyl Acetate	8.36	43	67040	7.1049 ug/L	100
27) 1,1-Dichloroethane	8.39	63	270663	20.9112 ug/L	99
28) Ethyl-Tert-Butyl ether	8.82	59	1880977	100.5865 ug/L	100
29) 2-Butanone	9.01	43	33715	20.8882 ug/L	99
30) Propionitrile	9.14	54	46909	103.3384 ug/L	97
31) 2,2-Dichloropropane	9.26	77	233796	20.8073 ug/L	95
32) cis-1,2-Dichloroethene	9.33	96	167887	21.6919 ug/L	96
33) Chloroform	9.56	83	260925	20.7222 ug/L	100
34) Bromochloromethane	9.82	130	92527	20.5863 ug/L	99
35) Tetrahydrofuran	9.85	42	104594	98.7088 ug/L	97
37) 1,1,1-Trichloroethane	10.17	97	250032	21.4769 ug/L	98
38) Cyclohexane	10.20	56	271093	23.9578 ug/L	98
39) 1,1-Dichloropropene	10.39	75	206248	21.5921 ug/L	99
40) Tert-Amyl-Methyl ether	10.52	73	1412753	105.2768 ug/L	99
41) Carbon Tetrachloride	10.54	117	249448	21.7041 ug/L	99
44) 1,2-Dichloroethane	10.76	62	181246	21.1538 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\010711\6M96892.D Vial: 5
Acq On : 7 Jan 2011 10:48 Operator: MES
Sample : WG353371-02 20ug/L LCS 8260 Inst : HPMS6
Misc : 1,1 STD43256 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 11:13:14 2011 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

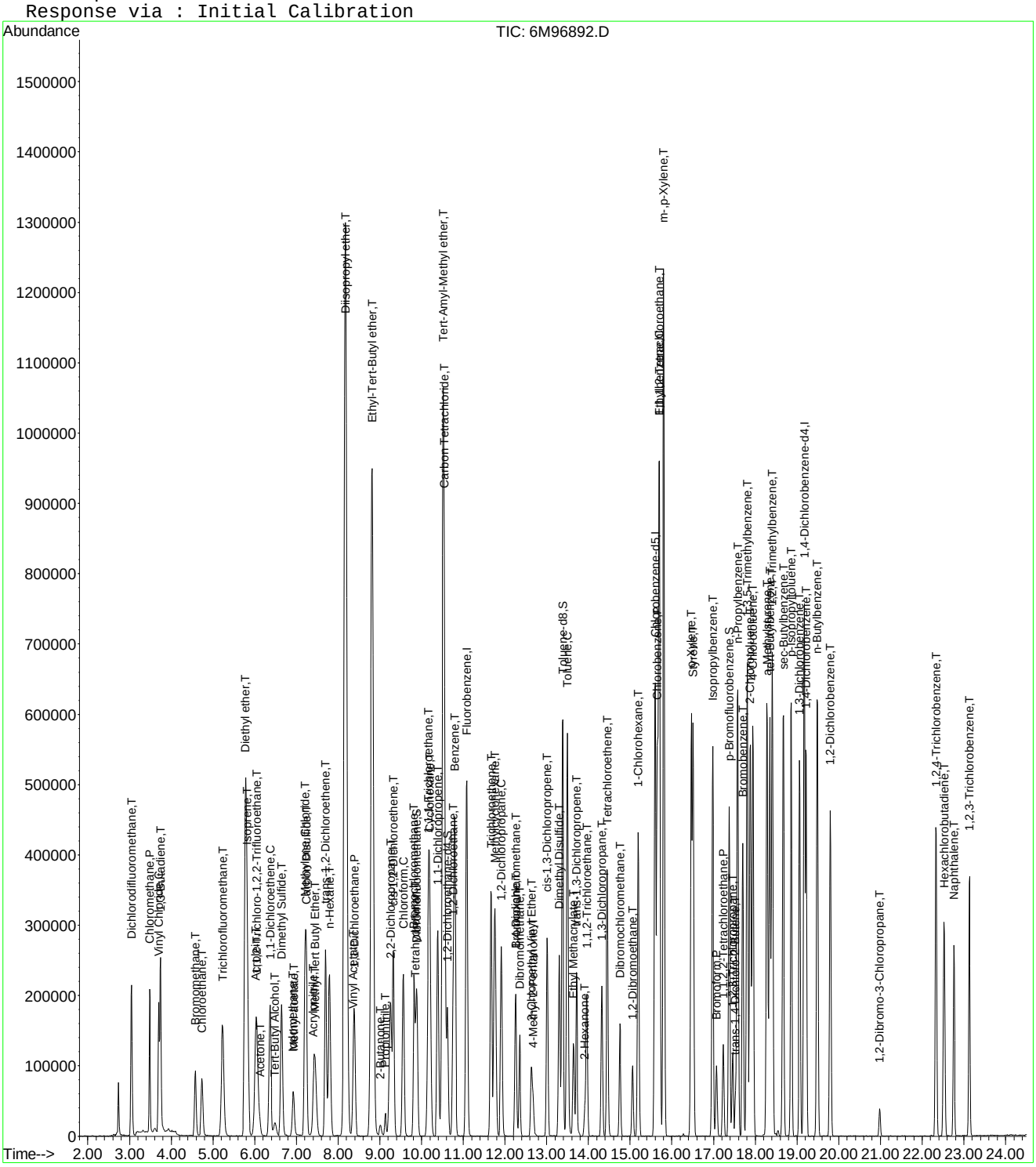
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) Benzene	10.79	78	576443	21.5601 ug/L	99
46) Trichloroethene	11.67	130	177193	21.5194 ug/L	99
47) Methylcyclohexane	11.76	83	222273	22.1002 ug/L	100
48) 1,2-Dichloropropane	11.91	63	144763	21.2917 ug/L	100
49) 1,4-Dioxane	12.26	88	3310	120.2571 ug/L	91
50) Bromodichloromethane	12.26	83	182659	21.2773 ug/L	98
51) Dibromomethane	12.35	93	72229	21.0651 ug/L	99
52) 2-Chloroethyl Vinyl Ether	12.64	63	51458	18.5646 ug/L	98
53) 4-Methyl-2-Pentanone	12.67	58	24664	19.7844 ug/L	99
54) cis-1,3-Dichloropropene	13.01	75	210443	21.5777 ug/L	99
55) Dimethyl Disulfide	13.30	79	102555	20.9605 ug/L	97
58) Toluene	13.50	91	619658	20.9352 ug/L	98
59) Ethyl Methacrylate	13.64	69	99426	19.4119 ug/L	99
60) trans-1,3-Dichloropropene	13.71	75	164785	19.9198 ug/L	98
61) 1,1,2-Trichloroethane	13.97	97	94871	20.9402 ug/L	99
62) 2-Hexanone	13.91	43	45549	19.7513 ug/L	96
63) 1,3-Dichloropropane	14.32	76	158521	20.7114 ug/L	98
64) Tetrachloroethene	14.46	166	176229	20.1503 ug/L	98
65) Dibromochloromethane	14.75	129	128250	20.2132 ug/L	100
66) 1,2-Dibromoethane	15.06	107	98688	21.3621 ug/L	96
67) 1-Chlorohexane	15.19	91	201759	20.3571 ug/L	99
68) Chlorobenzene	15.65	112	421471	20.1257 ug/L	99
69) 1,1,1,2-Tetrachloroethane	15.70	131	157691	21.3129 ug/L	99
70) Ethylbenzene	15.70	106	227699	21.2121 ug/L	98
71) m-,p-Xylene	15.80	106	549310	42.3568 ug/L	99
72) o-Xylene	16.47	106	259754	20.8663 ug/L	100
73) Styrene	16.51	104	430915	21.2658 ug/L	100
74) Bromoform	17.07	173	70892	19.4316 ug/L	99
75) Isopropylbenzene	16.98	105	600952	18.4001 ug/L	99
77) 1,1,2,2-Tetrachloroethane	17.23	83	89446	21.3325 ug/L	99
79) 1,2,3-Trichloropropane	17.46	110	27788	20.7104 ug/L	94
80) trans-1,4-Dichloro-2-Buten	17.52	53	20419	12.0912 ug/L	97
81) n-Propylbenzene	17.58	91	790346	21.3523 ug/L	99
82) Bromobenzene	17.70	156	178804	20.4094 ug/L	100
83) 1,3,5-Trimethylbenzene	17.80	105	573956	21.9216 ug/L	99
84) 2-Chlorotoluene	17.88	91	473653	20.2978 ug/L	95
85) 4-Chlorotoluene	17.94	91	478742	21.6765 ug/L	96
86) a-Methylstyrene	18.28	118	303693	19.6437 ug/L	99
87) tert-Butylbenzene	18.35	134	124870	20.7671 ug/L	98
88) 1,2,4-Trimethylbenzene	18.41	105	581029	21.5511 ug/L	89
89) sec-Butylbenzene	18.67	105	705761	21.2968 ug/L	99
90) p-Isopropyltoluene	18.87	119	589312	20.0499 ug/L	100
91) 1,3-Dichlorobenzene	19.06	146	344260	20.5420 ug/L	99
92) 1,4-Dichlorobenzene	19.22	146	348397	20.4113 ug/L	100
93) n-Butylbenzene	19.48	91	541885	21.9347 ug/L	99
94) 1,2-Dichlorobenzene	19.80	146	296418	20.1715 ug/L	100
95) 1,2-Dibromo-3-Chloropropan	20.98	75	13631	19.0511 ug/L	97
96) 1,2,4-Trichlorobenzene	22.34	180	206457	19.6339 ug/L	98
97) Hexachlorobutadiene	22.53	225	94856	19.1332 ug/L	99
98) Naphthalene	22.76	128	312686	21.9974 ug/L	99
99) 1,2,3-Trichlorobenzene	23.14	180	172430	20.8156 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\010711\6M96892.D Vial: 5
Acq On : 7 Jan 2011 10:48 Operator: MES
Sample : WG353371-02 20ug/L LCS 8260 Inst : HPMS6
Misc : 1,1 STD43256 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 11:13 2011 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624_WATER OVLMSV01 12/15/10 - HPMS6
Last Update : Wed Dec 15 15:19:42 2010
Response via : Initial Calibration



2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Login Number: L11010116

Department: Semivolatiles

Analyst: Cassie A. Augenstein

METHOD

Preparation 3520C

Analysis SW-846 8270C/40 CFR 264 App. IX

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: 2,4-Dinitrophenol, Hexachlorocyclopentadiene. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: 4-Nitrophenol, Benzoic Acid, bis(2-Chloroisopropyl)ether, Hexachlorocyclopentadiene. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: Benzoic Acid. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 19547
Approved By: Mike Cochran

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	8270C	1	06-JAN-11

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353794**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3520C**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS5**
Prep Date: **01/10/2011 08:01**
Cal Date: **12/22/2010 14:43**
Run Date: **01/14/2011 18:00**
File ID: **5M61583**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	11.4	2.84
1,2-Dichlorobenzene	95-50-1		U	11.4	2.84
1,3-Dichlorobenzene	541-73-1		U	11.4	2.84
1,4-Dichlorobenzene	106-46-7		U	11.4	2.84
2,4,5-Trichlorophenol	95-95-4		U	11.4	2.84
2,4,6-Trichlorophenol	88-06-2		U	11.4	2.84
2,4-Dichlorophenol	120-83-2		U	11.4	2.84
2,4-Dimethylphenol	105-67-9		U	11.4	2.84
2,4-Dinitrophenol	51-28-5		U	45.5	14.2
2,4-Dinitrotoluene	121-14-2		U	11.4	2.84
2,6-Dinitrotoluene	606-20-2		U	11.4	2.84
2-Chloronaphthalene	91-58-7		U	11.4	2.84
2-Chlorophenol	95-57-8		U	11.4	2.84
2-Methylnaphthalene	91-57-6		U	11.4	2.84
2-Methylphenol	95-48-7		U	11.4	2.84
2-Nitroaniline	88-74-4		U	45.5	14.2
2-Nitrophenol	88-75-5		U	11.4	2.84
3,3'-Dichlorobenzidine	91-94-1		U	11.4	2.84
3-,4-Methylphenol	106-44-5		U	11.4	2.84
3-Nitroaniline	99-09-2		U	45.5	14.2
4,6-Dinitro-2-methylphenol	534-52-1		U	45.5	14.2
4-Bromophenyl-phenylether	101-55-3		U	11.4	2.84
4-Chloro-3-methylphenol	59-50-7		U	11.4	2.84
4-Chloroaniline	106-47-8		U	11.4	2.84
4-Chlorophenyl-phenyl ether	7005-72-3		U	11.4	2.84
4-Nitroaniline	100-01-6		U	45.5	14.2
4-Nitrophenol	100-02-7		U	45.5	14.2
Acenaphthene	83-32-9		U	11.4	2.84
Acenaphthylene	208-96-8		U	11.4	2.84
Anthracene	120-12-7		U	11.4	2.84
Benzo(a)anthracene	56-55-3		U	11.4	2.84
Benzo(a)pyrene	50-32-8		U	11.4	2.84
Benzo(b)fluoranthene	205-99-2		U	11.4	2.84
Benzo(g,h,i)Perylene	191-24-2		U	11.4	2.84
Benzo(k)fluoranthene	207-08-9		U	11.4	2.84
Benzoic acid	65-85-0		U	45.5	14.2
Benzyl alcohol	100-51-6		U	11.4	2.84
Bis(2-Chloroethoxy)Methane	111-91-1		U	11.4	2.84
Bis(2-Chloroethyl)ether	111-44-4		U	11.4	2.84
bis(2-Chloroisopropyl)ether	108-60-1		U	11.4	2.84
bis(2-Ethylhexyl)phthalate	117-81-7		U	11.4	3.41
Butylbenzylphthalate	85-68-7		U	11.4	2.84
Chrysene	218-01-9		U	11.4	2.84
Di-N-Butylphthalate	84-74-2		U	11.4	2.84
Di-n-octylphthalate	117-84-0		U	11.4	2.84
Dibenzo(a,h)Anthracene	53-70-3		U	11.4	2.84
Dibenzofuran	132-64-9		U	11.4	2.84
Diethylphthalate	84-66-2		U	11.4	2.84
Dimethylphthalate	131-11-3		U	11.4	2.84
Fluoranthene	206-44-0		U	11.4	2.84
Fluorene	86-73-7		U	11.4	2.84
Hexachlorobenzene	118-74-1		U	11.4	2.84
Hexachlorobutadiene	87-68-3		U	11.4	2.84
Hexachlorocyclopentadiene	77-47-4		U	11.4	2.84
Hexachloroethane	67-72-1		U	11.4	2.84
Indeno(1,2,3-cd)pyrene	193-39-5		U	11.4	2.84
Isophorone	78-59-1		U	11.4	2.84
N-Nitroso-di-n-propylamine	621-64-7		U	11.4	2.84
N-Nitrosodiphenylamine	86-30-6		U	11.4	2.84

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353794**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3520C**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS5**
Prep Date: **01/10/2011 08:01**
Cal Date: **12/22/2010 14:43**
Run Date: **01/14/2011 18:00**
File ID: **5M61583**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	11.4	2.84
Nitrobenzene	98-95-3		U	11.4	2.84
Pentachlorophenol	87-86-5		U	45.5	14.2
Phenanthrene	85-01-8		U	11.4	2.84
Phenol	108-95-2		U	11.4	2.84
Pyrene	129-00-0		U	11.4	2.84

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	83.6	40	125	
2-Fluorobiphenyl	66.4	50	110	
2-Fluorophenol	59.4	20	110	
Nitrobenzene-d5	62.4	40	110	
p-Terphenyl-d14	82.4	50	135	
Phenol-d5	63.4	10	115	

U Analyte was not detected. The concentration is below the reported LOD.

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Microbac Laboratories Inc.
Continuous Sample Extract Log

Workgroup: WG353486
Analyst: CSH
Spike Analyst: CSH
Method: 3520C
Run Date: 01/10/2011 08:01
SOP: EXB01 Revison 16
Spike Witness: CAF
Surr Solution: STD42729

TIME ON: 14:30 OFF: 08:45 ON: 13:30 OFF: 07:30
Methylene Chloride Lot #: COA15143
1:1 H2SO4 Lot #: RGT15639
10N NaOH Lot #: RGT15700
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15133

	SAMPLE #	Type	Reference	Prod	pH	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L10120486-01	SAMP		827-SPE-DIO	<2>12	890 mL	.5 mL			1 mL	Colored
2	L10120486-02	SAMP		827-SPE-DIO	<2>12	980 mL	.5 mL			1 mL	Colored
3	L10120486-03	SAMP		827-SPE-DIO	<2>12	980 mL	.5 mL			1 mL	Colored
4	L10120520-01	SAMP		827-SPE-DIO	<2>12	1000 mL	.5 mL			1 mL	Colored
5	L10120520-03	SAMP		827-SPE-DIO	<2>12	1000 mL	.5 mL			1 mL	Colored
6	L10120520-05	SAMP		827-SPE-DIO	<2>12	940 mL	.5 mL			1 mL	Colored
7	L10120520-07	SAMP		827-SPE-DIO	<2>12	940 mL	.5 mL			1 mL	Colored
8	L10120520-09	SAMP		827-SPE-DIO	<2>12	1000 mL	.5 mL			1 mL	Colored
9	L10120520-11	SAMP		827-SPE-DIO	<2>12	930 mL	.5 mL			1 mL	Colored
10	L10120520-13	RS01		827-SPE-DIO	<2>12	1000 mL	.5 mL			1 mL	Colored
11	L10120520-15	SAMP		827-SPE-DIO	<2>12	920 mL	.5 mL			1 mL	Colored
12	L10120520-17	MS01	L10120520-13	827-SPE-DIO	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored
13	L10120520-19	SD01	L10120520-13	827-SPE-DIO	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored
14	L11010116-01	SAMP		827-SPE	<2>12	880 mL	.5 mL			1 mL	Colored
15	WG353486-01	BLANK		827-SPE	<2>12	1000 mL	.5 mL			1 mL	Colored
16	WG353486-02	LCS		827-SPE	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored
17	WG353486-03	LCS2		827-SPE	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored
18	WG353486-04	REF	L10120520-13	827-SPE-DIO	<2>12	1000 mL	.5 mL			1 mL	Colored
19	WG353486-05	MS	L10120520-13	827-SPE-DIO	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored
20	WG353486-06	MSD	L10120520-13	827-SPE-DIO	<2>12	1000 mL	.5 mL	.5 mL	STD40823	1 mL	Colored

L10120486-01	RE-EXTRACT OUT OF HOLD
L10120486-02	RE-EXTRACT OUT OF HOLD
L10120486-03	RE-EXTRACT OUT OF HOLD
L10120520-01	RE-EXTRACT OUT OF HOLD
L10120520-03	RE-EXTRACT OUT OF HOLD
L10120520-05	RE-EXTRACT OUT OF HOLD
L10120520-07	RE-EXTRACT OUT OF HOLD
L10120520-09	RE-EXTRACT OUT OF HOLD
L10120520-11	RE-EXTRACT OUT OF HOLD
L10120520-13	RE-EXTRACT OUT OF HOLD
L10120520-15	RE-EXTRACT OUT OF HOLD
L10120520-17	RE-EXTRACT OUT OF HOLD
L10120520-19	RE-EXTRACT OUT OF HOLD
WG353486-04	RE-EXTRACT OUT OF HOLD
WG353486-05	RE-EXTRACT OUT OF HOLD

EXTRACT - Modified 01/23/2009
PDF ID: 1890745
Report generated: 01/12/2011 11:55

Microbac Laboratories Inc.
Continuous Sample Extract Log

Workgroup: WG353486
Analyst: CSH
Spike Analyst: CSH
Method: 3520C
Run Date: 01/10/2011 08:01
SOP: EXB01 Revison 16
Spike Witness: CAF
Surr Solution: STD42729

TIME ON: 14:30 OFF: 08:45 ON: 13:30 OFF: 07:30
Methylene Chloride Lot #: COA15143
1:1 H2SO4 Lot #: RGT15639
10N NaOH Lot #: RGT15700
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15133

WG353486-06	RE-EXTRACT OUT OF HOLD

Analyst: Chris Hill

Reviewer: [illegible]

EXTRACT - Modified 01/23/2009
PDF ID: 1890745
Report generated: 01/12/2011 11:55

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS5 Dataset: 122210
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 16

Maintenance Log ID: 35878 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups:

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA Calibration STD

Comments: Ran ICAL due to new column.
5M61379 thru 5M61383 needs reran due to alt source.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	5M61354	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 07:25
2	5M61355	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 07:40
3	5M61356	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 07:57
4	5M61357	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 08:24
5	5M61358	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 08:39
6	5M61359	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 08:54
7	5M61360	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 09:23
8	5M61361	WG352225-01 50ppm DFTPP STD	1	1	STD41383	12/22/10 09:50
9	5M61362	WG352225-02 50ppm Megamix STD	1	1	STD42372	12/22/10 10:09
10	5M61363	WG352225-02 50ppm Megamix STD	1	1	STD42372	12/22/10 10:43
11	5M61364	WG352225-03 3ppm Megamix STD	1	1	STD42372	12/22/10 11:17
12	5M61365	WG352225-04 10ppm Megamix STD	1	1	STD42372	12/22/10 11:51
13	5M61366	WG352225-05 15ppm Megamix STD	1	1	STD42372	12/22/10 12:25
14	5M61367	WG352225-06 25ppm Megamix STD	1	1	STD42372	12/22/10 13:00
15	5M61368	WG352225-07 80ppm Megamix STD	1	1	STD42372	12/22/10 13:34
16	5M61369	WG352225-08 100ppm Megamix STD	1	1	STD42372	12/22/10 14:08
17	5M61370	WG352225-09 120ppm Megamix STD	1	1	STD42372	12/22/10 14:43
18	5M61371	WG352225-10 50ppm Megamix Alt Src STD	1	1	STD42901	12/22/10 15:17
19	5M61372	WG352274-01 50ppm TCL STD	1	1	STD42166	12/22/10 15:51
20	5M61373	WG352274-02 3ppm TCL STD	1	1	STD42166	12/22/10 16:24
21	5M61374	WG352274-03 10ppm TCL STD	1	1	STD42166	12/22/10 16:58
22	5M61375	WG352274-04 25ppm TCL STD	1	1	STD42166	12/22/10 17:32
23	5M61376	WG352274-05 80ppm TCL STD	1	1	STD42166	12/22/10 18:05
24	5M61377	WG352274-06 100ppm TCL STD	1	1	STD42166	12/22/10 18:39
25	5M61378	WG352274-07 50ppm TCL Alt Src STD	1	1	STD40558	12/22/10 19:12
26	5M61379	L10100001-01 LOD	1	1		12/22/10 19:46
27	5M61380	L10100001-02 LOD	1	1		12/22/10 20:20
28	5M61381	L10100003-01 LOQ	1	1		12/22/10 20:53
29	5M61382	L10100003-02 LOQ	1	1		12/22/10 21:27
30	5M61383	WG347077-01 BLK 10/29 RR	1	1		12/22/10 22:00

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			

Page: 1 Approved: 23-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS5 Dataset: 122210
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 16

Maintenance Log ID: 35878 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups:

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	WG352225-01 50ppm DFTPP STD - Tune failed.			
2	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
3	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
4	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
5	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
6	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
7	X			
	WG352225-01 50ppm DFTPP STD - Tune failed.			
9	X			
	WG352225-02 50ppm Megamix STD - Istd too high, lowered multiplier.			
18				
	WG352225-10 50ppm Megamix Alt Src STD - Only used for 1,4-Dioxane, needs alt source with out 1,4-Dioxane mixed with it (causes several compounds to fail low).			

Page: 2 Approved: 23-DEC-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS5 Dataset: 122310
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 16

Maintenance Log ID: 35983 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG348224, WG347197, WG347196, WG352355

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	5M61384	WG352346-01 50ppm DFTPP STD	1	1	STD41383	12/23/10 06:54
2	5M61385	WG352346-01 50ppm DFTPP STD	1	1	STD41383	12/23/10 07:09
3	5M61386	WG352346-01 50ppm DFTPP STD	1	1	STD41383	12/23/10 07:27
4	5M61387	WG352346-01 50ppm DFTPP STD	1	1	STD41383	12/23/10 07:53
5	5M61388	WG352346-02 50ppm Megamix STD	1	1	STD42372	12/23/10 08:12
6	5M61389	WG352225-11 50ppm Megamix Alt Src STD	1	1	STD41307	12/23/10 08:46
7	5M61390	WG352380-01 50ppm TCL STD	1	1	STD42166	12/23/10 09:19
8	5M61391	WG348035-01 BLK 11/09	10	1	SOIL	12/23/10 09:53
9	5M61392	L10100002-03 LOD	10	1	SOIL	12/23/10 10:27
10	5M61393	L10100002-04 LOD	10	1	SOIL	12/23/10 11:01
11	5M61394	L10100004-03 LOQ	10	1	SOIL	12/23/10 11:34
12	5M61395	L10100004-04 LOQ	10	1	SOIL	12/23/10 12:08
13	5M61396	WG347077-01 BLK 10/29	1	1		12/23/10 12:42
23	5M61397	L10100001-02 LOD	1	1		12/23/10 13:16
24	5M61398	L10100003-02 LOQ	1	1		12/23/10 13:50
14	5M61399	L10100003-01 LOQ	1	1		12/23/10 14:25
25	5M61400	L10100001-01 LOD	1	1		12/23/10 14:59
15	5M61401	WG346776-02 BLK 10/27	1	1		12/23/10 15:33
16	5M61402	L10100001-03 LOD	1	1		12/23/10 16:07
17	5M61403	L10100001-04 LOD	1	1		12/23/10 16:41
18	5M61404	L10100003-03 LOQ	1	1		12/23/10 17:14
19	5M61405	L10100003-04 LOQ	1	1		12/23/10 17:48
20	5M61406	WG351929-02 BLK 12/20	1	1		12/23/10 18:22
21	5M61407	WG351929-03 LCS 12/20	1	1		12/23/10 18:55
22	5M61408	L10120430-01	1	1		12/23/10 19:29

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
	WG352346-01 50ppm DFTPP STD - Tune failed.			
2	X			
	WG352346-01 50ppm DFTPP STD - Tune failed.			
3	X			
	WG352346-01 50ppm DFTPP STD - Tune failed.			

Page: 1 Approved: 04-JAN-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS5 Dataset: 122310
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 16

Maintenance Log ID: 35983 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG348224, WG347197, WG347196, WG352355

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9	X	1	Internal standard failure	All istd high.
	L10100002-03 LOD			
10	X	1	Internal standard failure	All istd high.
	L10100002-04 LOD			
11	X	1	Internal standard failure	All istd high.
	L10100004-03 LOQ			
12	X	1	Internal standard failure	All istd high.
	L10100004-04 LOQ			
15				
	WG346776-02 BLK 10/27 - All istd high.			

Page: 2 Approved: 04-JAN-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS5 Dataset: 011411
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 16

Maintenance Log ID: 36127 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG353794

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	5M61564	WG353967-01 50ppm DFTPP STD	1	1	STD41383	01/14/11 07:33
2	5M61565	WG353967-02 50ppm Megamix STD	1	1	STD42372	01/14/11 07:52
3	5M61566	WG353967-02 50ppm Megamix STD	1	1	STD42372	01/14/11 08:25
4	5M61567	WG353486-01 BLK 01/10	1	1		01/14/11 08:58
5	5M61568	WG353486-02 LCS 01/10	1	1		01/14/11 09:31
6	5M61569	WG353486-03 LCS DUP 01/10	1	1		01/14/11 10:04
7	5M61570	L10120486-01 RE	1	1		01/14/11 10:37
8	5M61571	L10120486-02 RE	1	1		01/14/11 11:11
9	5M61572	L10120486-03 RE	1	1		01/14/11 11:44
10	5M61573	L10120520-01 RE	1	1		01/14/11 12:17
11	5M61574	L10120520-03 RE	1	1		01/14/11 12:51
12	5M61575	L10120520-05 RE	1	1		01/14/11 13:25
13	5M61576	L10120520-07 RE	1	1		01/14/11 13:59
14	5M61577	L10120520-09 RE	1	1		01/14/11 14:33
15	5M61578	L10120520-11 RE	1	1		01/14/11 15:08
21	5M61579	L10120520-13 REF RE	1	1		01/14/11 15:42
17	5M61580	L10120520-15 RE	1	1		01/14/11 16:17
22	5M61581	L10120520-17 MS RE	1	1		01/14/11 16:51
23	5M61582	L10120520-19 MSD RE	1	1		01/14/11 17:25
20	5M61583	L11010116-01	1	1		01/14/11 18:00

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG353967-02 50ppm Megamix STD - Istd passing, but very high; lowered multiplier.			
15				
	L10120520-11 RE - SS 2FP and NBZ low.			

Page: 1 Approved: 17-JAN-11

Microbac Laboratories Inc.

Data Checklist

Date: 22-DEC-2010
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS5
Curve Workgroup: NA
Runlog ID: 38222
Analytical Workgroups: ICAL ONLY

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	NA
TCL hits	NA
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	NA
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	ECL

Primary Reviewer:
23-DEC-2010

Secondary Reviewer:
23-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-23-2010 11:57:04

Microbac Laboratories Inc.

Data Checklist

Date: 23-DEC-2010
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS5
Curve Workgroup: NA
Runlog ID: 38330
Analytical Workgroups: L10120430, L10100001, L10100003

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer: 04-JAN-2011

Secondary Reviewer: 04-JAN-2011

CHECKLIST1 - Modified 03/05/2008

Generated: JAN-04-2011 11:36:18

Microbac Laboratories Inc.

Data Checklist

Date: 14-JAN-2011
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS5
Curve Workgroup: NA
Runlog ID: 38568
Analytical Workgroups: L10120486, L10120520, L11010116

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer: 17-JAN-2011

Secondary Reviewer: 17-JAN-2011

CHECKLIST1 - Modified 03/05/2008

Generated: JAN-17-2011 10:10:07

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C

AAB#: WG353794

Login Number: L11010116

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
HTA-IDW-001-0111	01	01/05/11					01/10/11	5	7		01/14/11	4.4	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1895118
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11010116
Instrument Id: HPMS5
Workgroup (AAB#): WG353794

Method: 8270
CAL ID: HPMS5-22-DEC-10
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4	5	6
L11010116-01	1.00	01	83.6	66.4	59.4	62.4	82.4	63.4
WG353486-01	1.00	01	78.4	66.0	57.9	60.9	95.5	61.5
WG353486-02	1.00	01	84.4	79.1	70.1	68.9	92.6	71.7
WG353486-03	1.00	01	88.8	82.1	70.1	68.1	97.5	73.2

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	40	-	125
2 - 2-Fluorobiphenyl	50	-	110
3 - 2-Fluorophenol	20	-	110
4 - Nitrobenzene-d5	40	-	110
5 - p-Terphenyl-d14	50	-	135
6 - Phenol-d5	10	-	115

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1894261
Report generated: 01/17/2011 13:57

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: 5M61567
Prep Date: 01/10/11 08:01
Analyzed Date: 01/14/11 08:58
Analyst: CAA

Work Group: WG353794
Blank Sample ID: WG353486-01
Instrument ID: HPMS5
Method: 8270C

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353486-02	5M61568	01/14/11 09:31	01
LCS2	WG353486-03	5M61569	01/14/11 10:04	01
HTA-IDW-001-0111	L11010116-01	5M61583	01/14/11 18:00	01

Report Name: BLANK_SUMMARY
PDF File ID: 1895119
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/10/11 08:01 Sample ID: WG353486-01
Instrument ID: HPMS5 Run Date: 01/14/11 08:58 Prep Method: 3520C
File ID: 5M61567 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG353794 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS5-22-DEC-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	2.50	10.0	2.50	1	U
1,2-Dichlorobenzene	2.50	10.0	2.50	1	U
1,3-Dichlorobenzene	2.50	10.0	2.50	1	U
1,4-Dichlorobenzene	2.50	10.0	2.50	1	U
2,4,5-Trichlorophenol	2.50	10.0	2.50	1	U
2,4,6-Trichlorophenol	2.50	10.0	2.50	1	U
2,4-Dichlorophenol	2.50	10.0	2.50	1	U
2,4-Dimethylphenol	2.50	10.0	2.50	1	U
2,4-Dinitrophenol	12.5	40.0	12.5	1	U
2,4-Dinitrotoluene	2.50	10.0	2.50	1	U
2,6-Dinitrotoluene	2.50	10.0	2.50	1	U
2-Chloronaphthalene	2.50	10.0	2.50	1	U
2-Chlorophenol	2.50	10.0	2.50	1	U
2-Methylnaphthalene	2.50	10.0	2.50	1	U
2-Methylphenol	2.50	10.0	2.50	1	U
2-Nitroaniline	12.5	40.0	12.5	1	U
2-Nitrophenol	2.50	10.0	2.50	1	U
3,3'-Dichlorobenzidine	2.50	10.0	2.50	1	U
3-,4-Methylphenol	2.50	10.0	2.50	1	U
3-Nitroaniline	12.5	40.0	12.5	1	U
4,6-Dinitro-2-methylphenol	12.5	40.0	12.5	1	U
4-Bromophenyl-phenylether	2.50	10.0	2.50	1	U
4-Chloro-3-methylphenol	2.50	10.0	2.50	1	U
4-Chloroaniline	2.50	10.0	2.50	1	U
4-Chlorophenyl-phenyl ether	2.50	10.0	2.50	1	U
4-Nitroaniline	12.5	40.0	12.5	1	U
4-Nitrophenol	12.5	40.0	12.5	1	U
Acenaphthene	2.50	10.0	2.50	1	U
Acenaphthylene	2.50	10.0	2.50	1	U
Anthracene	2.50	10.0	2.50	1	U
Benzo(a)anthracene	2.50	10.0	2.50	1	U
Benzo(a)pyrene	2.50	10.0	2.50	1	U
Benzo(b)fluoranthene	2.50	10.0	2.50	1	U
Benzo(g,h,i)Perylene	2.50	10.0	2.50	1	U
Benzo(k)fluoranthene	2.50	10.0	2.50	1	U
Benzoic acid	12.5	40.0	12.5	1	U
Benzyl alcohol	2.50	10.0	2.50	1	U
Bis(2-Chloroethoxy)Methane	2.50	10.0	2.50	1	U
Bis(2-Chloroethyl)ether	2.50	10.0	2.50	1	U
bis(2-Chloroisopropyl)ether	2.50	10.0	2.50	1	U
bis(2-Ethylhexyl)phthalate	3.00	10.0	3.00	1	U
Butylbenzylphthalate	2.50	10.0	2.50	1	U

Report Name: BLANK
PDF ID: 1894259
17-JAN-2011 13:56

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/10/11 08:01 Sample ID: WG353486-01
Instrument ID: HPMS5 Run Date: 01/14/11 08:58 Prep Method: 3520C
File ID: 5M61567 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG353794 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS5-22-DEC-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chrysene	2.50	10.0	2.50	1	U
Di-N-Butylphthalate	2.50	10.0	2.50	1	U
Di-n-octylphthalate	2.50	10.0	2.50	1	U
Dibenzo(a,h)Anthracene	2.50	10.0	2.50	1	U
Dibenzofuran	2.50	10.0	2.50	1	U
Diethylphthalate	2.50	10.0	2.50	1	U
Dimethylphthalate	2.50	10.0	2.50	1	U
Fluoranthene	2.50	10.0	2.50	1	U
Fluorene	2.50	10.0	2.50	1	U
Hexachlorobenzene	2.50	10.0	2.50	1	U
Hexachlorobutadiene	2.50	10.0	2.50	1	U
Hexachlorocyclopentadiene	2.50	10.0	2.50	1	U
Hexachloroethane	2.50	10.0	2.50	1	U
Indeno(1,2,3-cd)pyrene	2.50	10.0	2.50	1	U
Isophorone	2.50	10.0	2.50	1	U
N-Nitroso-di-n-propylamine	2.50	10.0	2.50	1	U
N-Nitrosodiphenylamine	2.50	10.0	2.50	1	U
Naphthalene	2.50	10.0	2.50	1	U
Nitrobenzene	2.50	10.0	2.50	1	U
Pentachlorophenol	12.5	40.0	12.5	1	U
Phenanthrene	2.50	10.0	2.50	1	U
Phenol	2.50	10.0	2.50	1	U
Pyrene	2.50	10.0	2.50	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	78.4	40 - 125	PASS
2-Fluorobiphenyl	66.0	50 - 110	PASS
2-Fluorophenol	57.9	20 - 110	PASS
Nitrobenzene-d5	60.9	40 - 110	PASS
p-Terphenyl-d14	95.5	50 - 135	PASS
Phenol-d5	61.5	10 - 115	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name: BLANK
PDF ID: 1894259
17-JAN-2011 13:56

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Analyst: CAA Prep Method: 3520C
Instrument ID: HPMS5 Matrix: Water Method: 8270C
Workgroup (AAB#): WG353794 Units: ug/L
QC Key: DOD4 Lot #: STD40823

Sample ID: WG353486-02 LCS File ID: 5M61568 Run Date: 01/14/2011 09:31
Sample ID: WG353486-03 LCS2 File ID: 5M61569 Run Date: 01/14/2011 10:04

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,2,4-Trichlorobenzene	50.0	30.9	61.8	50.0	30.4	60.8	1.74	35 - 105	30	
1,2-Dichlorobenzene	50.0	32.0	64.1	50.0	31.9	63.8	0.456	35 - 100	30	
1,3-Dichlorobenzene	50.0	30.5	61.0	50.0	30.5	60.9	0.100	30 - 100	30	
1,4-Dichlorobenzene	50.0	31.7	63.3	50.0	31.7	63.3	0.0068	30 - 100	30	
2,4,5-Trichlorophenol	50.0	42.6	85.2	50.0	45.2	90.4	5.91	50 - 110	30	
2,4,6-Trichlorophenol	50.0	40.0	80.0	50.0	41.8	83.6	4.47	50 - 115	30	
2,4-Dichlorophenol	50.0	35.3	70.6	50.0	35.3	70.7	0.0396	50 - 105	30	
2,4-Dimethylphenol	50.0	34.6	69.2	50.0	35.0	70.0	1.15	30 - 110	30	
2,4-Dinitrophenol	50.0	50.3	101	50.0	49.5	99.0	1.59	15 - 140	30	
2,4-Dinitrotoluene	50.0	42.6	85.3	50.0	45.1	90.2	5.57	50 - 120	30	
2,6-Dinitrotoluene	50.0	44.0	87.9	50.0	45.8	91.6	4.08	50 - 115	30	
2-Chloronaphthalene	50.0	33.5	67.1	50.0	34.3	68.6	2.28	50 - 105	30	
2-Chlorophenol	50.0	36.7	73.4	50.0	36.4	72.8	0.816	35 - 105	30	
2-Methylnaphthalene	50.0	34.7	69.4	50.0	34.7	69.5	0.128	45 - 105	30	
2-Methylphenol	50.0	36.7	73.4	50.0	37.0	74.1	0.880	40 - 110	30	
2-Nitroaniline	50.0	38.3	76.5	50.0	40.9	81.8	6.68	50 - 115	30	
2-Nitrophenol	50.0	33.1	66.3	50.0	33.2	66.5	0.306	40 - 115	30	
3,3'-Dichlorobenzidine	50.0	45.8	91.6	50.0	52.7	105	14.1	20 - 110	30	
3-,4-Methylphenol	50.0	37.2	74.3	50.0	37.6	75.3	1.27	30 - 110	30	
3-Nitroaniline	50.0	41.5	83.0	50.0	44.6	89.2	7.23	20 - 125	30	
4,6-Dinitro-2-methylphenol	50.0	49.8	99.7	50.0	53.6	107	7.35	40 - 130	30	
4-Bromophenyl-phenylether	50.0	41.5	83.0	50.0	42.9	85.8	3.34	50 - 115	30	
4-Chloro-3-methylphenol	50.0	36.8	73.6	50.0	37.8	75.7	2.81	45 - 110	30	
4-Chloroaniline	50.0	34.3	68.7	50.0	35.6	71.2	3.58	15 - 110	30	
4-Chlorophenyl-phenyl ether	50.0	40.8	81.6	50.0	42.8	85.5	4.71	50 - 110	30	
4-Nitroaniline	50.0	42.3	84.5	50.0	46.1	92.1	8.59	35 - 120	30	
4-Nitrophenol	50.0	32.0	63.9	50.0	33.7	67.3	5.15	0 - 125	30	
Acenaphthene	50.0	39.3	78.5	50.0	40.4	80.7	2.71	45 - 110	30	
Acenaphthylene	50.0	39.1	78.2	50.0	40.8	81.6	4.28	50 - 105	30	
Anthracene	50.0	43.8	87.6	50.0	45.7	91.3	4.17	55 - 110	30	
Benzo(a)anthracene	50.0	43.6	87.2	50.0	46.9	93.7	7.17	55 - 110	30	
Benzo(a)pyrene	50.0	46.4	92.8	50.0	48.9	97.9	5.30	55 - 110	30	
Benzo(b)fluoranthene	50.0	40.6	81.1	50.0	42.1	84.3	3.81	45 - 120	30	
Benzo(g,h,i)Perylene	50.0	53.7	107	50.0	57.4	115	6.74	40 - 125	30	
Benzo(k)fluoranthene	50.0	49.2	98.4	50.0	47.1	94.1	4.40	45 - 125	30	
Benzoic acid	50.0	12.7	25.5	50.0	3.53	7.06	113	0 - 125	30	#
Benzyl alcohol	50.0	40.2	80.4	50.0	40.5	80.9	0.615	30 - 110	30	
Bis(2-Chloroethoxy)Methane	50.0	27.4	54.9	50.0	27.6	55.3	0.745	45 - 105	30	
Bis(2-Chloroethyl)ether	50.0	32.2	64.4	50.0	32.0	64.1	0.501	35 - 110	30	
bis(2-Chloroisopropyl)ether	50.0	28.3	56.6	50.0	28.5	56.9	0.634	25 - 130	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1894260
Report generated: 01/17/2011 13:56

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Analyst: CAA Prep Method: 3520C
Instrument ID: HPMS5 Matrix: Water Method: 8270C
Workgroup (AAB#): WG353794 Units: ug/L
QC Key: DOD4 Lot #: STD40823

Sample ID: WG353486-02 LCS File ID: 5M61568 Run Date: 01/14/2011 09:31
Sample ID: WG353486-03 LCS2 File ID: 5M61569 Run Date: 01/14/2011 10:04

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
bis(2-Ethylhexyl)phthalate	50.0	44.1	88.1	50.0	46.8	93.7	6.15	40 - 125	30	
Butylbenzylphthalate	50.0	44.4	88.7	50.0	46.8	93.7	5.41	45 - 115	30	
Chrysene	50.0	45.4	90.7	50.0	48.1	96.1	5.80	55 - 110	30	
Di-N-Butylphthalate	50.0	43.6	87.2	50.0	45.6	91.1	4.36	55 - 115	30	
Di-n-octylphthalate	50.0	44.6	89.1	50.0	47.2	94.4	5.76	35 - 135	30	
Dibenzo(a,h)Anthracene	50.0	49.5	99.1	50.0	52.8	106	6.37	40 - 125	30	
Dibenzofuran	50.0	40.2	80.4	50.0	41.6	83.2	3.48	55 - 105	30	
Diethylphthalate	50.0	42.3	84.7	50.0	44.2	88.5	4.38	40 - 120	30	
Dimethylphthalate	50.0	41.6	83.2	50.0	43.8	87.7	5.27	25 - 125	30	
Fluoranthene	50.0	45.5	90.9	50.0	47.5	94.9	4.32	55 - 115	30	
Fluorene	50.0	40.9	81.8	50.0	42.5	84.9	3.77	50 - 110	30	
Hexachlorobenzene	50.0	42.4	84.9	50.0	43.8	87.5	3.05	50 - 110	30	
Hexachlorobutadiene	50.0	31.4	62.8	50.0	31.0	62.0	1.28	25 - 105	30	
Hexachlorocyclopentadiene	50.0	21.3	42.7	50.0	20.0	39.9	6.60	20 - 143	30	
Hexachloroethane	50.0	28.8	57.7	50.0	28.7	57.4	0.462	30 - 95	30	
Indeno(1,2,3-cd)pyrene	50.0	49.7	99.4	50.0	52.9	106	6.33	45 - 125	30	
Isophorone	50.0	32.4	64.8	50.0	33.1	66.3	2.20	50 - 110	30	
N-Nitroso-di-n-propylamine	50.0	37.2	74.5	50.0	37.9	75.8	1.74	35 - 130	30	
N-Nitrosodiphenylamine	50.0	43.0	85.9	50.0	44.7	89.4	3.96	50 - 110	30	
Naphthalene	50.0	32.4	64.9	50.0	32.4	64.7	0.281	40 - 100	30	
Nitrobenzene	50.0	33.1	66.1	50.0	32.4	64.8	2.03	45 - 110	30	
Pentachlorophenol	50.0	43.5	87.1	50.0	45.2	90.4	3.75	40 - 115	30	
Phenanthrene	50.0	43.2	86.4	50.0	44.9	89.8	3.91	50 - 115	30	
Phenol	50.0	33.9	67.9	50.0	34.9	69.8	2.84	0 - 115	30	
Pyrene	50.0	44.0	88.0	50.0	47.4	94.7	7.40	50 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,6-Tribromophenol	84.4	88.8	40 - 125	PASS
2-Fluorobiphenyl	79.1	82.1	50 - 110	PASS
2-Fluorophenol	70.1	70.1	20 - 110	PASS
Nitrobenzene-d5	68.9	68.1	40 - 110	PASS
p-Terphenyl-d14	92.6	97.5	50 - 135	PASS
Phenol-d5	71.7	73.2	10 - 115	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1894260
Report generated: 01/17/2011 13:56

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11010116
Instrument: HPMS5
Analyst: CAA
Workgroup: WG352225

Tune ID: WG352225-01
Run Date: 12/22/2010
Run Time: 09:50
File ID: 5M61361
Cal ID: HPMS5 - 22-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	47.4	647530	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.3	578666	PASS
70.0	69.0	0	2.00	0.503	2911	PASS
127	198	40.0	60.0	51.1	698602	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	1366698	PASS
199	198	5.00	9.00	6.90	94325	PASS
275	198	10.0	30.0	26.6	363328	PASS
365	198	1.00	100	3.66	50032	PASS
441	443	0.0100	100	84.0	218517	PASS
442	198	40.0	100	96.5	1319104	PASS
443	442	17.0	23.0	19.7	259989	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG352225-02	STD-CCV	01	12/22/2010 10:43	
WG352225-03	STD	01	12/22/2010 11:17	
WG352225-04	STD	01	12/22/2010 11:51	
WG352225-05	STD	01	12/22/2010 12:25	
WG352225-06	STD	01	12/22/2010 13:00	
WG352225-07	STD	01	12/22/2010 13:34	
WG352225-08	STD	01	12/22/2010 14:08	
WG352225-09	STD	01	12/22/2010 14:43	
WG352225-10	SSCV	01	12/22/2010 15:17	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1895122
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11010116
Instrument: HPMS5
Analyst: CAA
Workgroup: WG352346

Tune ID: WG352346-01
Run Date: 12/23/2010
Run Time: 07:53
File ID: 5M61387
Cal ID: HPMS5 - 22-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	42.1	582236	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	41.0	567466	PASS
70.0	69.0	0	2.00	0.551	3129	PASS
127	198	40.0	60.0	52.2	722730	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	1383424	PASS
199	198	5.00	9.00	6.97	96480	PASS
275	198	10.0	30.0	26.9	372245	PASS
365	198	1.00	100	3.46	47810	PASS
441	443	0.0100	100	83.5	218496	PASS
442	198	40.0	100	95.6	1322496	PASS
443	442	17.0	23.0	19.8	261589	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG352225-11	SSCV	01	12/23/2010 08:46	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1895122
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11010116
Instrument: HPMS5
Analyst: CAA
Workgroup: WG353967

Tune ID: WG353967-01
Run Date: 01/14/2011
Run Time: 07:33
File ID: 5M61564
Cal ID: HPMS5 - 22-DEC-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	40.9	537474	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.1	527253	PASS
70.0	69.0	0	2.00	0.518	2733	PASS
127	198	40.0	60.0	51.0	670570	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	1315562	PASS
199	198	5.00	9.00	6.91	90853	PASS
275	198	10.0	30.0	26.0	342464	PASS
365	198	1.00	100	3.31	43560	PASS
441	443	0.0100	100	78.9	185909	PASS
442	198	40.0	100	90.7	1192768	PASS
443	442	17.0	23.0	19.8	235645	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG353967-02	CCV	01	01/14/2011 08:25	
WG353486-01	BLANK	01	01/14/2011 08:58	
WG353486-02	LCS	01	01/14/2011 09:31	
WG353486-03	LCS2	01	01/14/2011 10:04	
WG353486-04	REF	01	01/14/2011 15:42	
WG353486-05	MS	01	01/14/2011 16:51	
WG353486-06	MSD	01	01/14/2011 17:25	
L11010116-01	HTA-IDW-001-0111	01	01/14/2011 18:00	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1895122
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 8270C
ICAL Workgroup: WG352225

Instrument ID: HPMS5
Initial Calibration Date: 22-DEC-10 14:43
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
1,4-Dichlorobenzene	CCC	1.506	4.23		
2,4,6-Trichlorophenol	CCC	0.3917	7.28		
2,4-Dichlorophenol	CCC	0.2947	6.76		
2-Nitrophenol	CCC	0.1979	7.82		
4-Chloro-3-Methylphenol	CCC	0.2921	6.30		
Acenaphthene	CCC	1.168	6.25		
Benzo[a]pyrene	CCC	0.9994	9.93		
Di-n-Octyl Phthalate	CCC	1.240	7.41		
Fluoranthene	CCC	1.138	6.58		
Hexachlorobutadiene	CCC	0.1894	8.09		
Pentachlorophenol	CCC	0.1682	6.58		
Phenol	CCC	1.571	7.02		
2,4-Dinitrophenol	SPCC	0.1500	39.0		0.99800
4-Nitrophenol	SPCC	0.3100	10.7		
Hexachlorocyclopentadiene	SPCC	0.2841	20.7		0.99700
n-Nitrosodipropylamine	SPCC	0.9064	4.20		
1,2,4-Trichlorobenzene		0.3277	5.69		
1,2-Dichlorobenzene		1.399	4.74		
1,3-Dichlorobenzene		1.456	5.63		
2,4,5-Trichlorophenol		0.4166	7.73		
2,4-Dimethylphenol		0.3214	6.52		
2,4-Dinitrotoluene		0.4101	8.08		
2,6-Dinitrotoluene		0.3175	7.11		
2-Chloronaphthalene		1.329	6.13		
2-Chlorophenol		1.337	7.10		
2-Methylnaphthalene		0.6580	5.89		
2-Methylphenol		1.029	7.75		
2-Nitroaniline		0.3859	3.83		
3,3'-Dichlorobenzidine		0.3891	8.62		
3-Nitroaniline		0.3654	4.10		
4,6-Dinitro-2-Methylphenol		0.1404	6.41		
4-Bromophenyl Phenyl Ether		0.2347	6.84		
4-Chloroaniline		0.4389	7.13		
4-Chlorophenyl Phenyl Ether		0.6214	9.99		
4-Nitroaniline		0.3678	4.24		
Acenaphthylene		1.860	6.17		
Anthracene		1.096	5.62		
Benzo[a]anthracene		1.088	4.60		
Benzo[b]fluoranthene		1.228	13.1		
Benzo[ghi]perylene		0.8932	11.9		
Benzo[k]fluoranthene		0.9312	9.65		
Benzoic Acid		0.2686	27.7		0.99700
Benzyl Alcohol		0.8516	8.11		
Butyl Benzyl Phthalate		0.5054	10.4		
Chrysene		1.019	5.52		

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 8270C
ICAL Workgroup: WG352225

Instrument ID: HPMS5
Initial Calibration Date: 22-DEC-10 14:43
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Di-n-Butyl Phthalate		1.297	7.04		
Dibenz[ah]anthracene		0.9298	12.6		
Dibenzofuran		1.570	8.16		
Diethylphthalate		1.329	5.70		
Dimethylphthalate		1.322	4.98		
Fluorene		1.338	5.59		
Hexachlorobenzene		0.2628	9.04		
Hexachloroethane		0.5831	6.54		
Indeno[1,2,3-cd]pyrene		1.119	11.6		
Isophorone		0.6843	5.78		
Naphthalene		1.001	5.83		
Nitrobenzene		0.3726	4.97		
Phenanthrene		1.096	5.39		
Pyrene		1.082	7.57		
bis(2-Chloroethoxy)methane		0.5038	5.92		
bis(2-Chloroethyl)ether		1.016	3.74		
bis(2-Chloroisopropyl)ether		2.464	3.16		
bis(2-Ethylhexyl)phthalate		0.7556	5.46		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-02			WG352225-03			WG352225-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,4-Dichlorobenzene	50.0	212703.000	1.471	3.00	12322.0000	1.418	10.0	52022.0000	1.457
2,4,6-Trichlorophenol	50.0	114666.000	0.3871	3.00	6001.00000	0.3347	10.0	27395.0000	0.3821
2,4-Dichlorophenol	50.0	155142.000	0.2875	3.00	8354.00000	0.2552	10.0	36880.0000	0.2847
2-Nitrophenol	50.0	103670.000	0.1921	3.00	5427.00000	0.1658	10.0	25160.0000	0.1942
4-Chloro-3-Methylphenol	50.0	151736.000	0.2812	3.00	8412.00000	0.2570	10.0	36483.0000	0.2816
Acenaphthene	50.0	328275.000	1.108	3.00	18457.0000	1.030	10.0	83827.0000	1.169
Benzo[a]pyrene	50.0	581146.000	1.006	3.00	28379.0000	0.8022	10.0	134528.000	0.9203
Di-n-Octyl Phthalate	50.0	713492.000	1.236	3.00	37571.0000	1.062	10.0	172540.000	1.180
Fluoranthene	50.0	546355.000	1.063	3.00	32684.0000	1.070	10.0	148526.000	1.190
Hexachlorobutadiene	50.0	100907.000	0.1870	3.00	5580.00000	0.1704	10.0	25228.0000	0.1947
Pentachlorophenol	50.0	86010.0000	0.1674	NA	NA	NA	10.0	18392.0000	0.1474
Phenol	50.0	220005.000	1.521	3.00	12075.0000	1.390	10.0	52244.0000	1.464
2,4-Dinitrophenol	50.0	41970.0000	0.1417	3.00	0	0	10.0	5832.00000	0.08130
4-Nitrophenol	50.0	81834.0000	0.2763	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	87722.0000	0.2961	3.00	3121.00000	0.1741	10.0	20239.0000	0.2823
n-Nitrosodipropylamine	50.0	124417.000	0.8602	3.00	7647.00000	0.8800	10.0	32972.0000	0.9237
1,2,4-Trichlorobenzene	50.0	171284.000	0.3174	3.00	9998.00000	0.3054	10.0	41831.0000	0.3229
1,2-Dichlorobenzene	50.0	197522.000	1.366	3.00	11079.0000	1.275	10.0	48256.0000	1.352
1,3-Dichlorobenzene	50.0	206545.000	1.428	3.00	11340.0000	1.305	10.0	49261.0000	1.380
2,4,5-Trichlorophenol	50.0	122672.000	0.4141	3.00	6267.00000	0.3496	10.0	29620.0000	0.4131
2,4-Dimethylphenol	50.0	163570.000	0.3031	3.00	9343.00000	0.2854	10.0	40393.0000	0.3118
2,4-Dinitrotoluene	50.0	114486.000	0.3865	3.00	6162.00000	0.3437	10.0	29845.0000	0.4163
2,6-Dinitrotoluene	50.0	93415.0000	0.3154	3.00	4819.00000	0.2688	10.0	22482.0000	0.3136
2-Chloronaphthalene	50.0	371177.000	1.253	3.00	21908.0000	1.222	10.0	97109.0000	1.355
2-Chlorophenol	50.0	186879.000	1.292	3.00	10333.0000	1.189	10.0	44288.0000	1.241
2-Methylnaphthalene	50.0	330897.000	0.6131	3.00	19706.0000	0.6019	10.0	84363.0000	0.6512
2-Methylphenol	50.0	143957.000	0.9953	3.00	7804.00000	0.8981	10.0	33786.0000	0.9465
2-Nitroaniline	50.0	107912.000	0.3643	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	214063.000	0.3840	3.00	10926.0000	0.3258	10.0	53014.0000	0.3817
3-Nitroaniline	50.0	101737.000	0.3435	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	67705.0000	0.1318	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	113421.000	0.2207	3.00	6578.00000	0.2153	10.0	30040.0000	0.2407
4-Chloroaniline	50.0	231337.000	0.4286	3.00	12240.0000	0.3739	10.0	55078.0000	0.4252
4-Chlorophenyl Phenyl Ether	50.0	176978.000	0.5975	3.00	10345.0000	0.5771	10.0	47835.0000	0.6672
4-Nitroaniline	50.0	101445.000	0.3425	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	521387.000	1.760	3.00	31008.0000	1.730	10.0	138156.000	1.927
Anthracene	50.0	526361.000	1.024	3.00	31643.0000	1.036	10.0	141308.000	1.132
Benzo[a]anthracene	50.0	572631.000	1.027	3.00	34484.0000	1.028	10.0	153397.000	1.105
Benzo[b]fluoranthene	50.0	594995.000	1.030	3.00	38577.0000	1.091	10.0	168571.000	1.153
Benzo[ghi]perylene	50.0	516520.000	0.8944	3.00	24985.0000	0.7063	10.0	114805.000	0.7854
Benzo[k]fluoranthene	50.0	516021.000	0.8936	3.00	31517.0000	0.8910	10.0	145165.000	0.9931
Benzoic Acid	50.0	117320.000	0.2174	NA	NA	NA	NA	NA	NA

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-02			WG352225-03			WG352225-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Benzyl Alcohol	50.0	119046.000	0.8230	3.00	6425.00000	0.7394	10.0	28160.0000	0.7889
Butyl Benzyl Phthalate	50.0	267402.000	0.4796	3.00	18116.0000	0.5403	10.0	81389.0000	0.5860
Chrysene	50.0	541842.000	0.9719	3.00	32049.0000	0.9558	10.0	147263.000	1.060
Di-n-Butyl Phthalate	50.0	625923.000	1.218	3.00	38870.0000	1.272	10.0	172925.000	1.386
Dibenz[ah]anthracene	50.0	551388.000	0.9548	3.00	24271.0000	0.6861	10.0	122938.000	0.8411
Dibenzofuran	50.0	436029.000	1.472	3.00	26906.0000	1.501	10.0	120449.000	1.680
Diethylphthalate	50.0	378345.000	1.277	3.00	22787.0000	1.271	10.0	98206.0000	1.370
Dimethylphthalate	50.0	376429.000	1.271	3.00	22456.0000	1.253	10.0	95145.0000	1.327
Fluorene	50.0	366954.000	1.239	3.00	22490.0000	1.255	10.0	100424.000	1.401
Hexachlorobenzene	50.0	127334.000	0.2478	3.00	7473.00000	0.2446	10.0	34693.0000	0.2780
Hexachloroethane	50.0	82946.0000	0.5735	3.00	4413.00000	0.5078	10.0	19742.0000	0.5530
Indeno[1,2,3-cd]pyrene	50.0	658209.000	1.140	3.00	30138.0000	0.8520	10.0	149329.000	1.022
Isophorone	50.0	350334.000	0.6491	3.00	20226.0000	0.6178	10.0	85564.0000	0.6605
Naphthalene	50.0	514239.000	0.9528	3.00	30339.0000	0.9267	10.0	129401.000	0.9989
Nitrobenzene	50.0	192561.000	0.3568	3.00	11183.0000	0.3416	10.0	46743.0000	0.3608
Phenanthrene	50.0	526758.000	1.025	3.00	32339.0000	1.059	10.0	141748.000	1.136
Pyrene	50.0	574946.000	1.031	3.00	35725.0000	1.065	10.0	159005.000	1.145
bis(2-Chloroethoxy)methane	50.0	256974.000	0.4762	3.00	15388.0000	0.4700	10.0	67394.0000	0.5203
bis(2-Chloroethyl)ether	50.0	141825.000	0.9805	3.00	8339.00000	0.9596	10.0	35181.0000	0.9855
bis(2-Chloroisopropyl)ether	50.0	339923.000	2.350	3.00	20946.0000	2.411	10.0	85234.0000	2.388
bis(2-Ethylhexyl)phthalate	50.0	407881.000	0.7316	3.00	25042.0000	0.7468	10.0	106995.000	0.7704

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-05			WG352225-06			WG352225-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,4-Dichlorobenzene	15.0	95542.0000	1.538	25.0	160580.000	1.621	80.0	529650.000	1.482
2,4,6-Trichlorophenol	15.0	50886.0000	0.4110	25.0	85745.0000	0.4357	80.0	288568.000	0.3949
2,4-Dichlorophenol	15.0	68640.0000	0.3024	25.0	116048.000	0.3241	80.0	394434.000	0.2987
2-Nitrophenol	15.0	46462.0000	0.2047	25.0	78821.0000	0.2201	80.0	267126.000	0.2023
4-Chloro-3-Methylphenol	15.0	66835.0000	0.2944	25.0	112558.000	0.3144	80.0	396656.000	0.3003
Acenaphthene	15.0	155838.000	1.259	25.0	245025.000	1.245	80.0	855441.000	1.171
Benzo[a]pyrene	15.0	246039.000	0.9836	25.0	431312.000	1.107	80.0	1461566.00	1.052
Di-n-Octyl Phthalate	15.0	311328.000	1.245	25.0	535161.000	1.373	80.0	1736626.00	1.250
Fluoranthene	15.0	267404.000	1.257	25.0	420360.000	1.226	80.0	1365703.00	1.095
Hexachlorobutadiene	15.0	46435.0000	0.2045	25.0	77787.0000	0.2172	80.0	239211.000	0.1811
Pentachlorophenol	15.0	36274.0000	0.1705	25.0	63511.0000	0.1852	80.0	209817.000	0.1682
Phenol	15.0	96826.0000	1.559	25.0	162999.000	1.645	80.0	577247.000	1.615
2,4-Dinitrophenol	15.0	15929.0000	0.1287	25.0	30087.0000	0.1529	80.0	143856.000	0.1968
4-Nitrophenol	15.0	34239.0000	0.2765	25.0	59617.0000	0.3029	80.0	243042.000	0.3326
Hexachlorocyclopentadiene	15.0	42679.0000	0.3447	25.0	71774.0000	0.3647	80.0	213377.000	0.2920
n-Nitrosodipropylamine	15.0	59972.0000	0.9654	25.0	94546.0000	0.9543	80.0	315805.000	0.8835
1,2,4-Trichlorobenzene	15.0	77320.0000	0.3406	25.0	131409.000	0.3670	80.0	421733.000	0.3193
1,2-Dichlorobenzene	15.0	88043.0000	1.417	25.0	146441.000	1.478	80.0	507655.000	1.420
1,3-Dichlorobenzene	15.0	91952.0000	1.480	25.0	153214.000	1.547	80.0	530791.000	1.485
2,4,5-Trichlorophenol	15.0	53740.0000	0.4340	25.0	91372.0000	0.4643	80.0	310581.000	0.4250
2,4-Dimethylphenol	15.0	74587.0000	0.3285	25.0	126940.000	0.3545	80.0	430851.000	0.3262
2,4-Dinitrotoluene	15.0	55704.0000	0.4499	25.0	87068.0000	0.4424	80.0	301281.000	0.4123
2,6-Dinitrotoluene	15.0	39739.0000	0.3210	25.0	68824.0000	0.3497	80.0	236725.000	0.3239
2-Chloronaphthalene	15.0	177653.000	1.435	25.0	286079.000	1.454	80.0	947819.000	1.297
2-Chlorophenol	15.0	81354.0000	1.310	25.0	137970.000	1.393	80.0	499622.000	1.398
2-Methylnaphthalene	15.0	156554.000	0.6896	25.0	258978.000	0.7233	80.0	869066.000	0.6580
2-Methylphenol	15.0	62817.0000	1.011	25.0	106460.000	1.075	80.0	391972.000	1.097
2-Nitroaniline	15.0	47639.0000	0.3848	25.0	80732.0000	0.4102	80.0	281369.000	0.3850
3,3'-Dichlorobenzidine	15.0	101370.000	0.4198	25.0	166146.000	0.4420	80.0	536015.000	0.3857
3-Nitroaniline	15.0	43500.0000	0.3513	25.0	74466.0000	0.3784	80.0	270395.000	0.3700
4,6-Dinitro-2-Methylphenol	15.0	26900.0000	0.1264	25.0	49534.0000	0.1445	80.0	180924.000	0.1451
4-Bromophenyl Phenyl Ether	15.0	54955.0000	0.2583	25.0	88185.0000	0.2572	80.0	281819.000	0.2260
4-Chloroaniline	15.0	101926.000	0.4490	25.0	172000.000	0.4804	80.0	589745.000	0.4465
4-Chlorophenyl Phenyl Ether	15.0	89305.0000	0.7213	25.0	135650.000	0.6893	80.0	427610.000	0.5851
4-Nitroaniline	15.0	47036.0000	0.3799	25.0	75886.0000	0.3856	80.0	264913.000	0.3625
Acenaphthylene	15.0	248156.000	2.004	25.0	400829.000	2.037	80.0	1325201.00	1.813
Anthracene	15.0	254164.000	1.195	25.0	400055.000	1.167	80.0	1338164.00	1.073
Benzo[a]anthracene	15.0	279056.000	1.156	25.0	434951.000	1.157	80.0	1481980.00	1.066
Benzo[b]fluoranthene	15.0	286917.000	1.147	25.0	497325.000	1.276	80.0	1730428.00	1.246
Benzo[ghi]perylene	15.0	216831.000	0.8668	25.0	376116.000	0.9651	80.0	1417389.00	1.021
Benzo[k]fluoranthene	15.0	247494.000	0.9894	25.0	419549.000	1.077	80.0	1332067.00	0.9591
Benzoic Acid	15.0	37736.0000	0.1662	25.0	83724.0000	0.2338	80.0	407243.000	0.3084

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-05			WG352225-06			WG352225-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Benzyl Alcohol	15.0	51588.0000	0.8304	25.0	87247.0000	0.8807	80.0	321218.000	0.8986
Butyl Benzyl Phthalate	15.0	130500.000	0.5405	25.0	202048.000	0.5375	80.0	642126.000	0.4620
Chrysene	15.0	266430.000	1.103	25.0	408876.000	1.088	80.0	1377748.00	0.9913
Di-n-Butyl Phthalate	15.0	303045.000	1.424	25.0	480915.000	1.403	80.0	1513847.00	1.214
Dibenz[ah]anthracene	15.0	237881.000	0.9510	25.0	417932.000	1.072	80.0	1369475.00	0.9860
Dibenzofuran	15.0	220197.000	1.779	25.0	335371.000	1.704	80.0	1080869.00	1.479
Diethylphthalate	15.0	175545.000	1.418	25.0	287259.000	1.460	80.0	932557.000	1.276
Dimethylphthalate	15.0	172122.000	1.390	25.0	284885.000	1.448	80.0	938631.000	1.284
Fluorene	15.0	179075.000	1.446	25.0	277611.000	1.411	80.0	961539.000	1.316
Hexachlorobenzene	15.0	63817.0000	0.3000	25.0	100648.000	0.2935	80.0	307334.000	0.2464
Hexachloroethane	15.0	36203.0000	0.5828	25.0	61103.0000	0.6168	80.0	215882.000	0.6039
Indeno[1,2,3-cd]pyrene	15.0	286511.000	1.145	25.0	500647.000	1.285	80.0	1657602.00	1.194
Isophorone	15.0	155407.000	0.6846	25.0	262873.000	0.7342	80.0	924092.000	0.6997
Naphthalene	15.0	240049.000	1.057	25.0	397755.000	1.111	80.0	1291420.00	0.9778
Nitrobenzene	15.0	86277.0000	0.3800	25.0	143368.000	0.4004	80.0	500047.000	0.3786
Phenanthrene	15.0	255377.000	1.200	25.0	394273.000	1.150	80.0	1321457.00	1.060
Pyrene	15.0	290482.000	1.203	25.0	442252.000	1.177	80.0	1421443.00	1.023
bis(2-Chloroethoxy)methane	15.0	124348.000	0.5477	25.0	194494.000	0.5432	80.0	648866.000	0.4913
bis(2-Chloroethyl)ether	15.0	63849.0000	1.028	25.0	105482.000	1.065	80.0	363976.000	1.018
bis(2-Chloroisopropyl)ether	15.0	151088.000	2.432	25.0	251446.000	2.538	80.0	896640.000	2.508
bis(2-Ethylhexyl)phthalate	15.0	190727.000	0.7899	25.0	314025.000	0.8354	80.0	1006669.00	0.7243

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-08			WG352225-09		
	CONC	RESP	RF	CONC	RESP	RF
1,4-Dichlorobenzene	100	566199.000	1.507	120	755200.000	1.553
2,4,6-Trichlorophenol	100	305456.000	0.3931	120	406845.000	0.3950
2,4-Dichlorophenol	100	419013.000	0.3012	120	558322.000	0.3038
2-Nitrophenol	100	283380.000	0.2037	120	367666.000	0.2001
4-Chloro-3-Methylphenol	100	415024.000	0.2983	120	568610.000	0.3094
Acenaphthene	100	920752.000	1.185	120	1213669.00	1.178
Benzo[a]pyrene	100	1532102.00	1.036	120	2016140.00	1.088
Di-n-Octyl Phthalate	100	1856225.00	1.256	120	2438582.00	1.316
Fluoranthene	100	1451819.00	1.108	120	1877932.00	1.096
Hexachlorobutadiene	100	253803.000	0.1824	120	327289.000	0.1781
Pentachlorophenol	100	220433.000	0.1682	120	292313.000	0.1706
Phenol	100	617115.000	1.642	120	841789.000	1.731
2,4-Dinitrophenol	100	159362.000	0.2051	120	229581.000	0.2229
4-Nitrophenol	100	264889.000	0.3409	120	365426.000	0.3548
Hexachlorocyclopentadiene	100	214620.000	0.2762	120	250175.000	0.2429
n-Nitrosodipropylamine	100	339395.000	0.9032	120	428202.000	0.8805
1,2,4-Trichlorobenzene	100	449941.000	0.3234	120	597832.000	0.3253
1,2-Dichlorobenzene	100	533254.000	1.419	120	713359.000	1.467
1,3-Dichlorobenzene	100	558291.000	1.486	120	749151.000	1.540
2,4,5-Trichlorophenol	100	328944.000	0.4233	120	421826.000	0.4095
2,4-Dimethylphenol	100	460268.000	0.3309	120	608287.000	0.3310
2,4-Dinitrotoluene	100	322376.000	0.4149	120	427000.000	0.4146
2,6-Dinitrotoluene	100	251050.000	0.3231	120	334429.000	0.3247
2-Chloronaphthalene	100	1016239.00	1.308	120	1347078.00	1.308
2-Chlorophenol	100	529387.000	1.409	120	713915.000	1.468
2-Methylnaphthalene	100	920648.000	0.6618	120	1222558.00	0.6652
2-Methylphenol	100	406491.000	1.082	120	548272.000	1.127
2-Nitroaniline	100	296465.000	0.3815	120	401409.000	0.3897
3,3'-Dichlorobenzidine	100	569747.000	0.3909	120	744768.000	0.3826
3-Nitroaniline	100	286219.000	0.3683	120	392415.000	0.3810
4,6-Dinitro-2-Methylphenol	100	193842.000	0.1479	120	251292.000	0.1467
4-Bromophenyl Phenyl Ether	100	298381.000	0.2277	120	396959.000	0.2317
4-Chloroaniline	100	628943.000	0.4521	120	837320.000	0.4556
4-Chlorophenyl Phenyl Ether	100	451977.000	0.5816	120	568265.000	0.5517
4-Nitroaniline	100	281096.000	0.3617	120	385959.000	0.3747
Acenaphthylene	100	1410595.00	1.815	120	1846840.00	1.793
Anthracene	100	1413740.00	1.079	120	1825850.00	1.066
Benzo[a]anthracene	100	1571155.00	1.078	120	2108230.00	1.083
Benzo[b]fluoranthene	100	1995321.00	1.350	120	2838889.00	1.532
Benzo[ghi]perylene	100	1463193.00	0.9896	120	1701314.00	0.9178
Benzo[k]fluoranthene	100	1252204.00	0.8469	120	1482632.00	0.7998
Benzoic Acid	100	451933.000	0.3249	120	663472.000	0.3610

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11010116

Analytical Method: 8270C

Instrument ID: HPMS5

Initial Calibration Date: 22-DEC-10 14:43

Column ID: F

Analyte	WG352225-08			WG352225-09		
	CONC	RESP	RF	CONC	RESP	RF
Benzyl Alcohol	100	337437.000	0.8980	120	463699.000	0.9534
Butyl Benzyl Phthalate	100	673945.000	0.4624	120	846420.000	0.4348
Chrysene	100	1461259.00	1.003	120	1911057.00	0.9818
Di-n-Butyl Phthalate	100	1614164.00	1.232	120	2098518.00	1.225
Dibenz[ah]anthracene	100	1446500.00	0.9783	120	1794903.00	0.9683
Dibenzofuran	100	1149526.00	1.479	120	1511843.00	1.468
Diethylphthalate	100	993287.000	1.278	120	1321369.00	1.283
Dimethylphthalate	100	1006121.00	1.295	120	1344174.00	1.305
Fluorene	100	1024299.00	1.318	120	1356035.00	1.317
Hexachlorobenzene	100	321603.000	0.2455	120	422082.000	0.2464
Hexachloroethane	100	228126.000	0.6071	120	301549.000	0.6200
Indeno[1,2,3-cd]pyrene	100	1727864.00	1.169	120	2127838.00	1.148
Isophorone	100	978226.000	0.7032	120	1332543.00	0.7250
Naphthalene	100	1383355.00	0.9944	120	1816646.00	0.9885
Nitrobenzene	100	525401.000	0.3777	120	707726.000	0.3851
Phenanthrene	100	1403848.00	1.072	120	1830957.00	1.069
Pyrene	100	1504333.00	1.032	120	1905800.00	0.9791
bis(2-Chloroethoxy)methane	100	690811.000	0.4966	120	891019.000	0.4848
bis(2-Chloroethyl)ether	100	389650.000	1.037	120	514618.000	1.058
bis(2-Chloroisopropyl)ether	100	958694.000	2.551	120	1231357.00	2.532
bis(2-Ethylhexyl)phthalate	100	1074911.00	0.7375	120	1379917.00	0.7089

INT_CAL - Modified 03/06/2008
PDF File ID: 1895120
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11010116 Run Date: 12/23/2010 Sample ID: WG352225-11
Instrument ID: HPMS5 Run Time: 08:46 Method: 8270C
File ID: 5M61389 Analyst: CAA QC Key: DOD4
ICal Workgroup: WG352225 Cal ID: HPMS5 - 22-DEC-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,4-Dichlorobenzene	CCC	50000	51600	ug/L	1.55	3.10	20	
2,4,6-Trichlorophenol	CCC	50000	50500	ug/L	0.396	1.10	20	
2,4-Dichlorophenol	CCC	50000	49300	ug/L	0.290	1.40	20	
2-Nitrophenol	CCC	50000	48700	ug/L	0.193	2.70	20	
4-Chloro-3-Methylphenol	CCC	50000	49700	ug/L	0.291	0.500	20	
Acenaphthene	CCC	50000	48900	ug/L	1.14	2.10	20	
Benzo[a]pyrene	CCC	50000	51900	ug/L	1.04	3.80	20	
Di-n-Octyl Phthalate	CCC	50000	52600	ug/L	1.30	5.20	20	
Fluoranthene	CCC	50000	49100	ug/L	1.12	1.80	20	
Hexachlorobutadiene	CCC	50000	52400	ug/L	0.199	4.90	20	
n-Nitrosodiphenylamine	CCC	50000	50300	ug/L	0.665	0.600	20	
Pentachlorophenol	CCC	50000	59200	ug/L	0.199	18.5	20	
Phenol	CCC	50000	51400	ug/L	1.61	2.70	20	
2,4-Dinitrophenol	SPCC	50000	62900	ug/L	0.217	25.8	20	*
4-Nitrophenol	SPCC	50000	47900	ug/L	0.301	4.20	20	
Hexachlorocyclopentadiene	SPCC	50000	32600	ug/L	0.217	34.7	20	*
n-Nitrosodipropylamine	SPCC	50000	49400	ug/L	0.895	1.20	20	
1,2,4-Trichlorobenzene		50000	47000	ug/L	0.308	5.90	20	
1,2-Dichlorobenzene		50000	53000	ug/L	1.48	6.10	20	
1,3-Dichlorobenzene		50000	53300	ug/L	1.55	6.60	20	
2,4,5-Trichlorophenol		50000	51300	ug/L	0.427	2.60	20	
2,4-Dimethylphenol		50000	51000	ug/L	0.328	2.10	20	
2,4-Dinitrotoluene		50000	46900	ug/L	0.385	6.20	20	
2,6-Dinitrotoluene		50000	51900	ug/L	0.330	3.90	20	
2-Chloronaphthalene		50000	47900	ug/L	1.27	4.20	20	
2-Chlorophenol		50000	52200	ug/L	1.40	4.50	20	
2-Methylnaphthalene		50000	49600	ug/L	0.653	0.800	20	
2-Methylphenol		50000	53100	ug/L	1.09	6.10	20	
2-Nitroaniline		50000	50400	ug/L	0.389	0.800	20	
3,3'-Dichlorobenzidine		50000	51200	ug/L	0.399	2.40	20	
3-,4-Methylphenol		50000	52000	ug/L	1.38	4.00	20	
3-Nitroaniline		50000	51100	ug/L	0.373	2.20	20	
4,6-Dinitro-2-Methylphenol		50000	59100	ug/L	0.166	18.2	20	
4-Bromophenyl Phenyl Ether		50000	47200	ug/L	0.222	5.50	20	
4-Chloroaniline		50000	50600	ug/L	0.445	1.30	20	
4-Chlorophenyl Phenyl Ether		50000	46900	ug/L	0.583	6.20	20	
4-Nitroaniline		50000	48800	ug/L	0.359	2.50	20	
Acenaphthylene		50000	48100	ug/L	1.79	3.70	20	
Anthracene		50000	50100	ug/L	1.10	0.300	20	
Benzo[a]anthracene		50000	48800	ug/L	1.06	2.40	20	
Benzo[b]fluoranthene		50000	44900	ug/L	1.10	10.2	20	
Benzo[ghi]perylene		50000	52400	ug/L	0.936	4.80	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1895121
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11010116 Run Date: 12/23/2010 Sample ID: WG352225-11
Instrument ID: HPMS5 Run Time: 08:46 Method: 8270C
File ID: 5M61389 Analyst: CAA QC Key: DOD4
ICal Workgroup: WG352225 Cal ID: HPMS5 - 22-DEC-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Benzo[k]fluoranthene		50000	46300	ug/L	0.862	7.50	20	
Benzoic Acid		50000	45200	ug/L	0.212	9.70	20	
Benzyl Alcohol		50000	56800	ug/L	0.967	13.5	20	
bis(2-Chloroethoxy)methane		50000	50000	ug/L	0.504	0	20	
bis(2-Chloroethyl)ether		50000	50100	ug/L	1.02	0.200	20	
bis(2-Chloroisopropyl)ether		50000	46700	ug/L	2.30	6.60	20	
bis(2-Ethylhexyl)phthalate		50000	50000	ug/L	0.755	0.100	20	
Butyl Benzyl Phthalate		50000	50200	ug/L	0.508	0.400	20	
Chrysene		50000	49100	ug/L	1.00	1.80	20	
Di-n-Butyl Phthalate		50000	48400	ug/L	1.26	3.10	20	
Dibenz[ah]anthracene		50000	51700	ug/L	0.961	3.30	20	
Dibenzofuran		50000	47800	ug/L	1.50	4.30	20	
Diethylphthalate		50000	48400	ug/L	1.29	3.30	20	
Dimethylphthalate		50000	48100	ug/L	1.27	3.80	20	
Fluorene		50000	47000	ug/L	1.26	5.90	20	
Hexachlorobenzene		50000	46800	ug/L	0.246	6.40	20	
Hexachloroethane		50000	51100	ug/L	0.596	2.20	20	
Indeno[1,2,3-cd]pyrene		50000	51200	ug/L	1.15	2.30	20	
Isophorone		50000	48300	ug/L	0.660	3.50	20	
Naphthalene		50000	48700	ug/L	0.974	2.70	20	
Nitrobenzene		50000	50500	ug/L	0.376	1.00	20	
Phenanthrene		50000	48200	ug/L	1.06	3.60	20	
Pyrene		50000	49000	ug/L	1.06	2.00	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1895121
Report generated 01/17/2011 13:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116 Run Date: 01/14/2011 Sample ID: WG353967-02
Instrument ID: HPMS5 Run Time: 08:25 Method: 8270C
File ID: 5M61566 Analyst: CAA QC Key: DOD4
Workgroup (AAB#): WG353794 Cal ID: HPMS5 - 22-DEC-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,4-Dichlorobenzene	CCC	50000	49200	ug/L	1.48	1.57	20	
2,4,6-Trichlorophenol	CCC	50000	48800	ug/L	0.383	2.33	20	
2,4-Dichlorophenol	CCC	50000	48600	ug/L	0.286	2.84	20	
2-Nitrophenol	CCC	50000	47100	ug/L	0.187	5.74	20	
4-Chloro-3-Methylphenol	CCC	50000	47200	ug/L	0.276	5.54	20	
Acenaphthene	CCC	50000	49100	ug/L	1.15	1.79	20	
Benzo[a]pyrene	CCC	50000	51200	ug/L	1.02	2.36	20	
Di-n-Octyl Phthalate	CCC	50000	47600	ug/L	1.18	4.87	20	
Fluoranthene	CCC	50000	48000	ug/L	1.09	4.10	20	
Hexachlorobutadiene	CCC	50000	49000	ug/L	0.186	2.09	20	
n-Nitrosodiphenylamine	CCC	50000	48500	ug/L	0.641	3.03	20	
Pentachlorophenol	CCC	50000	44300	ug/L	0.149	11.4	20	
Phenol	CCC	50000	47500	ug/L	1.49	4.93	20	
2,4-Dinitrophenol	SPCC	50000	52300	ug/L	0.170	4.66	20	
4-Nitrophenol	SPCC	50000	37700	ug/L	0.237	24.7	20	*
Hexachlorocyclopentadiene	SPCC	50000	37100	ug/L	0.245	25.7	20	*
n-Nitrosodipropylamine	SPCC	50000	44400	ug/L	0.804	11.3	20	
1,2,4-Trichlorobenzene		50000	47900	ug/L	0.314	4.25	20	
1,2-Dichlorobenzene		50000	49200	ug/L	1.38	1.65	20	
1,3-Dichlorobenzene		50000	50100	ug/L	1.46	0.115	20	
2,4,5-Trichlorophenol		50000	46100	ug/L	0.384	7.75	20	
2,4-Dimethylphenol		50000	47500	ug/L	0.305	5.00	20	
2,4-Dinitrotoluene		50000	47600	ug/L	0.391	4.71	20	
2,6-Dinitrotoluene		50000	50800	ug/L	0.323	1.65	20	
2-Chloronaphthalene		50000	47800	ug/L	1.27	4.41	20	
2-Chlorophenol		50000	49300	ug/L	1.32	1.42	20	
2-Methylnaphthalene		50000	48000	ug/L	0.632	3.95	20	
2-Methylphenol		50000	46800	ug/L	0.963	6.38	20	
2-Nitroaniline		50000	44700	ug/L	0.345	10.5	20	
3,3'-Dichlorobenzidine		50000	50700	ug/L	0.394	1.36	20	
3-,4-Methylphenol		50000	48000	ug/L	1.27	4.08	20	
3-Nitroaniline		50000	47600	ug/L	0.348	4.74	20	
4,6-Dinitro-2-Methylphenol		50000	51000	ug/L	0.143	2.07	20	
4-Bromophenyl Phenyl Ether		50000	47000	ug/L	0.221	5.95	20	
4-Chloroaniline		50000	48400	ug/L	0.425	3.27	20	
4-Chlorophenyl Phenyl Ether		50000	47900	ug/L	0.595	4.20	20	
4-Nitroaniline		50000	46700	ug/L	0.344	6.53	20	
Acenaphthylene		50000	47700	ug/L	1.78	4.54	20	
Anthracene		50000	48500	ug/L	1.06	3.02	20	
Benzo[a]anthracene		50000	48100	ug/L	1.05	3.75	20	
Benzo[b]fluoranthene		50000	45500	ug/L	1.12	8.96	20	
Benzo[ghi]perylene		50000	59400	ug/L	1.06	18.7	20	

CCV - Modified 03/05/2008
PDF File ID: 1895123
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116 Run Date: 01/14/2011 Sample ID: WG353967-02
Instrument ID: HPMS5 Run Time: 08:25 Method: 8270C
File ID: 5M61566 Analyst: CAA QC Key: DOD4
Workgroup (AAB#): WG353794 Cal ID: HPMS5 - 22-DEC-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Benzo[k]fluoranthene		50000	49200	ug/L	0.916	1.61	20	
Benzoic Acid		50000	29400	ug/L	0.122	41.2	20	*
Benzyl Alcohol		50000	47700	ug/L	0.812	4.70	20	
bis(2-Chloroethoxy)methane		50000	46400	ug/L	0.467	7.26	20	
bis(2-Chloroethyl)ether		50000	44100	ug/L	0.896	11.8	20	
bis(2-Chloroisopropyl)ether		50000	39000	ug/L	1.92	22.1	20	*
bis(2-Ethylhexyl)phthalate		50000	47900	ug/L	0.723	4.26	20	
Butyl Benzyl Phthalate		50000	46400	ug/L	0.469	7.17	20	
Chrysene		50000	48600	ug/L	0.991	2.83	20	
Di-n-Butyl Phthalate		50000	46800	ug/L	1.21	6.39	20	
Dibenz[ah]anthracene		50000	54600	ug/L	1.01	9.13	20	
Dibenzofuran		50000	47500	ug/L	1.49	4.92	20	
Diethylphthalate		50000	46700	ug/L	1.24	6.69	20	
Dimethylphthalate		50000	47700	ug/L	1.26	4.56	20	
Fluorene		50000	47600	ug/L	1.27	4.74	20	
Hexachlorobenzene		50000	46500	ug/L	0.244	7.09	20	
Hexachloroethane		50000	49500	ug/L	0.577	1.05	20	
Indeno[1,2,3-cd]pyrene		50000	54500	ug/L	1.22	8.94	20	
Isophorone		50000	47000	ug/L	0.643	6.05	20	
Naphthalene		50000	47700	ug/L	0.955	4.55	20	
Nitrobenzene		50000	48300	ug/L	0.360	3.49	20	
Phenanthrene		50000	47300	ug/L	1.04	5.38	20	
Pyrene		50000	48400	ug/L	1.05	3.18	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1895123
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11010116
Instrument ID: HPMS5
Workgroup (AAB#): WG353794

ICAL CCV Number: WG352225-02
CAL ID: HPMS5-22-DEC-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG352225-02	NA	NA	115715	236970	446013	431750	461994	411069
Upper Limit	NA	NA	231430	473940	892026	863500	923988	822138
Lower Limit	NA	NA	57858	118485	223007	215875	230997	205535
L11010116-01	1.00	01	131309	269721	532819	484695	548847	458327
WG353486-01	1.00	01	116245	233548	439591	429794	464602	389522
WG353486-02	1.00	01	130650	260342	501512	534576	531299	440978
WG353486-03	1.00	01	127653	253692	485357	527103	516817	434032

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-D8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1895124
Report generated 01/17/2011 13:57

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11010116
Instrument ID: HPMS5
Workgroup (AAB#): WG353794

ICAL CCV Number: WG352225-02
CAL ID: HPMS5-22-DEC-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG352225-02	NA	NA	9.26	12.99	17.46	10.87	19.92	14.6
Upper Limit	NA	NA	9.76	13.49	17.96	11.37	20.42	15.1
Lower Limit	NA	NA	8.76	12.49	16.96	10.37	19.42	14.1
L11010116-01	1.00	01	9.23	12.96	17.44	10.83	19.9	14.57
WG353486-01	1.00	01	9.23	12.95	17.44	10.83	19.89	14.57
WG353486-02	1.00	01	9.23	12.96	17.45	10.84	19.9	14.57
WG353486-03	1.00	01	9.23	12.96	17.44	10.84	19.9	14.57

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-D8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1895125
Report generated: 01/17/2011 13:58

2.2.1.3 Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61583.D Vial: 19
Acq On : 14 Jan 2011 6:00 pm Operator: CAA
Sample : L11010116-01 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:15 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.23	152	131309	40.00 ug/ml	0.00
30) Naphthalene-d8	10.83	136	484695	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.96	164	269721	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.57	188	458327	40.00 ug/ml	0.00
113) Chrysene-d12	17.44	240	532819	40.00 ug/ml	0.00
128) Perylene-d12	19.90	264	548847	40.00 ug/ml	-0.02

System Monitoring Compounds

8) 2-Fluorophenol	7.68	112	234788	59.3931 ug/ml	0.02
Spiked Amount 100.000	Range 21 - 100		Recovery = 59.39%		
12) Phenol-d5	8.79	99	310170	63.3865 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 63.39%		
31) Nitrobenzene-d5	9.94	82	142506	31.2067 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 62.42%		
59) 2-Fluorobiphenyl	12.14	172	300494	33.2146 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 66.42%		
86) 2,4,6-Tribromophenol	13.84	330	121240	83.6081 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 83.61%		
117) p-Terphenyl-d14	16.20	244	375551	41.1924 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 82.38%		

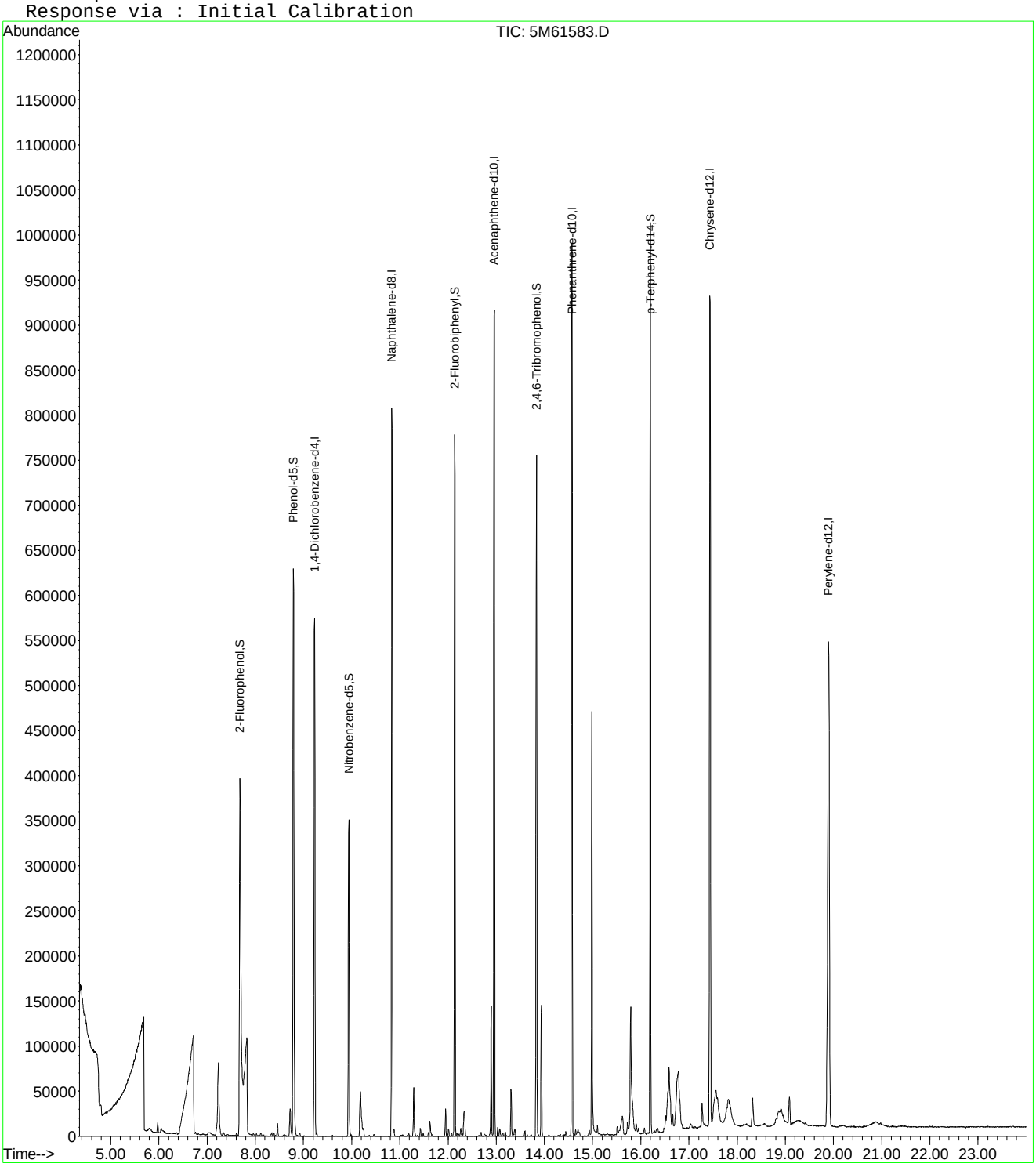
Target Compounds					Qvalue
48) n-Nitrosodi-n-Butylamine	11.29	84	5506	Below Cal	# 49
110) Methapyrilene	15.62	58	496	Below Cal	# 1

(#) = qualifier out of range (m) = manual integration
5M61583.D MEGAMIX.M Mon Jan 17 08:30:18 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61583.D Vial: 19
Acq On : 14 Jan 2011 6:00 pm Operator: CAA
Sample : L11010116-01 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:01 2011 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration



2.2.1.4 Standards Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D Vial: 2
Acq On : 22 Dec 2010 10:43 am Operator: CAA
Sample : WG352225-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54:32 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:30 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	115715	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	431750	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	236970	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	411069	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	446013	40.00 ug/ml	0.00
128) Perylene-d12	19.92	264	461994	40.00 ug/ml	0.00

System Monitoring Compounds					
8) 2-Fluorophenol	7.69	112	159146	44.8472 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 44.85%		
12) Phenol-d5	8.80	99	207929	44.0725 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 44.07%		
31) Nitrobenzene-d5	9.97	82	197239	45.7724 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 91.54%		
59) 2-Fluorobiphenyl	12.17	172	376670	47.0943 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 94.18%		
86) 2,4,6-Tribromophenol	13.86	330	63143	68.3316 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 68.33%		
117) p-Terphenyl-d14	16.22	244	370586	43.6735 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 87.34%		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.08	88	65554	41.5597 ug/ml	85
3) n-Nitrosodimethylamine	5.75	74	102022	44.8992 ug/ml	88
4) Pyridine	5.75	79	170036	43.7743 ug/ml#	83
5) 2-Picoline	6.90	93	177058	42.4399 ug/ml	96
6) n-Nitrosomethylethylamine	7.08	88	72921	41.4216 ug/ml	92
7) Methyl Methanesulfonate	7.49	80	96538	41.3818 ug/ml	92
9) n-Nitrosodiethylamine	7.99	102	76767	42.1128 ug/ml	92
10) Ethyl Methanesulfonate	8.34	79	130575	43.0036 ug/ml	99
11) Aniline	8.89	93	265727	43.4738 ug/ml#	43
13) Phenol	8.81	94	220005	45.0023 ug/ml	93
14) bis(2-Chloroethyl)ether	8.93	63	141825	52.4746 ug/ml#	63
15) Pentachloroethane	8.92	167	75416	48.9738 ug/ml	97
16) 2-Chlorophenol	9.04	128	186879	47.8697 ug/ml	92
17) 1,3-Dichlorobenzene	9.23	146	206545	47.1628 ug/ml	96
18) 1,4-Dichlorobenzene	9.28	146	212703	46.8069 ug/ml	97
19) Benzyl Alcohol	9.42	108	119046	46.3733 ug/ml	85
20) 1,2-Dichlorobenzene	9.52	146	197522	47.0627 ug/ml	96
21) 2-Methylphenol	9.56	107	143957	42.7195 ug/ml	93
22) bis(2-Chloroisopropyl)ethe	9.61	45	339923	79.1981 ug/ml	93
23) 3-,4-Methylphenol	9.72	107	184359	41.9287 ug/ml	93
24) n-Nitrosopyrrolidine	9.76	100	75185	42.1396 ug/ml#	10
25) n-Nitrosodipropylamine	9.78	70	124417	39.0681 ug/ml#	56
26) Acetophenone	9.77	105	218183	37.9858 ug/ml	93
27) n-Nitrosomorpholine	9.77	56	113676	47.4265 ug/ml#	95
28) o-Toluidine	9.82	106	273187	41.6237 ug/ml	97
29) Hexachloroethane	9.92	117	82946	47.1935 ug/ml	98
32) Nitrobenzene	10.00	77	192561	43.7593 ug/ml	88
33) n-Nitrosopiperidine	10.18	114	82780	46.5181 ug/ml	81
34) Isophorone	10.27	82	350334	44.7956 ug/ml	95
35) 2-Nitrophenol	10.40	139	103670	51.9793 ug/ml	88
36) 2,4-Dimethylphenol	10.39	122	163570	46.5152 ug/ml	87
37) 0,0,0-Triethyl Phosphoroth	10.51	198	86006	44.8763 ug/ml	91
38) bis(2-Chloroethoxy)methane	10.51	93	256974	43.3060 ug/ml	97

(#) = qualifier out of range (m) = manual integration
5M61363.D MEGAMIX.M Thu Dec 23 09:14:15 2010 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D Vial: 2
Acq On : 22 Dec 2010 10:43 am Operator: CAA
Sample : WG352225-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54:32 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:30 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.48	105	117320	43.6936 ug/ml	92
40)	2,4-Dichlorophenol	10.68	162	155142	49.9956 ug/ml	98
41)	a,a-Dimethylphenethylamine	10.72	58	519154m	63.5198 ug/ml	
42)	1,2,4-Trichlorobenzene	10.81	180	171284	48.8183 ug/ml	99
43)	Naphthalene	10.90	128	514239	45.7397 ug/ml	99
44)	4-Chloroaniline	10.95	127	231337	49.7875 ug/ml	96
45)	2,6-Dichlorophenol	10.97	162	153016	48.1752 ug/ml	98
46)	Hexachloropropene	11.04	213	117169	52.6204 ug/ml	99
47)	Hexachlorobutadiene	11.10	225	100907	50.1296 ug/ml	98
48)	n-Nitrosodi-n-Butylamine	11.35	84	144048	46.2498 ug/ml#	88
49)	p-Phenylenediamine	11.38	108	118302	48.4518 ug/ml	94
50)	4-Chloro-3-Methylphenol	11.50	107	151736	43.1049 ug/ml	86
51)	Safrole	11.60	162	138727	45.3111 ug/ml#	84
52)	2-Methylnaphthalene	11.74	142	330897	45.4182 ug/ml	100
53)	1-Methylnaphthalene	11.88	142	333966	45.5745 ug/ml#	95
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	159086	45.9150 ug/ml	97
56)	Hexachlorocyclopentadiene	12.00	237	87722	58.1899 ug/ml	98
57)	2,4,6-Trichlorophenol	12.08	196	114666	51.6121 ug/ml	91
58)	2,4,5-Trichlorophenol	12.14	196	122672	51.8180 ug/ml	94
60)	Isosafrole	12.21	162	150265	50.1066 ug/ml#	89
61)	2-Chloronaphthalene	12.32	162	371177	46.1041 ug/ml	99
62)	1-Chloronaphthalene	12.37	162	311724	46.9875 ug/ml	98
63)	2-Nitroaniline	12.44	65	107912	47.8831 ug/ml	91
64)	1,4-Naphthoquinone	12.51	158	87377	47.1099 ug/ml	85
65)	Dimethylphthalate	12.64	163	376429	46.7309 ug/ml	99
66)	1,3-Dinitrobenzene	12.69	168	69113	54.1777 ug/ml#	80
67)	2,6-Dinitrotoluene	12.74	165	93415	50.4090 ug/ml	82
68)	Acenaphthylene	12.82	152	521387	45.8784 ug/ml	98
69)	3-Nitroaniline	12.91	138	101737	51.7756 ug/ml	83
70)	2,4-Dinitrophenol	13.03	184	41970	55.2261 ug/ml#	1
71)	Acenaphthene	13.02	154	328275	45.9399 ug/ml	96
72)	4-Nitrophenol	13.05	65	81834	44.4443 ug/ml	86
73)	2,4-Dinitrotoluene	13.19	165	114486	47.1137 ug/ml	96
74)	Pentachlorobenzene	13.22	250	149721	50.6981 ug/ml	98
75)	Dibenzofuran	13.19	168	436029	44.4031 ug/ml	91
76)	2,3,4,6-Tetrachlorophenol	13.31	232	102658	51.9104 ug/ml	94
77)	1-Naphthylamine	13.28	143	327304	48.5061 ug/ml	93
78)	2-Naphthylamine	13.35	143	310014	46.6782 ug/ml	91
79)	Diethylphthalate	13.42	149	378345	46.0997 ug/ml	99
80)	Thionazin	13.52	107	60765	43.5361 ug/ml	95
81)	Fluorene	13.57	166	366954	43.2678 ug/ml	99
82)	4-Chlorophenyl Phenyl Ethe	13.53	204	176978	43.4704 ug/ml	97
83)	4-Nitroaniline	13.60	138	101445	70.3249 ug/ml	79
84)	5-Nitro-o-Toluidine	13.59	152	110874	45.8806 ug/ml#	83
85)	1,2-Diphenylhydrazine	13.71	77	375971	40.9356 ug/ml	97
88)	4,6-Dinitro-2-Methylphenol	13.64	198	67705	50.3614 ug/ml#	61
89)	n-Nitrosodiphenylamine	13.66	169	318418	46.0685 ug/ml	99
90)	Sulfotepp	13.88	322	70664	58.9281 ug/ml#	48
91)	Sym-Trinitrobenzene	13.96	75	100953	39.8806 ug/ml#	93
92)	Diallate	13.99	86	137537	44.6251 ug/ml#	84
93)	Phenacetin	13.99	108	180300	43.6032 ug/ml	95
94)	Phorate	14.01	75	231040	43.3323 ug/ml#	100
95)	4-Bromophenyl Phenyl Ether	14.07	248	113421	50.4991 ug/ml	89
96)	Hexachlorobenzene	14.27	284	127334	57.7840 ug/ml	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D Vial: 2
Acq On : 22 Dec 2010 10:43 am Operator: CAA
Sample : WG352225-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54:32 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:30 2010
Response via : Initial Calibration
DataAcq Meth : BNA

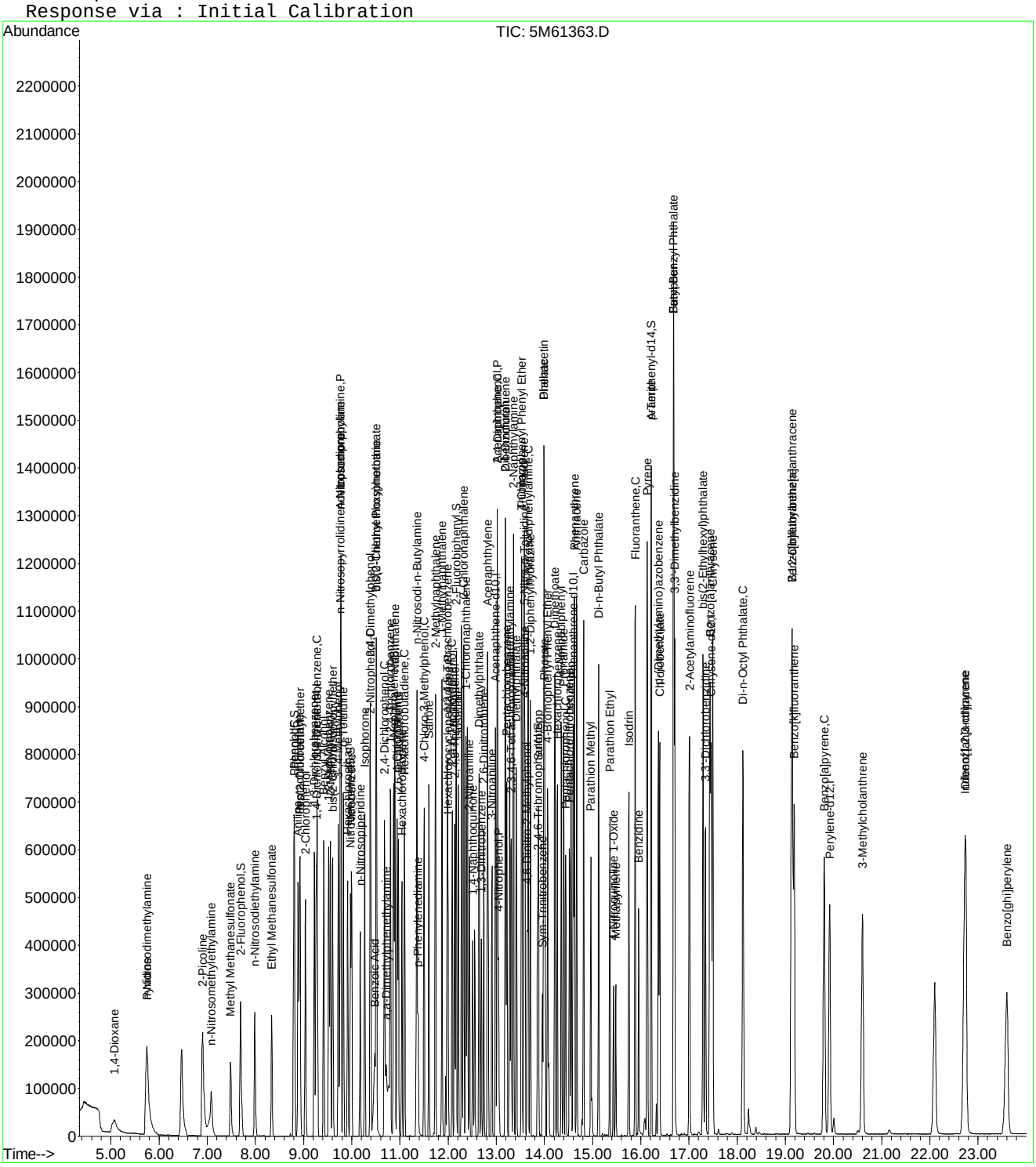
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
97)	Dimethoate	14.21	87	116312	49.4424	ug/ml	90
98)	4-Aminobiphenyl	14.35	169	371278	49.7188	ug/ml	98
99)	Pentachlorophenol	14.44	266	86010	63.1574	ug/ml	100
100)	Pronamide	14.40	173	167905	48.5471	ug/ml	97
101)	Pentachloronitrobenzene	14.52	237	50204	54.1809	ug/ml	94
102)	Disulfoton	14.55	88	193162	47.4025	ug/ml#	90
103)	Phenanthrene	14.63	178	526758	45.1995	ug/ml	99
104)	Anthracene	14.67	178	526361	44.6801	ug/ml	98
105)	Carbazole	14.81	167	493991	46.2773	ug/ml	95
106)	Parathion Methyl	14.96	109	113811	57.8034	ug/ml#	88
107)	Di-n-Butyl Phthalate	15.12	149	625923	47.9235	ug/ml	98
108)	Parathion Ethyl	15.36	97	75766	49.6809	ug/ml#	88
109)	4-Nitroquinoline 1-Oxide	15.43	190	40823	62.6911	ug/ml	89
110)	Methapyrilene	15.48	58	110850	68.4765	ug/ml#	94
111)	Isodrin	15.75	193	63991	49.6542	ug/ml	97
112)	Fluoranthene	15.89	202	546355	45.1972	ug/ml	97
114)	Benzidine	15.96	184	216498	56.0665	ug/ml	100
115)	Pyrene	16.13	202	574946	46.0466	ug/ml	99
116)	Aramite	16.22	185	38686	46.2727	ug/ml#	86
118)	p-(Dimethylamino)azobenzen	16.37	225	126539	46.5138	ug/ml	86
119)	Chlorobenzilate	16.39	251	181541	50.9558	ug/ml#	80
120)	Famphur	16.68	218	5546	63.4757	ug/ml#	43
121)	Butyl Benzyl Phthalate	16.69	149	267402	45.0106	ug/ml	99
122)	3,3'-Dimethylbenzidine	16.70	212	447047	40.8879	ug/ml#	97
123)	2-Acetylaminofluorene	17.01	181	238533	46.0220	ug/ml	93
124)	bis(2-Ethylhexyl)phthalate	17.29	149	407881	50.2352	ug/ml#	96
125)	3,3'-Dichlorobenzidine	17.34	252	214063	53.5864	ug/ml	98
126)	Benzo[a]anthracene	17.44	228	572631	45.6891	ug/ml	99
127)	Chrysene	17.49	228	541842	45.3103	ug/ml	100
129)	Di-n-Octyl Phthalate	18.12	149	713492	41.7889	ug/ml	100
130)	7,12-Dimethylbenz[a]anthra	19.14	256	275244	40.5730	ug/ml	96
131)	Benzo[b]fluoranthene	19.14	252	594995	36.6573	ug/ml	99
132)	Benzo[k]fluoranthene	19.18	252	516021	41.0128	ug/ml#	95
133)	Benzo[a]pyrene	19.81	252	581146	44.5464	ug/ml	99
134)	3-Methylcholanthrene	20.60	268	317945	46.5653	ug/ml	93
135)	Indeno[1,2,3-cd]pyrene	22.74	276	658209	50.4448	ug/ml	96
136)	Dibenz[ah]anthracene	22.73	278	551388	50.1127	ug/ml	99
137)	Benzo[ghi]perylene	23.60	276	516520	49.9587	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D Vial: 2
Acq On : 22 Dec 2010 10:43 am Operator: CAA
Sample : WG352225-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54 2010 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D          Vial: 2
Acq On    : 22 Dec 2010  10:43 am                   Operator: CAA
Sample    : WG352225-02 50ppm Megamix STD           Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Wed Dec 22 13:54:30 2010
Response via : Multiple Level Calibration
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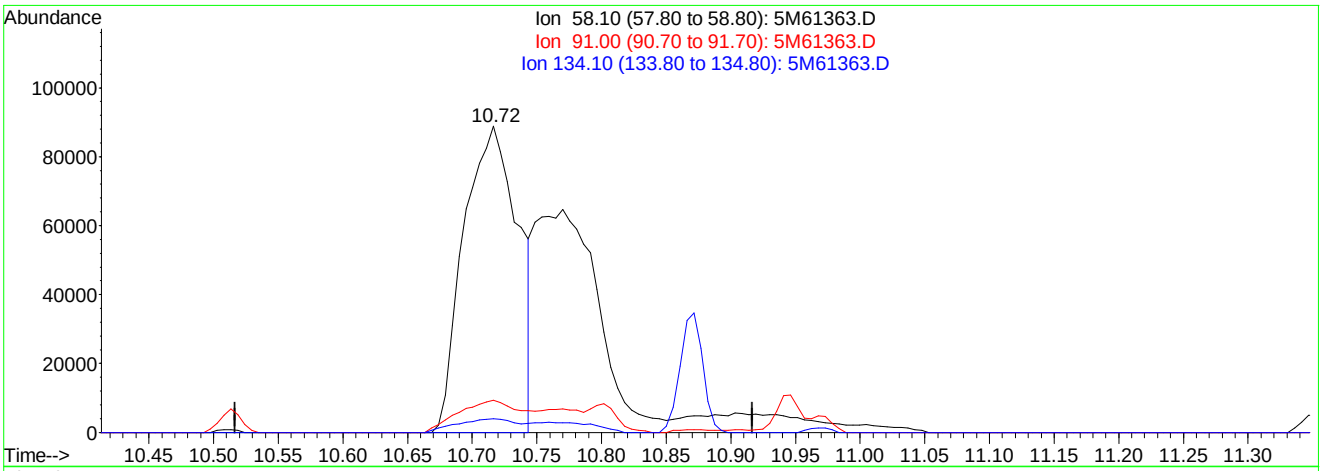
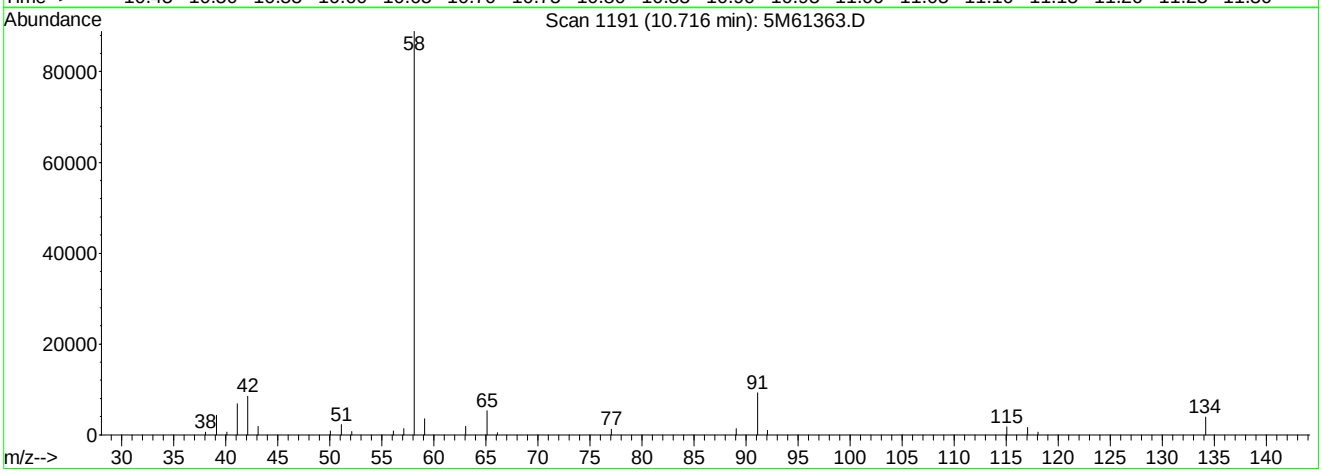




TIC: 5M61363.D

(41) a,a-Dimethylphenethylamine

10.72min 31.81ug/ml

response 260005

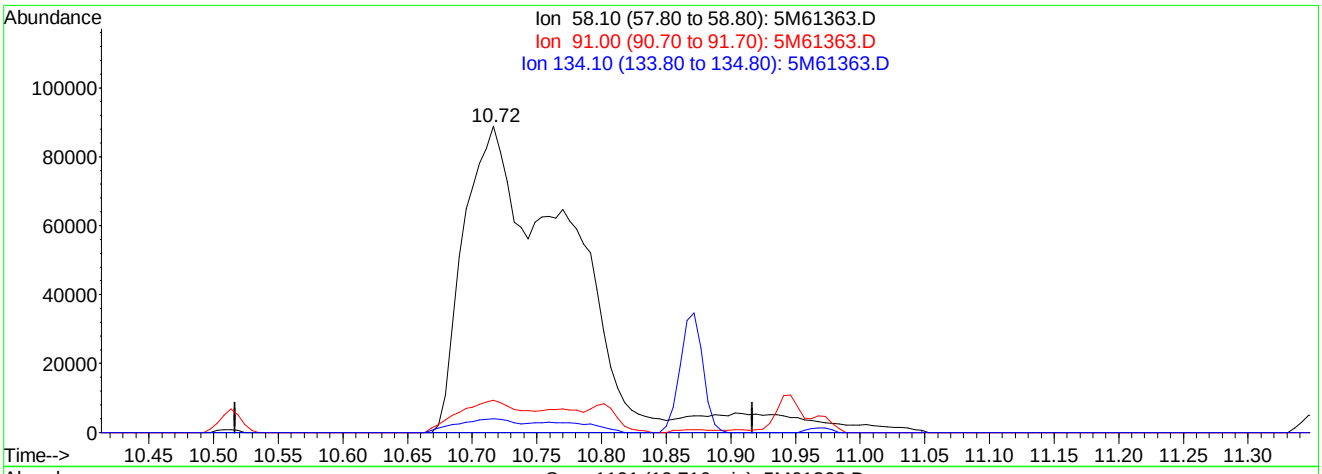
Ion	Exp%	Act%
58.10	100	100
91.00	8.30	12.26#
134.10	1.90	4.73#
0.00	0.00	0.00

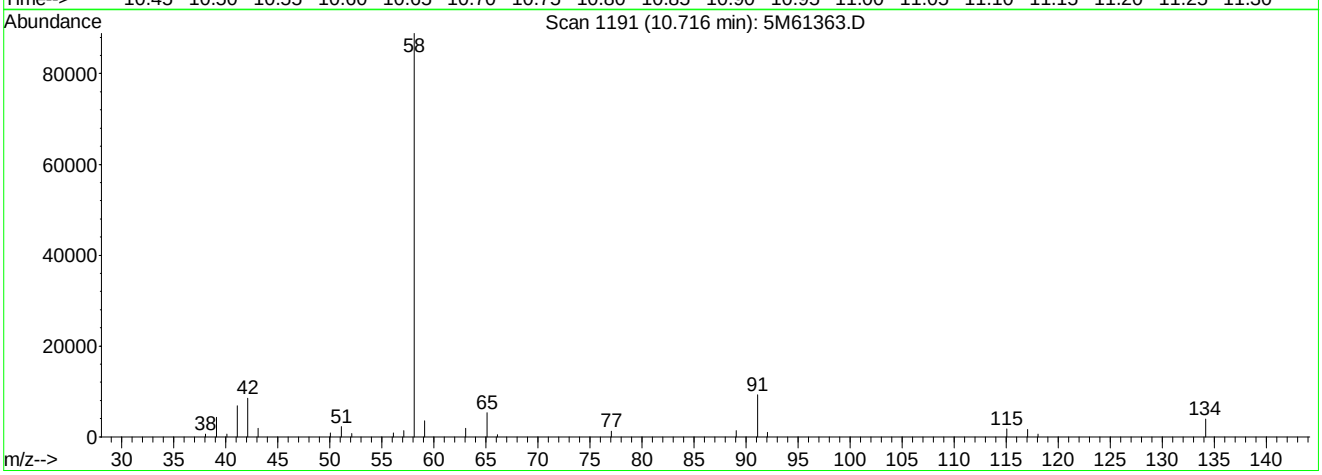
5M61363.D MEGAMIX.M Wed Dec 22 13:54:41 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61363.D Vial: 2
Acq On : 22 Dec 2010 10:43 am Operator: CAA
Sample : WG352225-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:54 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:30 2010
Response via : Multiple Level Calibration





TIC: 5M61363.D

(41) a,a-Dimethylphenethylamine

10.72min 63.52ug/ml mint

response 519154

Ion	Exp%	Act%
58.10	100	100
91.00	8.30	6.14#
134.10	1.90	2.37#
0.00	0.00	0.00

5M61363.D MEGAMIX.M Wed Dec 22 13:54:44 2010

Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:48

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:02 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:58 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	115862	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	436504	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.98	164	239028	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.59	188	407359	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	447082	40.00 ug/ml	0.00
128) Perylene-d12	19.92	264	471661	40.00 ug/ml	0.00

System Monitoring Compounds					
8) 2-Fluorophenol	7.68	112	9020	2.5721 ug/ml	-0.01
Spiked Amount 100.000	Range 21 - 100		Recovery	=	2.57%#
12) Phenol-d5	8.79	99	11637	2.5010 ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 94		Recovery	=	2.50%#
31) Nitrobenzene-d5	9.97	82	10850	2.5145 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery	=	5.02%#
59) 2-Fluorobiphenyl	12.16	172	22317	2.7849 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery	=	5.56%#
86) 2,4,6-Tribromophenol	13.85	330	3213	3.3064 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery	=	3.31%#
117) p-Terphenyl-d14	16.21	244	22725	2.7182 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery	=	5.44%#

Target Compounds					Qvalue
3) n-Nitrosodimethylamine	5.74	74	4696	2.0913 ug/ml#	86
4) Pyridine	5.76	79	7736	2.0223 ug/ml	96
5) 2-Picoline	6.91	93	9622	2.3472 ug/ml#	90
6) n-Nitrosomethylethylamine	7.08	88	2967	1.7195 ug/ml#	70
7) Methyl Methanesulfonate	7.48	80	5578	2.4438 ug/ml	94
9) n-Nitrosodiethylamine	7.99	102	3988	2.2300 ug/ml	88
10) Ethyl Methanesulfonate	8.33	79	7609	2.5488 ug/ml	96
11) Aniline	8.88	93	14515	2.4090 ug/ml	97
13) Phenol	8.80	94	12075	2.4999 ug/ml	100
14) bis(2-Chloroethyl)ether	8.93	63	8339	3.0666 ug/ml	97
15) Pentachloroethane	8.92	167	4016	2.6176 ug/ml	98
16) 2-Chlorophenol	9.03	128	10333	2.6594 ug/ml	98
17) 1,3-Dichlorobenzene	9.22	146	11340	2.6050 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	12322	2.7273 ug/ml	94
19) Benzyl Alcohol	9.41	108	6425	2.5278 ug/ml	98
20) 1,2-Dichlorobenzene	9.52	146	11079	2.6570 ug/ml	99
21) 2-Methylphenol	9.54	107	7804	2.3600 ug/ml	99
22) bis(2-Chloroisopropyl)ethe	9.60	45	20946	4.5423 ug/ml	95
23) 3-,4-Methylphenol	9.71	107	10327	2.3983 ug/ml	99
24) n-Nitrosopyrrolidine	9.74	100	4012	2.2981 ug/ml#	7
25) n-Nitrosodipropylamine	9.77	70	7647	2.4721 ug/ml#	93
26) Acetophenone	9.76	105	13813	2.4806 ug/ml	99
27) n-Nitrosomorpholine	9.76	56	7147	3.0061 ug/ml	98
28) o-Toluidine	9.82	106	14758	2.2957 ug/ml	100
29) Hexachloroethane	9.91	117	4413	2.5269 ug/ml	98
32) Nitrobenzene	9.99	77	11183	2.5513 ug/ml	96
33) n-Nitrosopiperidine	10.17	114	4502	2.5239 ug/ml	91
34) Isophorone	10.26	82	20226	2.5935 ug/ml	97
35) 2-Nitrophenol	10.39	139	5427	2.6805 ug/ml	95
36) 2,4-Dimethylphenol	10.38	122	9343	2.6549 ug/ml	97
37) 0,0,0-Triethyl Phosphoroth	10.51	198	5182	2.7098 ug/ml	97
38) bis(2-Chloroethoxy)methane	10.50	93	15388	2.6156 ug/ml	94
40) 2,4-Dichlorophenol	10.67	162	8354	2.6603 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:02 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:58 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	a,a-Dimethylphenethylamine	10.63	58	26812	3.1387 ug/ml#	94
42)	1,2,4-Trichlorobenzene	10.80	180	9998	2.8252 ug/ml	97
43)	Naphthalene	10.89	128	30339	2.6999 ug/ml	97
44)	4-Chloroaniline	10.94	127	12240	2.6009 ug/ml	98
45)	2,6-Dichlorophenol	10.97	162	8472	2.6483 ug/ml	95
46)	Hexachloropropene	11.04	213	5300	2.3331 ug/ml	98
47)	Hexachlorobutadiene	11.10	225	5580	2.7399 ug/ml	99
48)	n-Nitrosodi-n-Butylamine	11.35	84	6560	2.1331 ug/ml#	85
49)	p-Phenylenediamine	11.36	108	5278	2.0548 ug/ml#	92
50)	4-Chloro-3-Methylphenol	11.49	107	8412	2.4080 ug/ml	95
51)	Safrole	11.60	162	7836	2.5641 ug/ml	98
52)	2-Methylnaphthalene	11.74	142	19706	2.7113 ug/ml	99
53)	1-Methylnaphthalene	11.87	142	19336	2.6416 ug/ml	98
55)	1,2,4,5-Tetrachlorobenzene	11.98	216	9432	2.7239 ug/ml	98
56)	Hexachlorocyclopentadiene	12.00	237	3121	1.9341 ug/ml#	93
57)	2,4,6-Trichlorophenol	12.08	196	6001	2.6667 ug/ml	99
58)	2,4,5-Trichlorophenol	12.13	196	6267	2.6152 ug/ml	99
60)	Isosafrole	12.21	162	8214	2.7106 ug/ml	99
61)	2-Chloronaphthalene	12.32	162	21908	2.7254 ug/ml	98
62)	1-Chloronaphthalene	12.37	162	18476	2.7806 ug/ml	99
63)	2-Nitroaniline	12.44	65	5674	2.5104 ug/ml	96
64)	1,4-Naphthoquinone	12.51	158	7082	3.7112 ug/ml	98
65)	Dimethylphthalate	12.63	163	22456	2.7844 ug/ml	98
66)	1,3-Dinitrobenzene	12.68	168	3374	2.6015 ug/ml	90
67)	2,6-Dinitrotoluene	12.74	165	4819	2.5738 ug/ml	94
68)	Acenaphthylene	12.82	152	31008	2.7361 ug/ml	99
69)	3-Nitroaniline	12.90	138	5063	2.5333 ug/ml#	96
71)	Acenaphthene	13.02	154	18457	2.5904 ug/ml	93
72)	4-Nitrophenol	13.03	65	3056	1.6704 ug/ml	96
73)	2,4-Dinitrotoluene	13.18	165	6162	2.5410 ug/ml	92
74)	Pentachlorobenzene	13.22	250	8903	2.9799 ug/ml	98
75)	Dibenzofuran	13.19	168	26906	2.7597 ug/ml	98
76)	2,3,4,6-Tetrachlorophenol	13.31	232	5044	2.5282 ug/ml	97
77)	1-Naphthylamine	13.27	143	18221	2.6669 ug/ml	95
78)	2-Naphthylamine	13.35	143	19473	2.9414 ug/ml	98
79)	Diethylphthalate	13.41	149	22787	2.7792 ug/ml	98
80)	Thionazin	13.52	107	3235	2.3400 ug/ml	88
81)	Fluorene	13.57	166	22490	2.6778 ug/ml	98
82)	4-Chlorophenyl Phenyl Ethe	13.53	204	10345	2.5651 ug/ml	97
83)	4-Nitroaniline	13.58	138	5210	3.6195 ug/ml	94
84)	5-Nitro-o-Toluidine	13.58	152	5997	2.4893 ug/ml	93
85)	1,2-Diphenylhydrazine	13.70	77	23120	2.5544 ug/ml	96
89)	n-Nitrosodiphenylamine	13.65	169	18441	2.7197 ug/ml	97
90)	Sulfotepp	13.87	322	3823	3.1442 ug/ml	92
92)	Diallate	13.99	86	7958	2.6473 ug/ml	82
93)	Phenacetin	13.97	108	10149	2.5257 ug/ml	97
94)	Phorate	14.00	75	13611	2.6044 ug/ml#	98
95)	4-Bromophenyl Phenyl Ether	14.07	248	6578	2.9503 ug/ml	97
96)	Hexachlorobenzene	14.26	284	7473	3.3535 ug/ml	99
97)	Dimethoate	14.20	87	7481	3.2247 ug/ml	96
98)	4-Aminobiphenyl	14.34	169	19013	2.5779 ug/ml	96
99)	Pentachlorophenol	14.43	266	2790	2.0057 ug/ml	95
100)	Pronamide	14.39	173	9750	2.8567 ug/ml	98
101)	Pentachloronitrobenzene	14.51	237	2787	3.0112 ug/ml	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:02 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:58 2010
Response via : Initial Calibration
DataAcq Meth : BNA

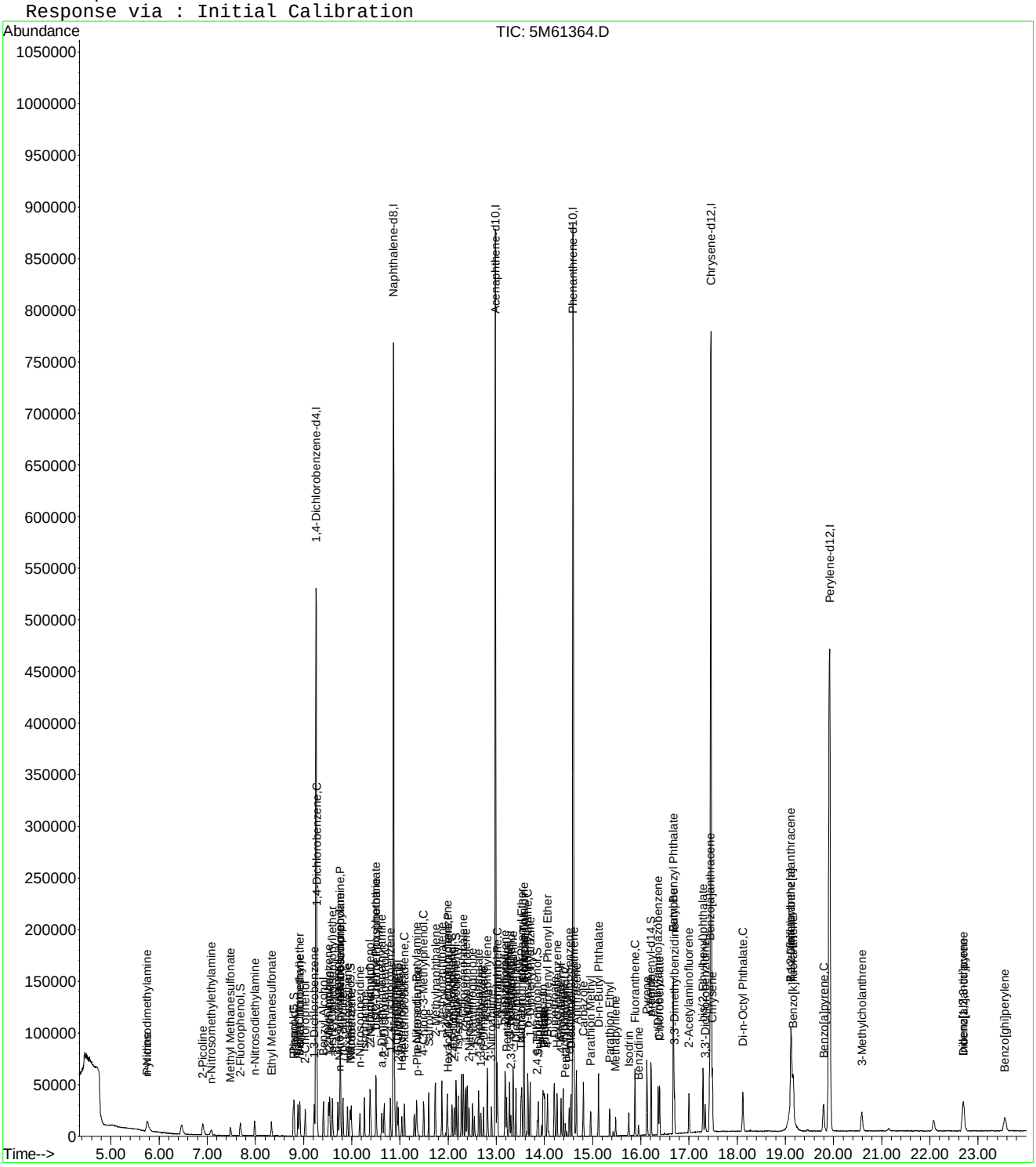
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Disulfoton	14.55	88	10701	2.6549	ug/ml	98
103) Phenanthrene	14.62	178	32339	2.8353	ug/ml	98
104) Anthracene	14.66	178	31643	2.7577	ug/ml	98
105) Carbazole	14.81	167	28224	2.6988	ug/ml	97
106) Parathion Methyl	14.96	109	6457	3.2823	ug/ml	96
107) Di-n-Butyl Phthalate	15.12	149	38870	3.0301	ug/ml	99
108) Parathion Ethyl	15.35	97	4026	2.6829	ug/ml	92
110) Methapyrilene	15.48	58	8433	5.0139	ug/ml	97
111) Isodrin	15.75	193	3811	2.9858	ug/ml#	83
112) Fluoranthene	15.88	202	32684	2.7670	ug/ml	97
114) Benzidine	15.95	184	7755	1.9792	ug/ml	100
115) Pyrene	16.13	202	35725	2.8878	ug/ml	98
116) Aramite	16.22	185	2060	2.4920	ug/ml#	79
118) p-(Dimethylamino)azobenzen	16.37	225	6784	2.5119	ug/ml#	90
119) Chlorobenzilate	16.39	251	10145	2.8340	ug/ml	91
120) Famphur	16.67	218	10387	93.4202	ug/ml#	4
121) Butyl Benzyl Phthalate	16.68	149	18116	3.0859	ug/ml	95
122) 3,3'-Dimethylbenzidine	16.70	212	20059	1.8618	ug/ml	97
123) 2-Acetylaminofluorene	17.00	181	11391	2.2223	ug/ml	97
124) bis(2-Ethylhexyl)phthalate	17.29	149	25042	3.0759	ug/ml	96
125) 3,3'-Dichlorobenzidine	17.33	252	10926	2.7009	ug/ml	96
126) Benzo[a]anthracene	17.43	228	34484	2.7736	ug/ml	96
127) Chrysene	17.49	228	32049	2.7081	ug/ml	98
129) Di-n-Octyl Phthalate	18.12	149	37571	2.2058	ug/ml#	97
130) 7,12-Dimethylbenz[a]anthra	19.12	256	15595	2.3162	ug/ml	97
131) Benzo[b]fluoranthene	19.12	252	38577m	2.4038	ug/ml	
132) Benzo[k]fluoranthene	19.17	252	31517	2.5335	ug/ml	91
133) Benzo[a]pyrene	19.80	252	28379	2.1642	ug/ml	89
134) 3-Methylcholanthrene	20.59	268	14255	2.0695	ug/ml#	84
135) Indeno[1,2,3-cd]pyrene	22.70	276	30138	2.2687	ug/ml	96
136) Dibenz[ah]anthracene	22.70	278	24271	2.1695	ug/ml	95
137) Benzo[ghi]perylene	23.56	276	24985	2.3770	ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010 Quant Results File: MEGAMIX.RES

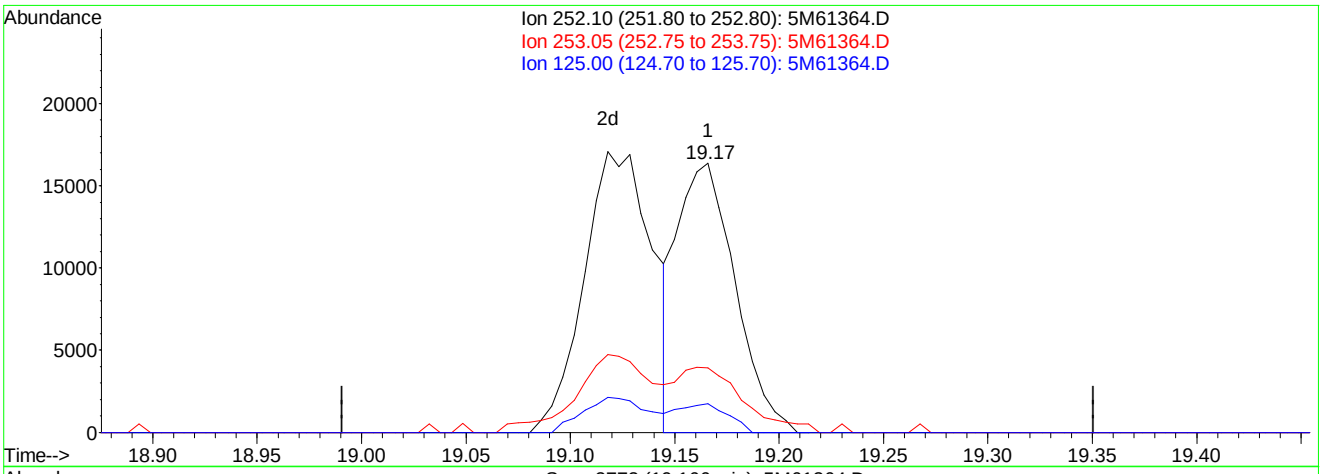
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration

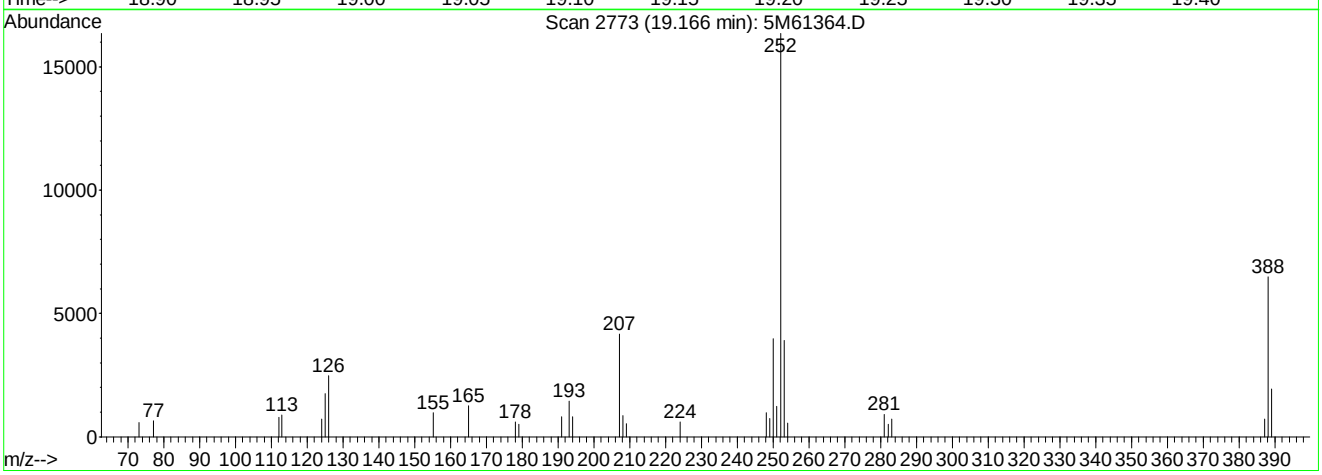


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:58 2010
Response via : Multiple Level Calibration





TIC: 5M61364.D

(131) Benzo[b]fluoranthene

19.17min 1.96ug/ml

response 31517

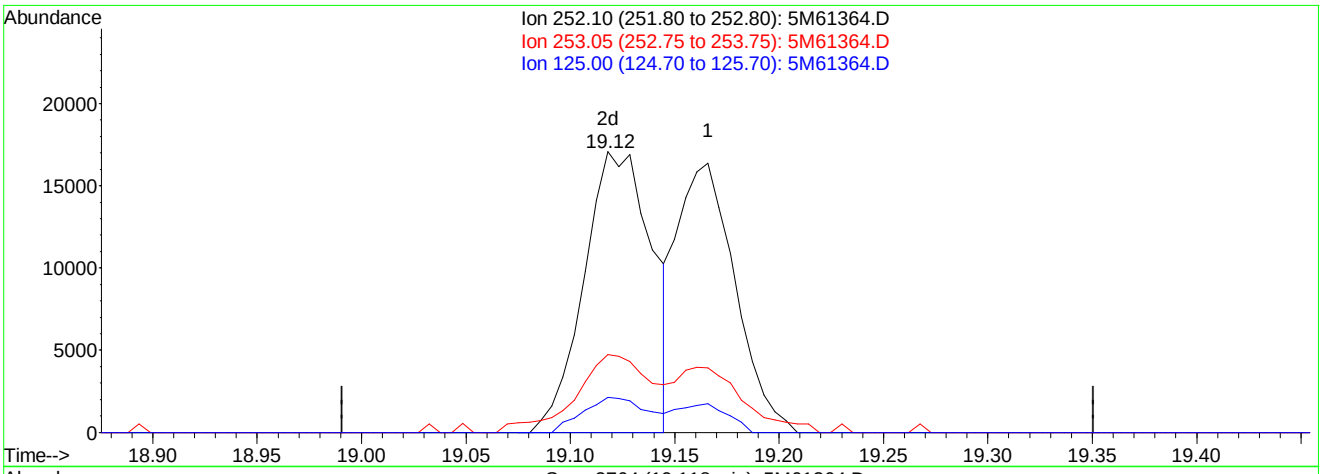
Ion	Exp%	Act%
252.10	100	100
253.05	24.50	28.28
125.00	12.90	9.35
0.00	0.00	0.00

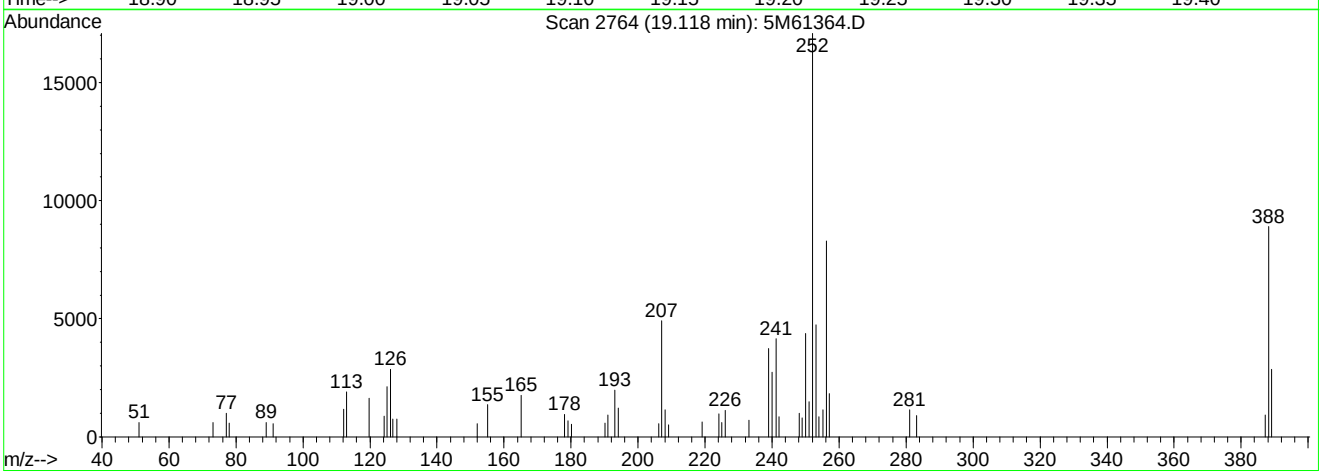
5M61364.D MEGAMIX.M Wed Dec 22 13:55:17 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61364.D Vial: 3
Acq On : 22 Dec 2010 11:17 am Operator: CAA
Sample : WG352225-03 3ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:54:58 2010
Response via : Multiple Level Calibration





TIC: 5M61364.D

(131) Benzo[b]fluoranthene

19.12min 2.40ug/ml mint

response 38577

Ion	Exp%	Act%
252.10	100	100
253.05	24.50	23.10
125.00	12.90	7.64#
0.00	0.00	0.00

5M61364.D MEGAMIX.M Wed Dec 22 13:55:20 2010

Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:48

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D Vial: 4
Acq On : 22 Dec 2010 11:51 am Operator: CAA
Sample : WG352225-04 10ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:34 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:29 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	142789	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	518166	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.98	164	286785	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	499236	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	555531	40.00 ug/ml	0.00
128) Perylene-d12	19.92	264	584683	40.00 ug/ml	0.00

System Monitoring Compounds					
8) 2-Fluorophenol	7.69	112	38715	9.2475 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 9.25%#		
12) Phenol-d5	8.79	99	49076	8.8419 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 8.84%#		
31) Nitrobenzene-d5	9.97	82	46973	9.4567 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 18.92%#		
59) 2-Fluorobiphenyl	12.17	172	96925	10.3330 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.66%#		
86) 2,4,6-Tribromophenol	13.86	330	15777	13.0904 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 13.09%		
117) p-Terphenyl-d14	16.22	244	106782	10.5660 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 21.14%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.07	88	17086m	10.1004 ug/ml	
3) n-Nitrosodimethylamine	5.75	74	24582	9.2923 ug/ml#	97
4) Pyridine	5.76	79	40270	8.9878 ug/ml#	91
5) 2-Picoline	6.90	93	42629	8.8240 ug/ml	98
6) n-Nitrosomethylethylamine	7.08	88	18276	9.2198 ug/ml	99
7) Methyl Methanesulfonate	7.48	80	24786	9.2619 ug/ml	98
9) n-Nitrosodiethylamine	7.99	102	18423	8.7504 ug/ml	95
10) Ethyl Methanesulfonate	8.33	79	32150	9.0194 ug/ml	99
11) Aniline	8.88	93	62868	8.7532 ug/ml	98
13) Phenol	8.81	94	52244	9.0412 ug/ml	98
14) bis(2-Chloroethyl)ether	8.93	63	35181	10.5565 ug/ml	99
15) Pentachloroethane	8.91	167	18054	9.8036 ug/ml	99
16) 2-Chlorophenol	9.04	128	44288	9.4781 ug/ml	99
17) 1,3-Dichlorobenzene	9.22	146	49261	9.4565 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	52022	9.5806 ug/ml	98
19) Benzyl Alcohol	9.41	108	28160	9.2127 ug/ml	100
20) 1,2-Dichlorobenzene	9.52	146	48256	9.6540 ug/ml	99
21) 2-Methylphenol	9.55	107	33786	8.6403 ug/ml	99
22) bis(2-Chloroisopropyl)ethe	9.60	45	85234	14.0806 ug/ml	99
23) 3-,4-Methylphenol	9.71	107	44225	8.6212 ug/ml	99
24) n-Nitrosopyrrolidine	9.74	100	17740	8.5093 ug/ml#	1
25) n-Nitrosodipropylamine	9.77	70	32972	8.9260 ug/ml	97
26) Acetophenone	9.76	105	59095	8.9268 ug/ml	100
27) n-Nitrosomorpholine	9.76	56	30430	10.4735 ug/ml	99
28) o-Toluidine	9.82	106	64251	8.4399 ug/ml	99
29) Hexachloroethane	9.91	117	19742	9.4422 ug/ml	100
32) Nitrobenzene	9.99	77	46743	9.2652 ug/ml	99
33) n-Nitrosopiperidine	10.17	114	19693	9.6293 ug/ml	94
34) Isophorone	10.27	82	85564	9.5171 ug/ml	99
35) 2-Nitrophenol	10.39	139	25160	10.5361 ug/ml	97
36) 2,4-Dimethylphenol	10.38	122	40393	9.8947 ug/ml	97
37) 0,0,0-Triethyl Phosphoroth	10.51	198	23364	10.5413 ug/ml	99
38) bis(2-Chloroethoxy)methane	10.50	93	67394	9.9264 ug/ml	97

(#) = qualifier out of range (m) = manual integration
5M61365.D MEGAMIX.M Thu Dec 23 09:14:18 2010 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D Vial: 4
Acq On : 22 Dec 2010 11:51 am Operator: CAA
Sample : WG352225-04 10ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:34 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:29 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Benzoic Acid	10.46	105	12958	4.0626	ug/ml	92
40) 2,4-Dichlorophenol	10.67	162	36880	10.1430	ug/ml	100
41) a,a-Dimethylphenethylamine	10.66	58	123298	12.0879	ug/ml#	89
42) 1,2,4-Trichlorobenzene	10.80	180	41831	10.1930	ug/ml	100
43) Naphthalene	10.89	128	129401	9.9872	ug/ml	99
44) 4-Chloroaniline	10.94	127	55078	10.1169	ug/ml	98
45) 2,6-Dichlorophenol	10.97	162	36801	9.9852	ug/ml	98
46) Hexachloropropene	11.04	213	26411	10.0586	ug/ml	99
47) Hexachlorobutadiene	11.09	225	25228	10.6720	ug/ml	99
48) n-Nitrosodi-n-Butylamine	11.35	84	28564	8.0864	ug/ml#	81
49) p-Phenylenediamine	11.36	108	33928	11.5769	ug/ml	96
50) 4-Chloro-3-Methylphenol	11.49	107	36483	9.0727	ug/ml	98
51) Safrole	11.60	162	35245	10.0282	ug/ml	99
52) 2-Methylnaphthalene	11.74	142	84363	10.0269	ug/ml	99
53) 1-Methylnaphthalene	11.87	142	83276	9.8656	ug/ml	98
55) 1,2,4,5-Tetrachlorobenzene	11.99	216	42015	10.3875	ug/ml	100
56) Hexachlorocyclopentadiene	12.00	237	20239	10.9345	ug/ml	100
57) 2,4,6-Trichlorophenol	12.08	196	27395	10.3716	ug/ml	98
58) 2,4,5-Trichlorophenol	12.13	196	29620	10.4834	ug/ml	97
60) Isosafrole	12.21	162	35584	10.0028	ug/ml	97
61) 2-Chloronaphthalene	12.32	162	97109	10.3388	ug/ml	99
62) 1-Chloronaphthalene	12.37	162	79249	10.1722	ug/ml	99
63) 2-Nitroaniline	12.44	65	26000	9.5879	ug/ml	98
64) 1,4-Naphthoquinone	12.51	158	31986	14.5262	ug/ml	98
65) Dimethylphthalate	12.64	163	95145	10.0672	ug/ml	100
66) 1,3-Dinitrobenzene	12.69	168	16156	10.3800	ug/ml	96
67) 2,6-Dinitrotoluene	12.74	165	22482	10.2085	ug/ml	98
68) Acenaphthylene	12.81	152	138156	10.4278	ug/ml	98
69) 3-Nitroaniline	12.90	138	23498	9.7993	ug/ml	98
70) 2,4-Dinitrophenol	13.02	184	5832	6.1995	ug/ml#	1
71) Acenaphthene	13.02	154	83827	10.0600	ug/ml	96
72) 4-Nitrophenol	13.03	65	17920	8.1639	ug/ml	98
73) 2,4-Dinitrotoluene	13.18	165	29845	10.3615	ug/ml	98
74) Pentachlorobenzene	13.22	250	40140	11.2923	ug/ml	98
75) Dibenzofuran	13.19	168	120449	10.5673	ug/ml	99
76) 2,3,4,6-Tetrachlorophenol	13.31	232	24403	10.3377	ug/ml	99
77) 1-Naphthylamine	13.27	143	80940	10.0922	ug/ml	96
78) 2-Naphthylamine	13.35	143	75158	9.5174	ug/ml	98
79) Diethylphthalate	13.41	149	98206	10.2260	ug/ml	99
80) Thionazin	13.51	107	15366	9.6270	ug/ml	94
81) Fluorene	13.57	166	100424	10.2240	ug/ml	100
82) 4-Chlorophenyl Phenyl Ethe	13.53	204	47835	10.1889	ug/ml	100
83) 4-Nitroaniline	13.59	138	25307	14.6536	ug/ml	97
84) 5-Nitro-o-Toluidine	13.58	152	29082	10.2665	ug/ml	98
85) 1,2-Diphenylhydrazine	13.71	77	99926	9.5065	ug/ml	97
88) 4,6-Dinitro-2-Methylphenol	13.64	198	11912	7.2433	ug/ml	66
89) n-Nitrosodiphenylamine	13.66	169	80354	9.9338	ug/ml	100
90) Sulfotepp	13.88	322	18975	12.6566	ug/ml	98
91) Sym-Trinitrobenzene	13.95	75	21972	7.1527	ug/ml	98
92) Diallate	13.99	86	35674	9.9016	ug/ml	86
93) Phenacetin	13.98	108	47040	9.8028	ug/ml	98
94) Phorate	14.00	75	60029	9.5636	ug/ml#	99
95) 4-Bromophenyl Phenyl Ether	14.06	248	30040	11.1307	ug/ml	99
96) Hexachlorobenzene	14.27	284	34693	12.5880	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D Vial: 4
Acq On : 22 Dec 2010 11:51 am Operator: CAA
Sample : WG352225-04 10ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55:34 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:29 2010
Response via : Initial Calibration
DataAcq Meth : BNA

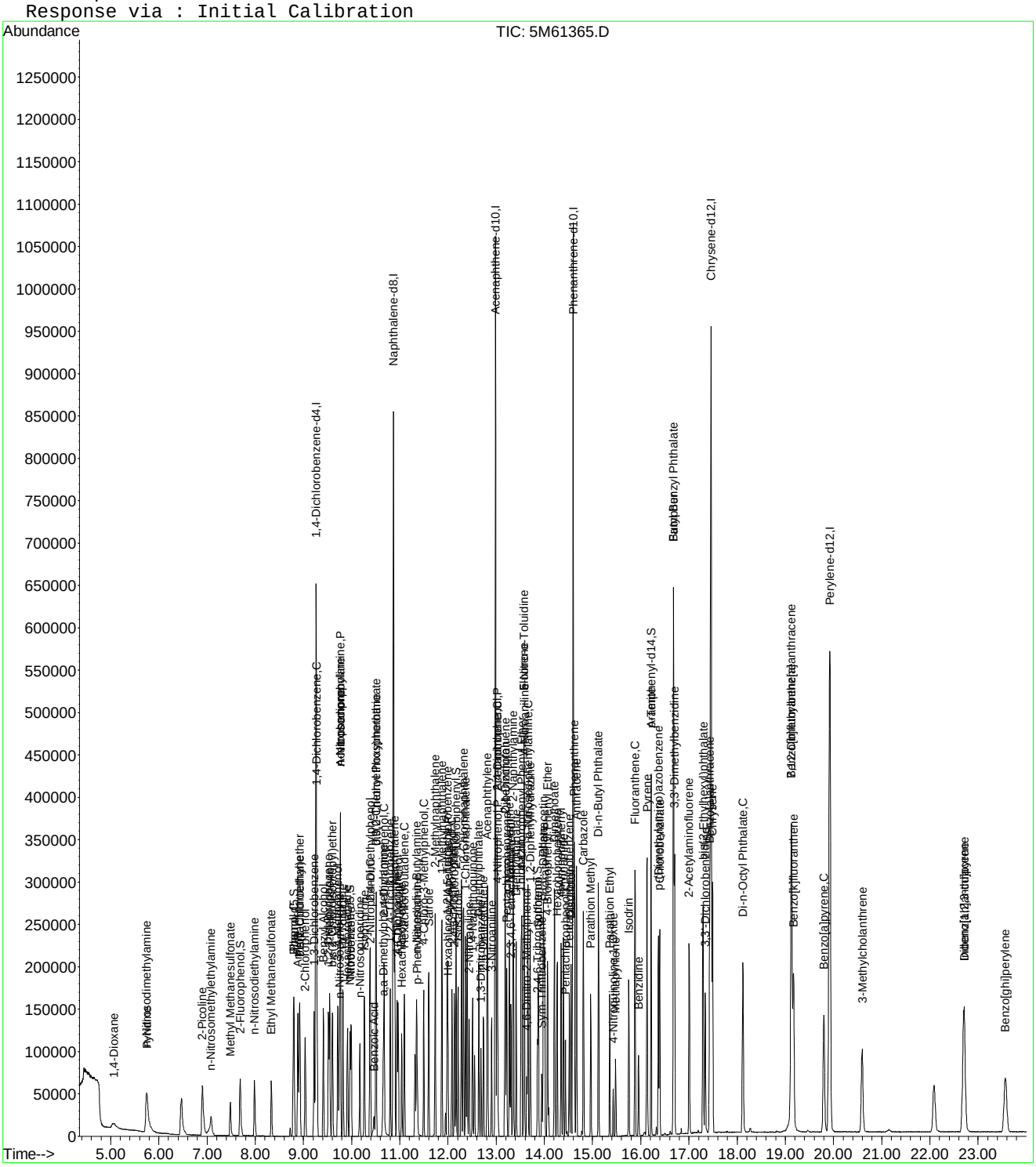
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.20	87	35233	12.9068 ug/ml	98
98)	4-Aminobiphenyl	14.35	169	91288	10.3158 ug/ml	98
99)	Pentachlorophenol	14.44	266	18392	10.7888 ug/ml	98
100)	Pronamide	14.39	173	43843	10.6416 ug/ml	100
101)	Pentachloronitrobenzene	14.52	237	13346	11.7693 ug/ml	97
102)	Disulfoton	14.55	88	47423	9.7998 ug/ml	99
103)	Phenanthrene	14.62	178	141748	10.4019 ug/ml	99
104)	Anthracene	14.67	178	141308	10.3190 ug/ml	100
105)	Carbazole	14.81	167	129087	10.3430 ug/ml	97
106)	Parathion Methyl	14.96	109	31692	13.2847 ug/ml	97
107)	Di-n-Butyl Phthalate	15.12	149	172925	11.1954 ug/ml	99
108)	Parathion Ethyl	15.36	97	19270	10.5132 ug/ml	95
109)	4-Nitroquinoline 1-Oxide	15.43	190	6601	8.5743 ug/ml	93
110)	Methapyrilene	15.48	58	35321	16.6296 ug/ml	98
111)	Isodrin	15.75	193	16474	10.6941 ug/ml	99
112)	Fluoranthene	15.88	202	148526	10.5587 ug/ml	98
114)	Benzidine	15.95	184	44404	9.1205 ug/ml	100
115)	Pyrene	16.13	202	159005	10.6327 ug/ml	99
116)	Aramite	16.22	185	10899	11.0635 ug/ml	96
118)	p-(Dimethylamino)azobenzen	16.37	225	32108	9.8604 ug/ml	95
119)	Chlorobenzilate	16.39	251	48443	11.0202 ug/ml	96
120)	Famphur	16.68	218	27947	202.2854 ug/ml#	6
121)	Butyl Benzyl Phthalate	16.68	149	81389	11.3682 ug/ml	97
122)	3,3'-Dimethylbenzidine	16.70	212	128442	10.3471 ug/ml	98
123)	2-Acetylaminofluorene	17.01	181	56353	9.1392 ug/ml	100
124)	bis(2-Ethylhexyl)phthalate	17.30	149	106995	10.6852 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.34	252	53014	10.7703 ug/ml	100
126)	Benzo[a]anthracene	17.43	228	153397	10.2098 ug/ml	99
127)	Chrysene	17.49	228	147263	10.3118 ug/ml	99
129)	Di-n-Octyl Phthalate	18.12	149	172540	8.5874 ug/ml	98
130)	7,12-Dimethylbenz[a]anthra	19.12	256	74903	9.2093 ug/ml	99
131)	Benzo[b]fluoranthene	19.13	252	168571	8.6921 ug/ml	98
132)	Benzo[k]fluoranthene	19.17	252	145165	9.7595 ug/ml	98
133)	Benzo[a]pyrene	19.80	252	134528	8.6820 ug/ml	97
134)	3-Methylcholanthrene	20.60	268	67666	8.3601 ug/ml	94
135)	Indeno[1,2,3-cd]pyrene	22.71	276	149329	9.4588 ug/ml	98
136)	Dibenz[ah]anthracene	22.71	278	122938	9.2575 ug/ml	98
137)	Benzo[ghi]perylene	23.57	276	114805	9.1789 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D Vial: 4
Acq On : 22 Dec 2010 11:51 am Operator: CAA
Sample : WG352225-04 10ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D          Vial: 4
Acq On    : 22 Dec 2010  11:51 am                   Operator: CAA
Sample    : WG352225-04 10ppm Megamix STD           Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Wed Dec 22 13:55:29 2010
Response via : Multiple Level Calibration
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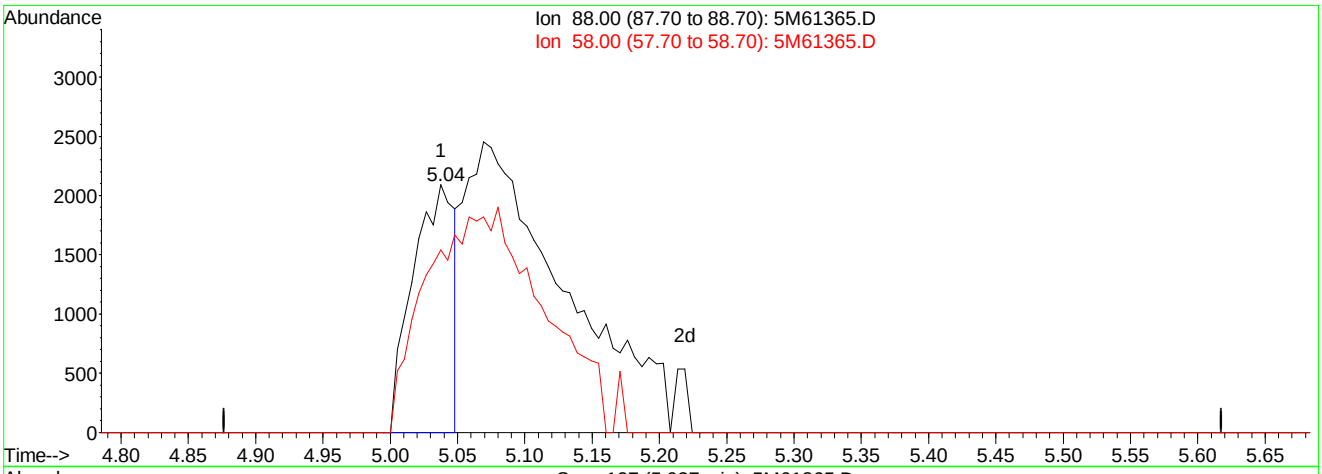
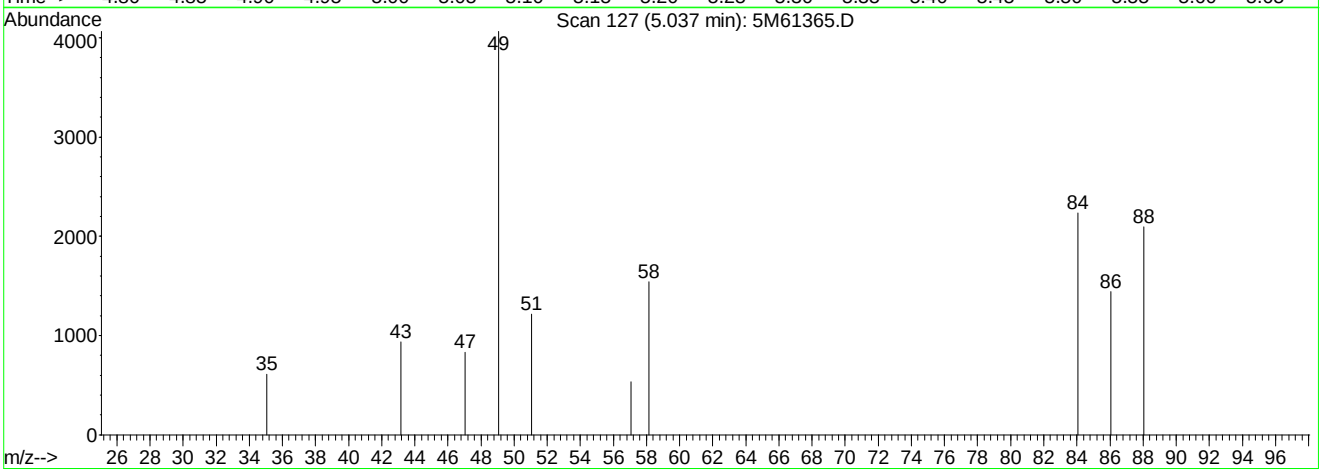




TIC: 5M61365.D

(2) 1,4-Dioxane

5.04min 2.67ug/ml

response 4524

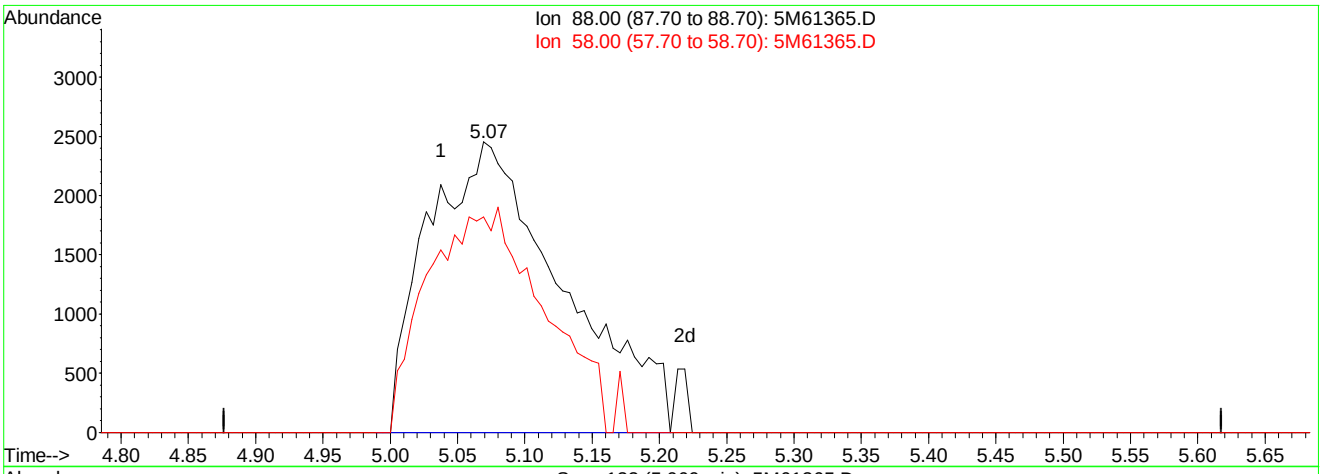
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

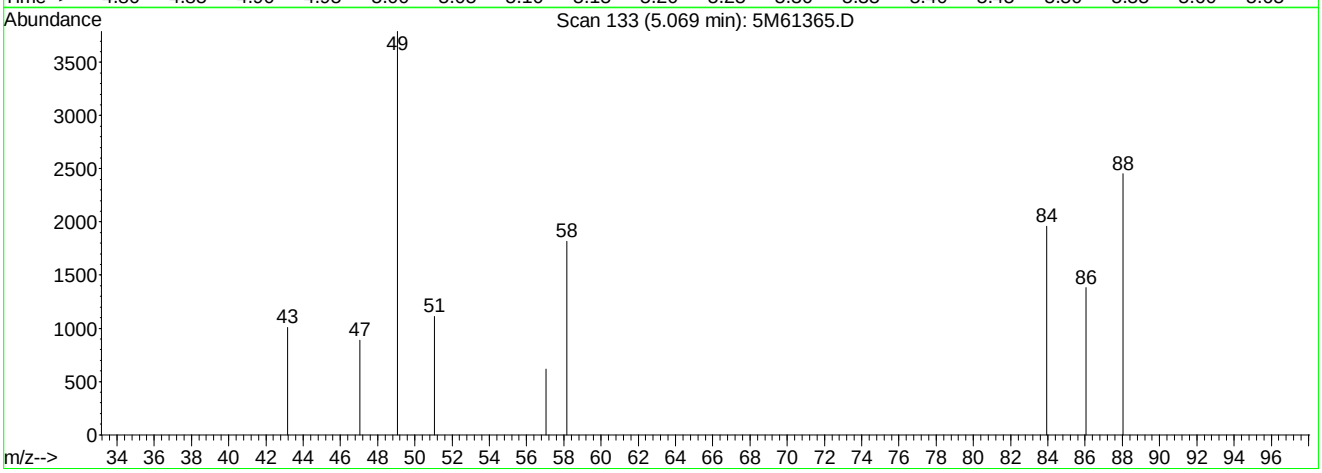
5M61365.D MEGAMIX.M Wed Dec 22 13:55:40 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61365.D Vial: 4
Acq On : 22 Dec 2010 11:51 am Operator: CAA
Sample : WG352225-04 10ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:55 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:29 2010
Response via : Multiple Level Calibration





TIC: 5M61365.D

(2) 1,4-Dioxane

5.07min 10.10ug/ml mint

response 17086

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

5M61365.D MEGAMIX.M Wed Dec 22 13:55:44 2010

Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:05 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	165656	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	605386	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	330170	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	567335	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	643896	40.00 ug/ml	0.00
128) Perylene-d12	19.93	264	667058	40.00 ug/ml	0.01

System Monitoring Compounds					
8) 2-Fluorophenol	7.69	112	71681	14.9524 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 14.95%#		
12) Phenol-d5	8.79	99	91751	14.4708 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 14.47%		
31) Nitrobenzene-d5	9.97	82	85973	14.9692 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 29.94%#		
59) 2-Fluorobiphenyl	12.17	172	178235	16.4772 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 32.96%#		
86) 2,4,6-Tribromophenol	13.86	330	31089	21.2142 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 21.21%		
117) p-Terphenyl-d14	16.22	244	179024	15.2828 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 30.56%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.05	88	34199m	17.8511 ug/ml	
3) n-Nitrosodimethylamine	5.75	74	46339	15.3207 ug/ml	100
4) Pyridine	5.76	79	76189	14.9661 ug/ml#	80
5) 2-Picoline	6.91	93	80603	14.7244 ug/ml	99
6) n-Nitrosomethylethylamine	7.09	88	33720	14.9816 ug/ml	98
7) Methyl Methanesulfonate	7.49	80	45908	15.1838 ug/ml	98
9) n-Nitrosodiethylamine	7.99	102	34517	14.4770 ug/ml	99
10) Ethyl Methanesulfonate	8.34	79	58323	14.3338 ug/ml	100
11) Aniline	8.88	93	118034	14.4352 ug/ml	99
13) Phenol	8.81	94	96826	14.6100 ug/ml	99
14) bis(2-Chloroethyl)ether	8.93	63	63849	16.3375 ug/ml	98
15) Pentachloroethane	8.92	167	33781	15.8636 ug/ml	99
16) 2-Chlorophenol	9.04	128	81354	15.1259 ug/ml	100
17) 1,3-Dichlorobenzene	9.22	146	91952	15.3751 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	95542	15.2798 ug/ml	99
19) Benzyl Alcohol	9.41	108	51588	14.6941 ug/ml	98
20) 1,2-Dichlorobenzene	9.52	146	88043	15.2722 ug/ml	100
21) 2-Methylphenol	9.55	107	62817	14.1269 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.60	45	151088	20.1173 ug/ml	100
23) 3-,4-Methylphenol	9.72	107	81447	13.9398 ug/ml	100
24) n-Nitrosopyrrolidine	9.75	100	33754	14.1867 ug/ml	88
25) n-Nitrosodipropylamine	9.77	70	59972	14.2210 ug/ml	98
26) Acetophenone	9.77	105	108322	14.3785 ug/ml	98
27) n-Nitrosomorpholine	9.77	56	54954	16.2089 ug/ml	98
28) o-Toluidine	9.82	106	119326	13.8179 ug/ml	99
29) Hexachloroethane	9.92	117	36203	15.0286 ug/ml	99
32) Nitrobenzene	10.00	77	86277	14.8328 ug/ml	99
33) n-Nitrosopiperidine	10.17	114	36800	15.5012 ug/ml	99
34) Isophorone	10.27	82	155407	14.9509 ug/ml	100
35) 2-Nitrophenol	10.39	139	46462	16.4227 ug/ml	98
36) 2,4-Dimethylphenol	10.38	122	74587	15.6656 ug/ml	97
37) 0,0,0-Triethyl Phosphoroth	10.51	198	43105	16.5640 ug/ml	99
38) bis(2-Chloroethoxy)methane	10.51	93	124348	15.6974 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:05 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.44	105	37736m	10.1264 ug/ml	
40)	2,4-Dichlorophenol	10.67	162	68640	16.1323 ug/ml	99
41)	a,a-Dimethylphenethylamine	10.67	58	223663	18.0441 ug/ml#	89
42)	1,2,4-Trichlorobenzene	10.80	180	77320	16.0996 ug/ml	100
43)	Naphthalene	10.89	128	240049	15.9182 ug/ml	100
44)	4-Chloroaniline	10.94	127	101926	15.9868 ug/ml	99
45)	2,6-Dichlorophenol	10.97	162	68988	16.0164 ug/ml	99
46)	Hexachloropropene	11.04	213	50271	16.3780 ug/ml	99
47)	Hexachlorobutadiene	11.10	225	46435	16.7138 ug/ml	99
48)	n-Nitrosodi-n-Butylamine	11.35	84	66883	16.9339 ug/ml	97
49)	p-Phenylenediamine	11.36	108	62856	18.5736 ug/ml	98
50)	4-Chloro-3-Methylphenol	11.50	107	66835	14.4412 ug/ml	98
51)	Safrole	11.60	162	64022	15.6202 ug/ml	98
52)	2-Methylnaphthalene	11.74	142	156554	15.9530 ug/ml	100
53)	1-Methylnaphthalene	11.88	142	157217	16.0139 ug/ml	99
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	77375	16.5651 ug/ml	100
56)	Hexachlorocyclopentadiene	12.00	237	42679	20.1077 ug/ml	99
57)	2,4,6-Trichlorophenol	12.08	196	50886	16.6450 ug/ml	100
58)	2,4,5-Trichlorophenol	12.13	196	53740	16.3794 ug/ml	100
60)	Isosafrole	12.21	162	66133	16.1415 ug/ml	98
61)	2-Chloronaphthalene	12.32	162	177653	16.3849 ug/ml	99
62)	1-Chloronaphthalene	12.37	162	143628	16.0059 ug/ml	99
63)	2-Nitroaniline	12.44	65	47639	15.2593 ug/ml	98
64)	1,4-Naphthoquinone	12.51	158	53944	21.1864 ug/ml	99
65)	Dimethylphthalate	12.64	163	172122	15.8674 ug/ml	99
66)	1,3-Dinitrobenzene	12.69	168	29987	16.5023 ug/ml	98
67)	2,6-Dinitrotoluene	12.74	165	39739	15.5771 ug/ml	97
68)	Acenaphthylene	12.82	152	248156	16.2397 ug/ml	99
69)	3-Nitroaniline	12.91	138	43500	15.7570 ug/ml	99
70)	2,4-Dinitrophenol	13.02	184	15929	14.6170 ug/ml	54
71)	Acenaphthene	13.02	154	155838	16.2491 ug/ml	98
72)	4-Nitrophenol	13.04	65	34239	13.5487 ug/ml	99
73)	2,4-Dinitrotoluene	13.18	165	55704	16.6377 ug/ml	99
74)	Pentachlorobenzene	13.22	250	73740	17.6276 ug/ml	98
75)	Dibenzofuran	13.19	168	220197	16.7534 ug/ml	99
76)	2,3,4,6-Tetrachlorophenol	13.31	232	45192	16.4049 ug/ml	99
77)	1-Naphthylamine	13.27	143	148548	16.0975 ug/ml	99
78)	2-Naphthylamine	13.35	143	134211	14.6489 ug/ml	98
79)	Diethylphthalate	13.41	149	175545	15.8810 ug/ml	100
80)	Thionazin	13.51	107	28550	15.6696 ug/ml	99
81)	Fluorene	13.57	166	179075	15.8466 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.53	204	89305	16.5198 ug/ml	99
83)	4-Nitroaniline	13.59	138	47036	23.6566 ug/ml	98
84)	5-Nitro-o-Toluidine	13.58	152	53316	16.2343 ug/ml	99
85)	1,2-Diphenylhydrazine	13.71	77	179156	14.9549 ug/ml	99
88)	4,6-Dinitro-2-Methylphenol	13.64	198	26900	14.3936 ug/ml#	49
89)	n-Nitrosodiphenylamine	13.66	169	151222	16.4670 ug/ml	100
90)	Sulfotepp	13.88	322	35886	20.1772 ug/ml	98
91)	Sym-Trinitrobenzene	13.95	75	42757	12.1329 ug/ml	98
92)	Diallate	13.99	86	65265	15.9619 ug/ml	92
93)	Phenacetin	13.98	108	86692	16.0062 ug/ml	98
94)	Phorate	14.01	75	109361	15.3430 ug/ml#	99
95)	4-Bromophenyl Phenyl Ether	14.07	248	54955	17.6078 ug/ml	99
96)	Hexachlorobenzene	14.27	284	63817	19.5827 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:05 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Initial Calibration
DataAcq Meth : BNA

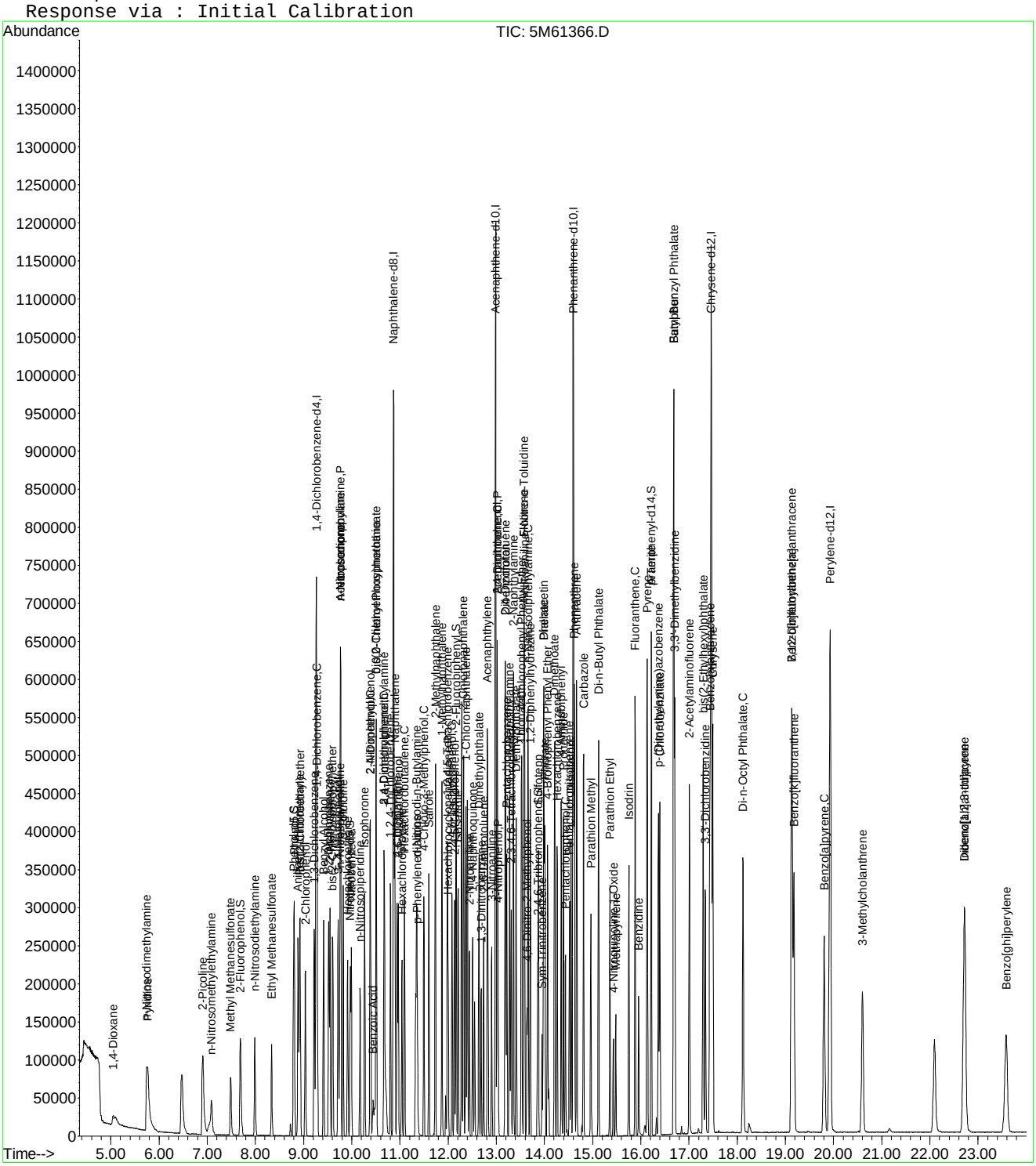
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.20	87	63113	20.3140 ug/ml	99
98)	4-Aminobiphenyl	14.35	169	170461	16.9396 ug/ml	99
99)	Pentachlorophenol	14.44	266	36274	18.0501 ug/ml	100
100)	Pronamide	14.40	173	81555	17.2885 ug/ml	100
101)	Pentachloronitrobenzene	14.52	237	24078	18.2190 ug/ml	98
102)	Disulfoton	14.55	88	87480	15.8829 ug/ml	99
103)	Phenanthrene	14.62	178	255377	16.4883 ug/ml	99
104)	Anthracene	14.67	178	254164	16.3674 ug/ml	100
105)	Carbazole	14.81	167	236408	16.6486 ug/ml	97
106)	Parathion Methyl	14.96	109	54955	19.9650 ug/ml	97
107)	Di-n-Butyl Phthalate	15.12	149	303045	17.1352 ug/ml	100
108)	Parathion Ethyl	15.36	97	35177	16.7479 ug/ml	97
109)	4-Nitroquinoline 1-Oxide	15.43	190	15408	17.8164 ug/ml	96
110)	Methapyrilene	15.48	58	57482	22.4965 ug/ml	99
111)	Isodrin	15.75	193	29681	16.7615 ug/ml	98
112)	Fluoranthene	15.88	202	267404	16.7169 ug/ml	98
114)	Benzidine	15.96	184	87786	16.0729 ug/ml	100
115)	Pyrene	16.13	202	290482	16.7716 ug/ml	99
116)	Aramite	16.22	185	18567	16.2787 ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.37	225	58839	15.6821 ug/ml	97
119)	Chlorobenzilate	16.39	251	88015	16.9937 ug/ml	98
120)	Famphur	16.68	218	20738	129.5057 ug/ml#	14
121)	Butyl Benzyl Phthalate	16.69	149	130500	15.5767 ug/ml	97
122)	3,3'-Dimethylbenzidine	16.70	212	230431	16.4951 ug/ml	99
123)	2-Acetylaminofluorene	17.01	181	108683	15.4209 ug/ml	100
124)	bis(2-Ethylhexyl)phthalate	17.30	149	190727	16.3373 ug/ml	100
125)	3,3'-Dichlorobenzidine	17.34	252	101370	17.6372 ug/ml	99
126)	Benzo[a]anthracene	17.44	228	279056	16.0747 ug/ml	100
127)	Chrysene	17.49	228	266430	16.1459 ug/ml	99
129)	Di-n-Octyl Phthalate	18.12	149	311328	13.9243 ug/ml	100
130)	7,12-Dimethylbenz[a]anthra	19.13	256	133153	14.5543 ug/ml	99
131)	Benzo[b]fluoranthene	19.14	252	286917	13.1270 ug/ml	99
132)	Benzo[k]fluoranthene	19.18	252	247494	14.8747 ug/ml	99
133)	Benzo[a]pyrene	19.81	252	246039	14.2243 ug/ml	99
134)	3-Methylcholanthrene	20.60	268	127937	14.2807 ug/ml	98
135)	Indeno[1,2,3-cd]pyrene	22.72	276	286511	16.0748 ug/ml	98
136)	Dibenz[ah]anthracene	22.72	278	237881	15.9155 ug/ml	99
137)	Benzo[ghi]perylene	23.59	276	216831	15.4608 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: MEGAMIX.RES

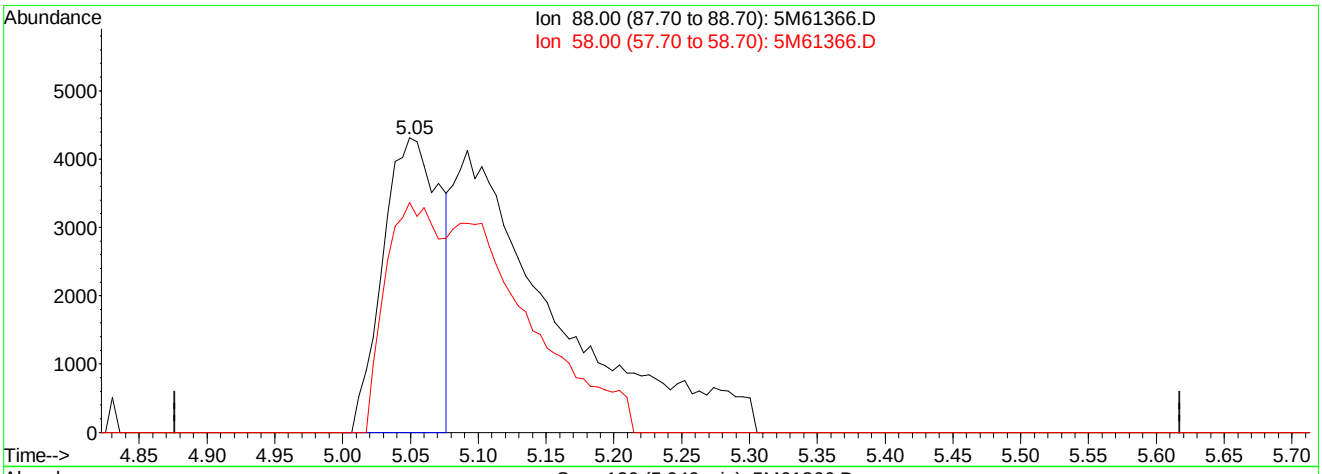
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration

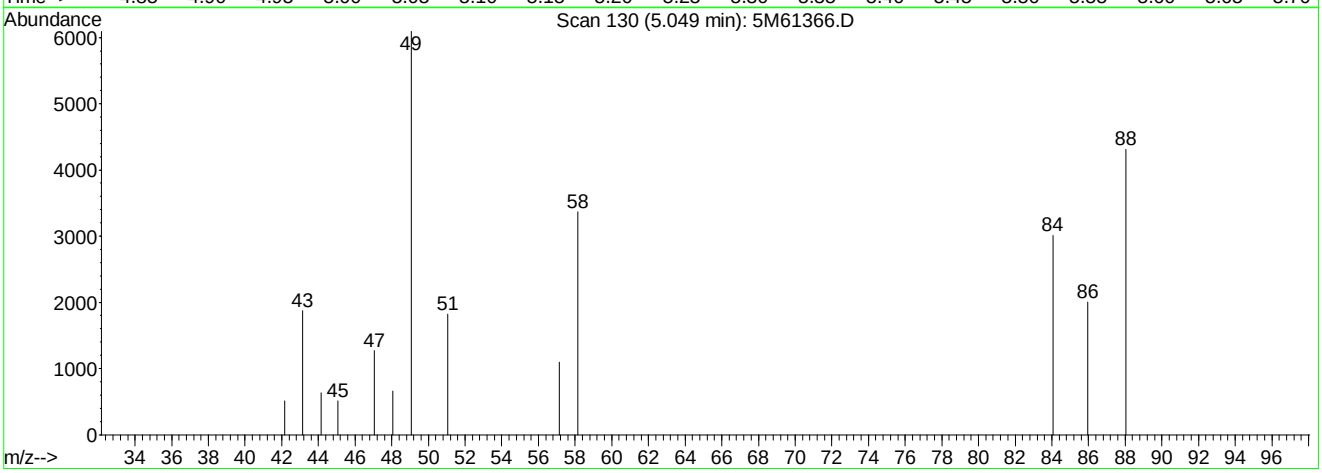


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Multiple Level Calibration





TIC: 5M61366.D

(2) 1,4-Dioxane

5.05min 6.58ug/ml

response 12615

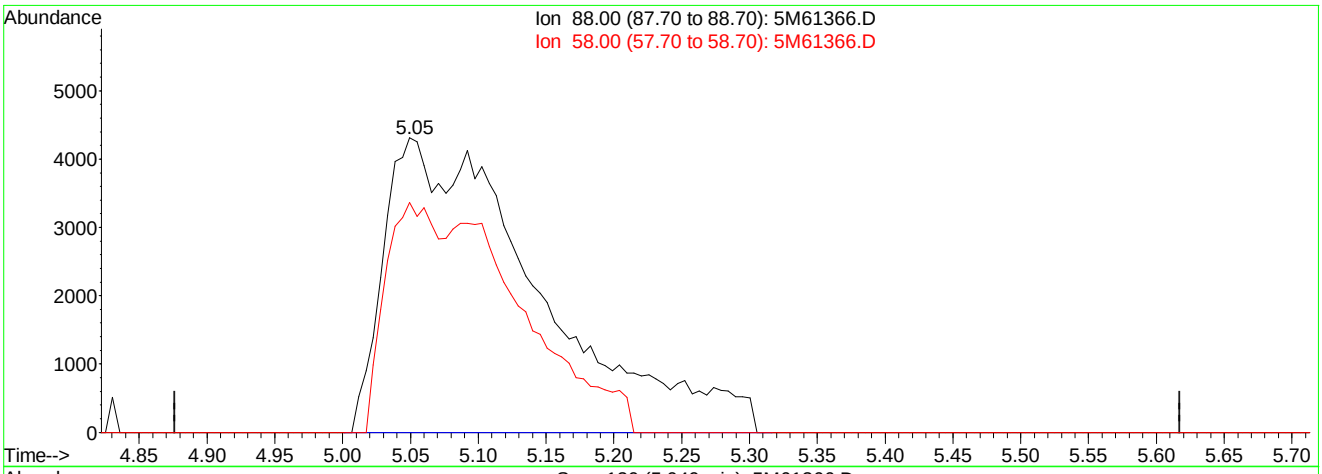
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	69.01
0.00	0.00	0.00
0.00	0.00	0.00

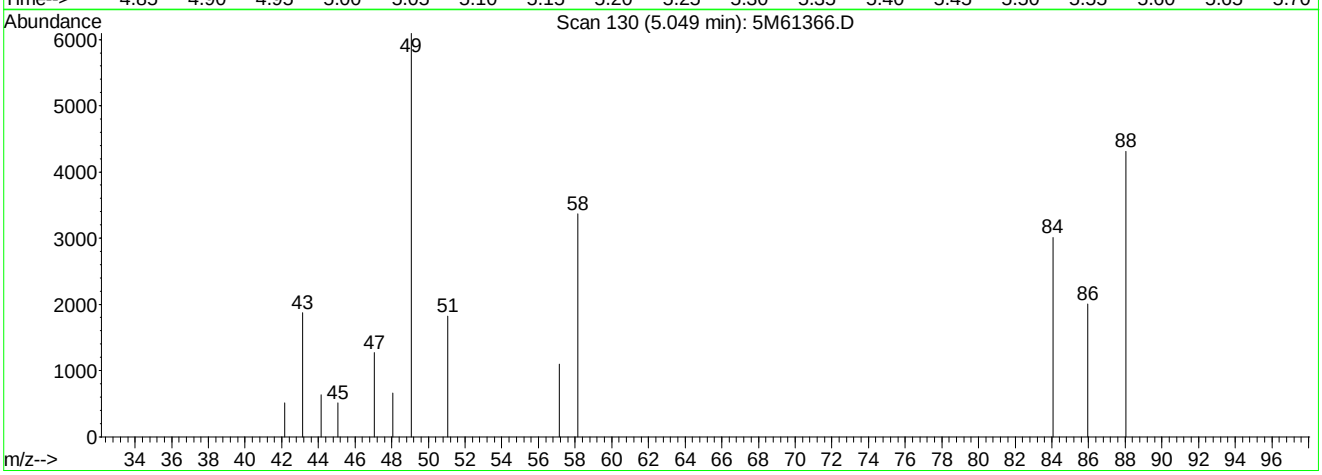
5M61366.D MEGAMIX.M Wed Dec 22 13:56:10 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Multiple Level Calibration





TIC: 5M61366.D

(2) 1,4-Dioxane

5.05min 17.85ug/ml mint

response 34199

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	25.46#
0.00	0.00	0.00
0.00	0.00	0.00

5M61366.D MEGAMIX.M Wed Dec 22 13:56:13 2010

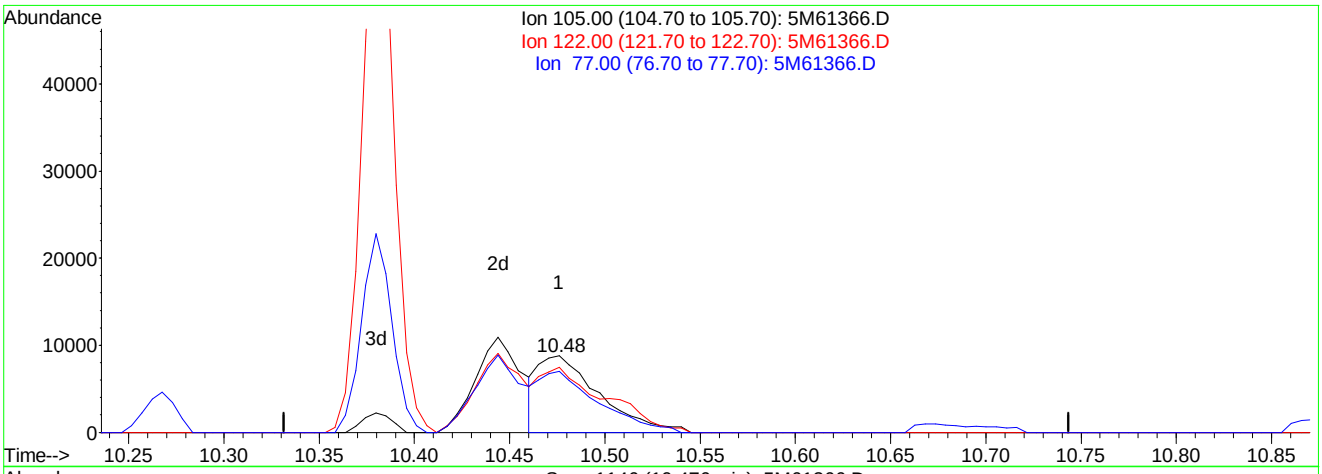
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

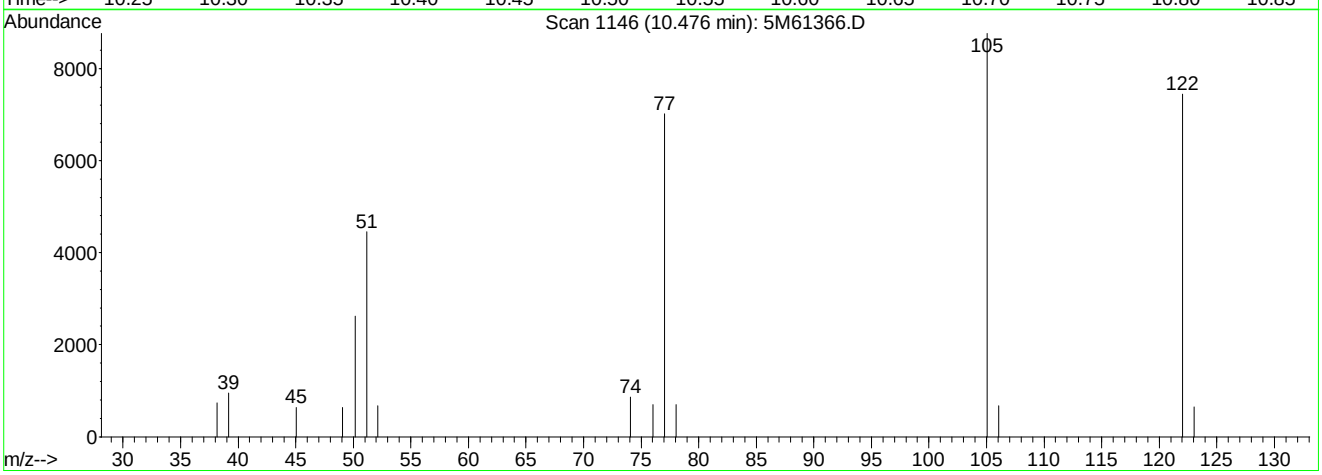
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Multiple Level Calibration





TIC: 5M61366.D

(39) Benzoic Acid

10.48min 5.29ug/ml

response 19696

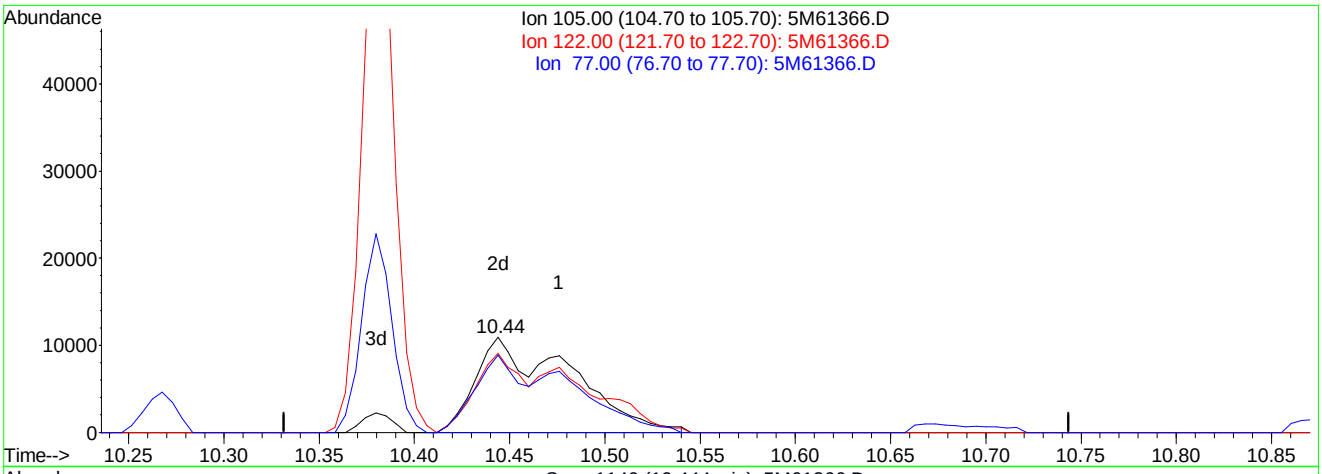
Ion	Exp%	Act%
105.00	100	100
122.00	65.50	0.00#
77.00	77.80	77.93
0.00	0.00	0.00

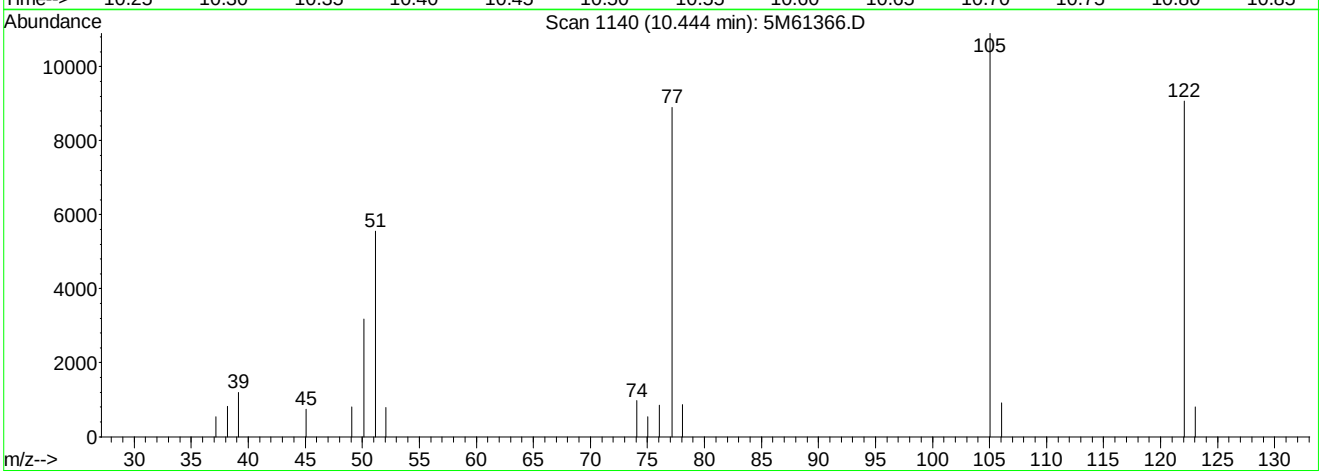
5M61366.D MEGAMIX.M Wed Dec 22 13:56:18 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61366.D Vial: 5
Acq On : 22 Dec 2010 12:25 pm Operator: CAA
Sample : WG352225-05 15ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:55:59 2010
Response via : Multiple Level Calibration





TIC: 5M61366.D

(39) Benzoic Acid

10.44min 10.13ug/ml mint

response 37736

Ion	Exp%	Act%
105.00	100	100
122.00	65.50	0.00#
77.00	77.80	40.68#
0.00	0.00	0.00

5M61366.D MEGAMIX.M Wed Dec 22 13:56:22 2010

Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:38 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	158510	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	572889	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	314892	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	548634	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	601455	40.00 ug/ml	0.00
128) Perylene-d12	19.92	264	623566	40.00 ug/ml	0.00

System Monitoring Compounds					
8) 2-Fluorophenol	7.69	112	121095	26.5048 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 26.50%		
12) Phenol-d5	8.80	99	154345	25.6480 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 25.65%		
31) Nitrobenzene-d5	9.97	82	143884	26.6502 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 53.30%		
59) 2-Fluorobiphenyl	12.17	172	291553	28.0289 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 56.06%		
86) 2,4,6-Tribromophenol	13.86	330	52169	34.8142 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 34.81%		
117) p-Terphenyl-d14	16.22	244	280848	25.8208 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 51.64%		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.09	88	53691m	29.4176 ug/ml	
3) n-Nitrosodimethylamine	5.76	74	78929	27.4450 ug/ml	98
4) Pyridine	5.76	79	130483	27.1096 ug/ml	95
5) 2-Picoline	6.91	93	134463	26.0191 ug/ml	99
6) n-Nitrosomethylethylamine	7.09	88	55975	26.4009 ug/ml	97
7) Methyl Methanesulfonate	7.49	80	74514	26.2106 ug/ml	99
9) n-Nitrosodiethylamine	7.99	102	58063	25.8497 ug/ml	98
10) Ethyl Methanesulfonate	8.34	79	97990	25.5232 ug/ml	100
11) Aniline	8.89	93	196944	25.4424 ug/ml	99
13) Phenol	8.81	94	162999	25.8275 ug/ml	99
14) bis(2-Chloroethyl)ether	8.93	63	105482	27.7451 ug/ml	100
15) Pentachloroethane	8.92	167	55786	27.2767 ug/ml	100
16) 2-Chlorophenol	9.04	128	137970	26.8301 ug/ml	100
17) 1,3-Dichlorobenzene	9.23	146	153214	26.8258 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	160580	26.8815 ug/ml	100
19) Benzyl Alcohol	9.42	108	87247	26.0641 ug/ml	99
20) 1,2-Dichlorobenzene	9.52	146	146441	26.5643 ug/ml	100
21) 2-Methylphenol	9.56	107	106460	25.4272 ug/ml	100
22) bis(2-Chloroisopropyl)ethe	9.60	45	251446	32.7616 ug/ml	100
23) 3-,4-Methylphenol	9.72	107	136916	24.8152 ug/ml	100
24) n-Nitrosopyrrolidine	9.75	100	56595	25.0353 ug/ml	95
25) n-Nitrosodipropylamine	9.78	70	94546	23.7500 ug/ml	97
26) Acetophenone	9.77	105	166238	23.3686 ug/ml	100
27) n-Nitrosomorpholine	9.77	56	86414	26.3476 ug/ml	99
28) o-Toluidine	9.82	106	204046	25.1507 ug/ml	100
29) Hexachloroethane	9.91	117	61103	26.5595 ug/ml	99
32) Nitrobenzene	9.99	77	143368	26.2718 ug/ml	100
33) n-Nitrosopiperidine	10.18	114	62052	27.6698 ug/ml	98
34) Isophorone	10.27	82	262873	26.8982 ug/ml	100
35) 2-Nitrophenol	10.39	139	78821	29.0233 ug/ml	99
36) 2,4-Dimethylphenol	10.38	122	126940	28.0799 ug/ml	99
37) 0,0,0-Triethyl Phosphoroth	10.51	198	66268	26.6605 ug/ml	100
38) bis(2-Chloroethoxy)methane	10.51	93	194494	25.9414 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:38 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.47	105	83724	23.3932 ug/ml	96
40)	2,4-Dichlorophenol	10.68	162	116048	28.6294 ug/ml	100
41)	a,a-Dimethylphenethylamine	10.69	58	384341m	31.6464 ug/ml	
42)	1,2,4-Trichlorobenzene	10.81	180	131409	28.7229 ug/ml	99
43)	Naphthalene	10.90	128	397755	27.8288 ug/ml	100
44)	4-Chloroaniline	10.94	127	172000	28.3379 ug/ml	100
45)	2,6-Dichlorophenol	10.97	162	114614	27.9676 ug/ml	100
46)	Hexachloropropene	11.04	213	87140	29.7847 ug/ml	99
47)	Hexachlorobutadiene	11.09	225	77787	29.1849 ug/ml	99
48)	n-Nitrosodi-n-Butylamine	11.35	84	114242	30.9190 ug/ml	99
49)	p-Phenylenediamine	11.37	108	100346	31.7127 ug/ml	99
50)	4-Chloro-3-Methylphenol	11.50	107	112558	26.0574 ug/ml	98
51)	Safrole	11.60	162	107244	27.6541 ug/ml	98
52)	2-Methylnaphthalene	11.74	142	258978	27.8045 ug/ml	100
53)	1-Methylnaphthalene	11.87	142	261300	28.0419 ug/ml	100
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	124946	27.7796 ug/ml	100
56)	Hexachlorocyclopentadiene	12.00	237	71774	34.7767 ug/ml	100
57)	2,4,6-Trichlorophenol	12.08	196	85745	28.9656 ug/ml	99
58)	2,4,5-Trichlorophenol	12.14	196	91372	28.8623 ug/ml	99
60)	Isosafrole	12.21	162	110674	28.1070 ug/ml	98
61)	2-Chloronaphthalene	12.32	162	286079	27.4546 ug/ml	100
62)	1-Chloronaphthalene	12.37	162	237893	27.6670 ug/ml	99
63)	2-Nitroaniline	12.44	65	80732	27.0204 ug/ml	98
64)	1,4-Naphthoquinone	12.51	158	81651	33.4146 ug/ml	100
65)	Dimethylphthalate	12.64	163	284885	27.4779 ug/ml	100
66)	1,3-Dinitrobenzene	12.69	168	51321	29.0535 ug/ml	99
67)	2,6-Dinitrotoluene	12.74	165	68824	28.2203 ug/ml	99
68)	Acenaphthylene	12.82	152	400829	27.3941 ug/ml	99
69)	3-Nitroaniline	12.91	138	74466	27.8034 ug/ml	98
70)	2,4-Dinitrophenol	13.02	184	30087	28.0062 ug/ml	92
71)	Acenaphthene	13.02	154	245025	26.6392 ug/ml	100
72)	4-Nitrophenol	13.04	65	59617	24.7424 ug/ml	100
73)	2,4-Dinitrotoluene	13.18	165	87068	26.8596 ug/ml	98
74)	Pentachlorobenzene	13.22	250	117419	28.6550 ug/ml	99
75)	Dibenzofuran	13.19	168	335371	26.5419 ug/ml	100
76)	2,3,4,6-Tetrachlorophenol	13.31	232	76471	28.6167 ug/ml	99
77)	1-Naphthylamine	13.28	143	250142	28.2934 ug/ml	99
78)	2-Naphthylamine	13.35	143	229789	26.1978 ug/ml	99
79)	Diethylphthalate	13.42	149	287259	27.1650 ug/ml	100
80)	Thionazin	13.52	107	45377	26.1427 ug/ml	99
81)	Fluorene	13.58	166	277611	25.7333 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.54	204	135650	26.1163 ug/ml	99
83)	4-Nitroaniline	13.59	138	75886	38.9908 ug/ml	98
84)	5-Nitro-o-Toluidine	13.59	152	82911	26.1798 ug/ml	99
85)	1,2-Diphenylhydrazine	13.71	77	295203	26.0675 ug/ml	99
88)	4,6-Dinitro-2-Methylphenol	13.64	198	49534	26.5597 ug/ml	97
89)	n-Nitrosodiphenylamine	13.66	169	242726	27.1279 ug/ml	99
90)	Sulfotepp	13.88	322	56358	30.9900 ug/ml	98
91)	Sym-Trinitrobenzene	13.95	75	72765	21.0960 ug/ml	99
92)	Diallate	13.99	86	103532	26.0026 ug/ml	94
93)	Phenacetin	13.98	108	135621	25.8461 ug/ml	99
94)	Phorate	14.01	75	178430	25.7300 ug/ml#	99
95)	4-Bromophenyl Phenyl Ether	14.07	248	88185	28.4482 ug/ml	100
96)	Hexachlorobenzene	14.27	284	100648	30.4129 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56:38 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Initial Calibration
DataAcq Meth : BNA

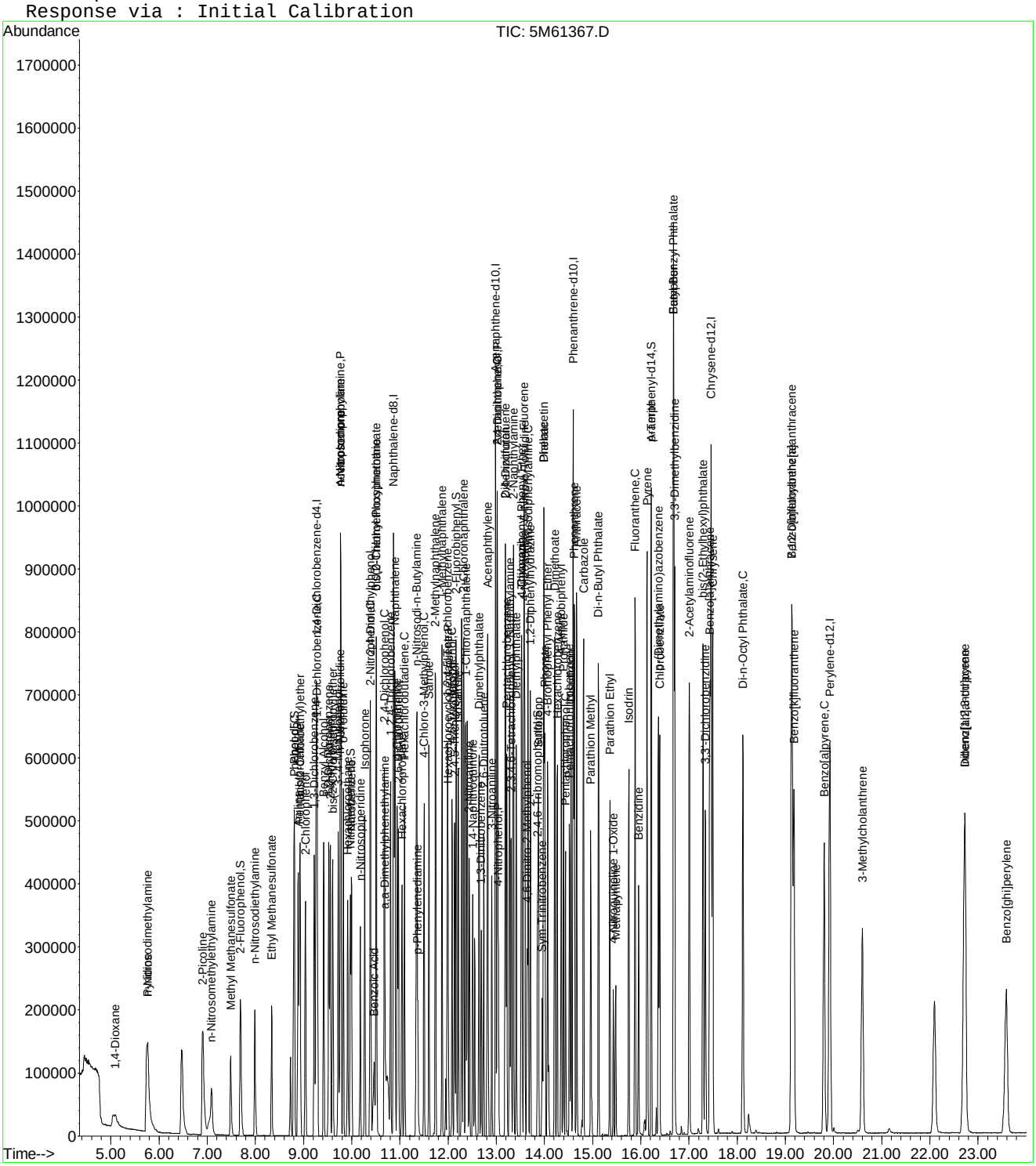
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.21	87	94778	31.3709 ug/ml	99
98)	4-Aminobiphenyl	14.35	169	288472	29.4545 ug/ml	100
99)	Pentachlorophenol	14.44	266	63511	31.0660 ug/ml	100
100)	Pronamide	14.40	173	129031	27.8744 ug/ml	100
101)	Pentachloronitrobenzene	14.52	237	39632	30.0565 ug/ml	98
102)	Disulfoton	14.55	88	145200	27.1127 ug/ml	99
103)	Phenanthrene	14.62	178	394273	26.2096 ug/ml	100
104)	Anthracene	14.67	178	400055	26.6022 ug/ml	100
105)	Carbazole	14.81	167	377071	27.2899 ug/ml	99
106)	Parathion Methyl	14.96	109	90273	33.4969 ug/ml	98
107)	Di-n-Butyl Phthalate	15.12	149	480915	27.8302 ug/ml	100
108)	Parathion Ethyl	15.36	97	58051	28.2119 ug/ml	99
109)	4-Nitroquinoline 1-Oxide	15.43	190	29560	35.1350 ug/ml	99
110)	Methapyrilene	15.48	58	86362	33.2306 ug/ml	100
111)	Isodrin	15.75	193	48407	27.8104 ug/ml	98
112)	Fluoranthene	15.88	202	420360	27.0247 ug/ml	99
114)	Benzidine	15.95	184	176796	35.1367 ug/ml	100
115)	Pyrene	16.13	202	442252	27.2349 ug/ml	99
116)	Aramite	16.22	185	29583	27.9622 ug/ml	100
118)	p-(Dimethylamino)azobenzen	16.37	225	99229	28.3739 ug/ml	99
119)	Chlorobenzilate	16.39	251	137850	27.9470 ug/ml	97
120)	Famphur	16.68	218	12061	80.6339 ug/ml#	35
121)	Butyl Benzyl Phthalate	16.68	149	202048	25.9250 ug/ml	99
122)	3,3'-Dimethylbenzidine	16.70	212	386186	30.0501 ug/ml	99
123)	2-Acetylaminofluorene	17.01	181	181094	27.6368 ug/ml	100
124)	bis(2-Ethylhexyl)phthalate	17.29	149	314025	28.5635 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.34	252	166146	30.3206 ug/ml	100
126)	Benzo[a]anthracene	17.43	228	434951	26.7630 ug/ml	100
127)	Chrysene	17.49	228	408876	26.5127 ug/ml	100
129)	Di-n-Octyl Phthalate	18.12	149	535161	26.2122 ug/ml	99
130)	7,12-Dimethylbenz[a]anthra	19.13	256	208832	24.6756 ug/ml	100
131)	Benzo[b]fluoranthene	19.14	252	497325	24.7591 ug/ml	99
132)	Benzo[k]fluoranthene	19.18	252	419549	27.5152 ug/ml	99
133)	Benzo[a]pyrene	19.81	252	431312	27.1404 ug/ml	100
134)	3-Methylcholanthrene	20.60	268	224822	27.3668 ug/ml	99
135)	Indeno[1,2,3-cd]pyrene	22.73	276	500647	30.0535 ug/ml	99
136)	Dibenz[ah]anthracene	22.72	278	417932	29.9633 ug/ml	99
137)	Benzo[ghi]perylene	23.59	276	376116	28.9458 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

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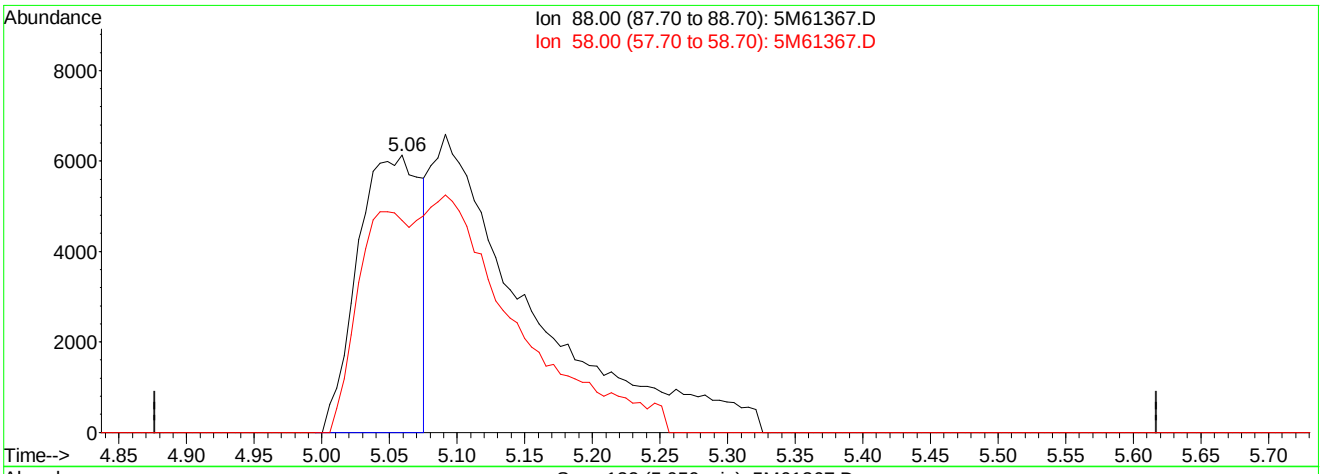
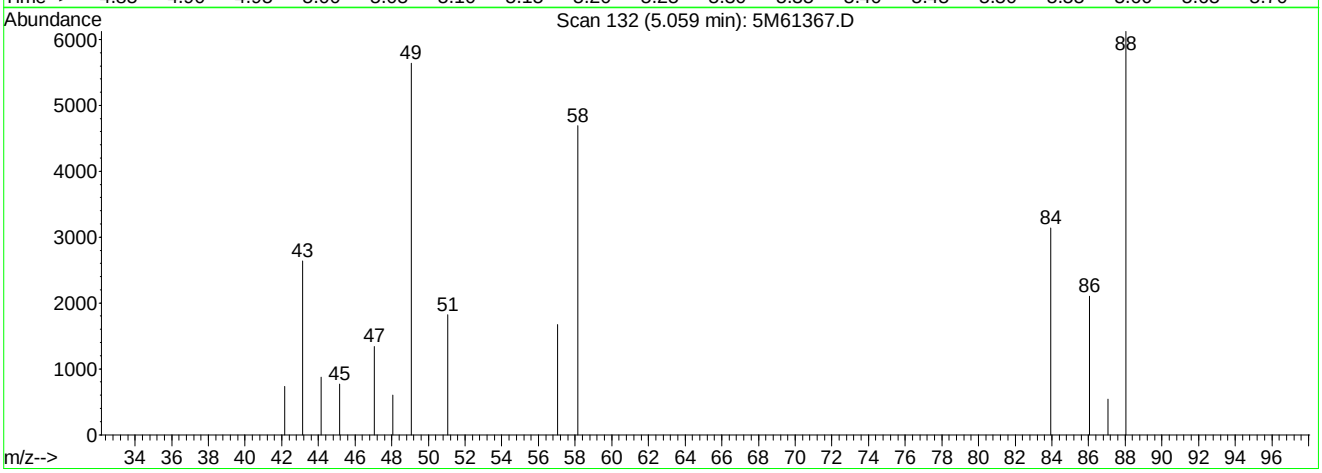
Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D          Vial: 6
Acq On    : 22 Dec 2010   1:00 pm                   Operator: CAA
Sample    : WG352225-06 25ppm Megamix STD           Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Wed Dec 22 13:56:34 2010
Response via : Multiple Level Calibration
```





TIC: 5M61367.D

(2) 1,4-Dioxane

5.06min 10.88ug/ml

response 19863

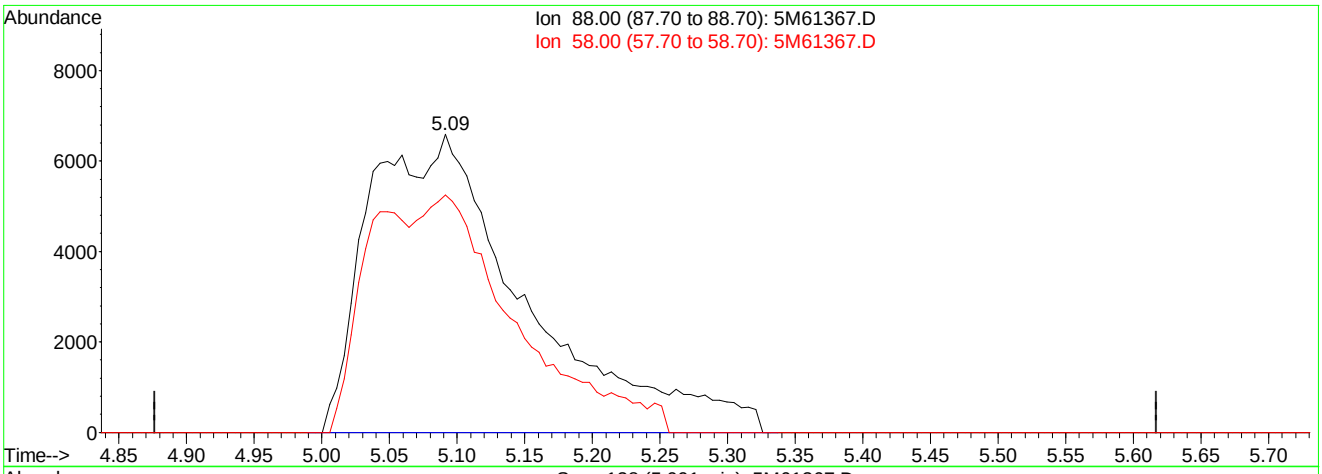
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	64.17
0.00	0.00	0.00
0.00	0.00	0.00

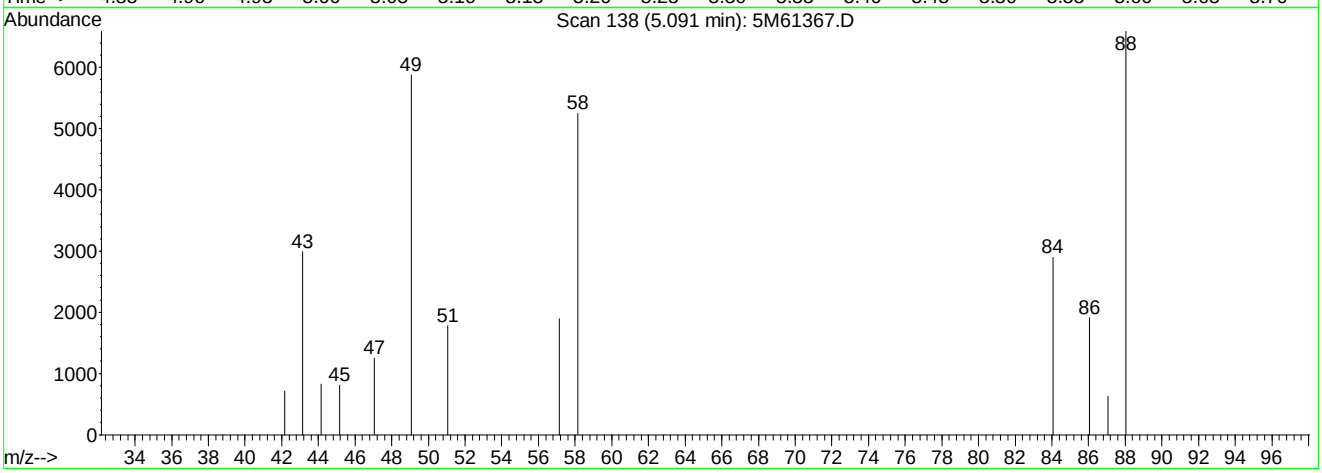
5M61367.D MEGAMIX.M Wed Dec 22 13:56:43 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Multiple Level Calibration





TIC: 5M61367.D

(2) 1,4-Dioxane

5.09min 29.42ug/ml mint

response 53691

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	23.74#
0.00	0.00	0.00
0.00	0.00	0.00

5M61367.D MEGAMIX.M Wed Dec 22 13:56:46 2010

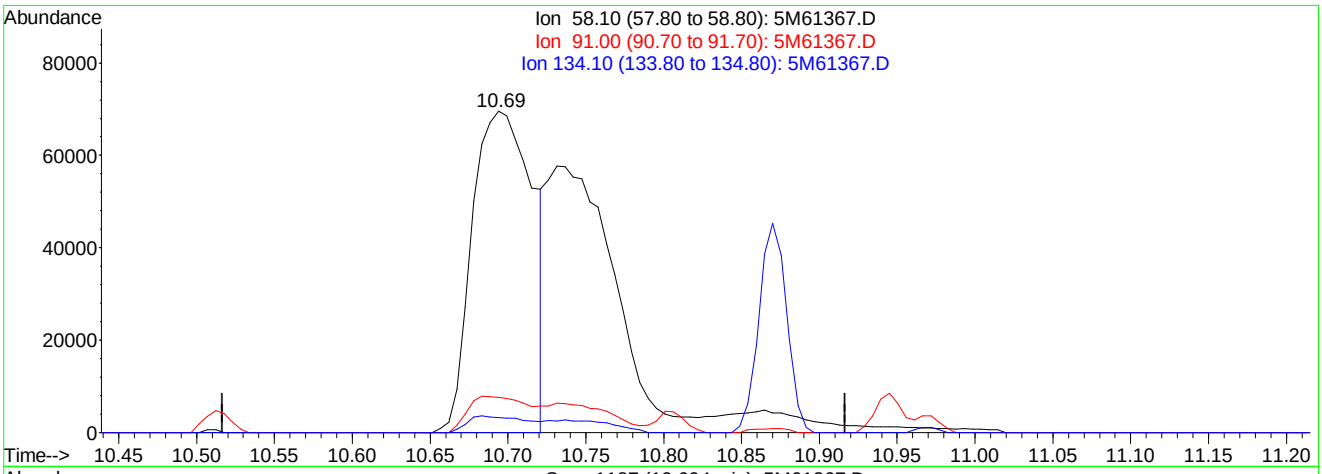
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

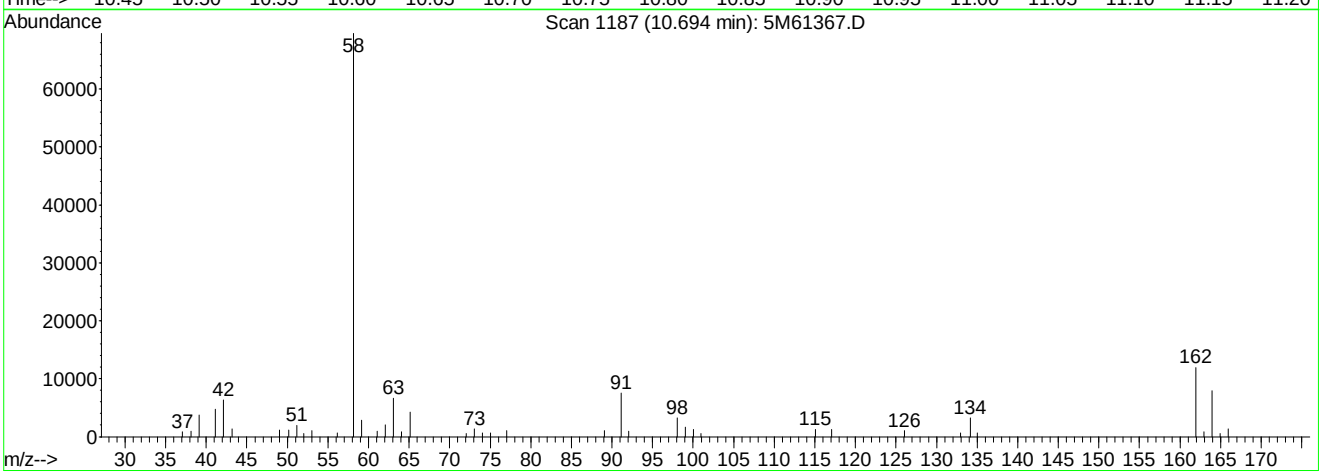
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Multiple Level Calibration





TIC: 5M61367.D

(41) a,a-Dimethylphenethylamine

10.69min 15.43ug/ml

response 187336

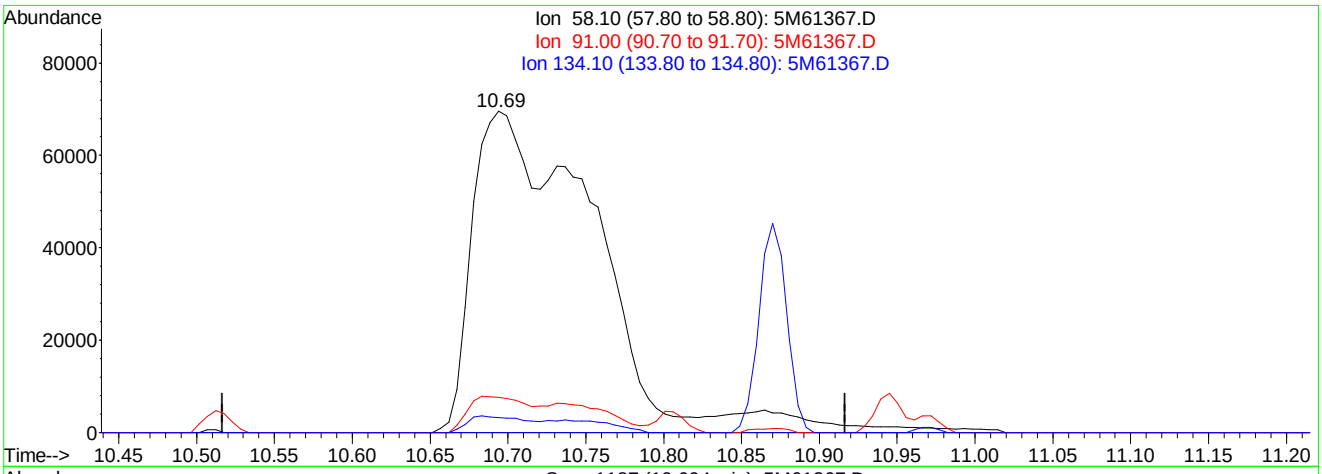
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	12.46#
134.10	2.40	5.01#
0.00	0.00	0.00

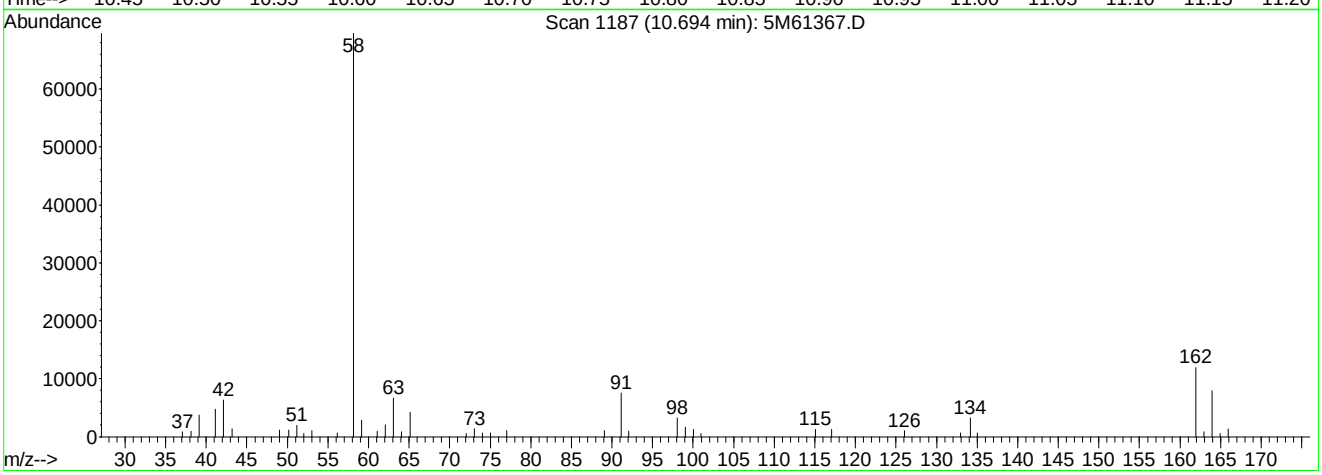
5M61367.D MEGAMIX.M Wed Dec 22 13:56:53 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61367.D Vial: 6
Acq On : 22 Dec 2010 1:00 pm Operator: CAA
Sample : WG352225-06 25ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:56 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:56:34 2010
Response via : Multiple Level Calibration





TIC: 5M61367.D

(41) a,a-Dimethylphenethylamine

10.69min 31.65ug/ml mint

response 384341

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	6.08
134.10	2.40	2.44
0.00	0.00	0.00

5M61367.D MEGAMIX.M Wed Dec 22 13:56:55 2010

Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:58:57 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	178726	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	660357	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	365399	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	623551	40.00 ug/ml	0.00
113) Chrysene-d12	17.47	240	694932	40.00 ug/ml	0.01
128) Perylene-d12	19.95	264	694443	40.00 ug/ml	0.03

System Monitoring Compounds

8) 2-Fluorophenol	7.70	112	480144	92.9999 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 93.00%		
12) Phenol-d5	8.81	99	548465	80.8809 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 94		Recovery = 80.88%		
31) Nitrobenzene-d5	9.98	82	513870	82.3261 ug/ml	0.01
Spiked Amount 50.000	Range 35 - 114		Recovery = 164.66%#		
59) 2-Fluorobiphenyl	12.17	172	958816	78.2295 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 156.46%#		
86) 2,4,6-Tribromophenol	13.87	330	147138	78.7304 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 78.73%		
117) p-Terphenyl-d14	16.22	244	883481	70.4510 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 140.90%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	5.04	88	189260m	91.9588 ug/ml	
3) n-Nitrosodimethylamine	5.77	74	311490	95.7574 ug/ml	91
4) Pyridine	5.77	79	505820m	93.4785 ug/ml	
5) 2-Picoline	6.91	93	527990	90.9649 ug/ml	99
6) n-Nitrosomethylethylamine	7.09	88	221724	93.5423 ug/ml	91
7) Methyl Methanesulfonate	7.50	80	273132	86.1168 ug/ml	99
9) n-Nitrosodiethylamine	8.00	102	229074	90.9235 ug/ml	91
10) Ethyl Methanesulfonate	8.35	79	374452	86.9186 ug/ml	98
11) Aniline	8.89	93	707909	81.2469 ug/ml	100
13) Phenol	8.83	94	577247	81.0649 ug/ml	97
14) bis(2-Chloroethyl)ether	8.94	63	363976	83.1258 ug/ml	99
15) Pentachloroethane	8.92	167	176391	75.7918 ug/ml	98
16) 2-Chlorophenol	9.04	128	499622	85.5123 ug/ml	99
17) 1,3-Dichlorobenzene	9.23	146	530791	81.8854 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	529650	78.0298 ug/ml	100
19) Benzyl Alcohol	9.43	108	321218	84.7829 ug/ml	96
20) 1,2-Dichlorobenzene	9.53	146	507655	81.1755 ug/ml	99
21) 2-Methylphenol	9.57	107	391972	83.5577 ug/ml	99
22) bis(2-Chloroisopropyl)ethe	9.61	45	896640	96.6939 ug/ml	98
23) 3-,4-Methylphenol	9.74	107	493222	79.6893 ug/ml	99
24) n-Nitrosopyrrolidine	9.79	100	205064	80.7337 ug/ml#	69
25) n-Nitrosodipropylamine	9.80	70	315805	71.3934 ug/ml	84
26) Acetophenone	9.78	105	581893	73.8557 ug/ml	98
27) n-Nitrosomorpholine	9.80	56	280758	75.3308 ug/ml	95
28) o-Toluidine	9.84	106	718072	79.1042 ug/ml	98
29) Hexachloroethane	9.92	117	215882	82.8148 ug/ml	97
32) Nitrobenzene	10.01	77	500047	79.4862 ug/ml	99
33) n-Nitrosopiperidine	10.19	114	231831	88.7550 ug/ml	92
34) Isophorone	10.28	82	924092	81.6751 ug/ml	100
35) 2-Nitrophenol	10.40	139	267126	83.1856 ug/ml	97
36) 2,4-Dimethylphenol	10.40	122	430851	81.4091 ug/ml	99
37) 0,0,0-Triethyl Phosphoroth	10.52	198	211640	73.1492 ug/ml	95
38) bis(2-Chloroethoxy)methane	10.51	93	648866	74.9333 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:58:57 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.55	105	407243	96.4721 ug/ml	86
40)	2,4-Dichlorophenol	10.69	162	394434	82.6921 ug/ml	100
41)	a,a-Dimethylphenethylamine	10.79	58	1444378m	98.5325 ug/ml	
42)	1,2,4-Trichlorobenzene	10.81	180	421733	78.3267 ug/ml	99
43)	Naphthalene	10.90	128	1291420	77.5070 ug/ml	99
44)	4-Chloroaniline	10.96	127	589745	82.7458 ug/ml	99
45)	2,6-Dichlorophenol	10.98	162	384584	79.9641 ug/ml	99
46)	Hexachloropropene	11.05	213	282637	81.8192 ug/ml	99
47)	Hexachlorobutadiene	11.10	225	239211	75.9569 ug/ml	100
48)	n-Nitrosodi-n-Butylamine	11.36	84	332540	77.6514 ug/ml#	81
49)	p-Phenylenediamine	11.39	108	253723	69.6021 ug/ml	99
50)	4-Chloro-3-Methylphenol	11.52	107	396656	79.8725 ug/ml	99
51)	Safrole	11.61	162	361343	79.8326 ug/ml	99
52)	2-Methylnaphthalene	11.74	142	869066	79.9940 ug/ml	100
53)	1-Methylnaphthalene	11.88	142	867444	79.7312 ug/ml	100
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	385837	72.8867 ug/ml	98
56)	Hexachlorocyclopentadiene	12.00	237	213377	86.3380 ug/ml	100
57)	2,4,6-Trichlorophenol	12.09	196	288568	82.1729 ug/ml	99
58)	2,4,5-Trichlorophenol	12.15	196	310581	82.7137 ug/ml	99
60)	Isosafrole	12.22	162	376683	80.9096 ug/ml	99
61)	2-Chloronaphthalene	12.33	162	947819	77.4198 ug/ml	98
62)	1-Chloronaphthalene	12.38	162	777593	76.8615 ug/ml	97
63)	2-Nitroaniline	12.45	65	281369	79.7945 ug/ml	99
64)	1,4-Naphthoquinone	12.52	158	172788	59.6778 ug/ml	99
65)	Dimethylphthalate	12.65	163	938631	77.1760 ug/ml	99
66)	1,3-Dinitrobenzene	12.71	168	187655	89.2980 ug/ml	94
67)	2,6-Dinitrotoluene	12.75	165	236725	82.0731 ug/ml	98
68)	Acenaphthylene	12.83	152	1325201	77.3859 ug/ml	99
69)	3-Nitroaniline	12.93	138	270395	84.4946 ug/ml	100
70)	2,4-Dinitrophenol	13.04	184	143856	111.4453 ug/ml	56
71)	Acenaphthene	13.03	154	855441	79.6255 ug/ml	98
72)	4-Nitrophenol	13.07	65	243042	86.0814 ug/ml	98
73)	2,4-Dinitrotoluene	13.21	165	301281	79.1712 ug/ml	93
74)	Pentachlorobenzene	13.23	250	363960	74.3416 ug/ml	99
75)	Dibenzofuran	13.20	168	1080869	73.3093 ug/ml	99
76)	2,3,4,6-Tetrachlorophenol	13.32	232	250607	78.8961 ug/ml	100
77)	1-Naphthylamine	13.29	143	852720	82.0760 ug/ml	99
78)	2-Naphthylamine	13.37	143	840111	82.0553 ug/ml	99
79)	Diethylphthalate	13.42	149	932557	75.2754 ug/ml	99
80)	Thionazin	13.53	107	151073	75.2119 ug/ml	98
81)	Fluorene	13.58	166	961539	76.7927 ug/ml	99
82)	4-Chlorophenyl Phenyl Ethe	13.54	204	427610	70.6063 ug/ml	98
83)	4-Nitroaniline	13.62	138	264913m	113.8015 ug/ml	
84)	5-Nitro-o-Toluidine	13.61	152	303486	82.0555 ug/ml	99
85)	1,2-Diphenylhydrazine	13.72	77	973789	74.3148 ug/ml	99
88)	4,6-Dinitro-2-Methylphenol	13.66	198	180924	81.9861 ug/ml	87
89)	n-Nitrosodiphenylamine	13.68	169	830148	80.7556 ug/ml	99
90)	Sulfotepp	13.88	322	173974	80.2836 ug/ml	95
91)	Sym-Trinitrobenzene	13.98	75	244537	61.5679 ug/ml	89
92)	Diallate	14.00	86	348427	76.7147 ug/ml#	75
93)	Phenacetin	14.02	108	447357	75.1342 ug/ml	99
94)	Phorate	14.02	75	520015	65.3474 ug/ml#	92
95)	4-Bromophenyl Phenyl Ether	14.08	248	281819	77.8682 ug/ml	98
96)	Hexachlorobenzene	14.27	284	307334	78.1175 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:58:57 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

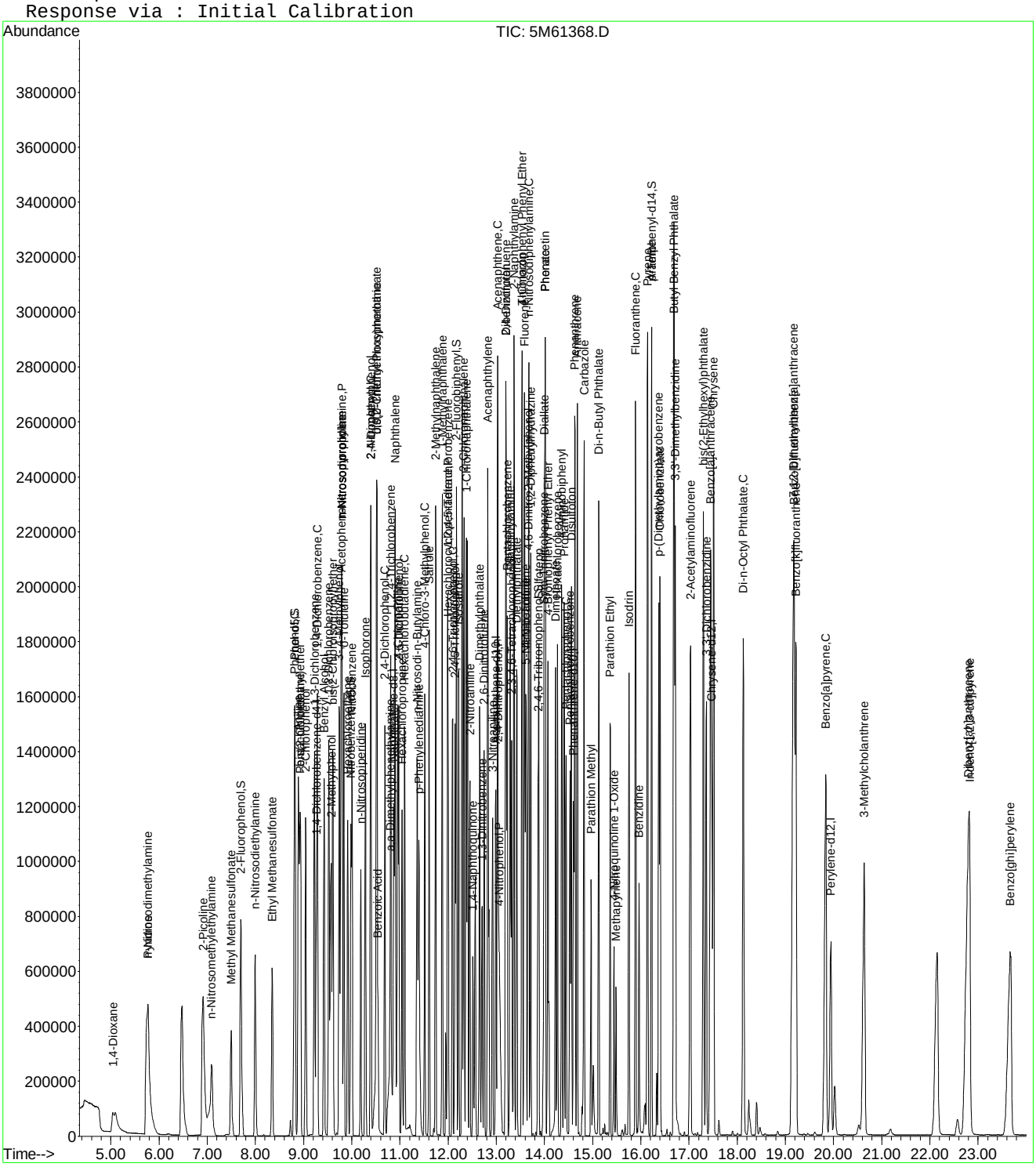
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.23	87	204256	59.0920 ug/ml	99
98)	4-Aminobiphenyl	14.36	169	930155	82.3337 ug/ml	99
99)	Pentachlorophenol	14.45	266	209817	85.3841 ug/ml	100
100)	Pronamide	14.41	173	414903	77.5060 ug/ml	99
101)	Pentachloronitrobenzene	14.53	237	120660	77.8352 ug/ml	99
102)	Disulfoton	14.56	88	506576	82.2564 ug/ml	100
103)	Phenanthrene	14.64	178	1321457	77.1495 ug/ml	99
104)	Anthracene	14.68	178	1338164	78.1186 ug/ml	98
105)	Carbazole	14.82	167	1276297	80.4946 ug/ml	98
106)	Parathion Methyl	14.97	109	192351	61.4308 ug/ml	99
107)	Di-n-Butyl Phthalate	15.13	149	1513847	76.2401 ug/ml	99
108)	Parathion Ethyl	15.36	97	188077	79.2730 ug/ml	96
109)	4-Nitroquinoline 1-Oxide	15.44	190	102076	104.7393 ug/ml	98
110)	Methapyrilene	15.49	58	193352	62.0801 ug/ml	99
111)	Isodrin	15.76	193	157964	78.2848 ug/ml	96
112)	Fluoranthene	15.89	202	1365703	76.8703 ug/ml	98
114)	Benzidine	15.97	184	483675	80.6419 ug/ml	100
115)	Pyrene	16.14	202	1421443	75.4909 ug/ml	99
116)	Aramite	16.22	185	90677	74.0665 ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.38	225	314704	76.9845 ug/ml	96
119)	Chlorobenzilate	16.40	251	449680	77.2997 ug/ml	97
121)	Butyl Benzyl Phthalate	16.69	149	642126	71.4137 ug/ml	97
122)	3,3'-Dimethylbenzidine	16.72	212	1196302	79.7623 ug/ml	99
123)	2-Acetylaminofluorene	17.03	181	631679	83.1215 ug/ml	99
124)	bis(2-Ethylhexyl)phthalate	17.30	149	1006669	77.8942 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.36	252	536015	82.1402 ug/ml	99
126)	Benzo[a]anthracene	17.45	228	1481980	78.5537 ug/ml	99
127)	Chrysene	17.52	228	1377748	77.2320 ug/ml	98
129)	Di-n-Octyl Phthalate	18.13	149	1736626	77.0470 ug/ml	97
130)	7,12-Dimethylbenz[a]anthra	19.17	256	721964	77.4440 ug/ml	98
131)	Benzo[b]fluoranthene	19.19	252	1730428	77.7378 ug/ml	99
132)	Benzo[k]fluoranthene	19.22	252	1332067m	78.6949 ug/ml	
133)	Benzo[a]pyrene	19.84	252	1461566	82.4835 ug/ml	99
134)	3-Methylcholanthrene	20.63	268	768423	84.1992 ug/ml	100
135)	Indeno[1,2,3-cd]pyrene	22.83	276	1657602	87.7135 ug/ml	97
136)	Dibenz[ah]anthracene	22.80	278	1369475	86.6584 ug/ml	98
137)	Benzo[ghi]perylene	23.67	276	1417389	96.9172 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:42 2010 Quant Results File: MEGAMIX.RES

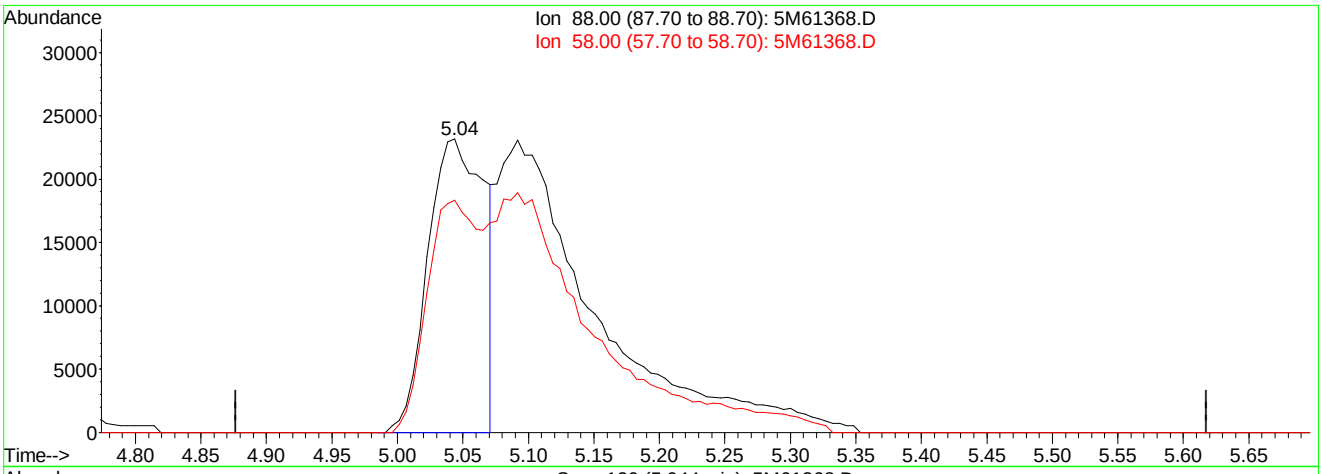
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration

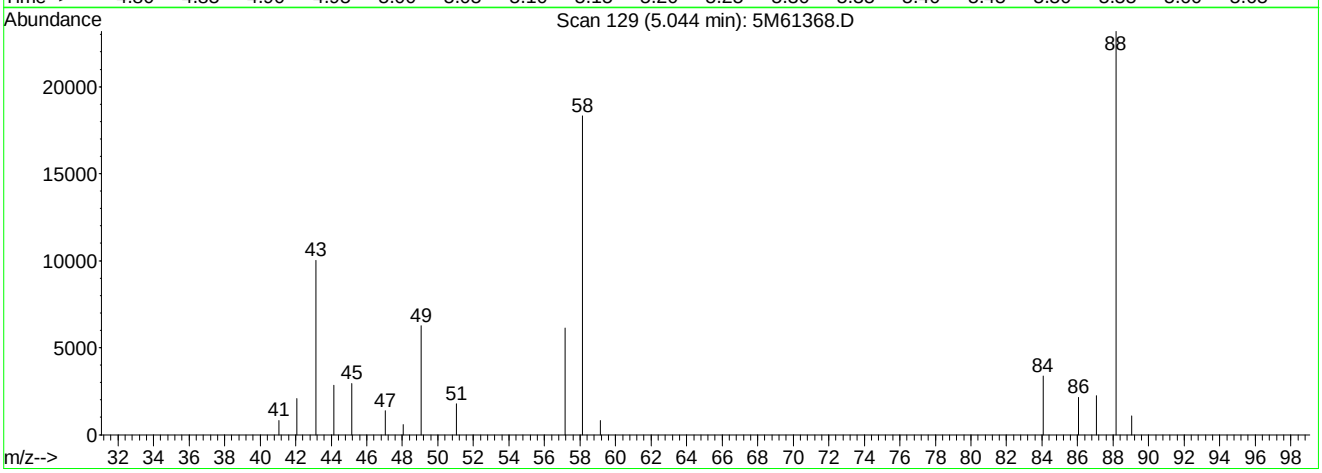


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:58 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(2) 1,4-Dioxane

5.04min 33.72ug/ml

response 69404

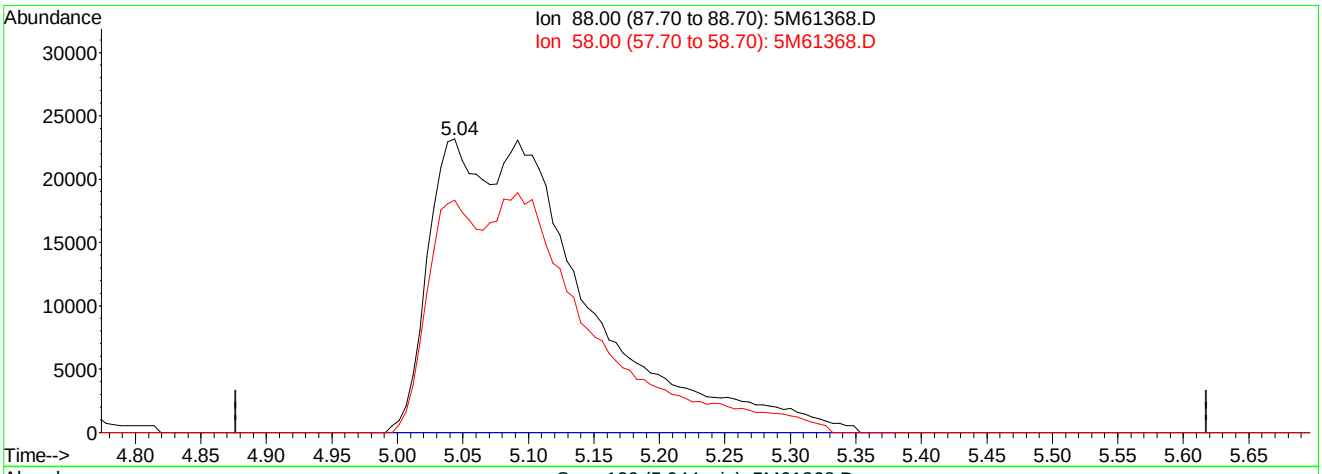
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	73.25
0.00	0.00	0.00
0.00	0.00	0.00

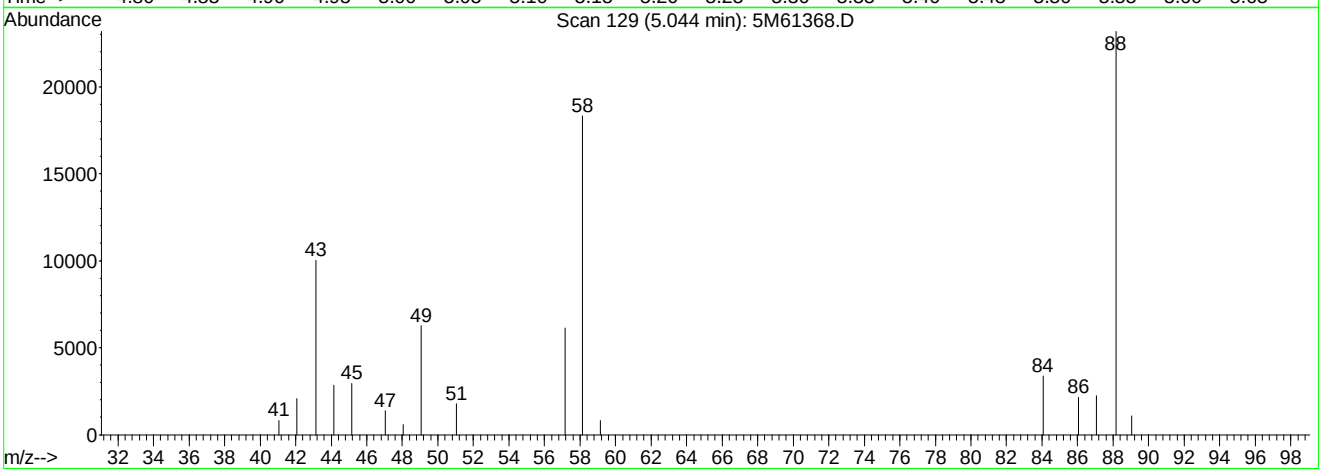
5M61368.D MEGAMIX.M Wed Dec 22 13:59:02 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(2) 1,4-Dioxane

5.04min 91.96ug/ml mint

response 189260

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	26.86#
0.00	0.00	0.00
0.00	0.00	0.00

5M61368.D MEGAMIX.M Wed Dec 22 13:59:05 2010

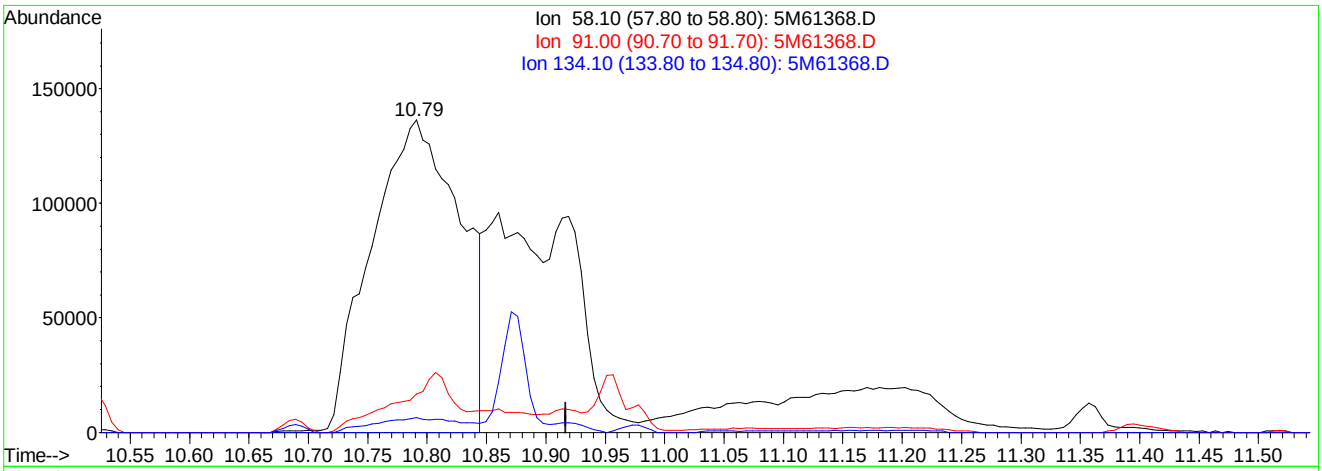
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:49

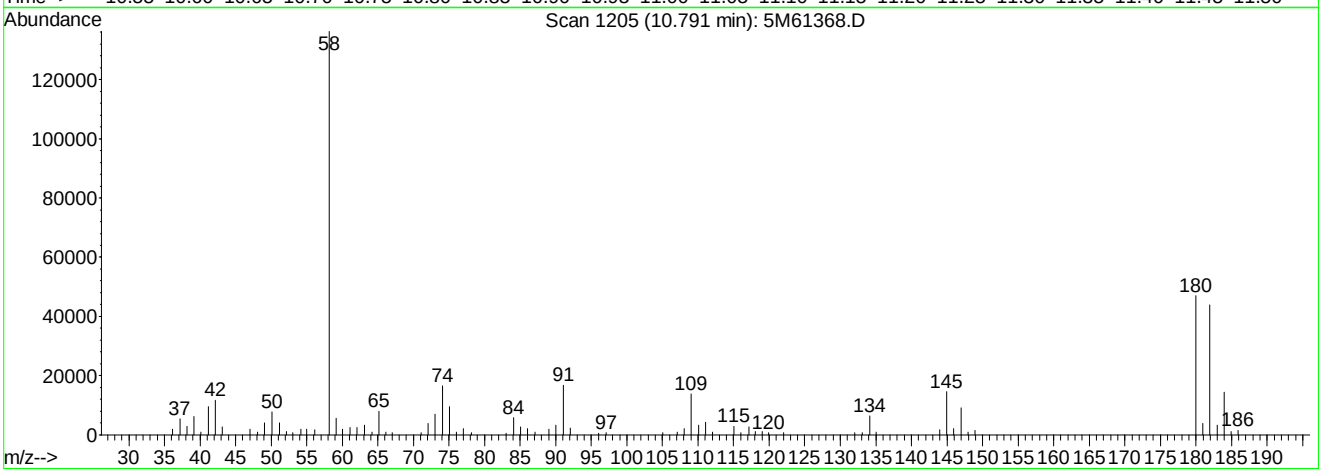
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(41) a,a-Dimethylphenethylamine

10.79min 48.72ug/ml

response 714180

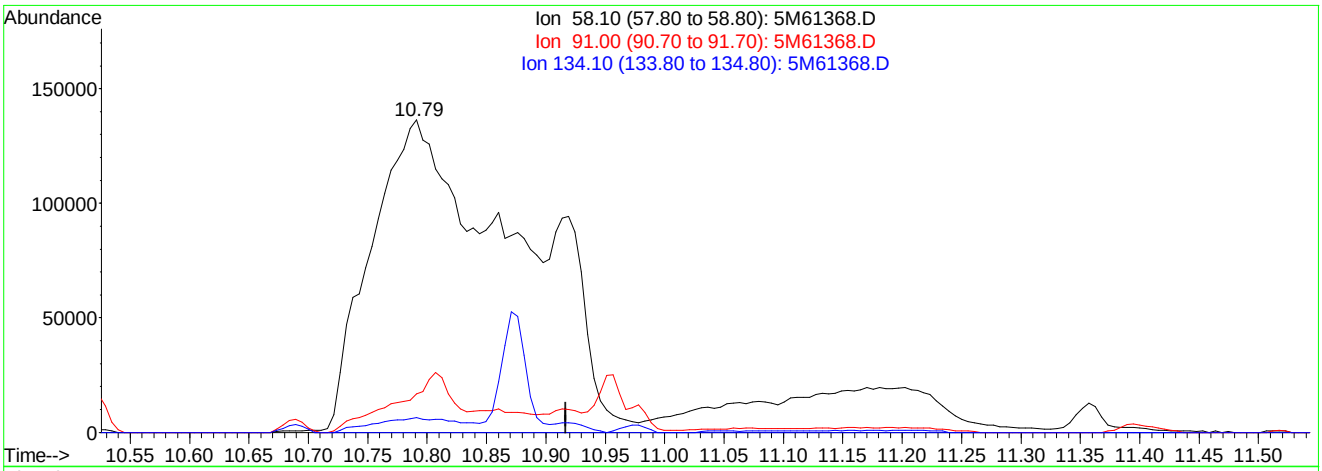
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	12.37#
134.10	2.40	4.36#
0.00	0.00	0.00

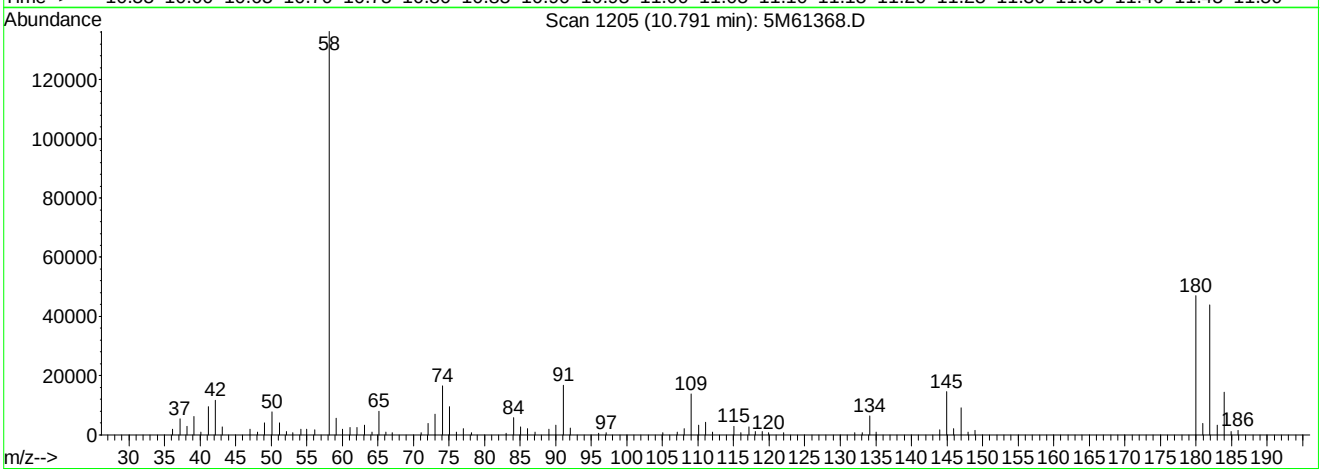
5M61368.D MEGAMIX.M Wed Dec 22 13:59:13 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(41) a,a-Dimethylphenethylamine

10.79min 98.53ug/ml mint

response 1444378

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	6.12
134.10	2.40	2.15
0.00	0.00	0.00

5M61368.D MEGAMIX.M Wed Dec 22 13:59:16 2010

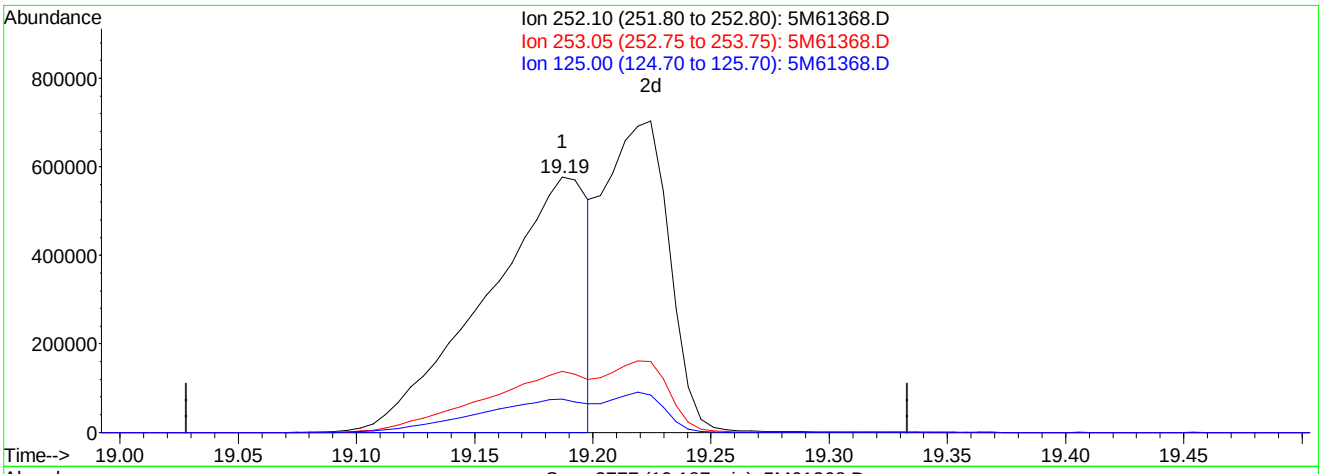
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:50

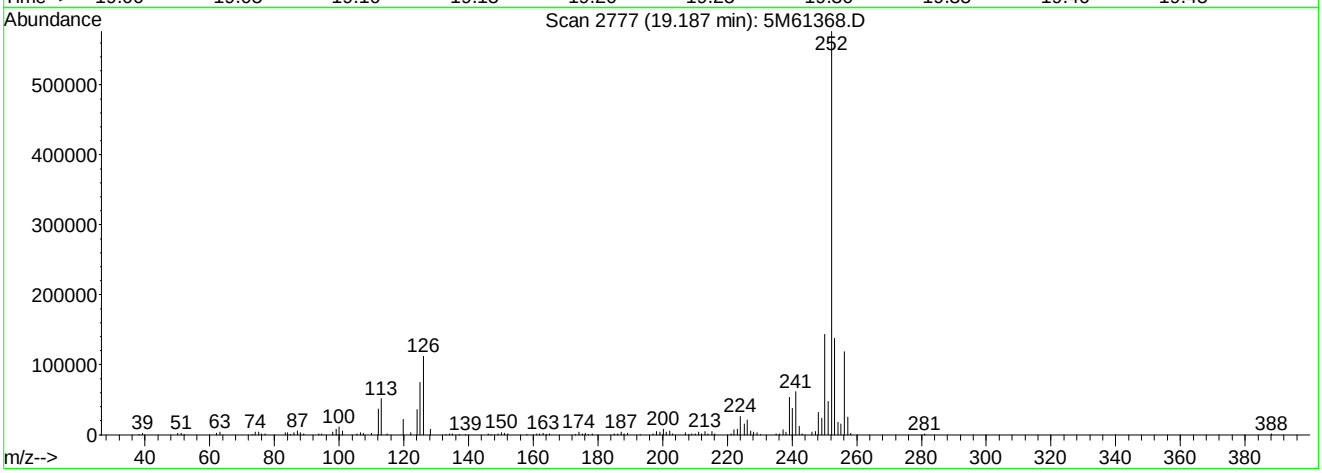
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(132) Benzo[k]fluoranthene

19.19min 102.23ug/ml

response 1730428

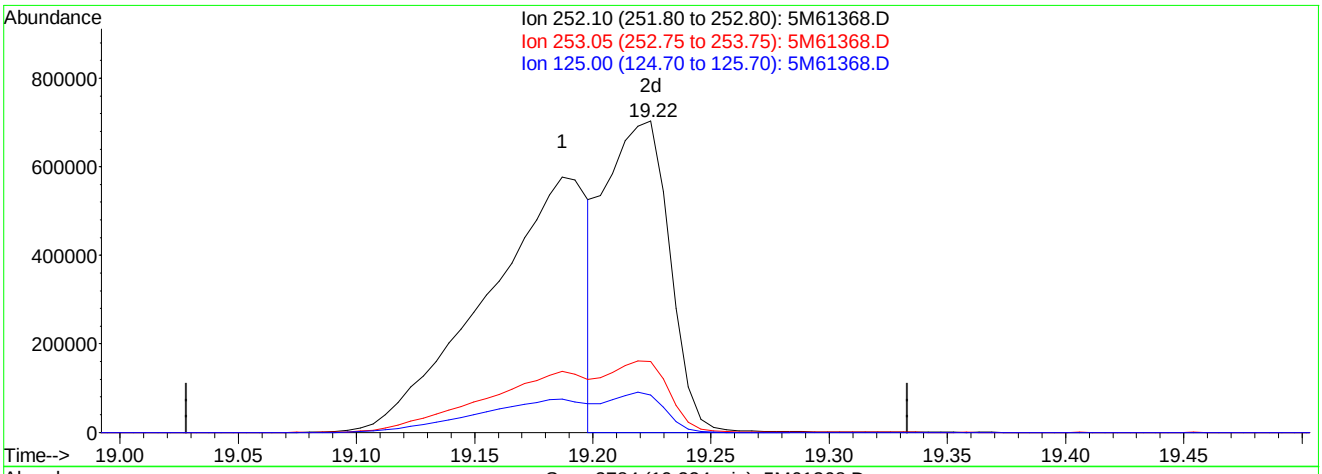
Ion	Exp%	Act%
252.10	100	100
253.05	22.50	24.40
125.00	10.20	13.82
0.00	0.00	0.00

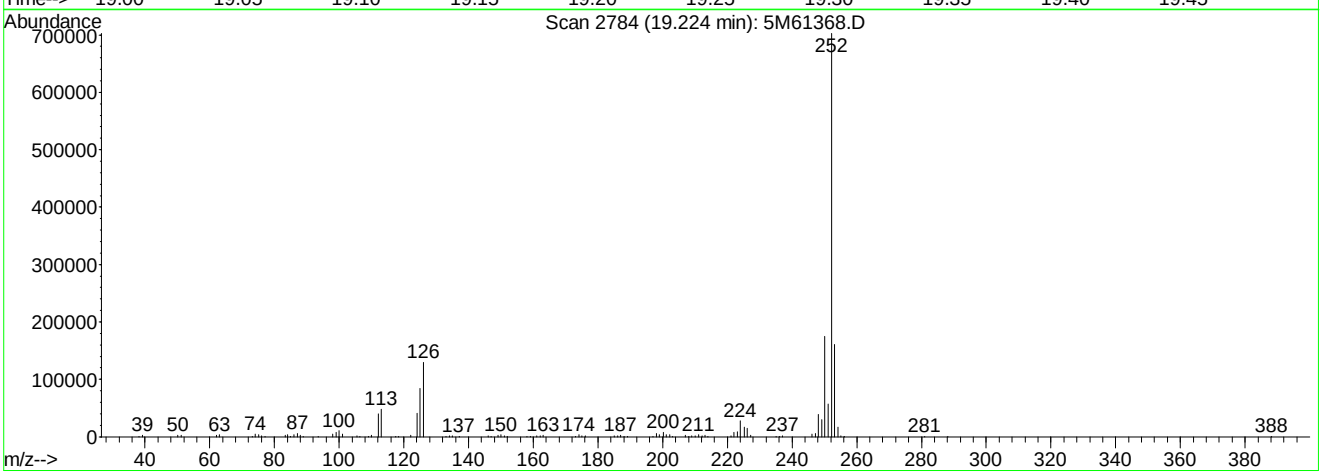
5M61368.D MEGAMIX.M Wed Dec 22 13:59:27 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:57:05 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(132) Benzo[k]fluoranthene

19.22min 78.69ug/ml mint

response 1332067

Ion	Exp%	Act%
252.10	100	100
253.05	22.50	31.70#
125.00	10.20	17.95#
0.00	0.00	0.00

5M61368.D MEGAMIX.M Wed Dec 22 13:59:31 2010

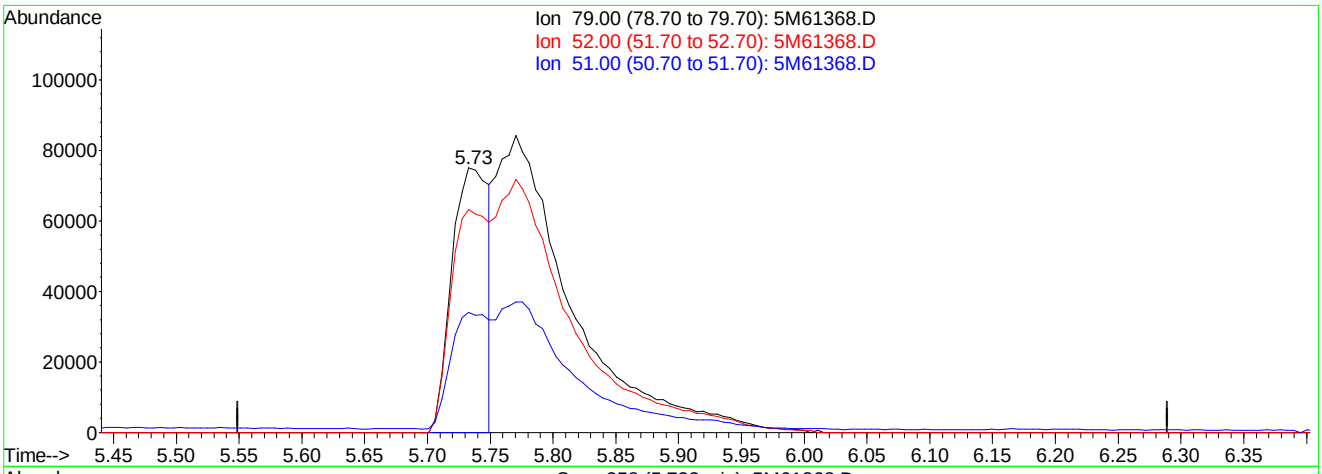
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:50

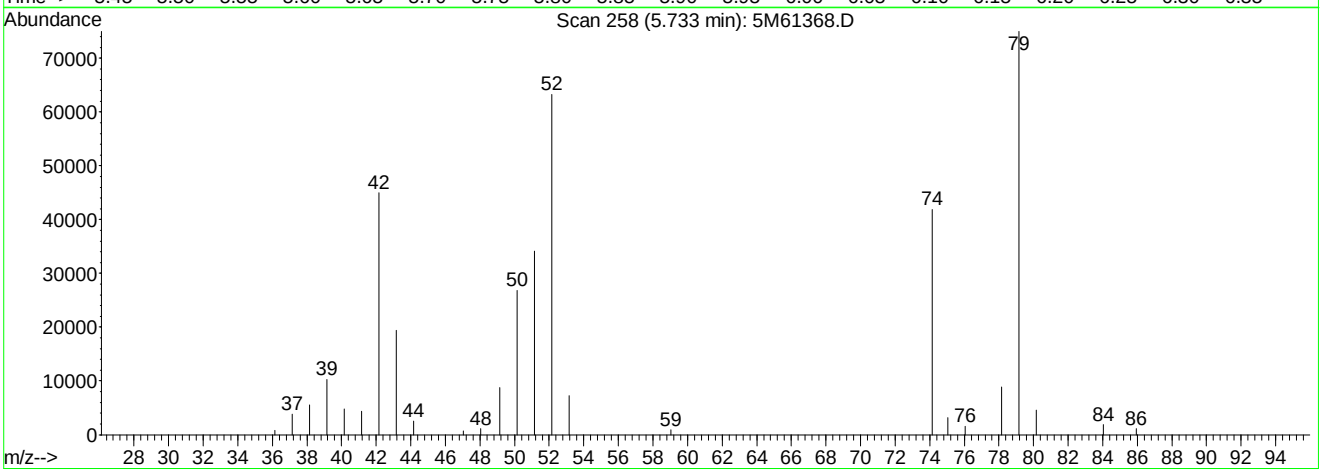
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 13:59 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:39:38 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(4) Pyridine

5.73min 28.22ug/ml

response 152712

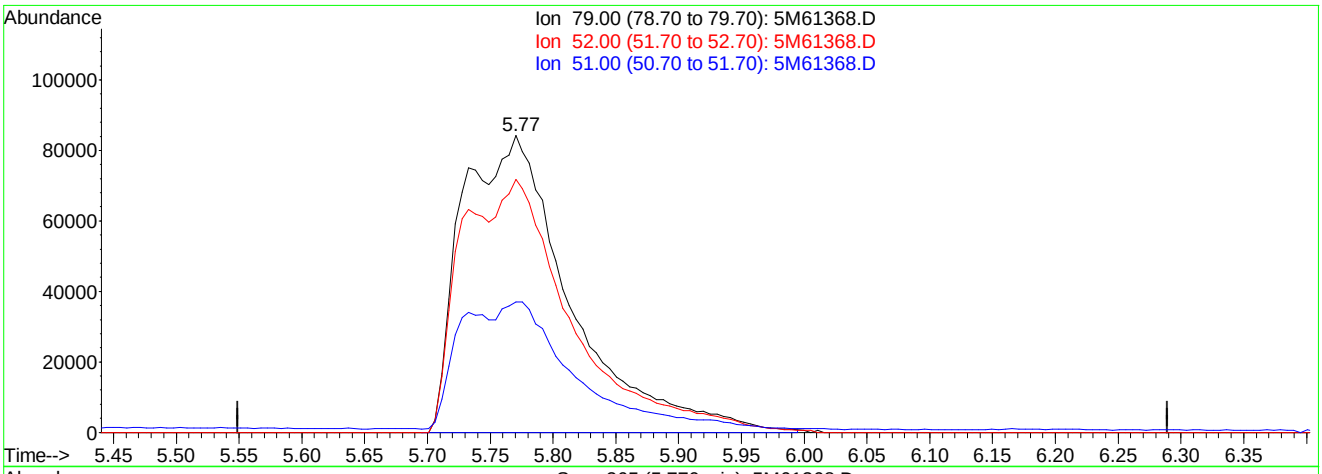
Ion	Exp%	Act%
79.00	100	100
52.00	89.10	86.47
51.00	52.60	45.16
0.00	0.00	0.00

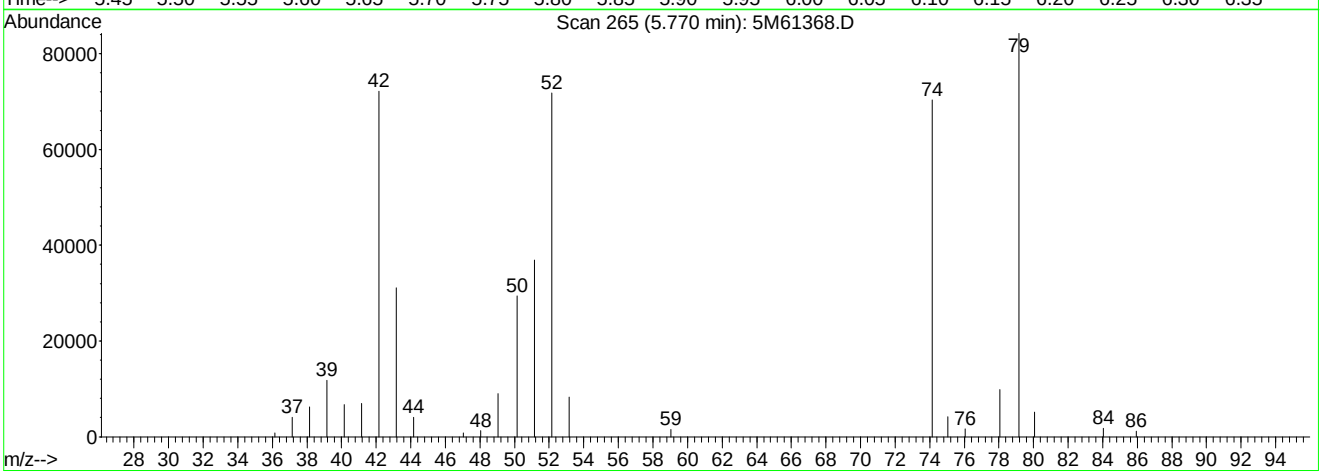
5M61368.D MEGAMIX.M Thu Dec 23 06:40:30 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:40 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:39:38 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(4) Pyridine

5.77min 93.48ug/ml mint

response 505820

Ion	Exp%	Act%
79.00	100	100
52.00	89.10	26.11#
51.00	52.60	13.64#
0.00	0.00	0.00

5M61368.D MEGAMIX.M Thu Dec 23 06:40:32 2010

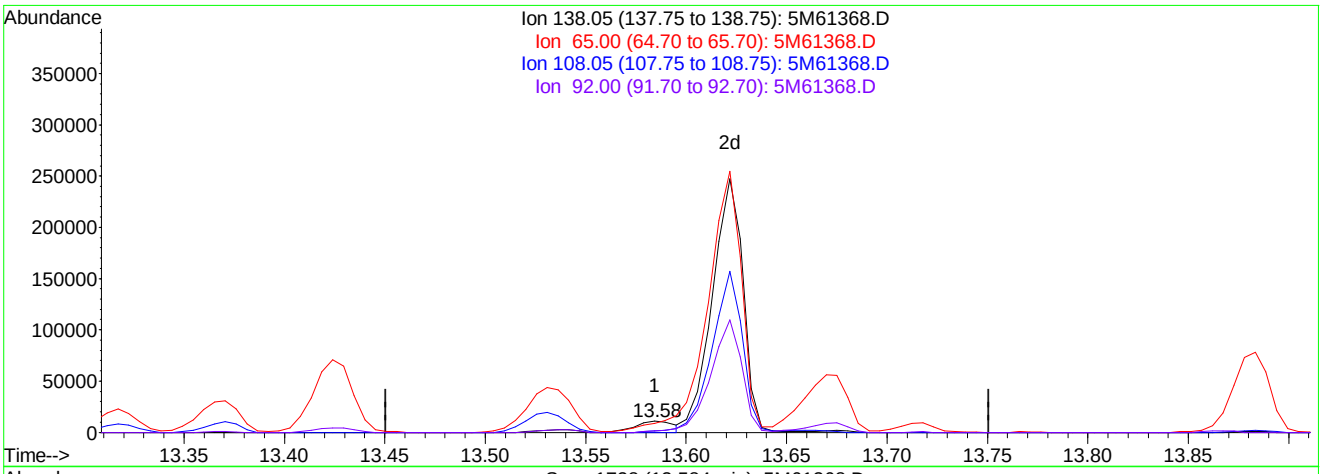
Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:52

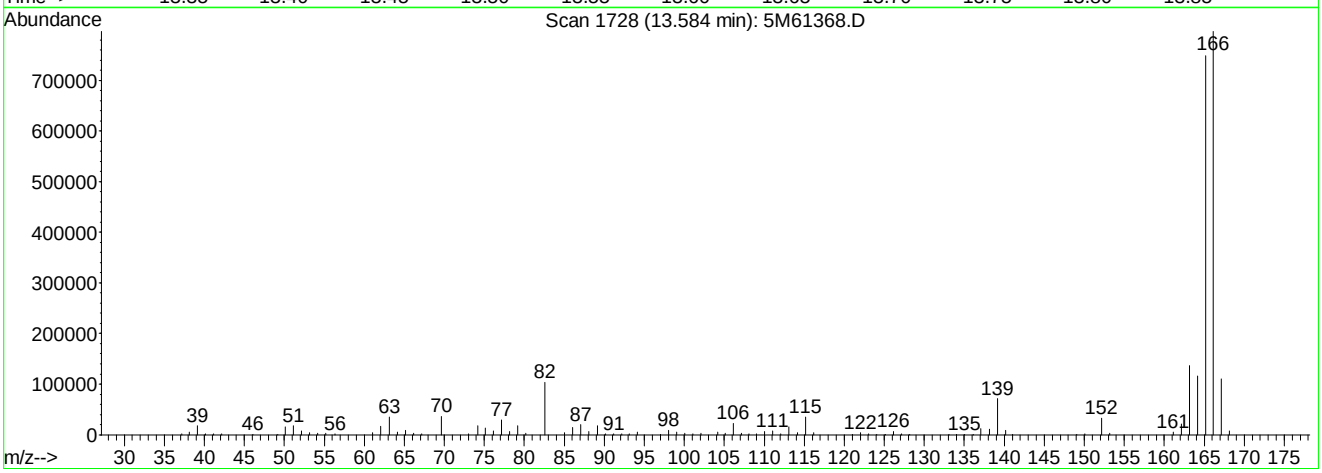
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:40 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(83) 4-Nitroaniline

13.58min 6.24ug/ml

response 14527

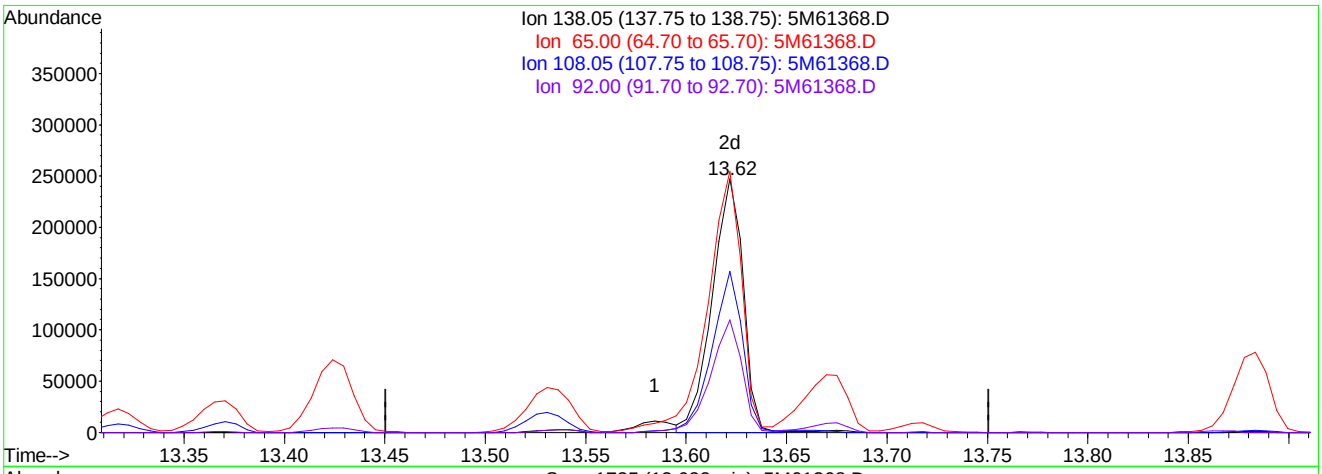
Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

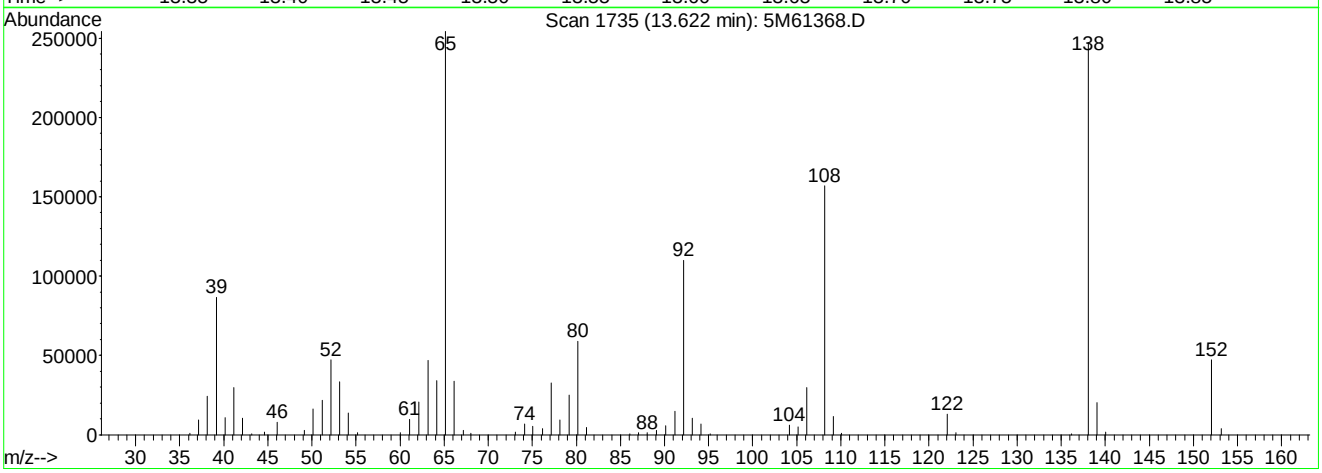
5M61368.D MEGAMIX.M Thu Dec 23 06:42:43 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61368.D Vial: 7
Acq On : 22 Dec 2010 1:34 pm Operator: CAA
Sample : WG352225-07 80ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:42 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration





TIC: 5M61368.D

(83) 4-Nitroaniline

13.62min 113.80ug/ml mint

response 264913

Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

5M61368.D MEGAMIX.M Thu Dec 23 06:42:46 2010

Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:52

#1 - Data system fails to select correct peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33:29 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	150310	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	556450	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	310827	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.61	188	524091	40.00 ug/ml	0.00
113) Chrysene-d12	17.48	240	582972	40.00 ug/ml	0.01
128) Perylene-d12	19.94	264	591405	40.00 ug/ml	0.02

System Monitoring Compounds					
8) 2-Fluorophenol	7.70	112	506201	114.9060 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 114.91%#		
12) Phenol-d5	8.81	99	590500	104.4449 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 104.44%#		
31) Nitrobenzene-d5	9.98	82	543023	103.3822 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 206.76%#		
59) 2-Fluorobiphenyl	12.18	172	1027755	98.7328 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 197.46%#		
86) 2,4,6-Tribromophenol	13.87	330	153302	94.5497 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 94.55%		
117) p-Terphenyl-d14	16.23	244	926844	89.7060 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 179.42%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.09	88	203530m	116.6418 ug/ml	
3) n-Nitrosodimethylamine	5.77	74	331389	119.1407 ug/ml	91
4) Pyridine	5.77	79	542132	131.1053 ug/ml	94
5) 2-Picoline	6.91	93	571888	116.1925 ug/ml	99
6) n-Nitrosomethylethylamine	7.09	88	239540	119.2344 ug/ml	90
7) Methyl Methanesulfonate	7.50	80	289801	108.4042 ug/ml	98
9) n-Nitrosodiethylamine	8.00	102	245106	115.1258 ug/ml	91
10) Ethyl Methanesulfonate	8.35	79	399681	110.1152 ug/ml	99
11) Aniline	8.89	93	748824	103.0378 ug/ml	100
13) Phenol	8.82	94	617115	103.7425 ug/ml	97
14) bis(2-Chloroethyl)ether	8.94	63	389650	104.6947 ug/ml	99
15) Pentachloroethane	8.92	167	187123	96.2214 ug/ml	97
16) 2-Chlorophenol	9.04	128	529387	107.1791 ug/ml	99
17) 1,3-Dichlorobenzene	9.22	146	558291	102.3559 ug/ml	99
18) 1,4-Dichlorobenzene	9.29	146	566199	99.6052 ug/ml	99
19) Benzyl Alcohol	9.43	108	337437	105.9741 ug/ml	96
20) 1,2-Dichlorobenzene	9.52	146	533254	101.5444 ug/ml	99
21) 2-Methylphenol	9.57	107	406491	103.6803 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.61	45	958694	115.7239 ug/ml	99
23) 3-,4-Methylphenol	9.74	107	523916	102.2911 ug/ml	98
24) n-Nitrosopyrrolidine	9.79	100	217489	103.5201 ug/ml#	68
25) n-Nitrosodipropylamine	9.80	70	339395	93.8485 ug/ml	83
26) Acetophenone	9.78	105	621956	96.2764 ug/ml	99
27) n-Nitrosomorpholine	9.80	56	299251	95.8419 ug/ml	96
28) o-Toluidine	9.84	106	767712	102.3085 ug/ml	99
29) Hexachloroethane	9.92	117	228126	104.1649 ug/ml	97
32) Nitrobenzene	10.01	77	525401	99.8823 ug/ml	99
33) n-Nitrosopiperidine	10.19	114	243197	109.2175 ug/ml	93
34) Isophorone	10.28	82	978226	102.8085 ug/ml	100
35) 2-Nitrophenol	10.40	139	283380	104.0126 ug/ml	96
36) 2,4-Dimethylphenol	10.39	122	460268	103.2449 ug/ml	99
37) 0,0,0-Triethyl Phosphoroth	10.53	198	224514	93.2698 ug/ml	94
38) bis(2-Chloroethoxy)methane	10.52	93	690811	95.9939 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33:29 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.55	105	451933	126.7471 ug/ml	87
40)	2,4-Dichlorophenol	10.69	162	419013	103.6225 ug/ml	99
41)	a,a-Dimethylphenethylamine	10.79	58	1546939m	119.6518 ug/ml	
42)	1,2,4-Trichlorobenzene	10.81	180	449941	99.1904 ug/ml	99
43)	Naphthalene	10.90	128	1383355	99.0560 ug/ml	99
44)	4-Chloroaniline	10.95	127	628943	104.2331 ug/ml	98
45)	2,6-Dichlorophenol	10.98	162	408590	100.7493 ug/ml	98
46)	Hexachloropropene	11.05	213	298846	102.4807 ug/ml	100
47)	Hexachlorobutadiene	11.10	225	253803	95.7535 ug/ml	100
48)	n-Nitrosodi-n-Butylamine	11.36	84	340114	94.9102 ug/ml	83
49)	p-Phenylenediamine	11.40	108	250462	81.2688 ug/ml	99
50)	4-Chloro-3-Methylphenol	11.52	107	415024	100.2548 ug/ml	100
51)	Safrole	11.61	162	380956	100.0709 ug/ml	100
52)	2-Methylnaphthalene	11.75	142	920648	100.6203 ug/ml	100
53)	1-Methylnaphthalene	11.88	142	922445	100.8329 ug/ml	100
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	406859	91.3915 ug/ml	98
56)	Hexachlorocyclopentadiene	12.01	237	214620	100.7374 ug/ml	100
57)	2,4,6-Trichlorophenol	12.09	196	305456	101.5684 ug/ml	99
58)	2,4,5-Trichlorophenol	12.15	196	328944	102.2938 ug/ml	99
60)	Isosafrole	12.22	162	400614	100.8718 ug/ml	100
61)	2-Chloronaphthalene	12.33	162	1016239	98.0636 ug/ml	98
62)	1-Chloronaphthalene	12.38	162	823336	96.2201 ug/ml	97
63)	2-Nitroaniline	12.45	65	296465	98.8426 ug/ml	99
64)	1,4-Naphthoquinone	12.52	158	169534	67.9366 ug/ml	99
65)	Dimethylphthalate	12.66	163	1006121	97.5874 ug/ml	99
66)	1,3-Dinitrobenzene	12.71	168	197400	108.7642 ug/ml	96
67)	2,6-Dinitrotoluene	12.75	165	251050	102.0671 ug/ml	98
68)	Acenaphthylene	12.83	152	1410595	97.3112 ug/ml	99
69)	3-Nitroaniline	12.93	138	286219	103.7067 ug/ml	98
70)	2,4-Dinitrophenol	13.05	184	159362	143.2304 ug/ml	52
71)	Acenaphthene	13.03	154	920752	101.1286 ug/ml	98
72)	4-Nitrophenol	13.07	65	264889	109.9619 ug/ml	98
73)	2,4-Dinitrotoluene	13.21	165	322376	100.2252 ug/ml	93
74)	Pentachlorobenzene	13.23	250	387283	93.1303 ug/ml	99
75)	Dibenzofuran	13.20	168	1149526	92.6664 ug/ml	98
76)	2,3,4,6-Tetrachlorophenol	13.32	232	264093	98.0890 ug/ml	99
77)	1-Naphthylamine	13.29	143	914445	103.3299 ug/ml	99
78)	2-Naphthylamine	13.37	143	883033	102.1033 ug/ml	99
79)	Diethylphthalate	13.43	149	993287	95.0140 ug/ml	99
80)	Thionazin	13.53	107	162603	96.8509 ug/ml	96
81)	Fluorene	13.59	166	1024299	97.1781 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.55	204	451977	89.6549 ug/ml	98
83)	4-Nitroaniline	13.63	138	281096m	184.9108 ug/ml	
84)	5-Nitro-o-Toluidine	13.61	152	322865	102.9716 ug/ml	98
85)	1,2-Diphenylhydrazine	13.72	77	1035633	94.6487 ug/ml	99
88)	4,6-Dinitro-2-Methylphenol	13.66	198	193842	104.6599 ug/ml	85
89)	n-Nitrosodiphenylamine	13.68	169	879524	101.7861 ug/ml	99
90)	Sulfotepp	13.89	322	183147	98.8570 ug/ml	95
91)	Sym-Trinitrobenzene	13.99	75	256758	77.6760 ug/ml	89
92)	Diallate	14.00	86	366598	96.9577 ug/ml#	74
93)	Phenacetin	14.02	108	471928	95.8199 ug/ml	99
94)	Phorate	14.02	75	539701	82.2929 ug/ml#	92
95)	4-Bromophenyl Phenyl Ether	14.07	248	298381	97.7438 ug/ml	98
96)	Hexachlorobenzene	14.28	284	321603	95.8376 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33:29 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Initial Calibration
DataAcq Meth : BNA

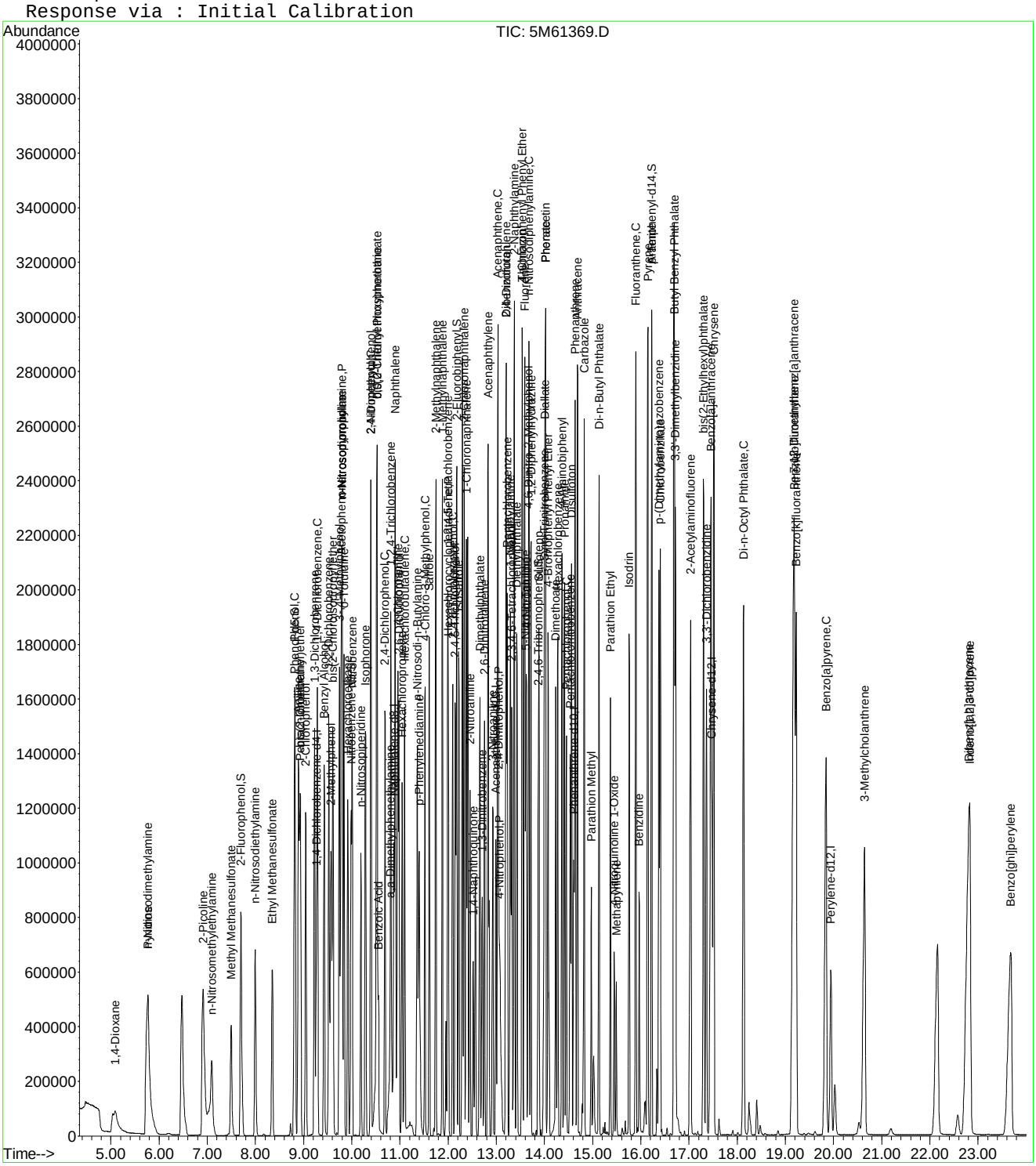
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
97)	Dimethoate	14.23	87	196306	67.7980	ug/ml	99
98)	4-Aminobiphenyl	14.36	169	976375	102.2356	ug/ml	99
99)	Pentachlorophenol	14.45	266	220433	104.3417	ug/ml	99
100)	Pronamide	14.42	173	437359	97.2014	ug/ml	99
101)	Pentachloronitrobenzene	14.53	237	127475	96.9642	ug/ml	100
102)	Disulfoton	14.57	88	536354	103.6271	ug/ml	100
103)	Phenanthrene	14.64	178	1403848	97.8786	ug/ml	99
104)	Anthracene	14.69	178	1413740	98.5642	ug/ml	98
105)	Carbazole	14.83	167	1355590	101.6579	ug/ml	98
106)	Parathion Methyl	14.97	109	190063	72.0111	ug/ml	99
107)	Di-n-Butyl Phthalate	15.13	149	1614164	96.5767	ug/ml	99
108)	Parathion Ethyl	15.37	97	199074	99.8212	ug/ml	96
109)	4-Nitroquinoline 1-Oxide	15.45	190	99818	119.7860	ug/ml	98
110)	Methapyrilene	15.49	58	203177	74.9793	ug/ml	99
111)	Isodrin	15.76	193	165943	97.6372	ug/ml	97
112)	Fluoranthene	15.90	202	1451819	97.6164	ug/ml	98
114)	Benzidine	15.96	184	473814	92.9156	ug/ml	100
115)	Pyrene	16.14	202	1504333	95.5239	ug/ml	99
116)	Aramite	16.23	185	94682	92.9574	ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.38	225	334238	98.1346	ug/ml	96
119)	Chlorobenzilate	16.40	251	479280	98.2127	ug/ml	97
121)	Butyl Benzyl Phthalate	16.70	149	673945	90.1602	ug/ml	97
122)	3,3'-Dimethylbenzidine	16.72	212	1184245	94.4547	ug/ml	97
123)	2-Acetylaminofluorene	17.04	181	673149	106.0525	ug/ml	98
124)	bis(2-Ethylhexyl)phthalate	17.30	149	1074911	98.8295	ug/ml	100
125)	3,3'-Dichlorobenzidine	17.36	252	569747	102.9474	ug/ml	99
126)	Benzo[a]anthracene	17.46	228	1571155	99.4980	ug/ml	99
127)	Chrysene	17.51	228	1461259	98.2093	ug/ml	98
129)	Di-n-Octyl Phthalate	18.13	149	1856225	98.3844	ug/ml	97
130)	7,12-Dimethylbenz[a]anthra	19.17	256	761665	97.6379	ug/ml	98
131)	Benzo[b]fluoranthene	19.19	252	1995321	107.2808	ug/ml	99
132)	Benzo[k]fluoranthene	19.23	252	1252204m	87.9644	ug/ml	
133)	Benzo[a]pyrene	19.84	252	1532102	102.2695	ug/ml	98
134)	3-Methylcholanthrene	20.64	268	802745	103.8687	ug/ml	99
135)	Indeno[1,2,3-cd]pyrene	22.83	276	1727864	106.4400	ug/ml	96
136)	Dibenz[ah]anthracene	22.81	278	1446500	106.8812	ug/ml	98
137)	Benzo[ghi]perylene	23.68	276	1463193	114.9152	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:42 2010 Quant Results File: MEGAMIX.RES

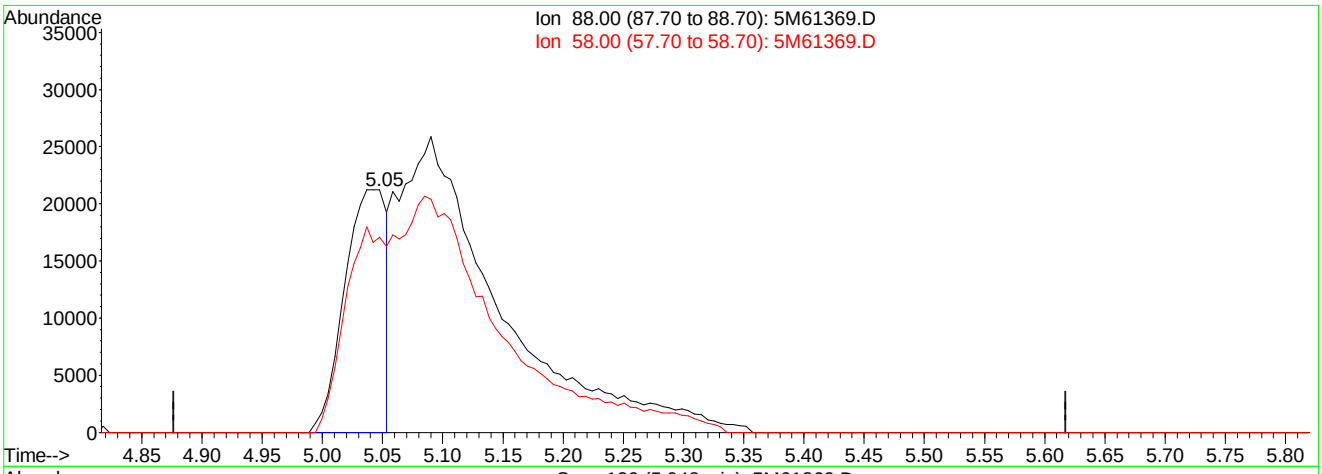
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration

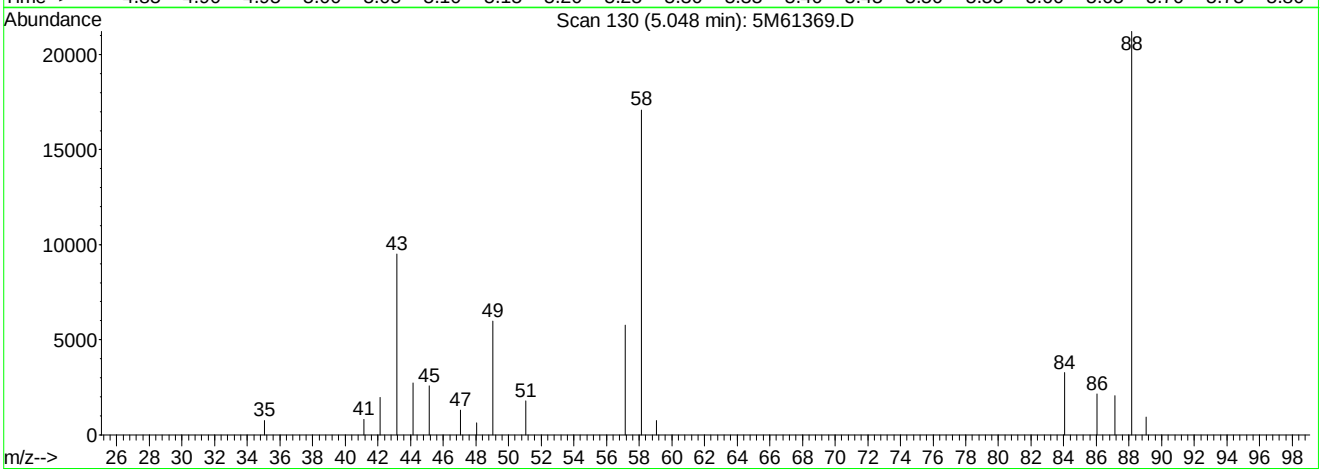


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(2) 1,4-Dioxane

5.05min 29.20ug/ml

response 50947

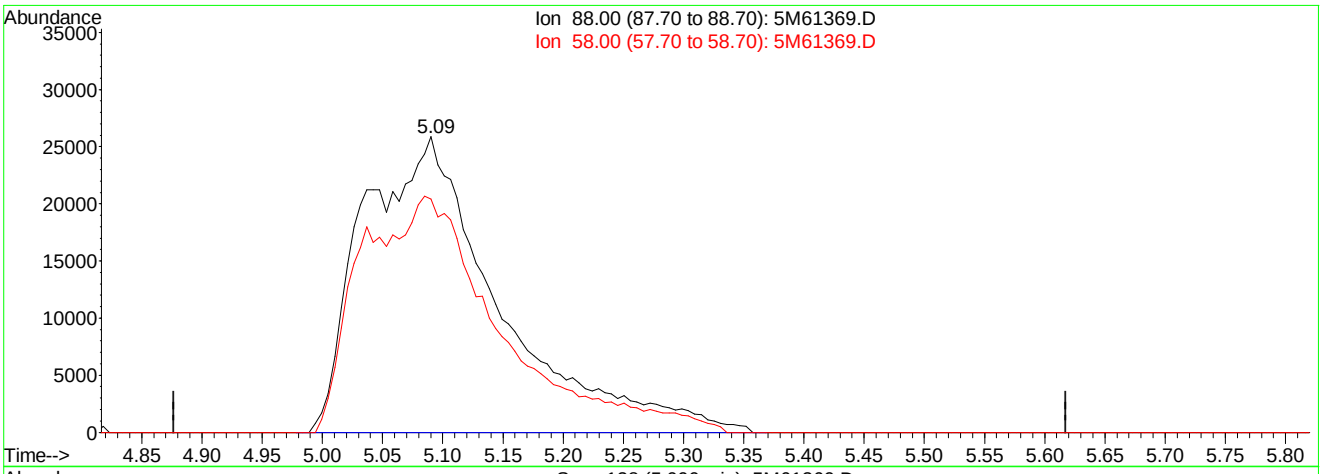
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	82.14
0.00	0.00	0.00
0.00	0.00	0.00

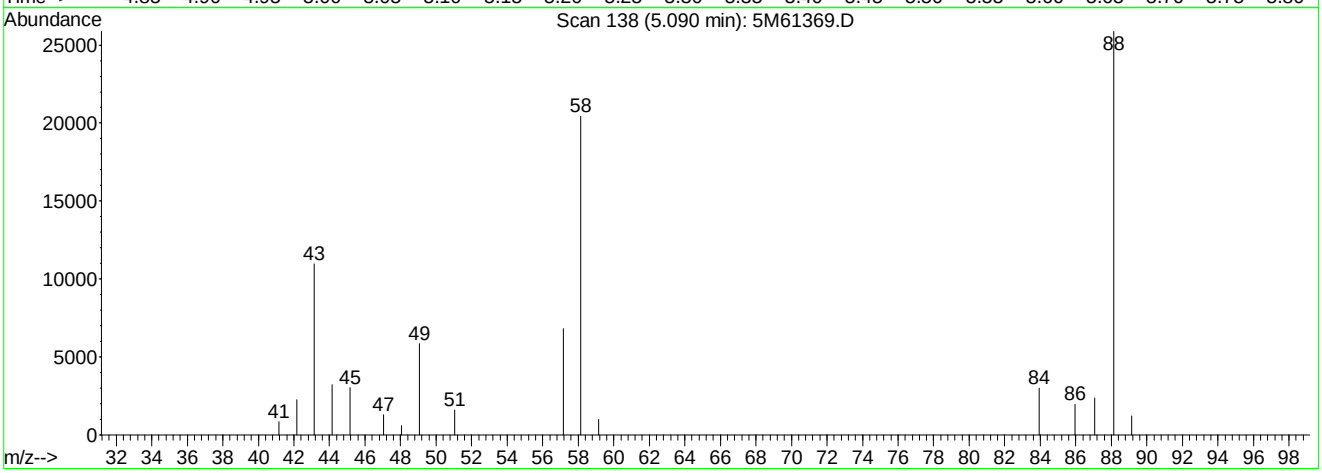
5M61369.D MEGAMIX.M Wed Dec 22 14:33:34 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(2) 1,4-Dioxane

5.09min 116.64ug/ml mint

response 203530

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	20.56#
0.00	0.00	0.00
0.00	0.00	0.00

5M61369.D MEGAMIX.M Wed Dec 22 14:33:37 2010

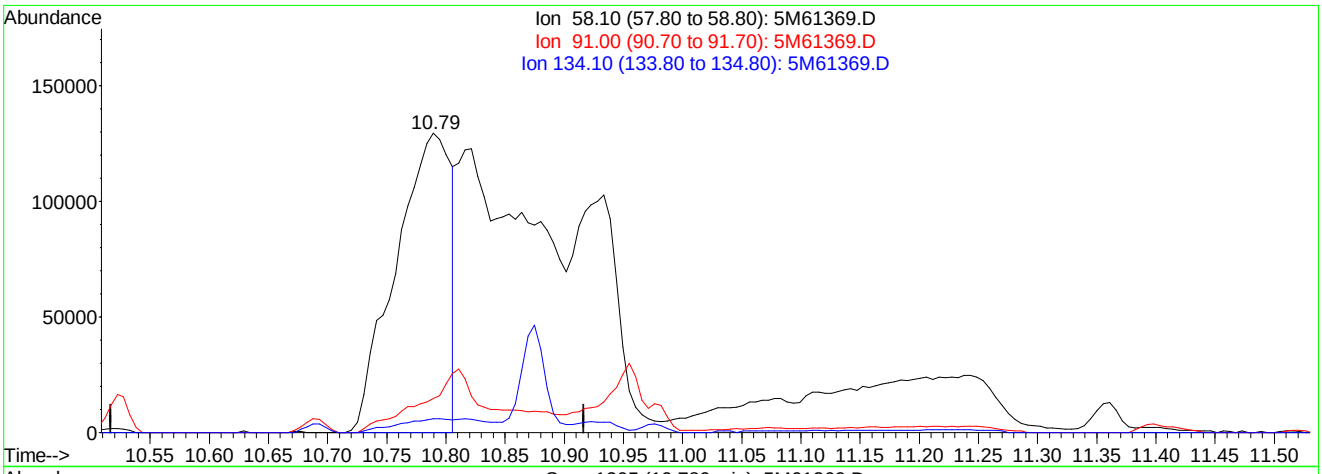
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:50

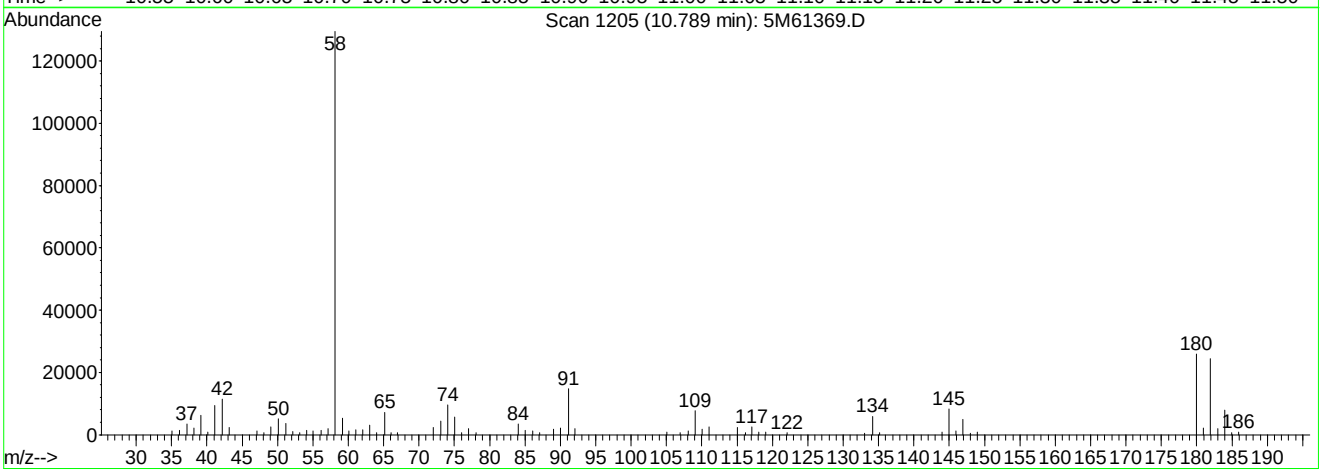
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(41) a,a-Dimethylphenethylamine

10.79min 32.36ug/ml

response 418310

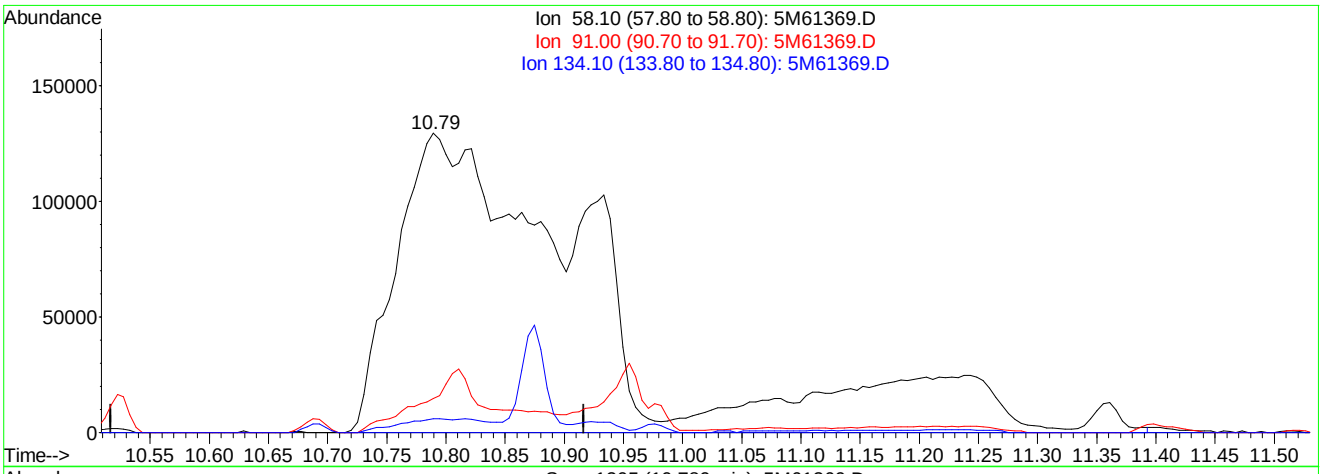
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	27.67#
134.10	2.40	4.45#
0.00	0.00	0.00

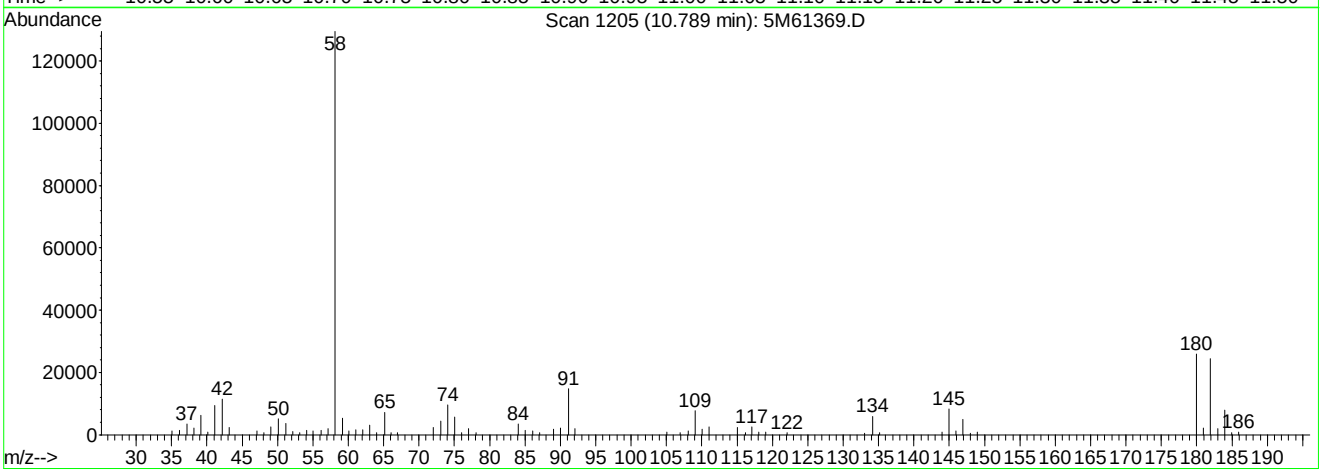
5M61369.D MEGAMIX.M Wed Dec 22 14:33:45 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(41) a,a-Dimethylphenethylamine

10.79min 119.65ug/ml mint

response 1546939

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	7.48#
134.10	2.40	1.20#
0.00	0.00	0.00

5M61369.D MEGAMIX.M Wed Dec 22 14:33:49 2010

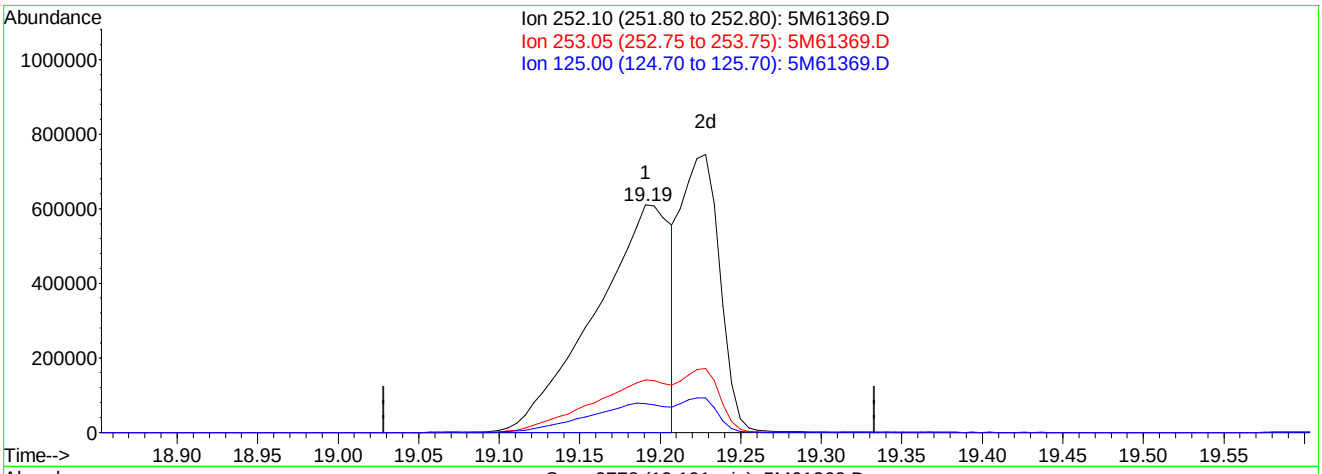
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:50

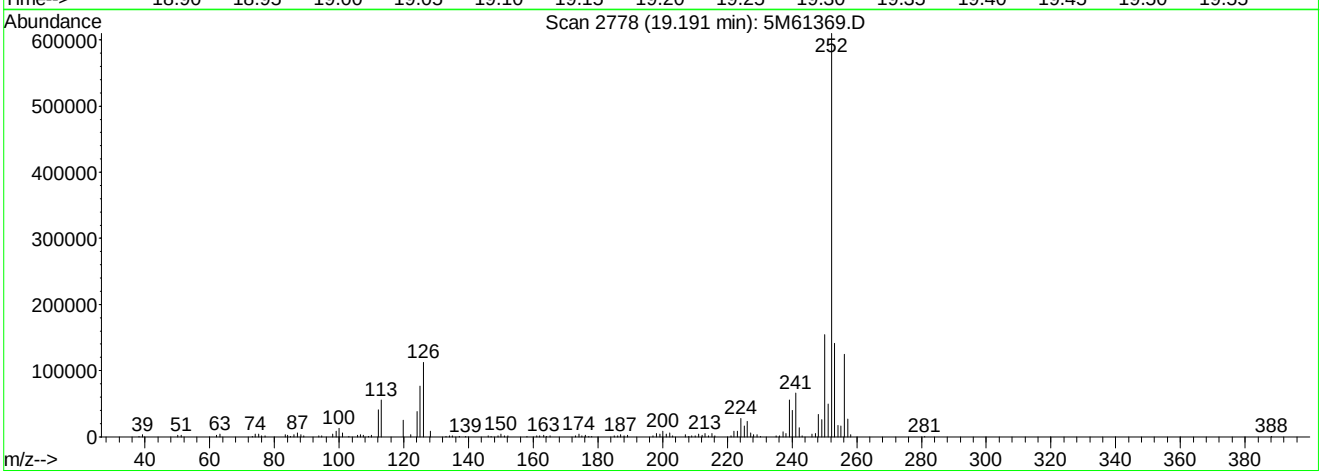
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D          Vial: 8
Acq On    : 22 Dec 2010   2:08 pm                   Operator: CAA
Sample    : WG352225-08 100ppm Megamix STD          Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration
```





TIC: 5M61369.D

(132) Benzo[k]fluoranthene

19.19min 140.17ug/ml

response 1995321

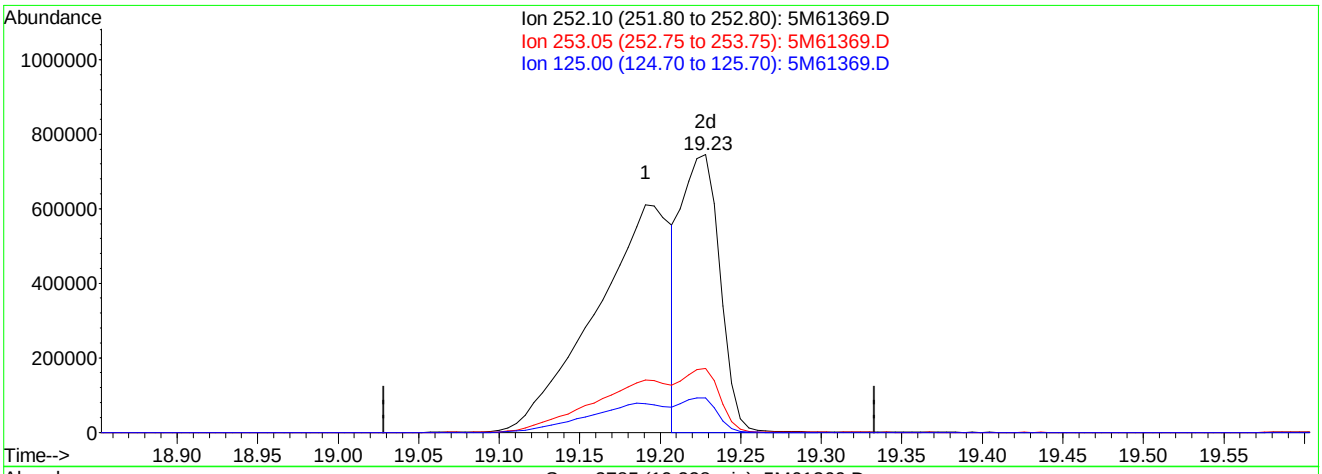
Ion	Exp%	Act%
252.10	100	100
253.05	22.50	24.19
125.00	10.20	13.75
0.00	0.00	0.00

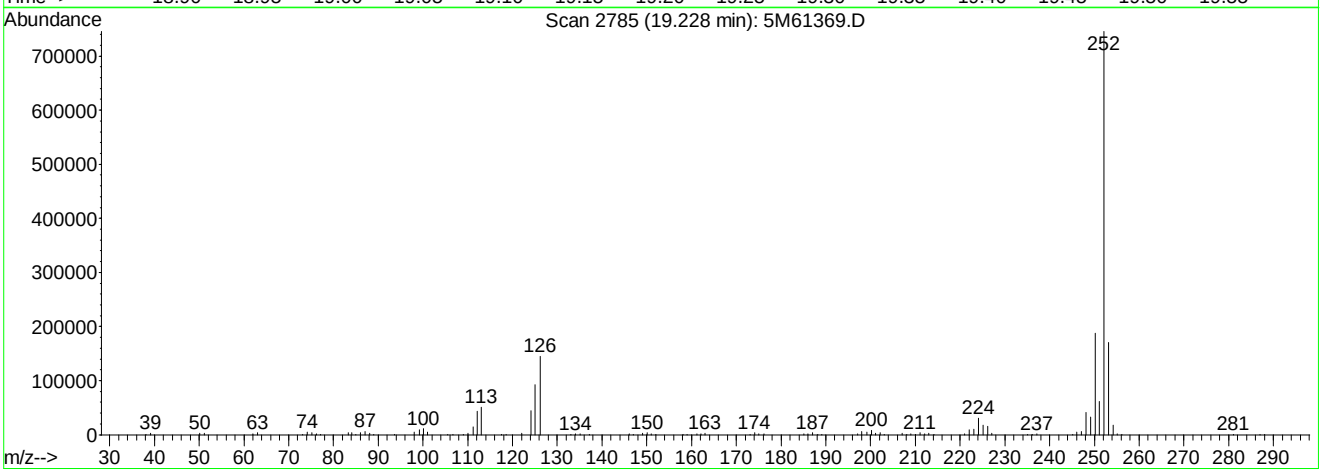
5M61369.D MEGAMIX.M Wed Dec 22 14:33:57 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 13:59:36 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(132) Benzo[k]fluoranthene

19.23min 87.96ug/ml mint

response 1252204

Ion	Exp%	Act%
252.10	100	100
253.05	22.50	38.54#
125.00	10.20	21.92#
0.00	0.00	0.00

5M61369.D MEGAMIX.M Wed Dec 22 14:34:00 2010

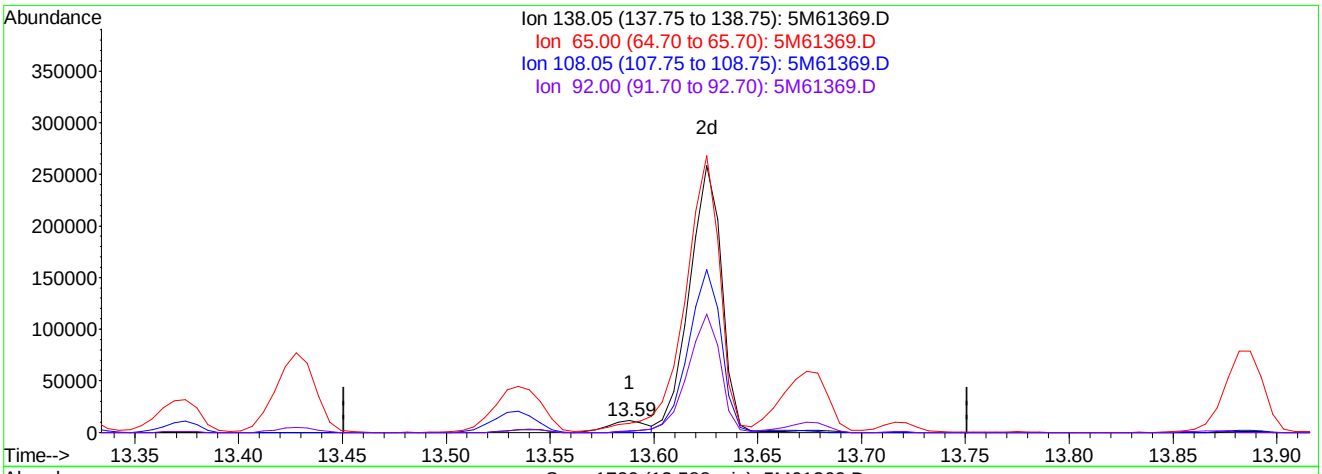
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:50

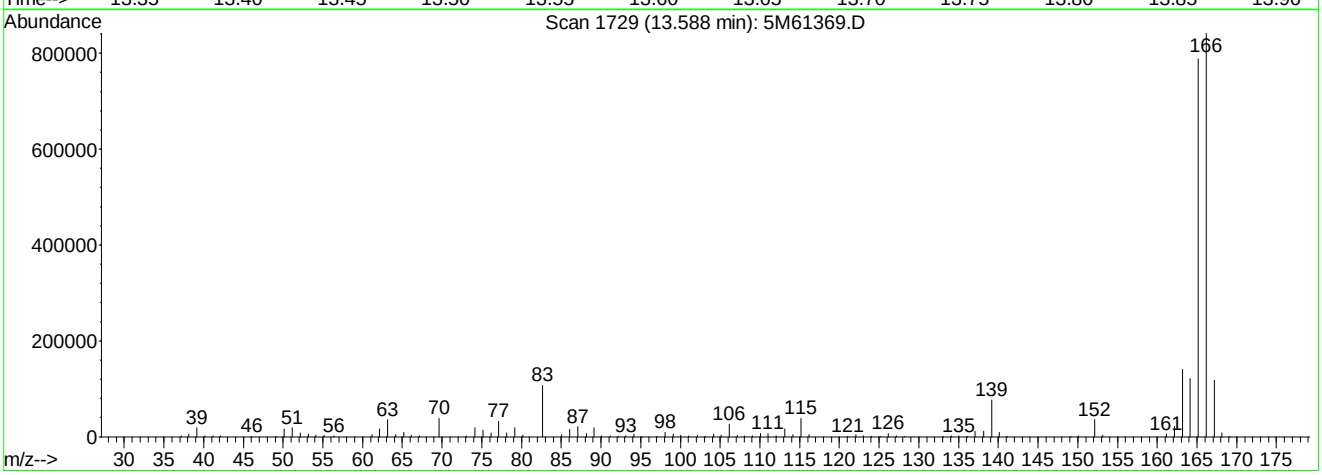
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D          Vial: 8
Acq On    : 22 Dec 2010   2:08 pm                   Operator: CAA
Sample    : WG352225-08 100ppm Megamix STD          Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 14:33 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration
```





TIC: 5M61369.D

(83) 4-Nitroaniline

13.59min 9.72ug/ml

response 14783

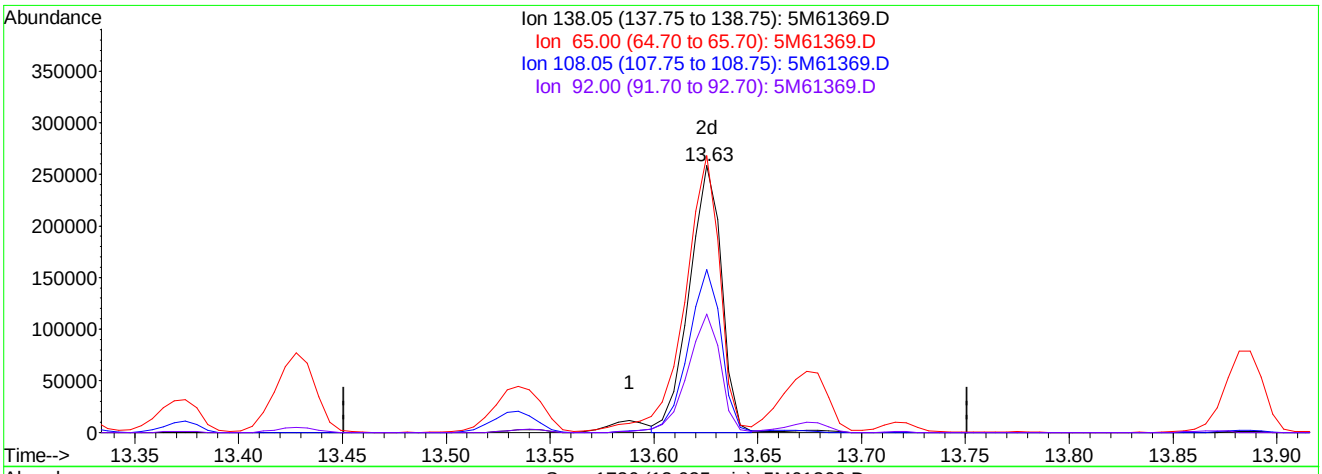
Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

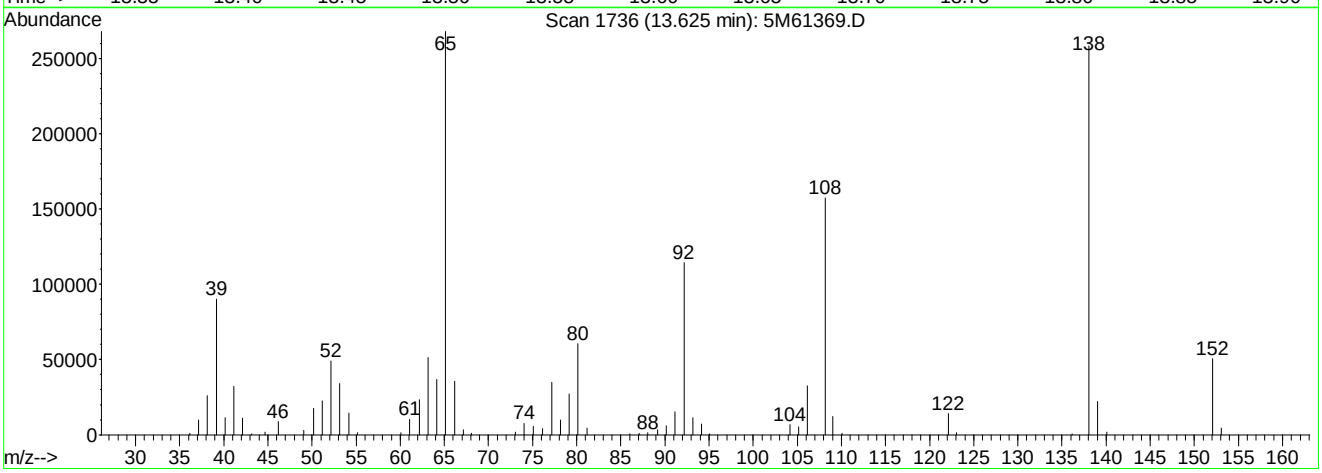
5M61369.D MEGAMIX.M Thu Dec 23 06:42:53 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61369.D Vial: 8
Acq On : 22 Dec 2010 2:08 pm Operator: CAA
Sample : WG352225-08 100ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:42 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration





TIC: 5M61369.D

(83) 4-Nitroaniline

13.63min 184.91ug/ml mint

response 281096

Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

5M61369.D MEGAMIX.M Thu Dec 23 06:42:56 2010

Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:52

#1 - Data system fails to select correct peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 06:38:52 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	162113	40.00 ug/ml	0.00
30) Naphthalene-d8	10.88	136	612622	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	343344	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.62	188	570996	40.00 ug/ml	0.02
113) Chrysene-d12	17.48	240	648851	40.00 ug/ml	0.02
128) Perylene-d12	19.95	264	617888	40.00 ug/ml	0.03

System Monitoring Compounds					
8) 2-Fluorophenol	7.70	112	653827	135.8064 ug/ml	0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 135.81%#		
12) Phenol-d5	8.81	99	794087	131.2242 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 131.22%#		
31) Nitrobenzene-d5	9.99	82	726643	126.0060 ug/ml	0.02
Spiked Amount 50.000	Range 35 - 114		Recovery = 252.02%#		
59) 2-Fluorobiphenyl	12.18	172	1348876	117.3851 ug/ml	0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 234.78%#		
86) 2,4,6-Tribromophenol	13.87	330	198975	109.3965 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 123		Recovery = 109.40%		
117) p-Terphenyl-d14	16.23	244	1175803	104.2156 ug/ml	0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 208.44%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.09	88	271930m	143.0772 ug/ml	
3) n-Nitrosodimethylamine	5.77	74	457542	150.1611 ug/ml#	89
4) Pyridine	5.77	79	738756	163.4512 ug/ml#	70
5) 2-Picoline	6.91	93	777984	145.0796 ug/ml	99
6) n-Nitrosomethylethylamine	7.10	88	330712	151.2187 ug/ml	89
7) Methyl Methanesulfonate	7.50	80	386377	133.0209 ug/ml	98
9) n-Nitrosodiethylamine	8.00	102	320663	138.6223 ug/ml	92
10) Ethyl Methanesulfonate	8.36	79	531425	135.3231 ug/ml	99
11) Aniline	8.90	93	1052380	135.9462 ug/ml	97
13) Phenol	8.83	94	841789	132.2076 ug/ml	94
14) bis(2-Chloroethyl)ether	8.94	63	514618	126.7175 ug/ml	98
15) Pentachloroethane	8.92	167	249949	120.1091 ug/ml	97
16) 2-Chlorophenol	9.05	128	713915	133.2352 ug/ml	99
17) 1,3-Dichlorobenzene	9.23	146	749151	127.5280 ug/ml	99
18) 1,4-Dichlorobenzene	9.29	146	755200	123.7703 ug/ml	99
19) Benzyl Alcohol	9.43	108	463699	135.2687 ug/ml	96
20) 1,2-Dichlorobenzene	9.53	146	713359	126.1650 ug/ml	99
21) 2-Methylphenol	9.57	107	548272	130.8686 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.61	45	1231357	130.0716 ug/ml#	90
23) 3-,4-Methylphenol	9.75	107	707179	130.1281 ug/ml#	63
24) n-Nitrosopyrrolidine	9.80	100	296528	133.1310 ug/ml#	58
25) n-Nitrosodipropylamine	9.81	70	428202	112.9716 ug/ml	81
26) Acetophenone	9.78	105	845031	124.2561 ug/ml#	79
27) n-Nitrosomorpholine	9.80	56	386600	115.3058 ug/ml	91
28) o-Toluidine	9.85	106	1039609	130.5563 ug/ml	98
29) Hexachloroethane	9.92	117	301549	127.8744 ug/ml	94
32) Nitrobenzene	10.02	77	707726	123.4364 ug/ml	99
33) n-Nitrosopiperidine	10.20	114	332012	134.3364 ug/ml	90
34) Isophorone	10.29	82	1332543	127.6475 ug/ml	100
35) 2-Nitrophenol	10.41	139	367666	122.0424 ug/ml	94
36) 2,4-Dimethylphenol	10.40	122	608287	124.0137 ug/ml	98
37) 0,0,0-Triethyl Phosphoroth	10.53	198	290972	111.0926 ug/ml	96
38) bis(2-Chloroethoxy)methane	10.52	93	891019	114.0169 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 06:38:52 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.58	105	663472m	166.8349 ug/ml	
40)	2,4-Dichlorophenol	10.70	162	558322	124.7647 ug/ml	99
41)	a,a-Dimethylphenethylamine	10.83	58	2074049m	139.4742 ug/ml	
42)	1,2,4-Trichlorobenzene	10.81	180	597832	119.5945 ug/ml	99
43)	Naphthalene	10.91	128	1816646	118.5763 ug/ml	98
44)	4-Chloroaniline	10.96	127	837320	125.4460 ug/ml	98
45)	2,6-Dichlorophenol	10.98	162	556600	124.9182 ug/ml	98
46)	Hexachloropropene	11.05	213	386288	120.0891 ug/ml	99
47)	Hexachlorobutadiene	11.10	225	327289	112.4839 ug/ml	100
48)	n-Nitrosodi-n-Butylamine	11.36	84	440159	112.4205 ug/ml#	77
49)	p-Phenylenediamine	11.41	108	278656	81.0379 ug/ml	99
50)	4-Chloro-3-Methylphenol	11.53	107	568610	126.4309 ug/ml	99
51)	Safrole	11.61	162	516400	123.8372 ug/ml	100
52)	2-Methylnaphthalene	11.75	142	1222558	121.5262 ug/ml	100
53)	1-Methylnaphthalene	11.89	142	1217399	121.2267 ug/ml	100
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	535703	110.3128 ug/ml	98
56)	Hexachlorocyclopentadiene	12.00	237	250175	104.3660 ug/ml	100
57)	2,4,6-Trichlorophenol	12.10	196	406845	121.9760 ug/ml	99
58)	2,4,5-Trichlorophenol	12.16	196	421826	118.1859 ug/ml	98
60)	Isosafrole	12.23	162	541371	123.1921 ug/ml	100
61)	2-Chloronaphthalene	12.34	162	1347078	118.0600 ug/ml	98
62)	1-Chloronaphthalene	12.38	162	1088554	115.9584 ug/ml	96
63)	2-Nitroaniline	12.46	65	401409	121.4673 ug/ml	97
64)	1,4-Naphthoquinone	12.52	158	186662	66.8273 ug/ml	100
65)	Dimethylphthalate	12.67	163	1344174	118.4979 ug/ml	99
66)	1,3-Dinitrobenzene	12.72	168	264538	130.3387 ug/ml	90
67)	2,6-Dinitrotoluene	12.76	165	334429	123.0243 ug/ml	98
68)	Acenaphthylene	12.83	152	1846840	115.7639 ug/ml	98
69)	3-Nitroaniline	12.94	138	392415	127.2610 ug/ml	99
70)	2,4-Dinitrophenol	13.06	184	229581	184.2263 ug/ml	40
71)	Acenaphthene	13.03	154	1213669	121.1097 ug/ml	98
72)	4-Nitrophenol	13.08	65	365426	136.7563 ug/ml	98
73)	2,4-Dinitrotoluene	13.22	165	427000	120.8160 ug/ml	90
74)	Pentachlorobenzene	13.23	250	505384	110.5125 ug/ml	99
75)	Dibenzofuran	13.21	168	1511843	111.5055 ug/ml	98
76)	2,3,4,6-Tetrachlorophenol	13.33	232	361023	122.0403 ug/ml	99
77)	1-Naphthylamine	13.30	143	1208573	123.1536 ug/ml	99
78)	2-Naphthylamine	13.39	143	1155780	121.6263 ug/ml	99
79)	Diethylphthalate	13.43	149	1321369	115.3289 ug/ml	98
80)	Thionazin	13.54	107	204088	111.6159 ug/ml	97
81)	Fluorene	13.59	166	1356035	117.4887 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.55	204	568265	104.2355 ug/ml	99
83)	4-Nitroaniline	13.64	138	385959m	230.6812 ug/ml	
84)	5-Nitro-o-Toluidine	13.62	152	435522	126.1606 ug/ml	98
85)	1,2-Diphenylhydrazine	13.72	77	1340572	113.0493 ug/ml	98
88)	4,6-Dinitro-2-Methylphenol	13.68	198	251292	124.9107 ug/ml	79
89)	n-Nitrosodiphenylamine	13.69	169	1138219	120.9309 ug/ml	99
90)	Sulfotepp	13.89	322	246265	120.1647 ug/ml	97
91)	Sym-Trinitrobenzene	14.02	75	951865	268.4381 ug/ml#	54
92)	Diallate	14.00	86	476154	116.9942 ug/ml#	59
93)	Phenacetin	14.03	108	626447	118.5636 ug/ml	98
94)	Phorate	14.02	75	951865	135.8550 ug/ml#	89
95)	4-Bromophenyl Phenyl Ether	14.08	248	396959	119.2402 ug/ml	98
96)	Hexachlorobenzene	14.28	284	422082	113.9952 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 06:38:52 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Initial Calibration
DataAcq Meth : BNA

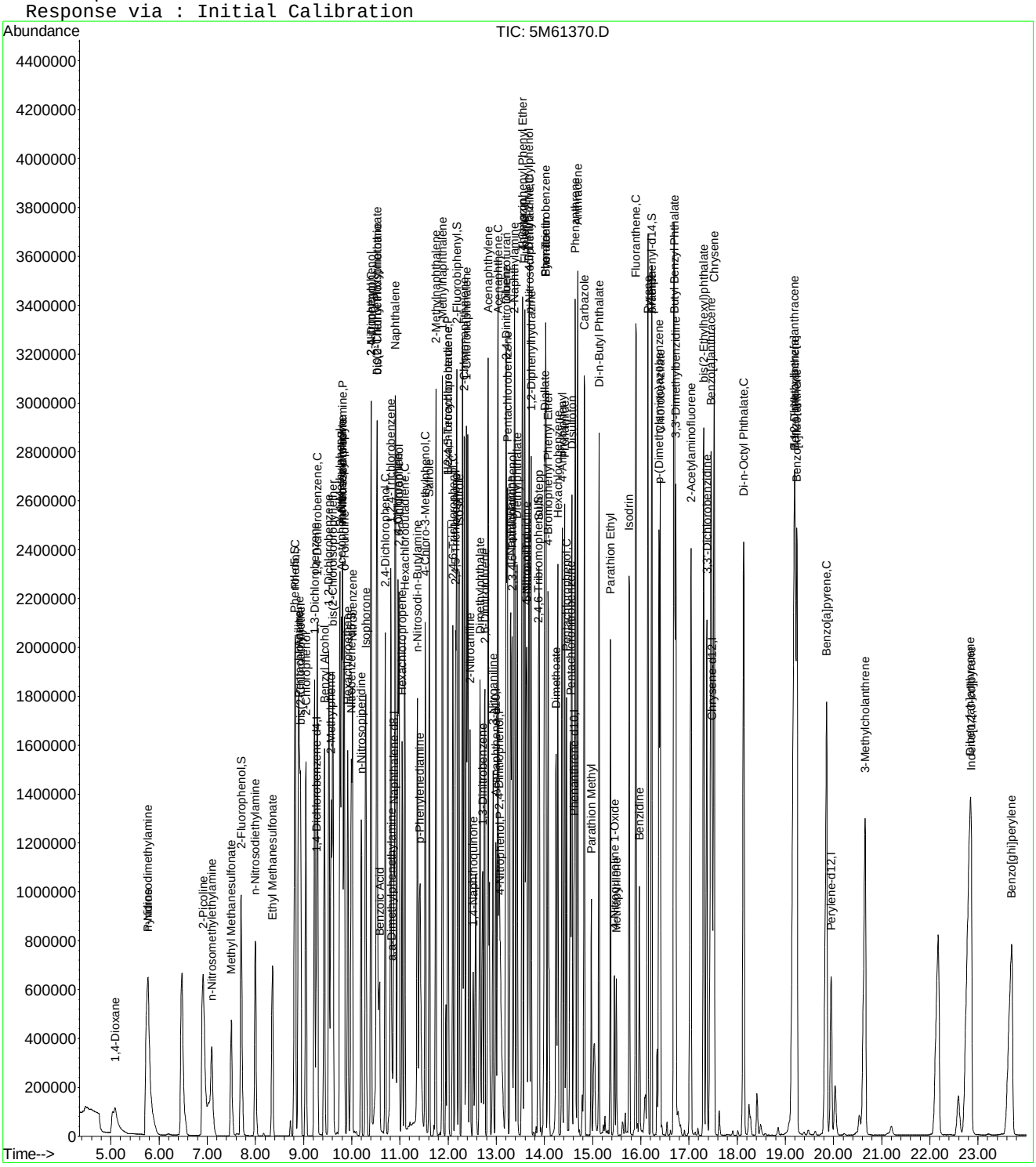
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.24	87	200247	63.5979 ug/ml	98
98)	4-Aminobiphenyl	14.37	169	1241859	118.4701 ug/ml	99
99)	Pentachlorophenol	14.46	266	292313	124.5269 ug/ml	100
100)	Pronamide	14.42	173	575659	117.5440 ug/ml	99
101)	Pentachloronitrobenzene	14.54	237	165861	114.9371 ug/ml	99
102)	Disulfoton	14.57	88	691950	122.8365 ug/ml	99
103)	Phenanthrene	14.64	178	1830957	117.4335 ug/ml	98
104)	Anthracene	14.69	178	1825850	117.0735 ug/ml	98
105)	Carbazole	14.83	167	1773488	121.8257 ug/ml	98
106)	Parathion Methyl	14.97	109	201798	69.8052 ug/ml	99
107)	Di-n-Butyl Phthalate	15.13	149	2098518	114.6943 ug/ml	99
108)	Parathion Ethyl	15.37	97	254837	117.3698 ug/ml	96
109)	4-Nitroquinoline 1-Oxide	15.45	190	106766	114.9047 ug/ml	98
110)	Methapyrilene	15.49	58	254723	83.6109 ug/ml	99
111)	Isodrin	15.76	193	217263	117.3518 ug/ml	95
112)	Fluoranthene	15.90	202	1877932	116.0473 ug/ml	98
114)	Benzidine	15.97	184	567523	98.9252 ug/ml	100
115)	Pyrene	16.15	202	1905800	108.7294 ug/ml	98
116)	Aramite	16.23	185	110165	97.5675 ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.38	225	435339	115.6517 ug/ml	95
119)	Chlorobenzilate	16.40	251	643355	118.3641 ug/ml	99
121)	Butyl Benzyl Phthalate	16.70	149	846420	102.4733 ug/ml	95
122)	3,3'-Dimethylbenzidine	16.73	212	1528143	110.2775 ug/ml	99
123)	2-Acetylaminofluorene	17.05	181	886879	125.8581 ug/ml	98
124)	bis(2-Ethylhexyl)phthalate	17.31	149	1379917	113.3040 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.37	252	744768	119.5467 ug/ml	99
126)	Benzo[a]anthracene	17.46	228	2108230	120.0684 ug/ml	98
127)	Chrysene	17.53	228	1911057	115.6753 ug/ml	98
129)	Di-n-Octyl Phthalate	18.14	149	2438582	125.9660 ug/ml	95
130)	7,12-Dimethylbenz[a]anthra	19.18	256	1014634	127.1087 ug/ml	98
131)	Benzo[b]fluoranthene	19.21	252	2838889	149.9260 ug/ml	97
132)	Benzo[k]fluoranthene	19.25	252	1482632m	100.6273 ug/ml	
133)	Benzo[a]pyrene	19.86	252	2016140	130.2636 ug/ml	98
134)	3-Methylcholanthrene	20.66	268	1014596	126.5860 ug/ml	99
135)	Indeno[1,2,3-cd]pyrene	22.86	276	2127838	124.4710 ug/ml	95
136)	Dibenz[ah]anthracene	22.84	278	1794903	126.2633 ug/ml	97
137)	Benzo[ghi]perylene	23.70	276	1701314	125.3615 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:43 2010 Quant Results File: MEGAMIX.RES

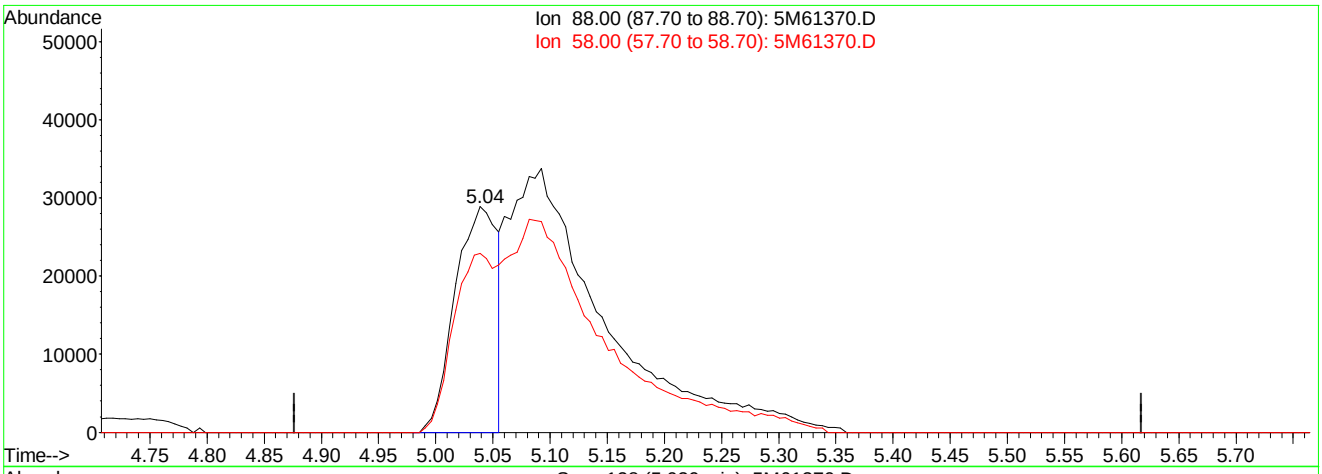
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration

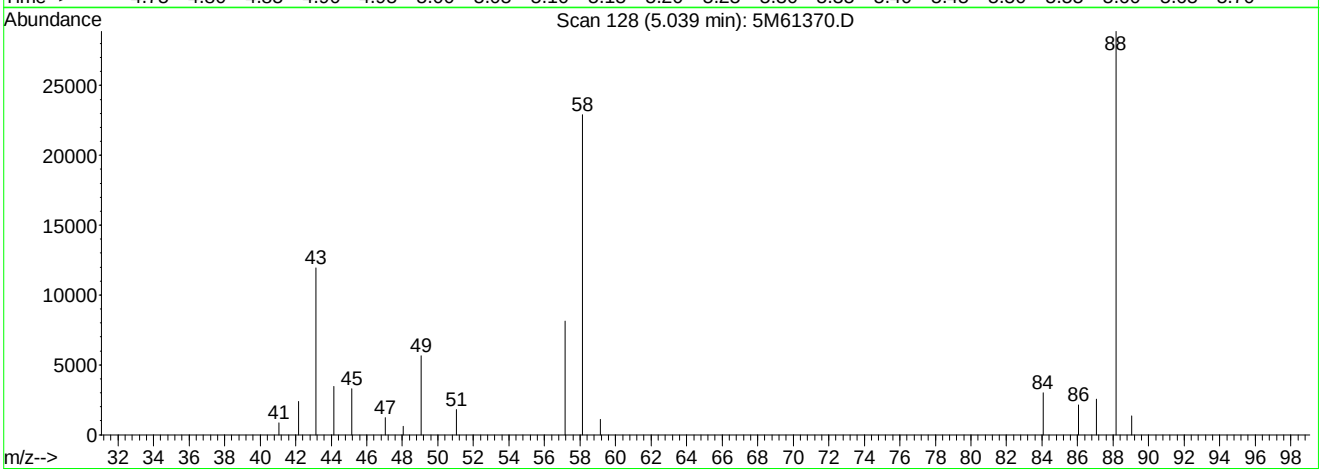


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:38 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(2) 1,4-Dioxane

5.04min 38.96ug/ml

response 74050

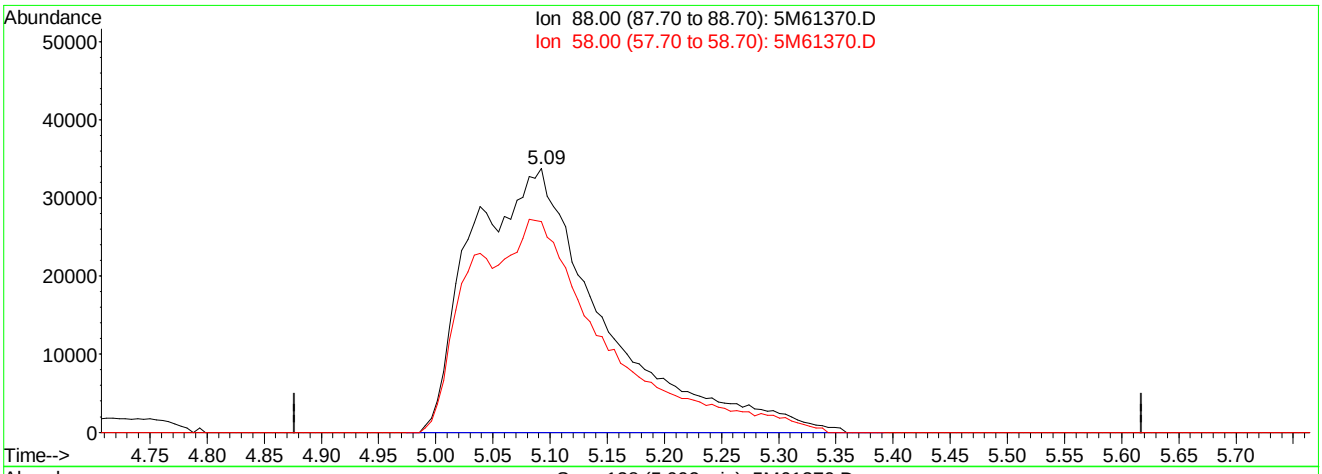
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	72.75
0.00	0.00	0.00
0.00	0.00	0.00

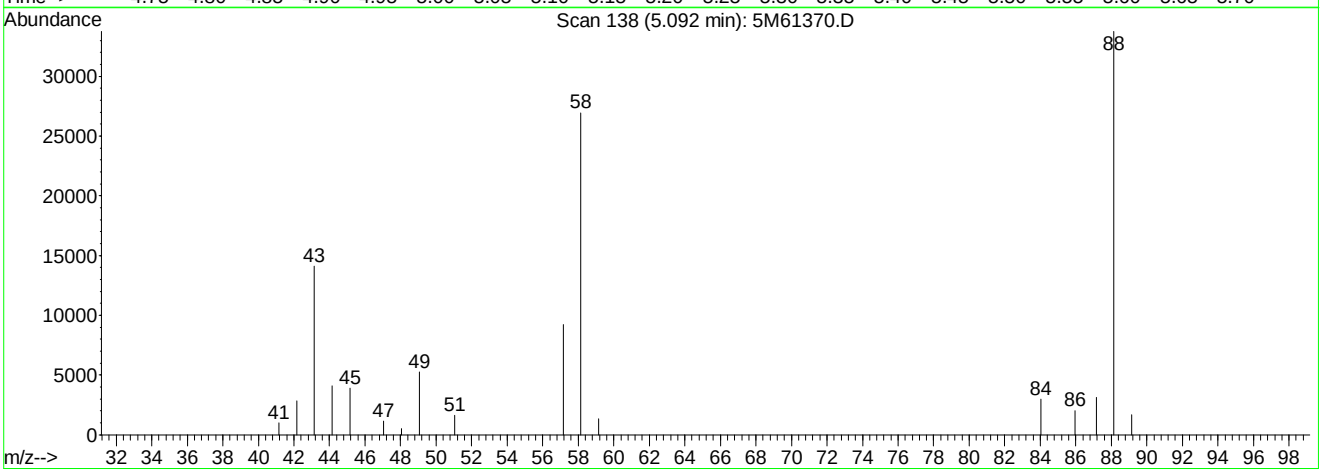
5M61370.D MEGAMIX.M Thu Dec 23 06:38:58 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:38 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(2) 1,4-Dioxane

5.09min 143.08ug/ml mint

response 271930

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	19.81#
0.00	0.00	0.00
0.00	0.00	0.00

5M61370.D MEGAMIX.M Thu Dec 23 06:39:01 2010

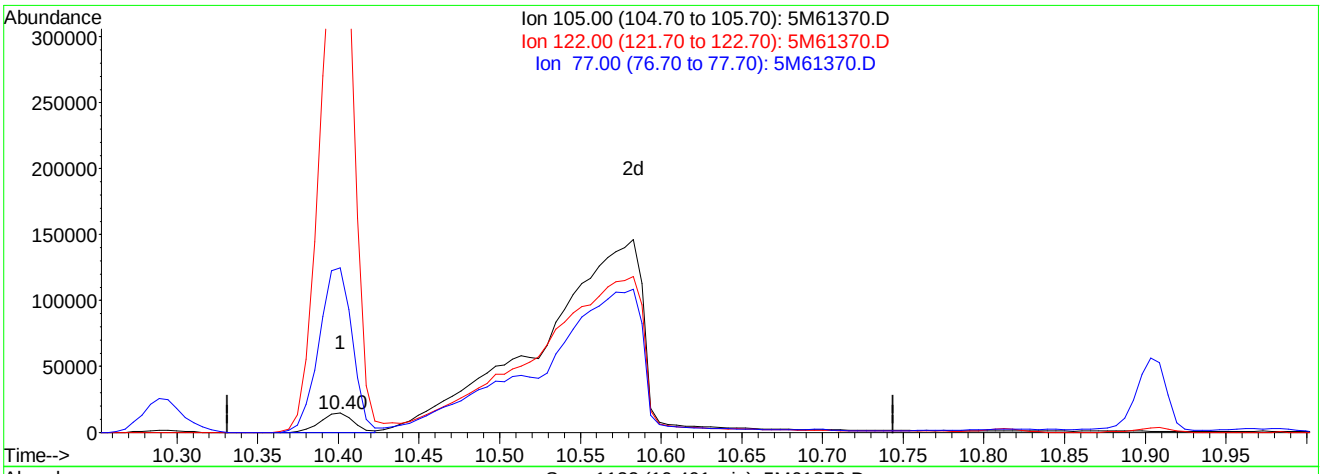
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:51

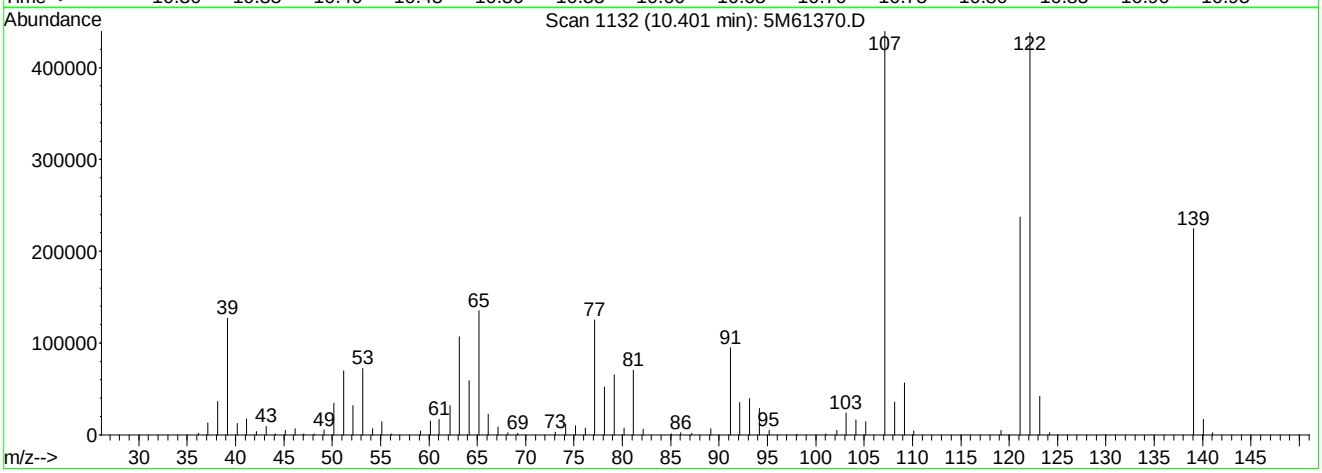
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:38 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(39) Benzoic Acid

10.40min 5.30ug/ml

response 21066

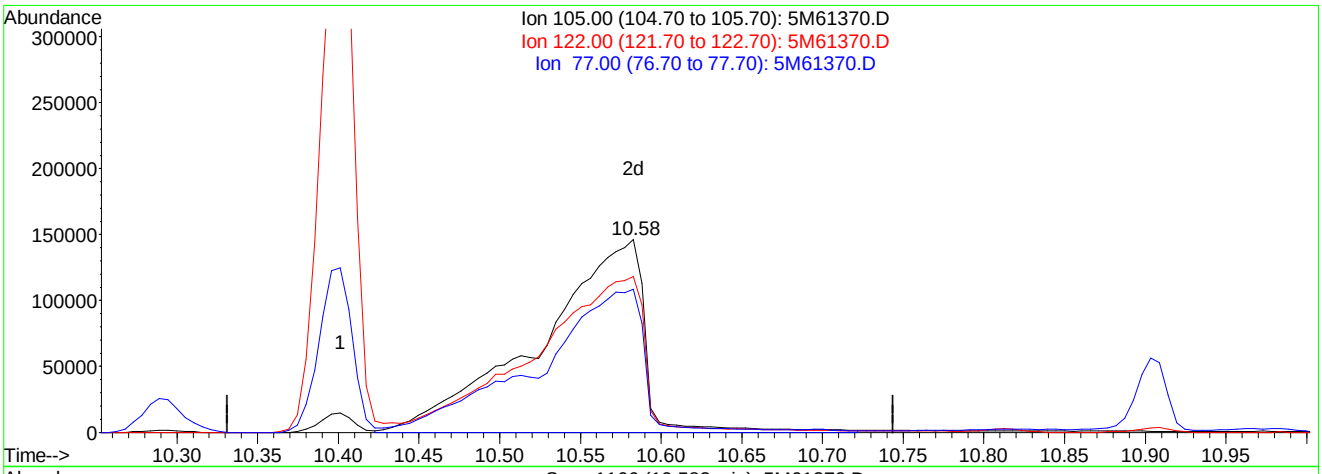
Ion	Exp%	Act%
105.00	100	100
122.00	65.50	2887.53#
77.00	77.80	854.98#
0.00	0.00	0.00

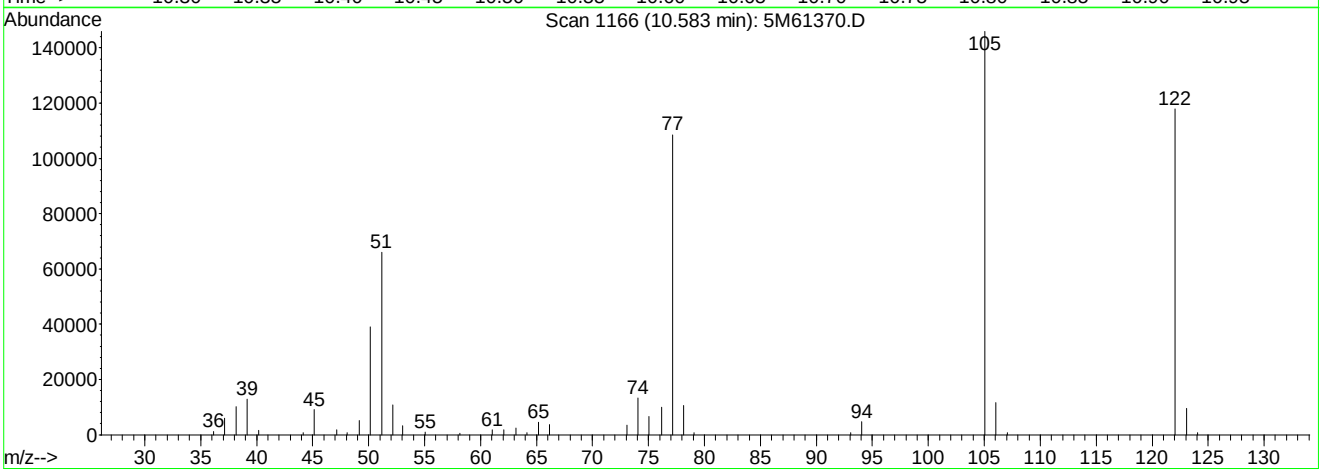
5M61370.D MEGAMIX.M Thu Dec 23 06:39:06 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:39 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(39) Benzoic Acid

10.58min 166.83ug/ml mint

response 663472

Ion	Exp%	Act%
105.00	100	100
122.00	65.50	91.68
77.00	77.80	27.15#
0.00	0.00	0.00

5M61370.D MEGAMIX.M Thu Dec 23 06:39:10 2010

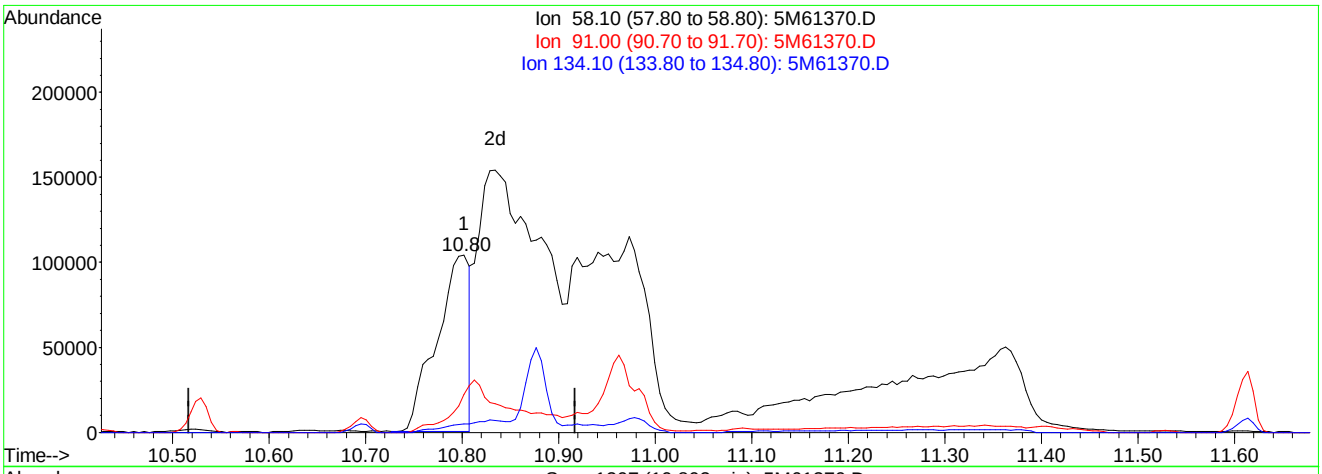
Analyst: 12/23/2010 11:02 Supervisor: 12/23/2010 11:51

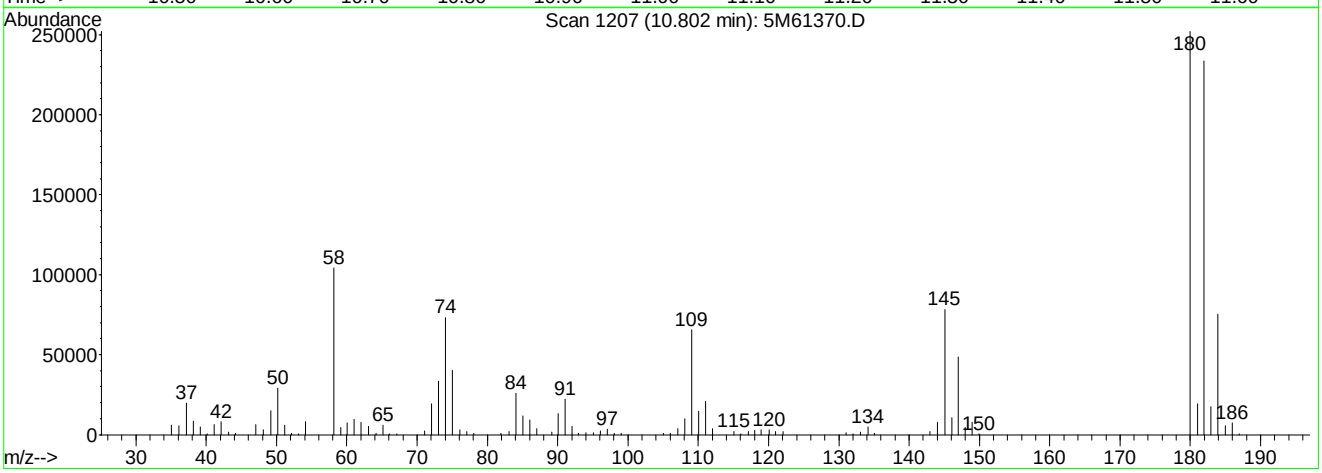
#1 - Data system fails to select correct peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:39 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(41) a,a-Dimethylphenethylamine

10.80min 16.52ug/ml

response 245721

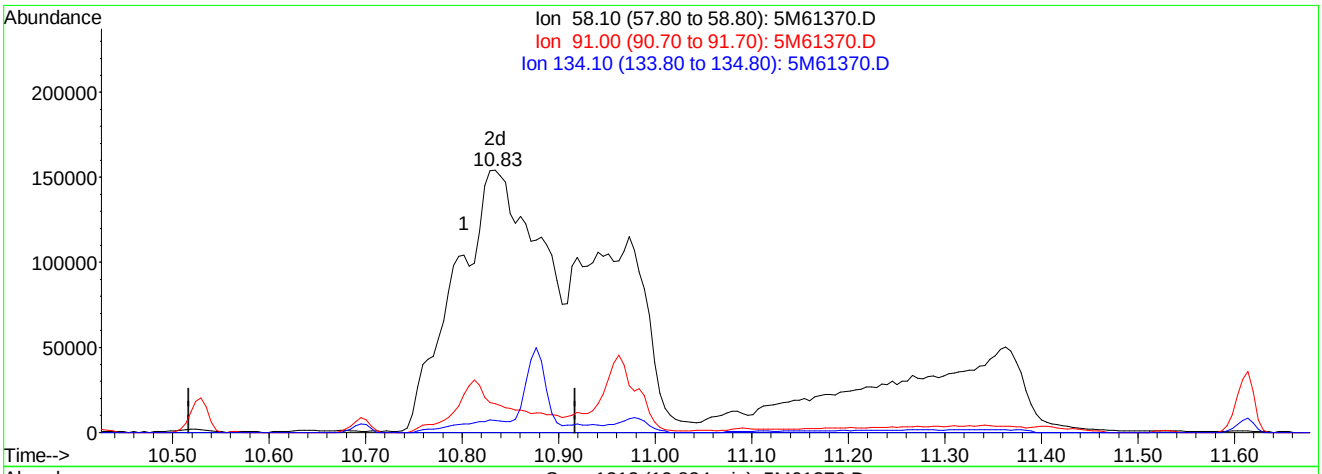
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	47.77#
134.10	2.40	0.00#
0.00	0.00	0.00

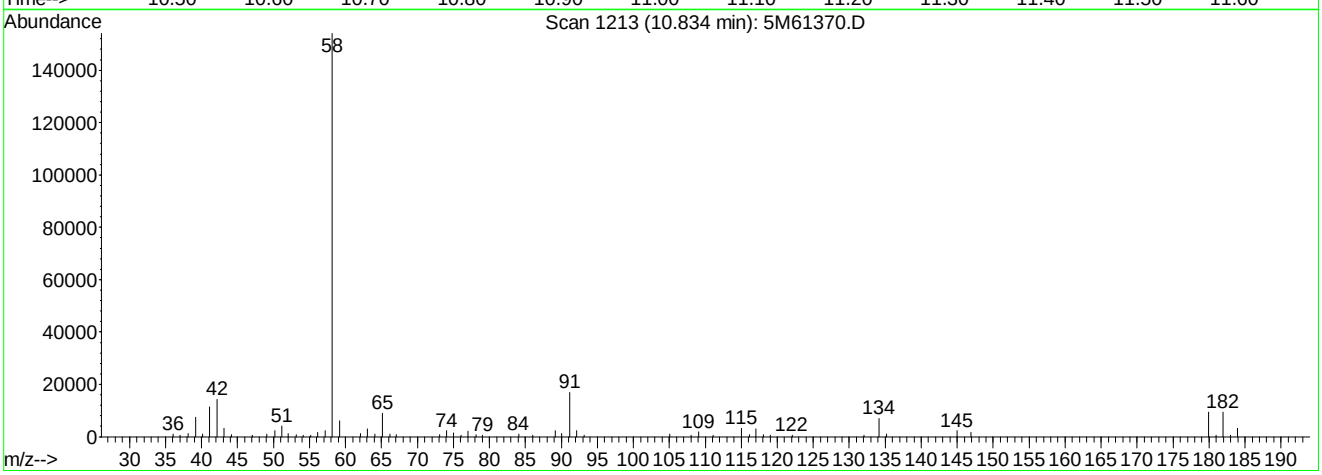
5M61370.D MEGAMIX.M Thu Dec 23 06:39:14 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:39 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(41) a,a-Dimethylphenethylamine

10.83min 139.47ug/ml mint

response 2074049

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	5.66
134.10	2.40	0.00#
0.00	0.00	0.00

5M61370.D MEGAMIX.M Thu Dec 23 06:39:17 2010

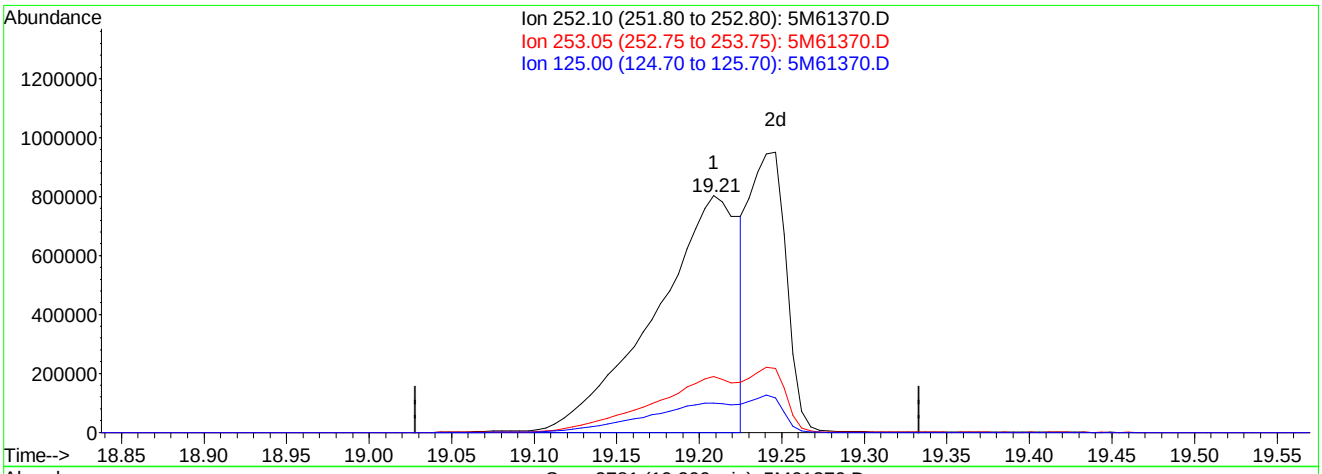
Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:51

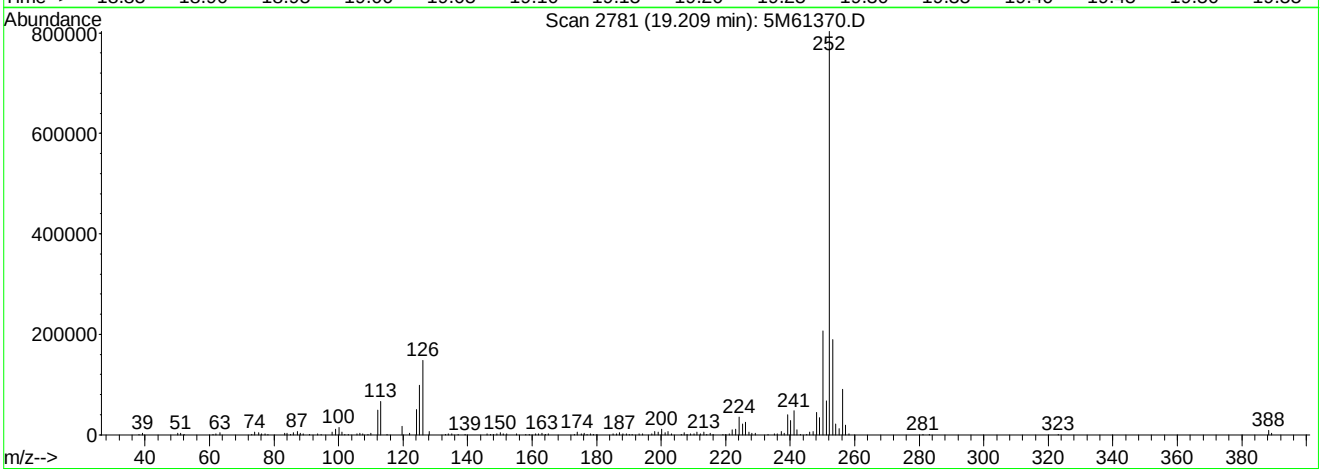
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D          Vial: 9
Acq On    : 22 Dec 2010   2:43 pm                   Operator: CAA
Sample    : WG352225-09 120ppm Megamix STD          Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23  6:39 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration
```





TIC: 5M61370.D

(132) Benzo[k]fluoranthene

19.21min 192.67ug/ml

response 2838755

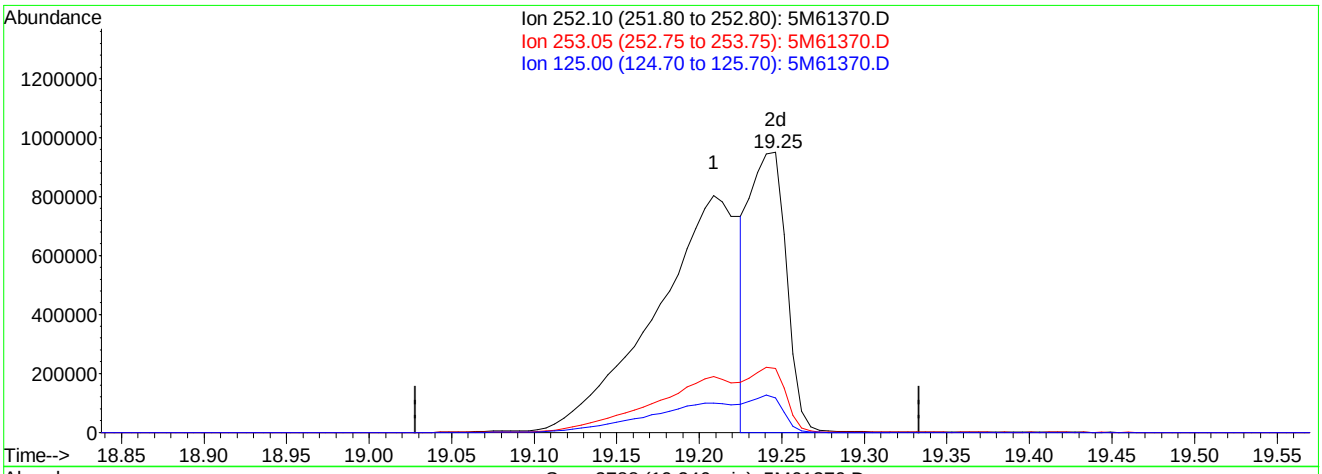
Ion	Exp%	Act%
252.10	100	100
253.05	22.50	22.42
125.00	10.20	12.78
0.00	0.00	0.00

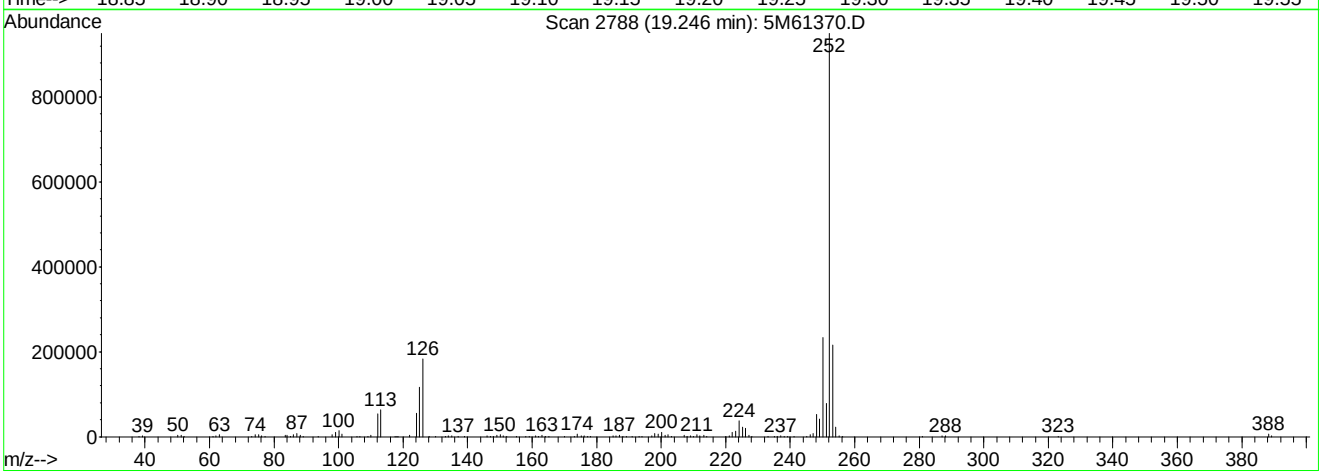
5M61370.D MEGAMIX.M Thu Dec 23 06:39:25 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:39 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Wed Dec 22 14:34:05 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(132) Benzo[k]fluoranthene

19.25min 100.63ug/ml mint

response 1482632

Ion	Exp%	Act%
252.10	100	100
253.05	22.50	42.92#
125.00	10.20	24.46#
0.00	0.00	0.00

5M61370.D MEGAMIX.M Thu Dec 23 06:39:29 2010

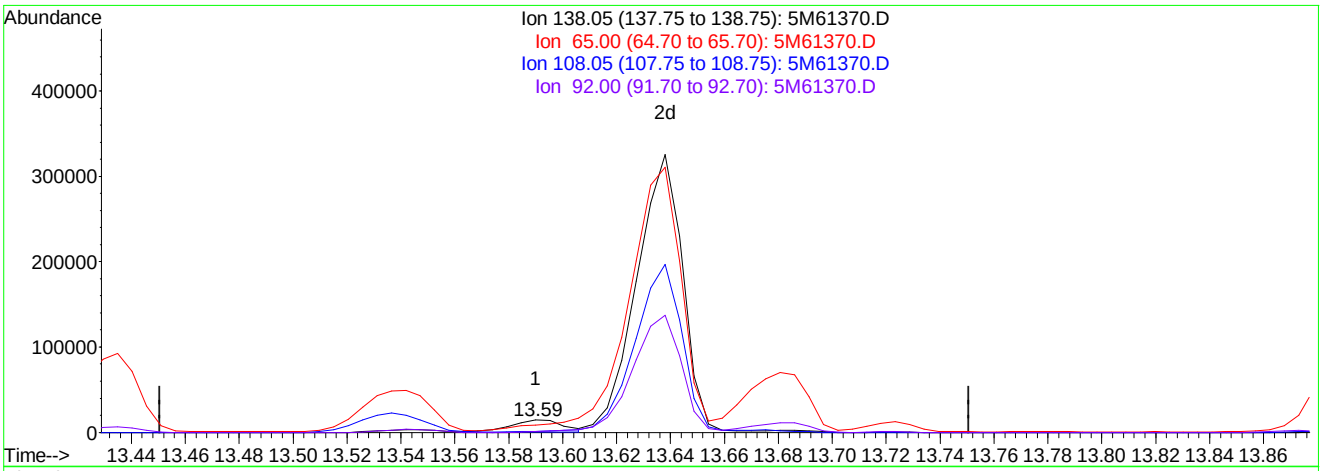
Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:52

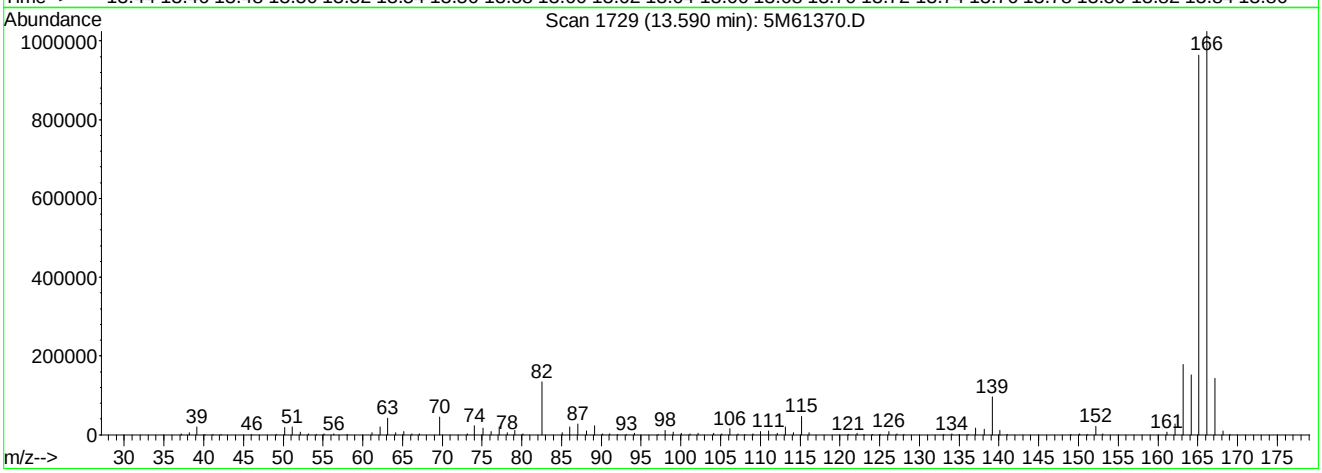
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D          Vial: 9
Acq On    : 22 Dec 2010   2:43 pm                   Operator: CAA
Sample    : WG352225-09 120ppm Megamix STD          Inst    : HPMS5
Misc      : 1,1 STD42372                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23  6:39 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration
```





TIC: 5M61370.D

(83) 4-Nitroaniline

13.59min 10.89ug/ml

response 18226

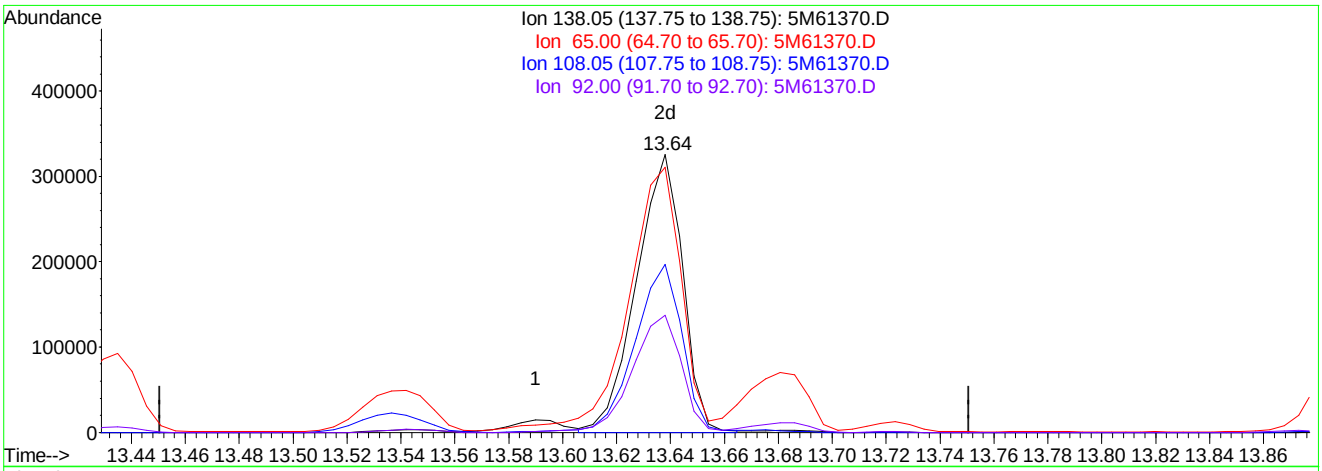
Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

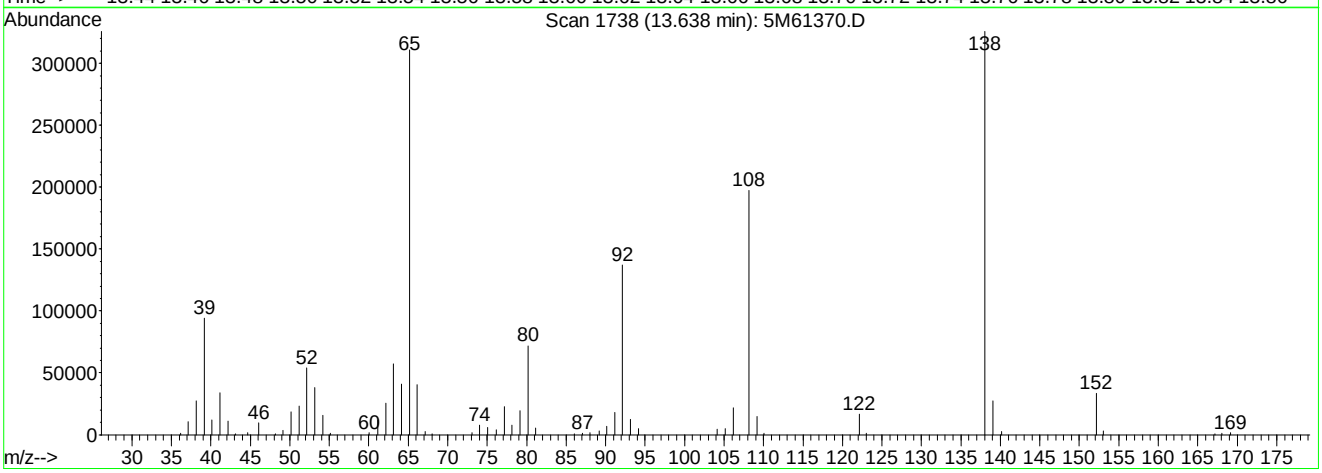
5M61370.D MEGAMIX.M Thu Dec 23 06:43:03 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61370.D Vial: 9
Acq On : 22 Dec 2010 2:43 pm Operator: CAA
Sample : WG352225-09 120ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 6:43 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:40:38 2010
Response via : Multiple Level Calibration





TIC: 5M61370.D

(83) 4-Nitroaniline

13.64min 230.68ug/ml mint

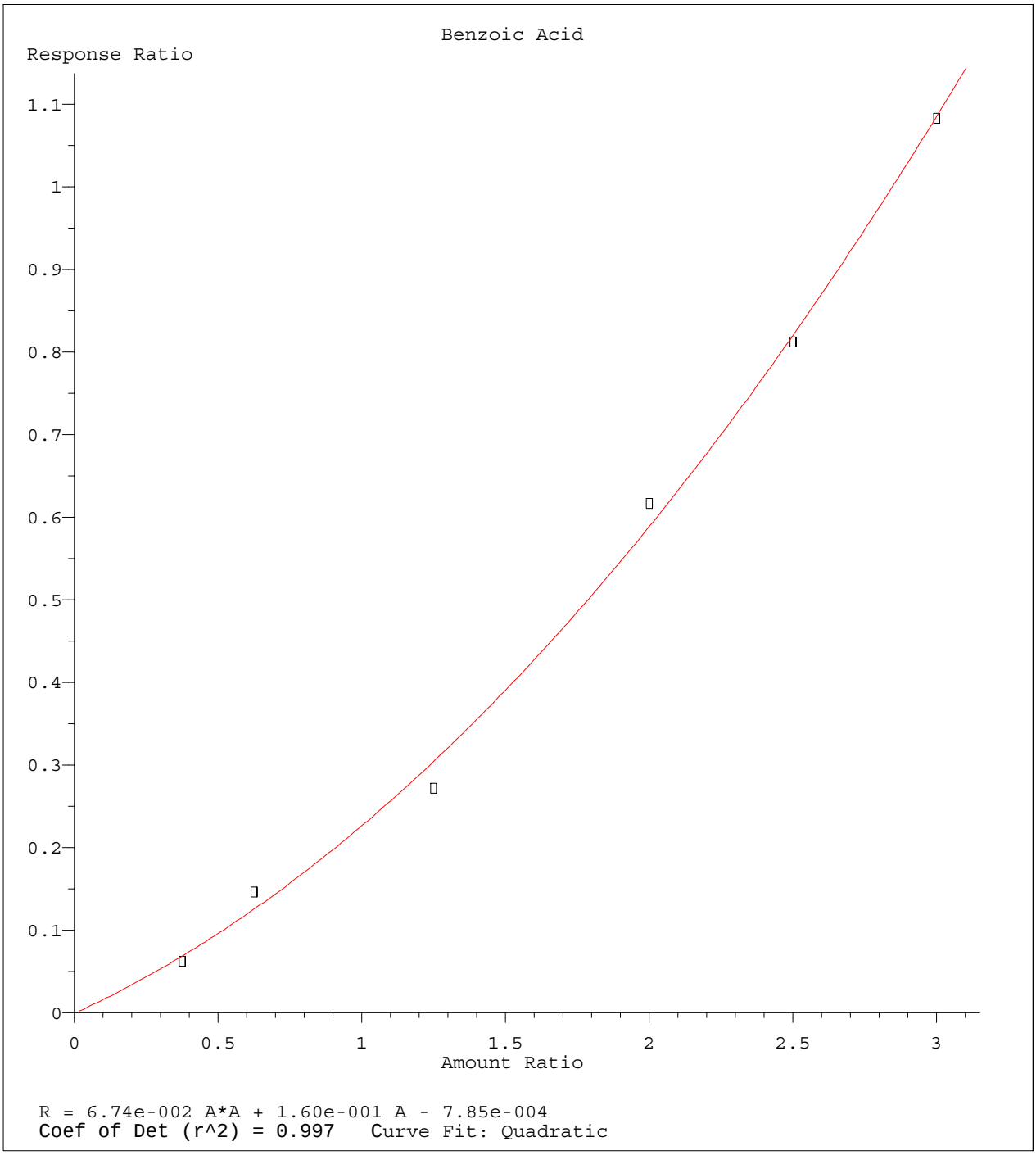
response 385959

Ion	Exp%	Act%
138.05	100	100
65.00	109.70	0.00#
108.05	61.20	0.00#
92.00	41.60	0.00#

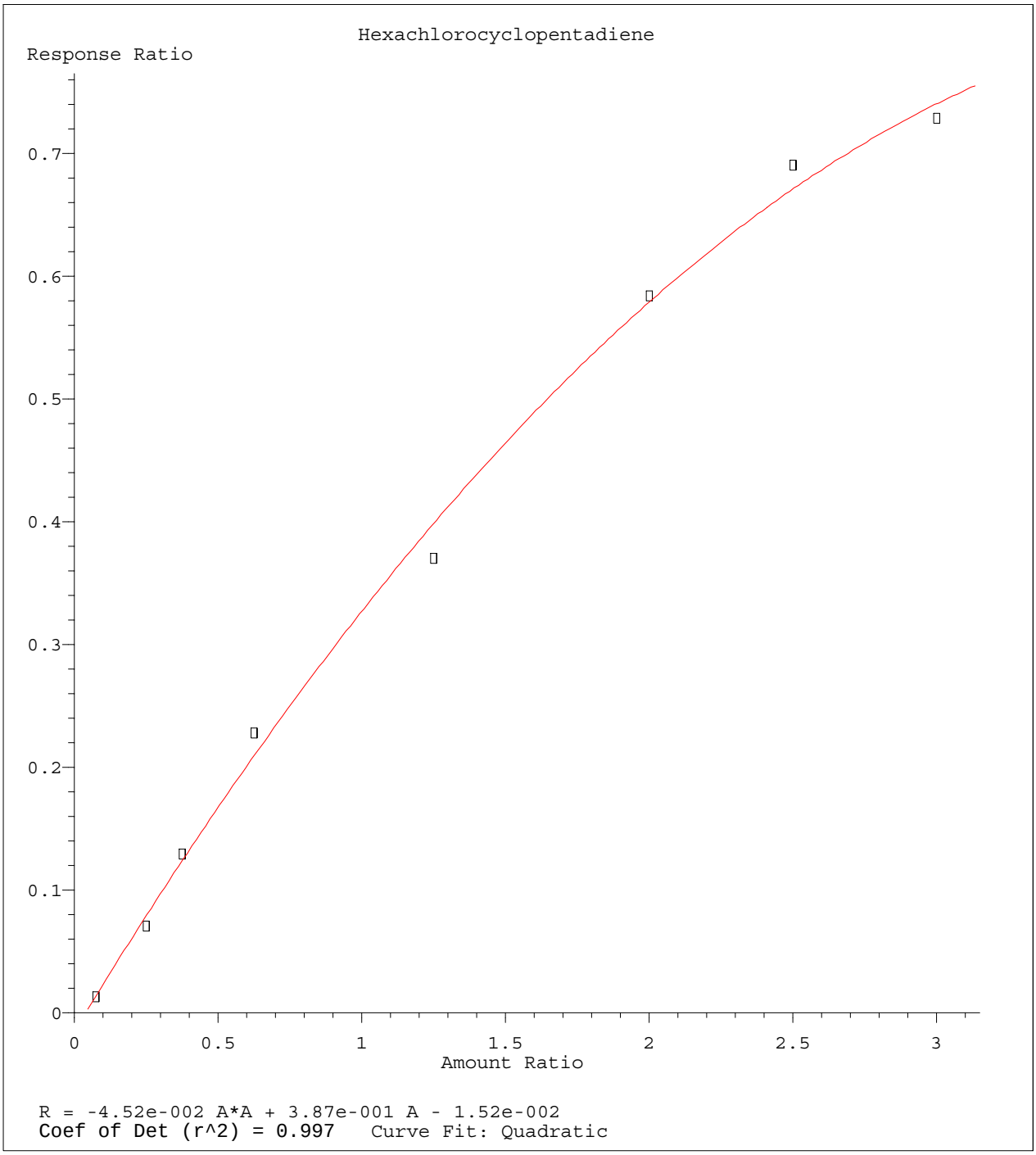
5M61370.D MEGAMIX.M Thu Dec 23 06:43:06 2010

Analyst: 12/23/2010 11:03 Supervisor: 12/23/2010 11:53

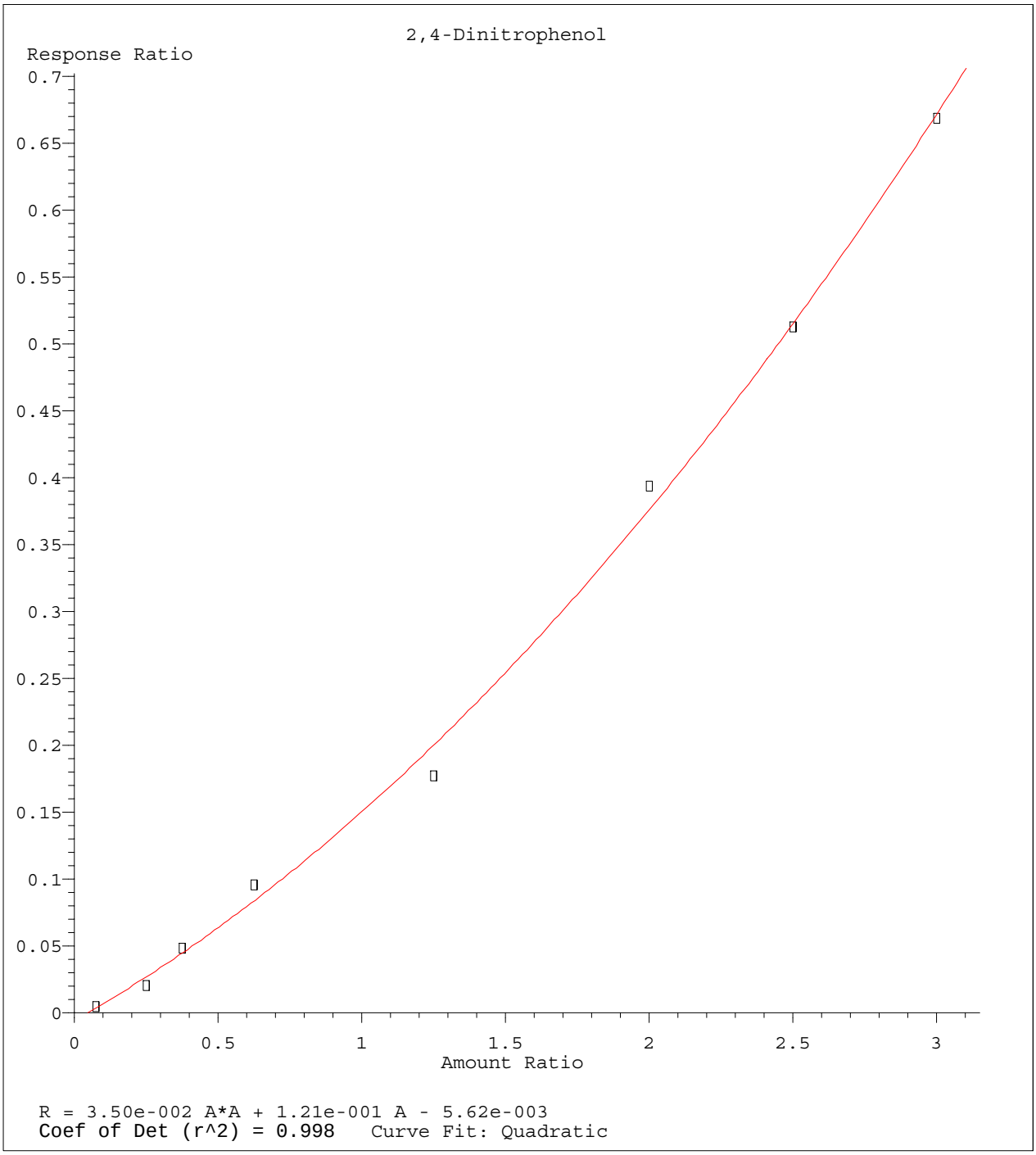
#1 - Data system fails to select correct peak



Method Name: C:\MSDCHEM\1\METHODS\MEGAMIX.M
Calibration Table Last Updated: Thu Dec 23 06:45:40 2010



Method Name: C:\MSDCHEM\1\METHODS\MEGAMIX.M
Calibration Table Last Updated: Thu Dec 23 06:45:40 2010



Method Name: C:\MSDCHEM\1\METHODS\MEGAMIX.M
Calibration Table Last Updated: Thu Dec 23 06:45:40 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61371.D Vial: 10
Acq On : 22 Dec 2010 3:17 pm Operator: CAA
Sample : WG352225-10 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD42901 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:48:56 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.27	152	151770	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	562872	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	307448	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	523032	40.00 ug/ml	0.00
113) Chrysene-d12	17.47	240	561555	40.00 ug/ml	0.00
128) Perylene-d12	19.93	264	584438	40.00 ug/ml	0.00

System Monitoring Compounds

8) 2-Fluorophenol	0.00	112	0	0.0000 ug/ml	
Spiked Amount 100.000	Range 21 - 100		Recovery	= 0.00%#	
12) Phenol-d5	8.81	99	1184	0.2093 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 94		Recovery	= 0.21%#	
31) Nitrobenzene-d5	9.91	82	26219	4.9441 ug/ml	-0.06
Spiked Amount 50.000	Range 35 - 114		Recovery	= 9.88%#	
59) 2-Fluorobiphenyl	12.17	172	661	0.0641 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery	= 0.12%#	
86) 2,4,6-Tribromophenol	0.00	330	0	0.0000 ug/ml	
Spiked Amount 100.000	Range 10 - 123		Recovery	= 0.00%#	
117) p-Terphenyl-d14	16.22	244	183	0.0190 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery	= 0.04%#	

Target Compounds					Qvalue
2) 1,4-Dioxane	5.15	88	100418	50.6931 ug/ml	98
3) n-Nitrosodimethylamine	5.81	74	165332	50.7656 ug/ml	90
4) Pyridine	5.83	79	280294	52.6206 ug/ml	95
5) 2-Picoline	6.93	93	279000	54.5744 ug/ml	98
6) n-Nitrosomethylethylamine	7.11	88	114891	49.1977 ug/ml	92
7) Methyl Methanesulfonate	7.51	80	135858	49.1794 ug/ml	98
9) n-Nitrosodiethylamine	8.00	102	124802	57.2048 ug/ml	92
10) Ethyl Methanesulfonate	8.35	79	190409	51.3988 ug/ml	99
11) Aniline	8.89	93	371878	51.2686 ug/ml	99
13) Phenol	8.82	94	316674	53.1344 ug/ml	95
14) bis(2-Chloroethyl)ether	8.93	63	194763	50.5005 ug/ml	99
15) Pentachloroethane	8.92	167	98511	50.6405 ug/ml	99
16) 2-Chlorophenol	9.04	128	270138	53.2386 ug/ml	99
17) 1,3-Dichlorobenzene	9.23	146	292440	52.9235 ug/ml	99
18) 1,4-Dichlorobenzene	9.29	146	291973	51.1048 ug/ml	99
19) Benzyl Alcohol	9.42	108	185877	57.5290 ug/ml	97
20) 1,2-Dichlorobenzene	9.52	146	277674	52.3020 ug/ml	100
21) 2-Methylphenol	9.56	107	208760	53.4743 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.60	45	500349	53.5242 ug/ml	100
23) 3-,4-Methylphenol	9.73	107	270220	53.6325 ug/ml	100
24) n-Nitrosopyrrolidine	9.77	100	112517	54.4715 ug/ml	89
25) n-Nitrosodipropylamine	9.78	70	180931	52.6133 ug/ml	95
26) Acetophenone	9.77	105	303759	48.5355 ug/ml	99
27) n-Nitrosomorpholine	9.78	56	165658	52.9662 ug/ml	99
28) o-Toluidine	9.83	106	375781	50.9302 ug/ml	99
29) Hexachloroethane	9.91	117	115230	52.0813 ug/ml	99
32) Nitrobenzene	10.00	77	280318	53.4590 ug/ml	100
33) n-Nitrosopiperidine	10.18	114	126722	55.0228 ug/ml	94
34) Isophorone	10.28	82	474844	49.3147 ug/ml	100
35) 2-Nitrophenol	10.39	139	145722	52.3374 ug/ml	99
36) 2,4-Dimethylphenol	10.39	122	247115	54.6344 ug/ml	99
37) 0,0,0-Triethyl Phosphoroth	10.52	198	115821	48.6694 ug/ml	90
38) bis(2-Chloroethoxy)methane	10.51	93	381488	53.8156 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61371.D Vial: 10
Acq On : 22 Dec 2010 3:17 pm Operator: CAA
Sample : WG352225-10 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD42901 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:48:56 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.51	105	203880	56.8169 ug/ml	87
40)	2,4-Dichlorophenol	10.68	162	218430	52.6758 ug/ml	99
41)	a,a-Dimethylphenethylamine	10.79	58	805210	56.3376 ug/ml#	88
42)	1,2,4-Trichlorobenzene	10.81	180	225841	48.9803 ug/ml	100
43)	Naphthalene	10.90	128	712646	50.5965 ug/ml	100
44)	4-Chloroaniline	10.95	127	315551	51.0908 ug/ml	99
45)	2,6-Dichlorophenol	10.97	162	211041	51.3141 ug/ml	99
46)	Hexachloropropene	11.04	213	148615	50.0917 ug/ml	100
47)	Hexachlorobutadiene	11.09	225	149594	56.1137 ug/ml	100
48)	n-Nitrosodi-n-Butylamine	11.35	84	166160	46.4899 ug/ml#	81
49)	p-Phenylenediamine	11.39	108	49086	13.0994 ug/ml	99
50)	4-Chloro-3-Methylphenol	11.50	107	213382	51.9185 ug/ml	100
51)	Safrole	11.60	162	200101	52.2210 ug/ml	99
52)	2-Methylnaphthalene	11.74	142	485135	52.3923 ug/ml	100
53)	1-Methylnaphthalene	11.87	142	457938	49.5243 ug/ml	100
55)	1,2,4,5-Tetrachlorobenzene	11.99	216	221912	51.5489 ug/ml	99
56)	Hexachlorocyclopentadiene	12.00	237	45087	17.6168 ug/ml	99
57)	2,4,6-Trichlorophenol	12.08	196	162246	53.8908 ug/ml	100
58)	2,4,5-Trichlorophenol	12.13	196	175128	54.6890 ug/ml	99
60)	Isosafrole	12.21	162	207319	52.4401 ug/ml	100
61)	2-Chloronaphthalene	12.32	162	524666	51.3694 ug/ml	100
62)	1-Chloronaphthalene	12.37	162	421755	50.2401 ug/ml	99
63)	2-Nitroaniline	12.45	65	155239	52.3350 ug/ml	98
64)	1,4-Naphthoquinone	12.52	158	153562	81.4806 ug/ml	98
65)	Dimethylphthalate	12.65	163	512907	50.4947 ug/ml	100
66)	1,3-Dinitrobenzene	12.70	168	105736	57.3949 ug/ml	98
67)	2,6-Dinitrotoluene	12.74	165	131476	53.8736 ug/ml	99
68)	Acenaphthylene	12.82	152	727456	50.8863 ug/ml	100
69)	3-Nitroaniline	12.92	138	145827	51.9211 ug/ml	100
70)	2,4-Dinitrophenol	13.03	184	95004	69.3635 ug/ml	33
71)	Acenaphthene	13.02	154	472506	52.6302 ug/ml	97
72)	4-Nitrophenol	13.05	65	123410	51.1353 ug/ml	99
73)	2,4-Dinitrotoluene	13.19	165	159444	50.5883 ug/ml	99
74)	Pentachlorobenzene	13.22	250	204175	50.1063 ug/ml	100
75)	Dibenzofuran	13.19	168	614701	50.9333 ug/ml	100
76)	2,3,4,6-Tetrachlorophenol	13.31	232	145070	54.8042 ug/ml	99
77)	1-Naphthylamine	13.28	143	333281	37.5500 ug/ml	97
78)	2-Naphthylamine	13.36	143	323826	38.1245 ug/ml	99
79)	Diethylphthalate	13.42	149	517739	50.6810 ug/ml	99
80)	Thionazin	13.52	107	86753	53.9015 ug/ml	99
81)	Fluorene	13.58	166	518616	50.4413 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.54	204	242531	50.7839 ug/ml	100
83)	4-Nitroaniline	13.60	138	142451	50.3876 ug/ml	99
84)	5-Nitro-o-Toluidine	13.59	152	157486	50.9063 ug/ml	100
85)	1,2-Diphenylhydrazine	13.71	77	533085	51.0613 ug/ml	99
88)	4,6-Dinitro-2-Methylphenol	13.65	198	113973	62.0836 ug/ml	90
89)	n-Nitrosodiphenylamine	13.66	169	451766	52.2772 ug/ml	100
90)	Sulfotepp	13.88	322	91925	48.0379 ug/ml	96
91)	Sym-Trinitrobenzene	13.97	75	164379	63.9840 ug/ml	99
92)	Diallate	13.99	86	195848	53.0232 ug/ml	92
93)	Phenacetin	13.99	108	253824	52.6852 ug/ml	100
94)	Phorate	14.01	75	314309	50.6709 ug/ml#	99
95)	4-Bromophenyl Phenyl Ether	14.07	248	152545	49.7054 ug/ml	99
96)	Hexachlorobenzene	14.27	284	172926	50.3288 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61371.D Vial: 10
Acq On : 22 Dec 2010 3:17 pm Operator: CAA
Sample : WG352225-10 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD42901 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:48:56 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 06:45:40 2010
Response via : Initial Calibration
DataAcq Meth : BNA

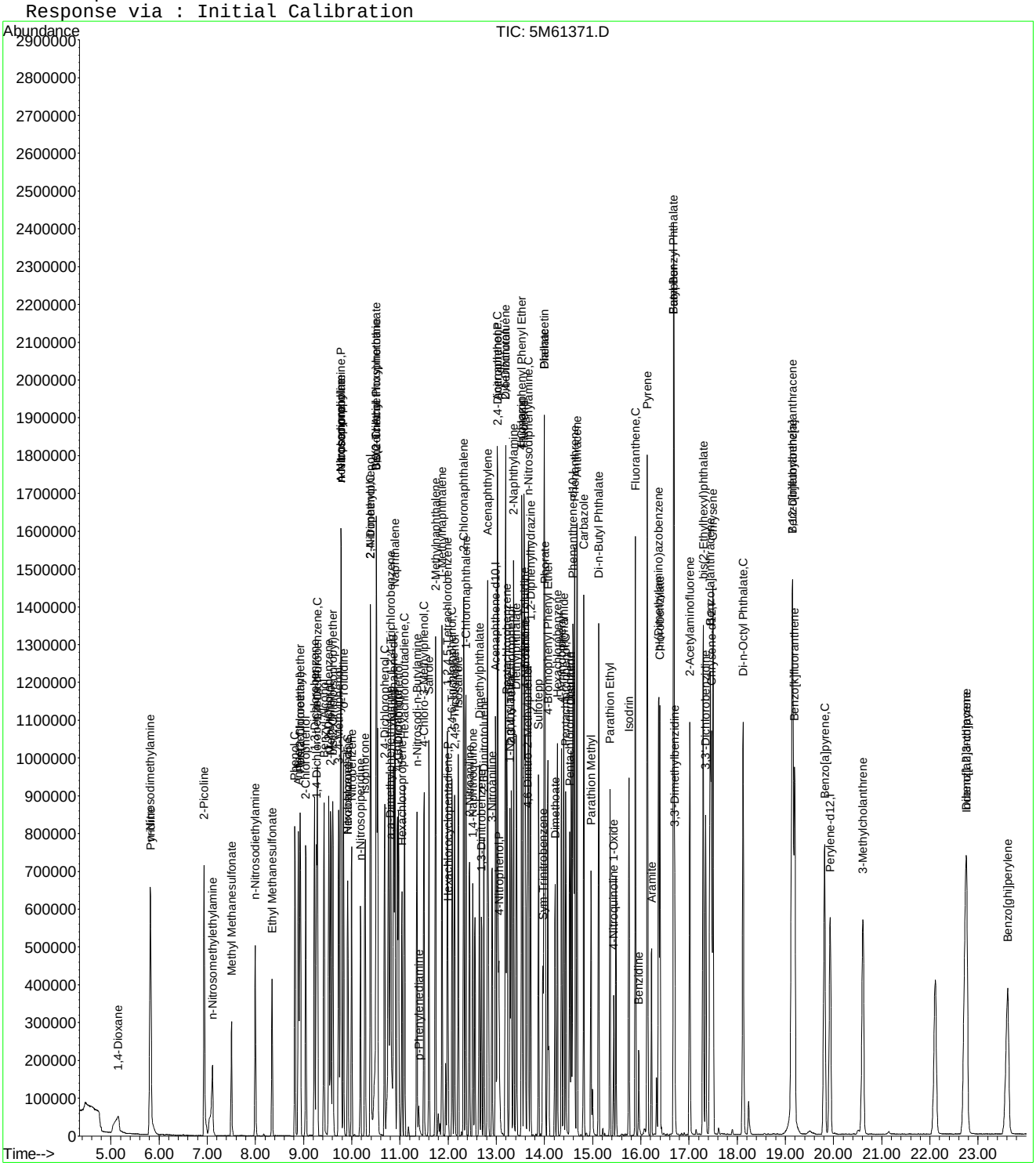
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.22	87	150381	53.5482 ug/ml	95
98)	4-Aminobiphenyl	14.35	169	458447	47.2610 ug/ml	100
99)	Pentachlorophenol	14.44	266	139538	63.4345 ug/ml	100
100)	Pronamide	14.40	173	231720	51.3779 ug/ml	99
101)	Pentachloronitrobenzene	14.52	237	66993	50.2616 ug/ml	99
102)	Disulfoton	14.56	88	253030	48.9855 ug/ml	98
103)	Phenanthrene	14.62	178	721864	50.3620 ug/ml	100
104)	Anthracene	14.67	178	752913	52.5159 ug/ml	100
105)	Carbazole	14.82	167	675520	50.2567 ug/ml	99
106)	Parathion Methyl	14.97	109	143866	52.2855 ug/ml	99
107)	Di-n-Butyl Phthalate	15.13	149	849789	50.1183 ug/ml	100
108)	Parathion Ethyl	15.36	97	104709	52.5199 ug/ml	97
109)	4-Nitroquinoline 1-Oxide	15.44	190	49267	42.5862 ug/ml	98
110)	Methapyrilene	15.48	58	259525	Below Cal	98
111)	Isodrin	15.75	193	85356	50.1126 ug/ml	99
112)	Fluoranthene	15.89	202	768219	51.6190 ug/ml	99
114)	Benzidine	15.95	184	117820	20.3137 ug/ml	100
115)	Pyrene	16.14	202	792164	52.1559 ug/ml	100
116)	Aramite	16.22	185	55313	57.1329 ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.37	225	182211	56.2005 ug/ml	98
119)	Chlorobenzilate	16.40	251	250745	53.0956 ug/ml	98
120)	Famphur	16.68	218	3425	24.5248 ug/ml#	1
121)	Butyl Benzyl Phthalate	16.69	149	377623	53.2228 ug/ml	99
122)	3,3'-Dimethylbenzidine	16.71	212	302341	24.5191 ug/ml	99
123)	2-Acetylaminofluorene	17.02	181	333813	54.7062 ug/ml	99
124)	bis(2-Ethylhexyl)phthalate	17.30	149	550247	51.8718 ug/ml	100
125)	3,3'-Dichlorobenzidine	17.35	252	284002	51.9956 ug/ml	99
126)	Benzo[a]anthracene	17.44	228	779337	51.0453 ug/ml	100
127)	Chrysene	17.50	228	732872	51.2121 ug/ml	100
129)	Di-n-Octyl Phthalate	18.12	149	959641	52.9828 ug/ml	100
130)	7,12-Dimethylbenz[a]anthra	19.14	256	385514	51.7310 ug/ml	99
131)	Benzo[b]fluoranthene	19.15	252	843715	47.0234 ug/ml	99
132)	Benzo[k]fluoranthene	19.19	252	646651	47.5292 ug/ml	98
133)	Benzo[a]pyrene	19.82	252	779645	53.3909 ug/ml	99
134)	3-Methylcholanthrene	20.61	268	423283	55.8688 ug/ml	100
135)	Indeno[1,2,3-cd]pyrene	22.76	276	853558	52.1986 ug/ml	98
136)	Dibenz[ah]anthracene	22.75	278	720201	53.0165 ug/ml	99
137)	Benzo[ghi]perylene	23.61	276	687415	52.6706 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122210\5M61371.D Vial: 10
Acq On : 22 Dec 2010 3:17 pm Operator: CAA
Sample : WG352225-10 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD42901 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:48 2010 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 10:53:32 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:51:50 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.26	152	159139	40.00 ug/ml	0.00
30) Naphthalene-d8	10.87	136	604398	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.99	164	325096	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.60	188	539961	40.00 ug/ml	0.00
113) Chrysene-d12	17.46	240	584224	40.00 ug/ml	0.00
128) Perylene-d12	19.92	264	606180	40.00 ug/ml	0.00

System Monitoring Compounds

8) 2-Fluorophenol	0.00	112	0	0.0000 ug/ml	
Spiked Amount 100.000	Range 21 - 100		Recovery	= 0.00%#	
12) Phenol-d5	8.91	99	1970	0.3322 ug/ml	0.11
Spiked Amount 100.000	Range 10 - 94		Recovery	= 0.33%#	
31) Nitrobenzene-d5	9.91	82	27733	4.8703 ug/ml	-0.06
Spiked Amount 50.000	Range 35 - 114		Recovery	= 9.74%#	
59) 2-Fluorobiphenyl	0.00	172	0	0.0000 ug/ml	
Spiked Amount 50.000	Range 43 - 116		Recovery	= 0.00%#	
86) 2,4,6-Tribromophenol	0.00	330	0	0.0000 ug/ml	
Spiked Amount 100.000	Range 10 - 123		Recovery	= 0.00%#	
117) p-Terphenyl-d14	0.00	244	0	0.0000 ug/ml	
Spiked Amount 50.000	Range 33 - 141		Recovery	= 0.00%#	

Target Compounds					Qvalue
3) n-Nitrosodimethylamine	5.75	74	157732	46.5587 ug/ml	90
4) Pyridine	5.76	79	263979m	47.6484 ug/ml	
5) 2-Picoline	6.91	93	267261	49.8574 ug/ml	99
6) n-Nitrosomethylethylamine	7.08	88	110574	45.5059 ug/ml	88
7) Methyl Methanesulfonate	7.48	80	145846	50.3502 ug/ml	99
9) n-Nitrosodiethylamine	7.99	102	120045	52.4764 ug/ml	87
10) Ethyl Methanesulfonate	8.34	79	190821	49.1248 ug/ml	99
11) Aniline	8.88	93	395393	51.9864 ug/ml	99
13) Phenol	8.81	94	321005	51.3670 ug/ml	95
14) bis(2-Chloroethyl)ether	8.93	63	202681	50.1201 ug/ml	97
15) Pentachloroethane	8.91	167	106741	52.3304 ug/ml	99
16) 2-Chlorophenol	9.04	128	277943	52.2404 ug/ml	98
17) 1,3-Dichlorobenzene	9.22	146	308694	53.2782 ug/ml	99
18) 1,4-Dichlorobenzene	9.28	146	308944	51.5713 ug/ml	99
19) Benzyl Alcohol	9.42	108	192302	56.7616 ug/ml	99
20) 1,2-Dichlorobenzene	9.52	146	295190	53.0266 ug/ml	100
21) 2-Methylphenol	9.56	107	217220	53.0648 ug/ml	100
22) bis(2-Chloroisopropyl)ethe	9.60	45	457786	46.7034 ug/ml	95
23) 3-,4-Methylphenol	9.72	107	274707	51.9983 ug/ml	100
24) n-Nitrosopyrrolidine	9.77	100	110571	51.0507 ug/ml	78
25) n-Nitrosodipropylamine	9.78	70	178065	49.3822 ug/ml	87
26) Acetophenone	9.77	105	306540	46.7118 ug/ml	98
27) n-Nitrosomorpholine	9.78	56	144683	44.1178 ug/ml	92
28) o-Toluidine	9.82	106	390074	50.4193 ug/ml	99
29) Hexachloroethane	9.91	117	118581	51.1141 ug/ml	99
32) Nitrobenzene	10.00	77	284224	50.4798 ug/ml	100
33) n-Nitrosopiperidine	10.18	114	124978	50.5372 ug/ml	86
34) Isophorone	10.27	82	498873	48.2505 ug/ml	100
35) 2-Nitrophenol	10.40	139	145500	48.6672 ug/ml	98
36) 2,4-Dimethylphenol	10.39	122	247855	51.0330 ug/ml	99
37) 0,0,0-Triethyl Phosphoroth	10.51	198	114058	44.6356 ug/ml	89
38) bis(2-Chloroethoxy)methane	10.51	93	380681	50.0121 ug/ml	98
39) Benzoic Acid	10.50	105	160488	45.1561 ug/ml	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:51:50 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 2,4-Dichlorophenol	10.68	162	219430	49.2812 ug/ml	99
41) a,a-Dimethylphenethylamine	10.79	58	763825m	49.7702 ug/ml	
42) 1,2,4-Trichlorobenzene	10.80	180	232902	47.0413 ug/ml	100
43) Naphthalene	10.89	128	736026	48.6661 ug/ml	100
44) 4-Chloroaniline	10.95	127	335824	50.6374 ug/ml	98
45) 2,6-Dichlorophenol	10.97	162	218420	49.4594 ug/ml	99
46) Hexachloropropene	11.04	213	159704	50.1309 ug/ml	100
47) Hexachlorobutadiene	11.09	225	150119	52.4417 ug/ml	99
48) n-Nitrosodi-n-Butylamine	11.35	84	170159	44.1985 ug/ml#	81
49) p-Phenylenediamine	11.38	108	126371	34.0848 ug/ml	100
50) 4-Chloro-3-Methylphenol	11.50	107	219534	49.7454 ug/ml	99
51) Safrole	11.60	162	204513	49.7054 ug/ml	99
52) 2-Methylnaphthalene	11.74	142	492947	49.5784 ug/ml	99
53) 1-Methylnaphthalene	11.87	142	463462	46.6780 ug/ml	99
55) 1,2,4,5-Tetrachlorobenzene	11.98	216	218625	48.0284 ug/ml	99
56) Hexachlorocyclopentadiene	12.00	237	88031	32.6323 ug/ml	100
57) 2,4,6-Trichlorophenol	12.08	196	160910	50.5457 ug/ml	100
58) 2,4,5-Trichlorophenol	12.13	196	173637	51.2798 ug/ml	100
60) Isosafrole	12.21	162	211808	50.6672 ug/ml	100
61) 2-Chloronaphthalene	12.32	162	517336	47.9020 ug/ml	99
62) 1-Chloronaphthalene	12.37	162	417633	47.0485 ug/ml	98
63) 2-Nitroaniline	12.44	65	158061	50.3937 ug/ml	97
64) 1,4-Naphthoquinone	12.51	158	148955	68.2546 ug/ml	100
65) Dimethylphthalate	12.64	163	516427	48.0813 ug/ml	99
66) 1,3-Dinitrobenzene	12.69	168	104987	53.8946 ug/ml	99
67) 2,6-Dinitrotoluene	12.74	165	134039	51.9423 ug/ml	99
68) Acenaphthylene	12.82	152	727631	48.1354 ug/ml	100
69) 3-Nitroaniline	12.91	138	151714	51.0848 ug/ml	99
70) 2,4-Dinitrophenol	13.03	184	88020	62.8916 ug/ml	40
71) Acenaphthene	13.02	154	464615	48.9419 ug/ml	97
72) 4-Nitrophenol	13.05	65	122241	47.9013 ug/ml	99
73) 2,4-Dinitrotoluene	13.19	165	156359	46.9164 ug/ml	98
74) Pentachlorobenzene	13.22	250	199688	46.3449 ug/ml	99
75) Dibenzofuran	13.19	168	610522	47.8409 ug/ml	100
76) 2,3,4,6-Tetrachlorophenol	13.31	232	142544	50.9266 ug/ml	99
77) 1-Naphthylamine	13.28	143	437629	46.6300 ug/ml	100
78) 2-Naphthylamine	13.35	143	459162	51.1232 ug/ml	100
79) Diethylphthalate	13.42	149	522380	48.3594 ug/ml	100
80) Thionazin	13.52	107	86376	50.7540 ug/ml	98
81) Fluorene	13.57	166	511305	47.0306 ug/ml	100
82) 4-Chlorophenyl Phenyl Ethe	13.53	204	236899	46.9118 ug/ml	99
83) 4-Nitroaniline	13.60	138	145785	48.7675 ug/ml	98
84) 5-Nitro-o-Toluidine	13.59	152	158634	48.4938 ug/ml	99
85) 1,2-Diphenylhydrazine	13.71	77	534527	48.4200 ug/ml	99
88) 4,6-Dinitro-2-Methylphenol	13.64	198	111968	59.0793 ug/ml	82
89) n-Nitrosodiphenylamine	13.66	169	448835	50.3097 ug/ml	100
90) Sulfotepp	13.88	322	86748	43.9112 ug/ml	90
91) Sym-Trinitrobenzene	13.96	75	162861	61.4095 ug/ml	100
92) Diallate	13.99	86	193352	50.7062 ug/ml	81
93) Phenacetin	14.00	108	252667	50.8008 ug/ml	100
94) Phorate	14.01	75	313267	48.9195 ug/ml#	99
95) 4-Bromophenyl Phenyl Ether	14.07	248	149686	47.2446 ug/ml	98
96) Hexachlorobenzene	14.27	284	165918	46.7752 ug/ml	97
97) Dimethoate	14.21	87	148412	49.8926 ug/ml	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 09:51:50 2010 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Initial Calibration
DataAcq Meth : BNA

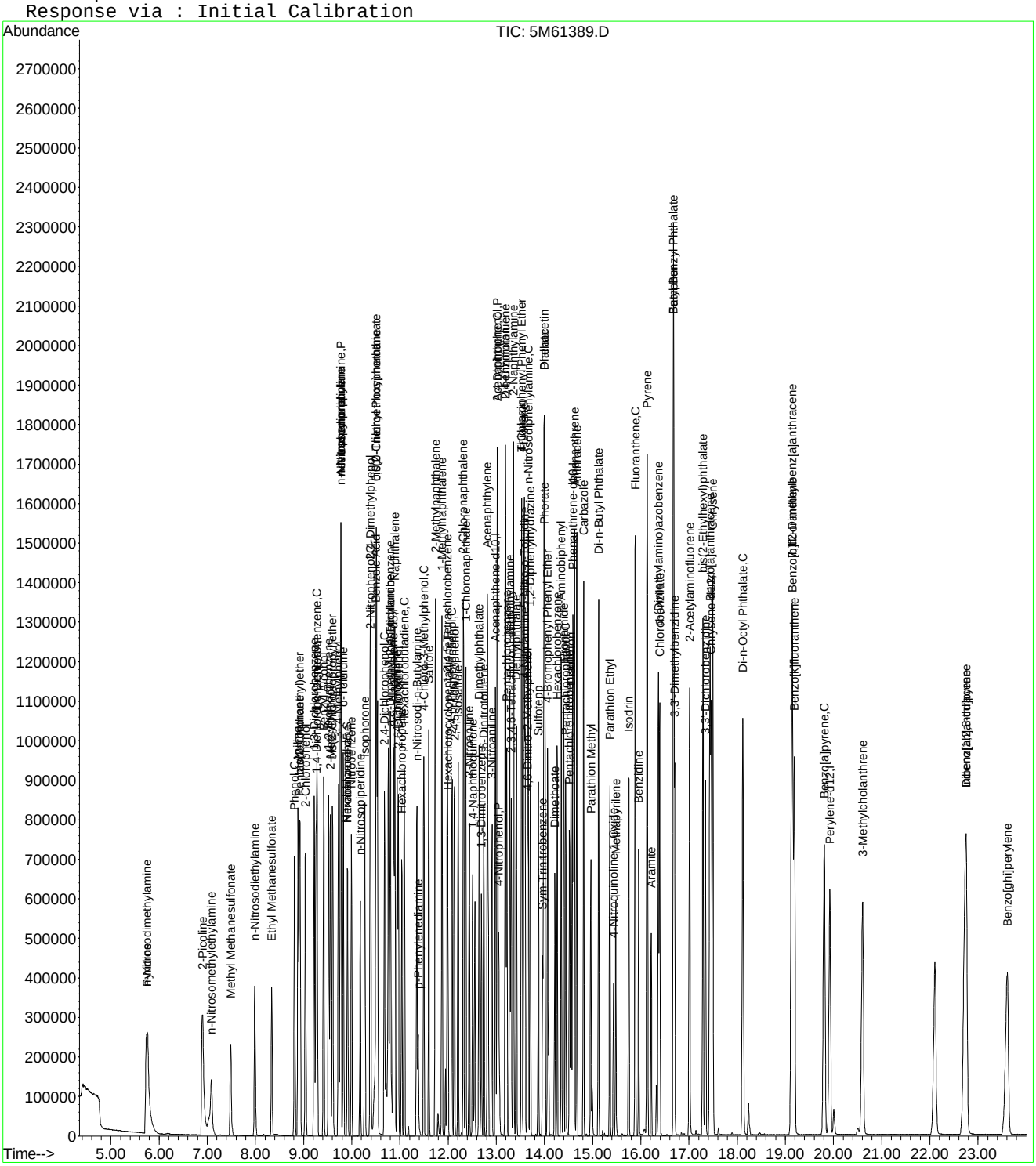
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
98)	4-Aminobiphenyl	14.35	169	524959	52.4210 ug/ml	100
99)	Pentachlorophenol	14.44	266	134532	59.2413 ug/ml	100
100)	Pronamide	14.40	173	226984	48.7499 ug/ml	99
101)	Pentachloronitrobenzene	14.52	237	67175	48.8181 ug/ml	99
102)	Disulfoton	14.55	88	266556	49.9862 ug/ml	98
103)	Phenanthrene	14.63	178	713453	48.2146 ug/ml	100
104)	Anthracene	14.67	178	741958	50.1292 ug/ml	100
105)	Carbazole	14.81	167	670716	48.3349 ug/ml	99
106)	Parathion Methyl	14.96	109	148315	52.1732 ug/ml	99
107)	Di-n-Butyl Phthalate	15.12	149	847952	48.4420 ug/ml	100
108)	Parathion Ethyl	15.36	97	106042	51.5209 ug/ml	96
109)	4-Nitroquinoline 1-Oxide	15.43	190	51257	42.9374 ug/ml	99
110)	Methapyrilene	15.48	58	207498	92.8329 ug/ml	94
111)	Isodrin	15.75	193	85676	48.7234 ug/ml	98
112)	Fluoranthene	15.89	202	754681	49.1195 ug/ml	99
114)	Benzidine	15.96	184	340899	61.5503 ug/ml	100
115)	Pyrene	16.13	202	774195	48.9950 ug/ml	100
116)	Aramite	16.22	185	55838	55.4372 ug/ml	100
118)	p-(Dimethylamino)azobenzen	16.37	225	183189	54.3097 ug/ml	98
119)	Chlorobenzilate	16.39	251	246259	50.1223 ug/ml	96
120)	Famphur	16.68	218	2571	17.6954 ug/ml#	1
121)	Butyl Benzyl Phthalate	16.69	149	370735	50.2245 ug/ml	99
122)	3,3'-Dimethylbenzidine	16.70	212	391584	31.0101 ug/ml	99
123)	2-Acetylaminofluorene	17.01	181	336284	52.9728 ug/ml	99
124)	bis(2-Ethylhexyl)phthalate	17.29	149	551355	49.9595 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.34	252	291071	51.2221 ug/ml	99
126)	Benzo[a]anthracene	17.44	228	774869	48.7833 ug/ml	100
127)	Chrysene	17.49	228	731102	49.1060 ug/ml	100
129)	Di-n-Octyl Phthalate	18.12	149	988599	52.6239 ug/ml	97
130)	7,12-Dimethylbenz[a]anthra	19.14	256	376287	48.6818 ug/ml	99
131)	Benzo[b]fluoranthene	19.16	252	835833	44.9132 ug/ml	99
132)	Benzo[k]fluoranthene	19.19	252	652824	46.2619 ug/ml	98
133)	Benzo[a]pyrene	19.81	252	786137	51.9045 ug/ml	99
134)	3-Methylcholanthrene	20.61	268	418439	53.2485 ug/ml	100
135)	Indeno[1,2,3-cd]pyrene	22.75	276	867672	51.1585 ug/ml	98
136)	Dibenz[ah]anthracene	22.74	278	727938	51.6640 ug/ml	98
137)	Benzo[ghi]perylene	23.61	276	709139	52.3862 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:53 2010 Quant Results File: MEGAMIX.RES

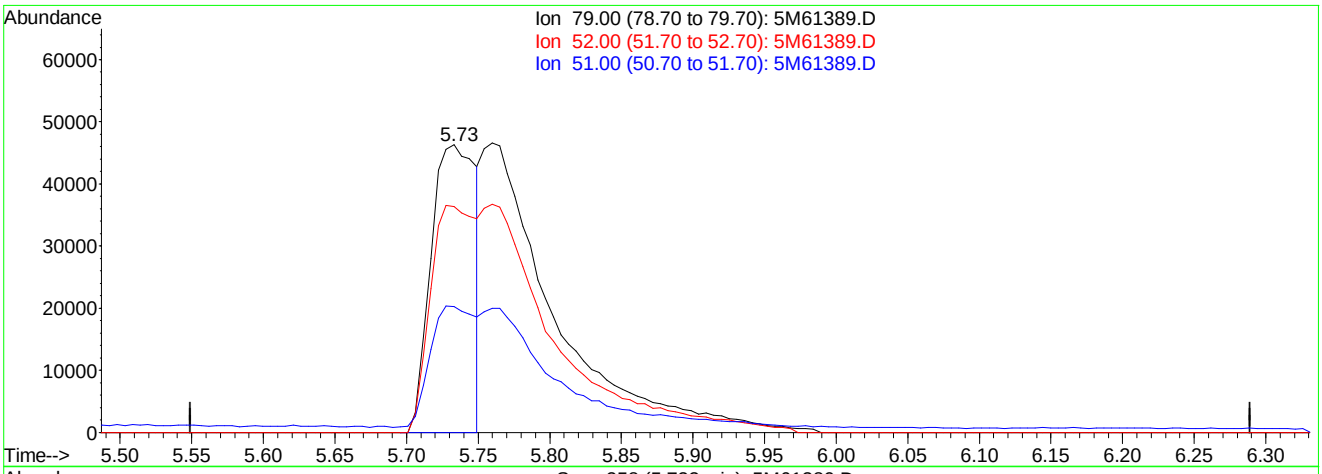
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Tue Jan 04 10:25:19 2011
Response via : Initial Calibration

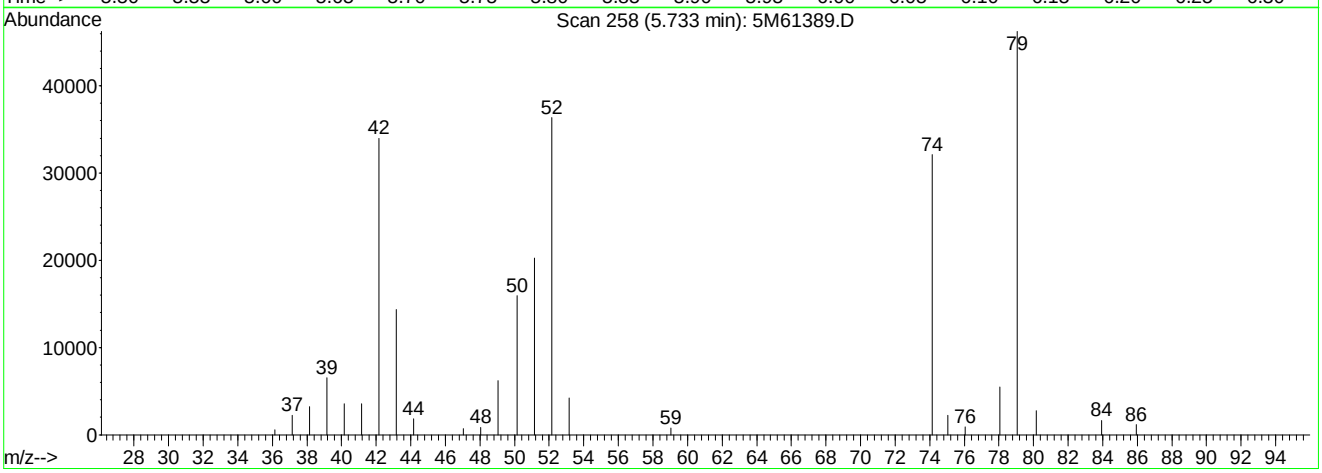


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:51 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Multiple Level Calibration





TIC: 5M61389.D

(4) Pyridine

5.73min 20.39ug/ml

response 99936

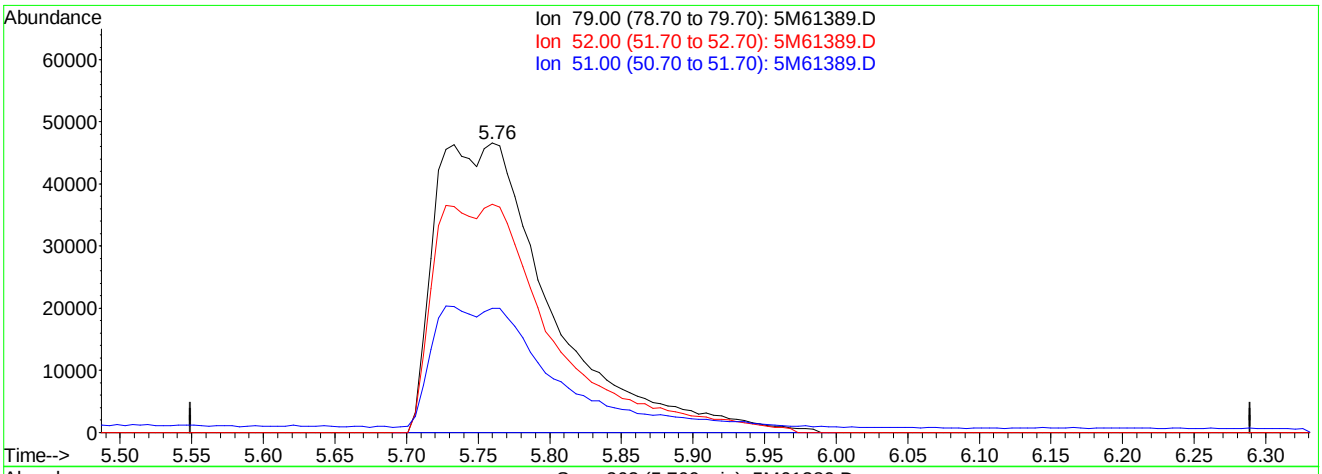
Ion	Exp%	Act%
79.00	100	100
52.00	89.10	79.91
51.00	52.60	42.43
0.00	0.00	0.00

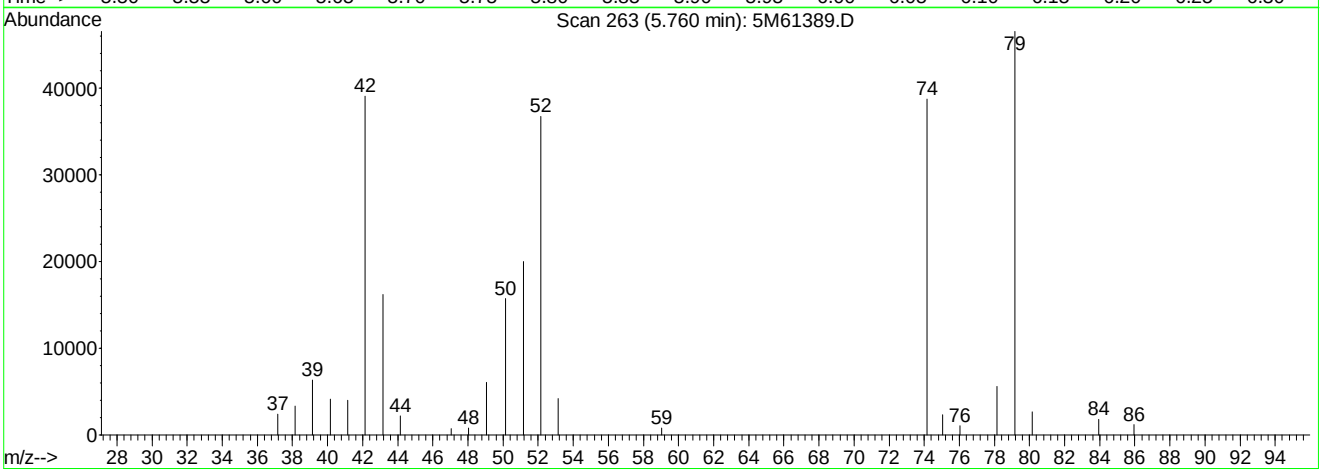
5M61389.D MEGAMIX.M Thu Dec 23 09:51:56 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:51 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Multiple Level Calibration





TIC: 5M61389.D

(4) Pyridine

5.76min 47.65ug/ml mint

response 263979

Ion	Exp%	Act%
79.00	100	100
52.00	89.10	30.25#
51.00	52.60	16.06#
0.00	0.00	0.00

5M61389.D MEGAMIX.M Thu Dec 23 09:51:58 2010

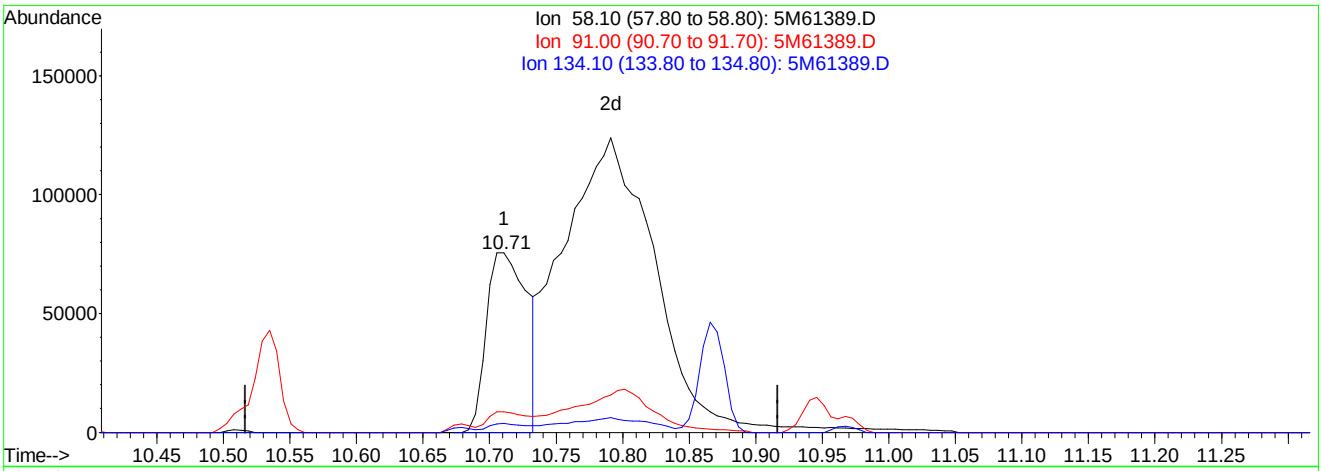
Analyst: 12/23/2010 11:03 Supervisor: 01/04/2011 11:37

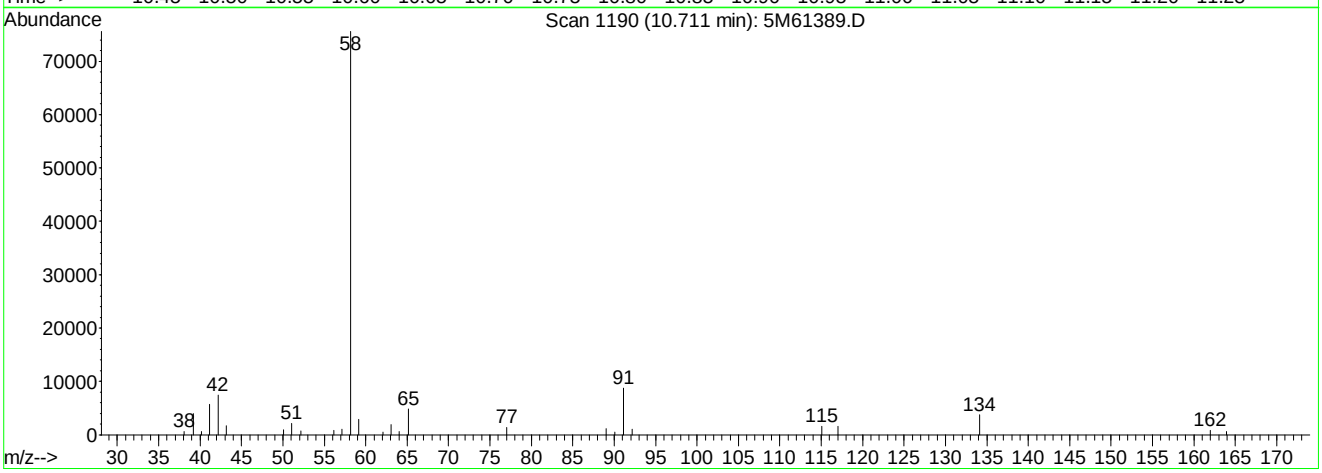
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D          Vial: 3
Acq On    : 23 Dec 2010   8:46 am                   Operator: CAA
Sample    : WG352225-11 50ppm Megamix Alt Src STD   Inst    : HPMS5
Misc      : 1,1 STD41307                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23  9:51 2010              Quant Results File: temp.res

Method       : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title        : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update  : Thu Dec 23 09:51:44 2010
Response via : Multiple Level Calibration
```





TIC: 5M61389.D

(41) a,a-Dimethylphenethylamine

10.71min 10.52ug/ml

response 161442

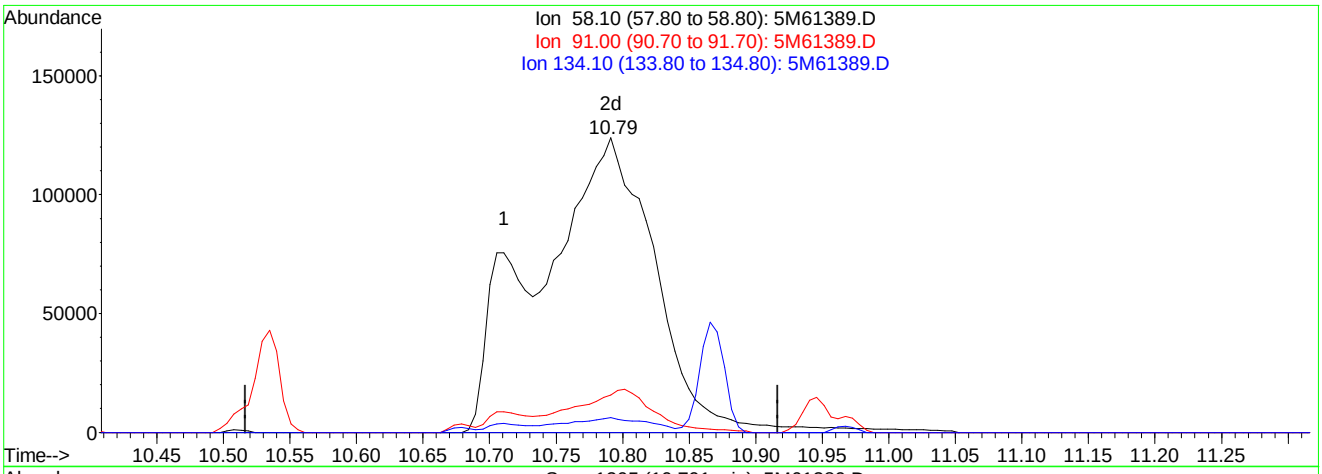
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	11.23#
134.10	2.40	4.66#
0.00	0.00	0.00

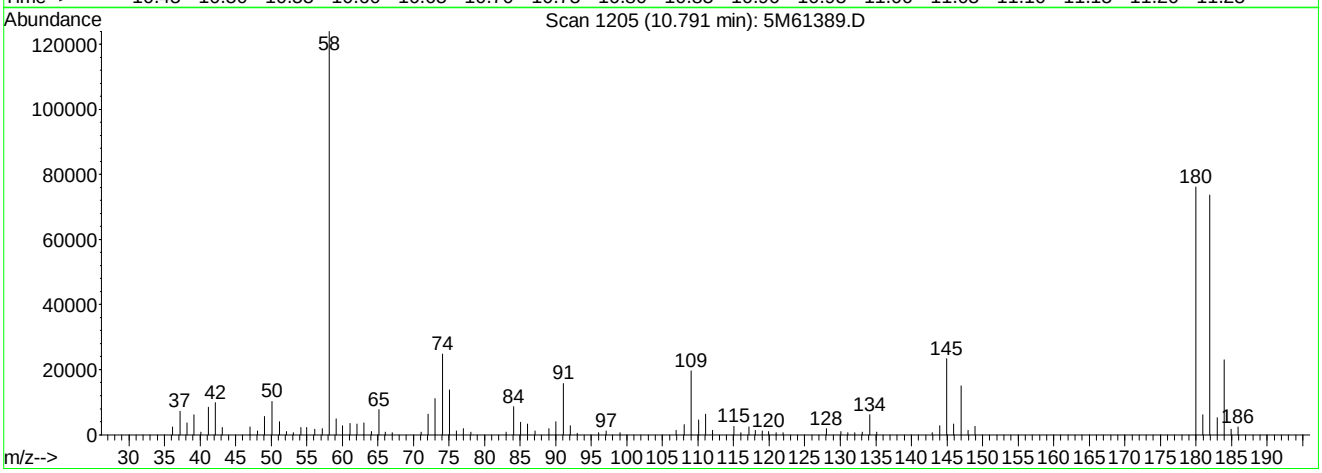
5M61389.D MEGAMIX.M Thu Dec 23 09:53:44 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61389.D Vial: 3
Acq On : 23 Dec 2010 8:46 am Operator: CAA
Sample : WG352225-11 50ppm Megamix Alt Src STD Inst : HPMS5
Misc : 1,1 STD41307 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:53 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Thu Dec 23 09:51:44 2010
Response via : Multiple Level Calibration





TIC: 5M61389.D

(41) a,a-Dimethylphenethylamine

10.79min 49.77ug/ml mint

response 763825

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	2.37#
134.10	2.40	0.98#
0.00	0.00	0.00

5M61389.D MEGAMIX.M Thu Dec 23 09:53:47 2010

Analyst: 12/23/2010 11:03 Supervisor: 01/04/2011 11:37

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 08:49:24 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.23	152	125689	40.00 ug/ml	0.00
30) Naphthalene-d8	10.84	136	460968	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.96	164	251210	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.58	188	425662	40.00 ug/ml	0.00
113) Chrysene-d12	17.45	240	468585	40.00 ug/ml	0.00
128) Perylene-d12	19.90	264	502317	40.00 ug/ml	-0.02

System Monitoring Compounds					
8) 2-Fluorophenol	7.68	112	178356	47.1352 ug/ml	0.02
Spiked Amount 100.000	Range 21 - 100		Recovery = 47.14%		
12) Phenol-d5	8.79	99	226609	48.3806 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 48.38%		
31) Nitrobenzene-d5	9.95	82	209888	48.3281 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 96.66%		
59) 2-Fluorobiphenyl	12.14	172	400514	47.5324 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 95.06%		
86) 2,4,6-Tribromophenol	13.84	330	60643	44.9015 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 44.90%		
117) p-Terphenyl-d14	16.20	244	383919	47.8827 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 95.76%		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.03	88	77570m	47.2846 ug/ml	
3) n-Nitrosodimethylamine	5.72	74	113672	42.8416 ug/ml	85
4) Pyridine	5.72	79	191075	43.9841 ug/ml#	84
5) 2-Picoline	6.87	93	199185	47.0468 ug/ml	98
6) n-Nitrosomethylethylamine	7.05	88	82763	43.3476 ug/ml	80
7) Methyl Methanesulfonate	7.46	80	110774	48.4199 ug/ml	98
9) n-Nitrosodiethylamine	7.96	102	85222	47.1684 ug/ml	80
10) Ethyl Methanesulfonate	8.31	79	142222	46.3576 ug/ml	98
11) Aniline	8.86	93	282397	47.0110 ug/ml	99
13) Phenol	8.80	94	234607	47.5327 ug/ml	97
14) bis(2-Chloroethyl)ether	8.90	63	140824	44.0915 ug/ml	92
15) Pentachloroethane	8.88	167	83203	51.6465 ug/ml	99
16) 2-Chlorophenol	9.02	128	207123	49.2899 ug/ml	96
17) 1,3-Dichlorobenzene	9.19	146	229071	50.0577 ug/ml	99
18) 1,4-Dichlorobenzene	9.25	146	232850	49.2135 ug/ml	99
19) Benzyl Alcohol	9.39	108	127502	47.6504 ug/ml	97
20) 1,2-Dichlorobenzene	9.49	146	216216	49.1767 ug/ml	100
21) 2-Methylphenol	9.54	107	151335	46.8086 ug/ml	97
22) bis(2-Chloroisopropyl)ethe	9.57	45	301678	38.9681 ug/ml	93
23) 3-,4-Methylphenol	9.71	107	200125	47.9623 ug/ml#	65
24) n-Nitrosopyrrolidine	9.73	100	81587	47.6936 ug/ml#	66
25) n-Nitrosodipropylamine	9.75	70	126375	44.3744 ug/ml	82
26) Acetophenone	9.74	105	234277	45.2010 ug/ml#	80
27) n-Nitrosomorpholine	9.75	56	99809	38.5341 ug/ml#	86
28) o-Toluidine	9.80	106	288728	47.2518 ug/ml	98
29) Hexachloroethane	9.88	117	90654	49.4757 ug/ml	99
32) Nitrobenzene	9.97	77	207225	48.2560 ug/ml	98
33) n-Nitrosopiperidine	10.15	114	92160	48.8621 ug/ml	78
34) Isophorone	10.24	82	370439	46.9765 ug/ml	99
35) 2-Nitrophenol	10.36	139	107462	47.1282 ug/ml	94
36) 2,4-Dimethylphenol	10.36	122	175958	47.5023 ug/ml	98
37) 0,0,0-Triethyl Phosphoroth	10.49	198	93107	47.7738 ug/ml	99
38) bis(2-Chloroethoxy)methane	10.48	93	269193	46.3693 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 08:49:24 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Benzoic Acid	10.47	105	70535m	29.3876 ug/ml	
40)	2,4-Dichlorophenol	10.66	162	164982	48.5819 ug/ml	100
41)	a,a-Dimethylphenethylamine	10.79	58	486478m	41.5615 ug/ml	
42)	1,2,4-Trichlorobenzene	10.78	180	180772	47.8728 ug/ml	100
43)	Naphthalene	10.87	128	550485	47.7233 ug/ml	100
44)	4-Chloroaniline	10.92	127	244624	48.3628 ug/ml	98
45)	2,6-Dichlorophenol	10.95	162	163481	48.5373 ug/ml	99
46)	Hexachloropropene	11.01	213	126863	52.2128 ug/ml	100
47)	Hexachlorobutadiene	11.06	225	106886	48.9569 ug/ml	99
48)	n-Nitrosodi-n-Butylamine	11.33	84	156049	53.7543 ug/ml	85
49)	p-Phenylenediamine	11.36	108	99026	35.1859 ug/ml	100
50)	4-Chloro-3-Methylphenol	11.49	107	158970	47.2300 ug/ml	99
51)	Safrole	11.58	162	152020	48.4435 ug/ml	99
52)	2-Methylnaphthalene	11.71	142	364176	48.0237 ug/ml	99
53)	1-Methylnaphthalene	11.84	142	365279	48.2364 ug/ml	99
55)	1,2,4,5-Tetrachlorobenzene	11.96	216	171660	48.8025 ug/ml	99
56)	Hexachlorocyclopentadiene	11.97	237	76774	37.1469 ug/ml	100
57)	2,4,6-Trichlorophenol	12.06	196	120133	48.8358 ug/ml	99
58)	2,4,5-Trichlorophenol	12.13	196	120680	46.1227 ug/ml	99
60)	Isosafrole	12.19	162	157703	48.8202 ug/ml	99
61)	2-Chloronaphthalene	12.30	162	398854	47.7936 ug/ml	100
62)	1-Chloronaphthalene	12.35	162	331773	48.3689 ug/ml	99
63)	2-Nitroaniline	12.42	65	108433	44.7392 ug/ml	92
64)	1,4-Naphthoquinone	12.49	158	85835	43.1031 ug/ml	99
65)	Dimethylphthalate	12.62	163	396074	47.7220 ug/ml	99
66)	1,3-Dinitrobenzene	12.67	168	75775	50.3397 ug/ml	96
67)	2,6-Dinitrotoluene	12.72	165	101351	50.8268 ug/ml	96
68)	Acenaphthylene	12.79	152	557516	47.7294 ug/ml	100
69)	3-Nitroaniline	12.89	138	109303	47.6292 ug/ml	99
70)	2,4-Dinitrophenol	13.01	184	53319	52.3293 ug/ml#	67
71)	Acenaphthene	13.00	154	360218	49.1052 ug/ml	99
72)	4-Nitrophenol	13.06	65	74281m	37.6689 ug/ml	
73)	2,4-Dinitrotoluene	13.17	165	122698	47.6446 ug/ml	92
74)	Pentachlorobenzene	13.19	250	153883	46.2184 ug/ml	100
75)	Dibenzofuran	13.17	168	468817	47.5418 ug/ml	100
76)	2,3,4,6-Tetrachlorophenol	13.29	232	101253	46.8143 ug/ml	99
77)	1-Naphthylamine	13.26	143	346056	47.7178 ug/ml	97
78)	2-Naphthylamine	13.33	143	335922	48.4022 ug/ml	99
79)	Diethylphthalate	13.40	149	389449	46.6573 ug/ml	99
80)	Thionazin	13.50	107	63494	48.2819 ug/ml	96
81)	Fluorene	13.55	166	400131	47.6297 ug/ml	100
82)	4-Chlorophenyl Phenyl Ethe	13.51	204	186908	47.8984 ug/ml	99
83)	4-Nitroaniline	13.58	138	107957	46.7351 ug/ml	96
84)	5-Nitro-o-Toluidine	13.57	152	117738	46.5780 ug/ml	98
85)	1,2-Diphenylhydrazine	13.69	77	386490	45.3073 ug/ml	98
88)	4,6-Dinitro-2-Methylphenol	13.63	198	76247	51.0342 ug/ml	79
89)	n-Nitrosodiphenylamine	13.64	169	340998	48.4857 ug/ml	99
90)	Sulfotepp	13.86	322	70080	44.9995 ug/ml	96
91)	Sym-Trinitrobenzene	13.95	75	109458	52.3697 ug/ml	98
92)	Diallate	13.97	86	138069	45.9311 ug/ml#	74
93)	Phenacetin	13.98	108	182398	46.5200 ug/ml	98
94)	Phorate	13.99	75	220257	43.6310 ug/ml#	94
95)	4-Bromophenyl Phenyl Ether	14.04	248	117451	47.0246 ug/ml	99
96)	Hexachlorobenzene	14.24	284	129908	46.4575 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 08:49:24 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Initial Calibration
DataAcq Meth : BNA

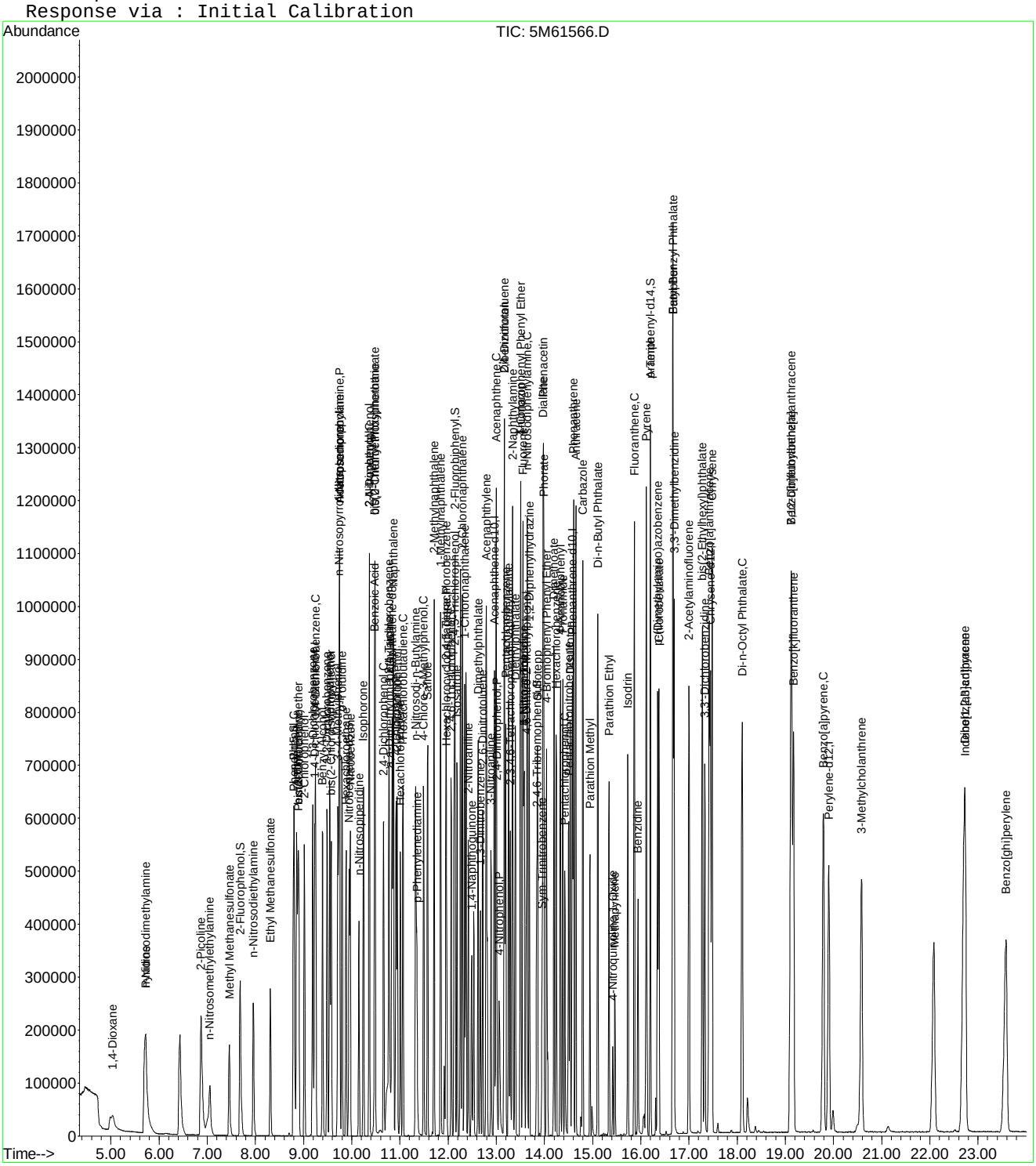
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
97)	Dimethoate	14.20	87	115709	49.0586 ug/ml	99
98)	4-Aminobiphenyl	14.33	169	389806	49.3772 ug/ml	99
99)	Pentachlorophenol	14.42	266	79276	44.2831 ug/ml	99
100)	Pronamide	14.38	173	174377	47.5078 ug/ml	99
101)	Pentachloronitrobenzene	14.50	237	52931	48.7956 ug/ml	99
102)	Disulfoton	14.54	88	194591	46.2894 ug/ml	99
103)	Phenanthrene	14.60	178	551874	47.3097 ug/ml	100
104)	Anthracene	14.65	178	565771	48.4897 ug/ml	100
105)	Carbazole	14.80	167	526198	48.1026 ug/ml	98
106)	Parathion Methyl	14.95	109	108332	46.6127 ug/ml	96
107)	Di-n-Butyl Phthalate	15.11	149	645872	46.8053 ug/ml	100
108)	Parathion Ethyl	15.34	97	78129	48.1522 ug/ml	98
109)	4-Nitroquinoline 1-Oxide	15.42	190	22449	24.3607 ug/ml	96
110)	Methapyrilene	15.46	58	92901	39.3166 ug/ml	91
111)	Isodrin	15.73	193	65221	47.0504 ug/ml	98
112)	Fluoranthene	15.87	202	580772	47.9506 ug/ml	99
114)	Benzidine	15.94	184	223768	48.1731 ug/ml	100
115)	Pyrene	16.12	202	613530	48.4092 ug/ml	100
116)	Aramite	16.20	185	41537	51.4160 ug/ml	99
118)	p-(Dimethylamino)azobenzen	16.35	225	134008	49.5336 ug/ml	97
119)	Chlorobenzilate	16.38	251	189409	48.0652 ug/ml	98
120)	Famphur	16.66	218	3466	29.7425 ug/ml#	51
121)	Butyl Benzyl Phthalate	16.67	149	274808	46.4165 ug/ml	96
122)	3,3'-Dimethylbenzidine	16.69	212	466867	47.0607 ug/ml	99
123)	2-Acetylaminofluorene	17.00	181	264825	52.0111 ug/ml	99
124)	bis(2-Ethylhexyl)phthalate	17.28	149	423747	47.8723 ug/ml	99
125)	3,3'-Dichlorobenzidine	17.33	252	230992	50.6811 ug/ml	100
126)	Benzo[a]anthracene	17.42	228	613079	48.1228 ug/ml	100
127)	Chrysene	17.48	228	580147	48.5832 ug/ml	99
129)	Di-n-Octyl Phthalate	18.10	149	740443	47.5640 ug/ml	93
130)	7,12-Dimethylbenz[a]anthra	19.12	256	293382	45.8041 ug/ml	99
131)	Benzo[b]fluoranthene	19.13	252	701964	45.5191 ug/ml	99
132)	Benzo[k]fluoranthene	19.17	252	575268	49.1950 ug/ml	100
133)	Benzo[a]pyrene	19.79	252	642322	51.1780 ug/ml	100
134)	3-Methylcholanthrene	20.58	268	341354	52.4209 ug/ml	100
135)	Indeno[1,2,3-cd]pyrene	22.74	276	765527	54.4687 ug/ml	99
136)	Dibenz[ah]anthracene	22.72	278	637079	54.5646 ug/ml	100
137)	Benzo[ghi]perylene	23.58	276	665893	59.3627 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: MEGAMIX.RES

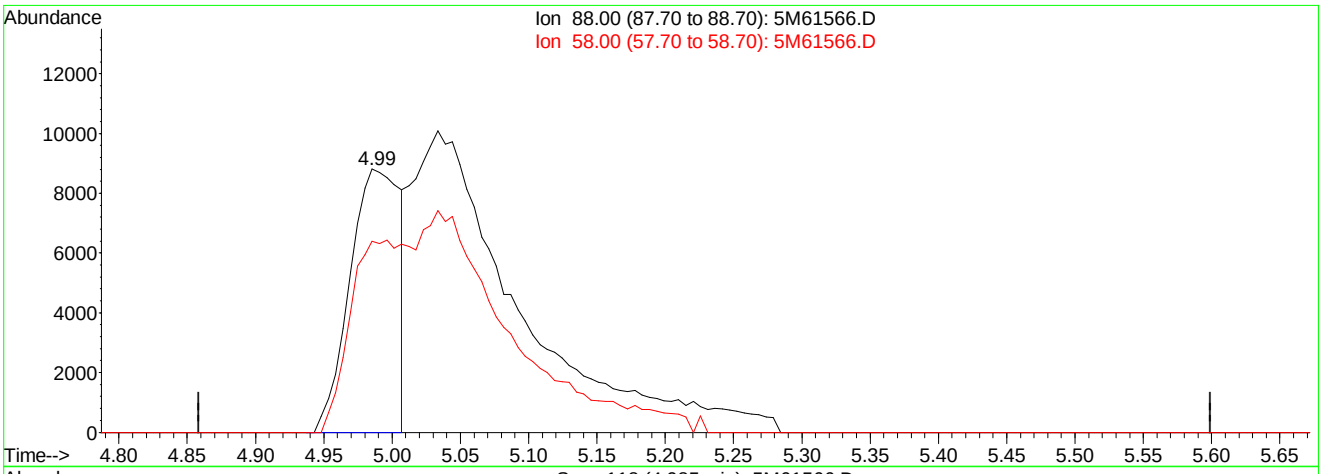
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Initial Calibration

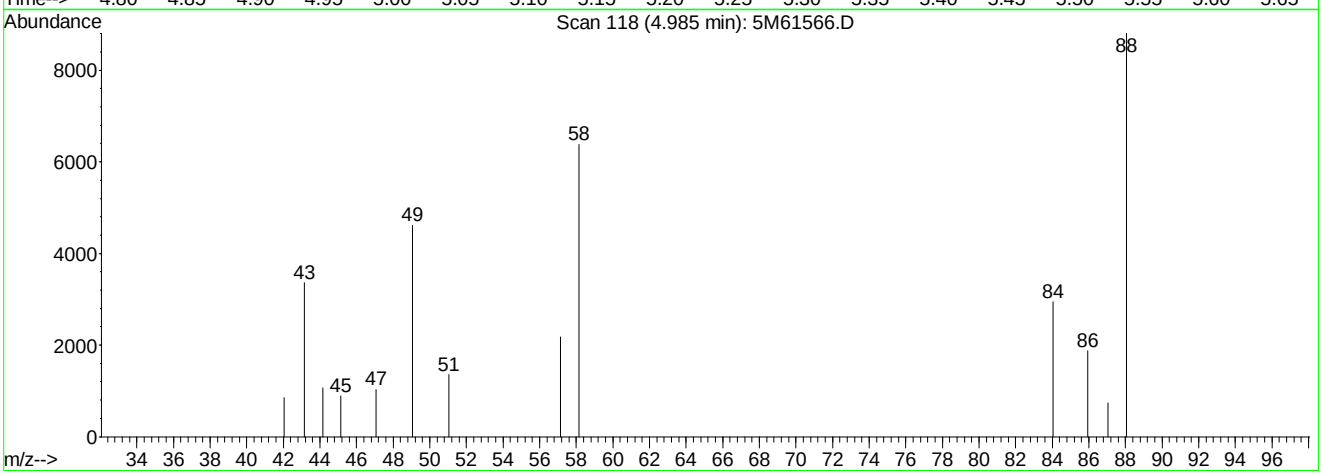


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:49 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(2) 1,4-Dioxane

4.99min 13.68ug/ml

response 22448

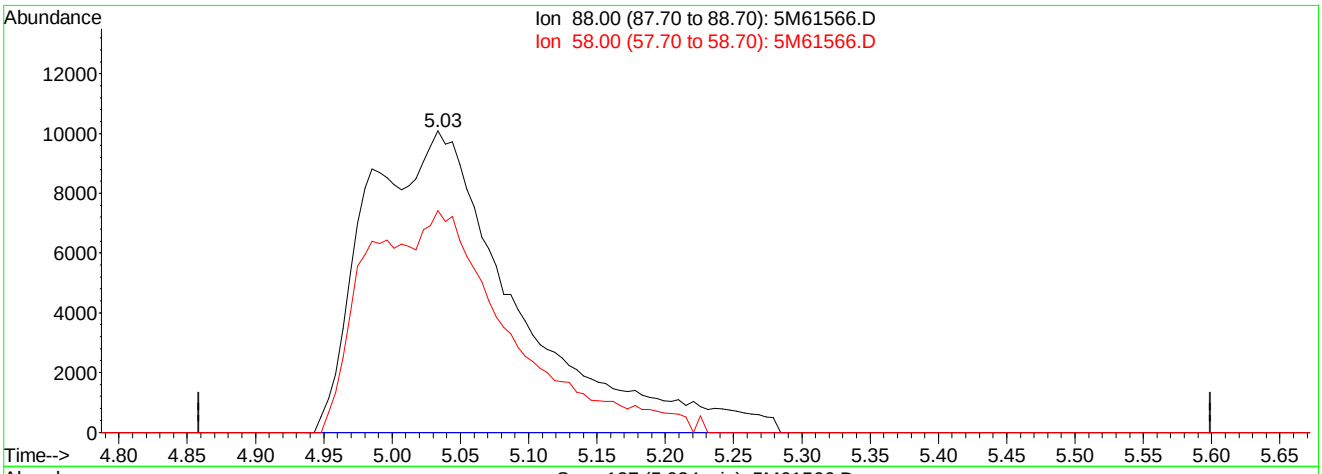
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	82.53
0.00	0.00	0.00
0.00	0.00	0.00

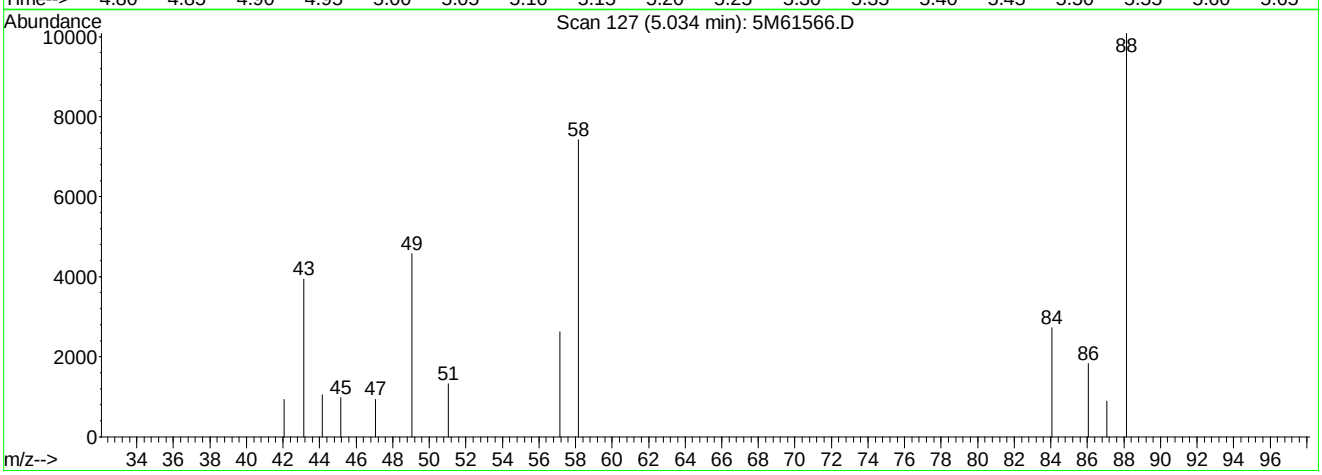
5M61566.D MEGAMIX.M Fri Jan 14 08:49:56 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:49 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(2) 1,4-Dioxane

5.03min 47.28ug/ml mint

response 77570

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	23.88#
0.00	0.00	0.00
0.00	0.00	0.00

5M61566.D MEGAMIX.M Fri Jan 14 08:49:59 2011

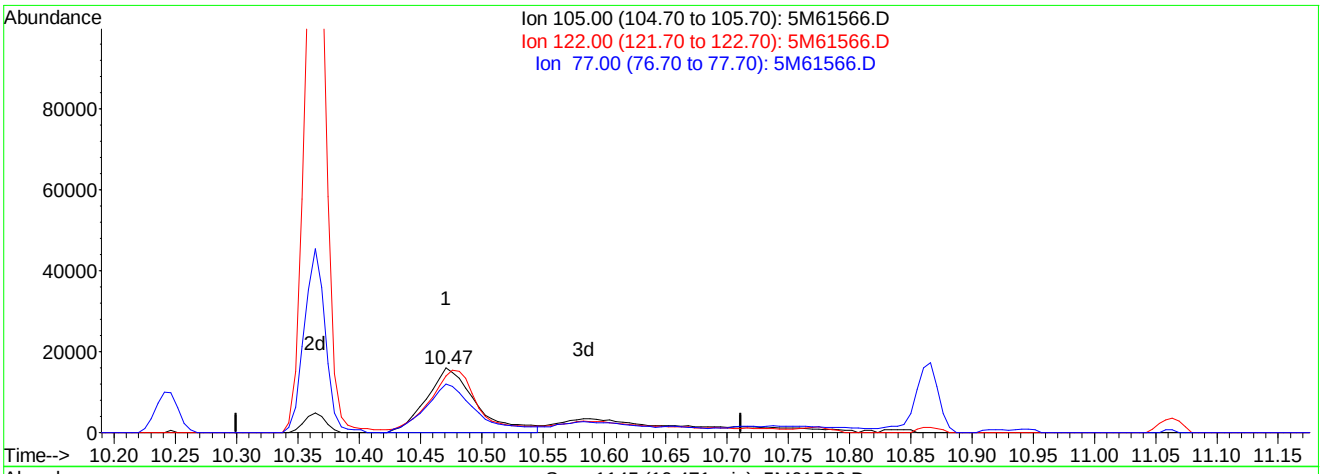
Analyst: 01/17/2011 08:48 Supervisor: 01/17/2011 10:14

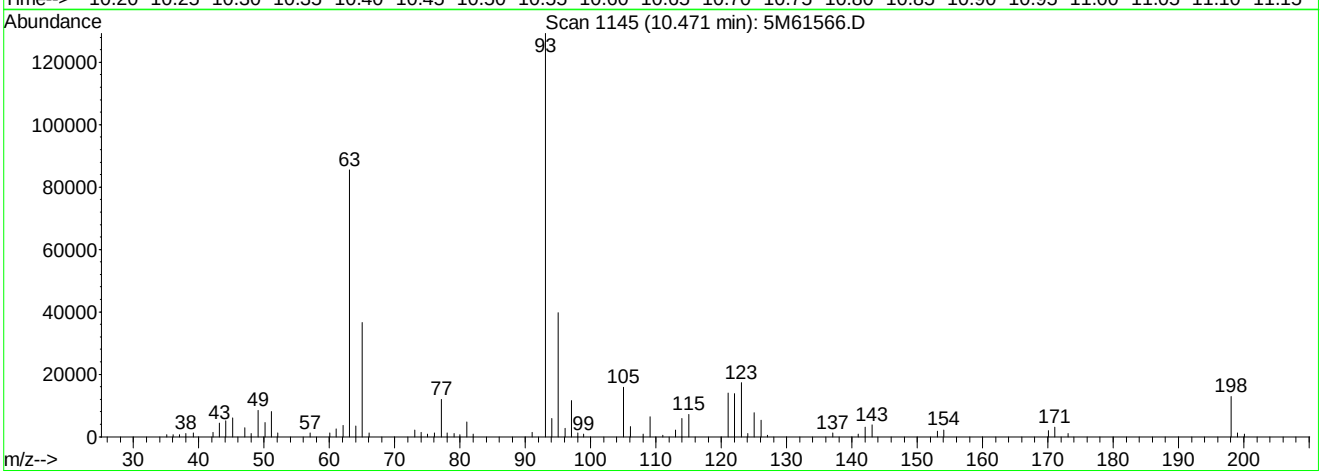
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:49 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(39) Benzoic Acid

10.47min 20.10ug/ml

response 44499

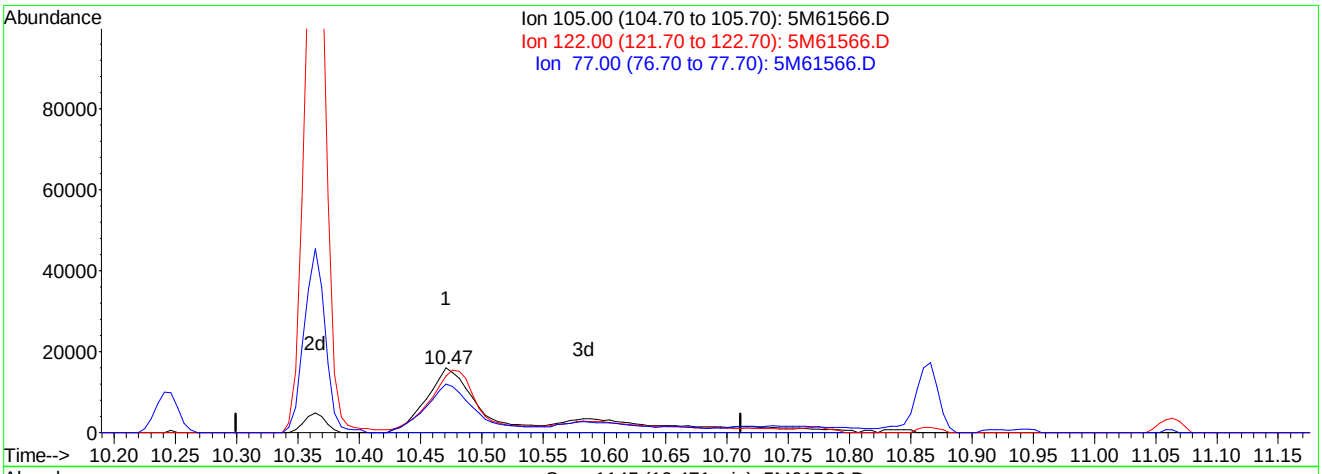
Ion	Exp%	Act%
105.00	100	100
122.00	65.50	87.96
77.00	77.80	76.35
0.00	0.00	0.00

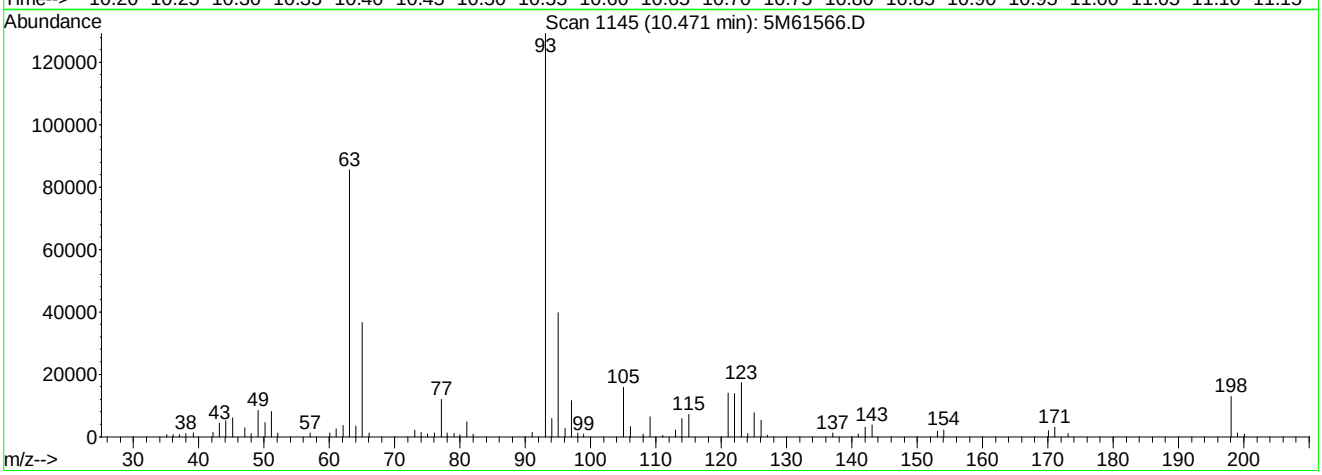
5M61566.D MEGAMIX.M Fri Jan 14 08:50:04 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(39) Benzoic Acid

10.47min 29.39ug/ml mint

response 70535

Ion	Exp%	Act%
105.00	100	100
122.00	65.50	55.49
77.00	77.80	48.17
0.00	0.00	0.00

5M61566.D MEGAMIX.M Fri Jan 14 08:50:08 2011

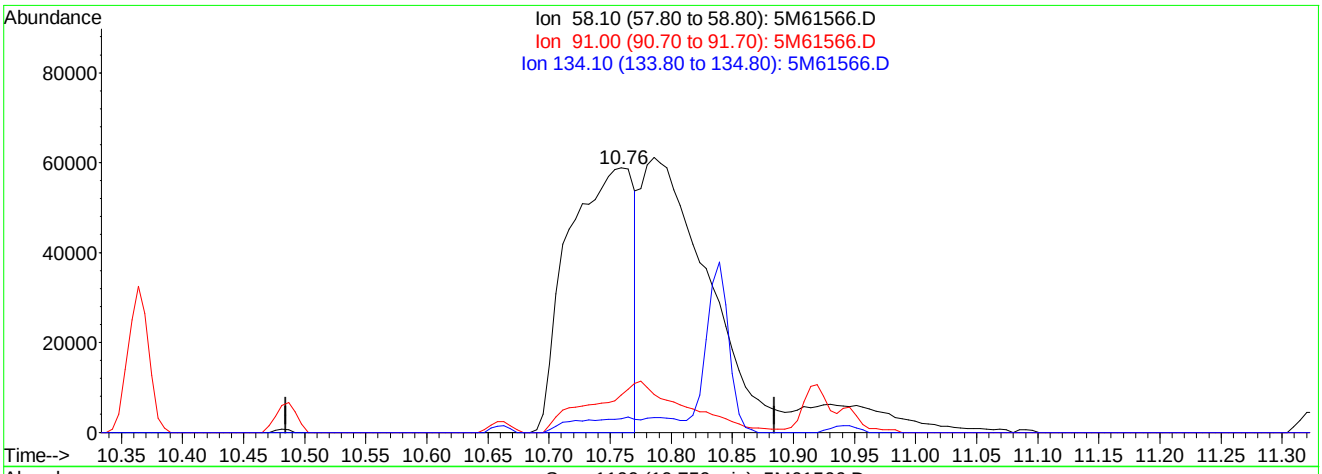
Analyst: 01/17/2011 08:48 Supervisor: 01/17/2011 10:14

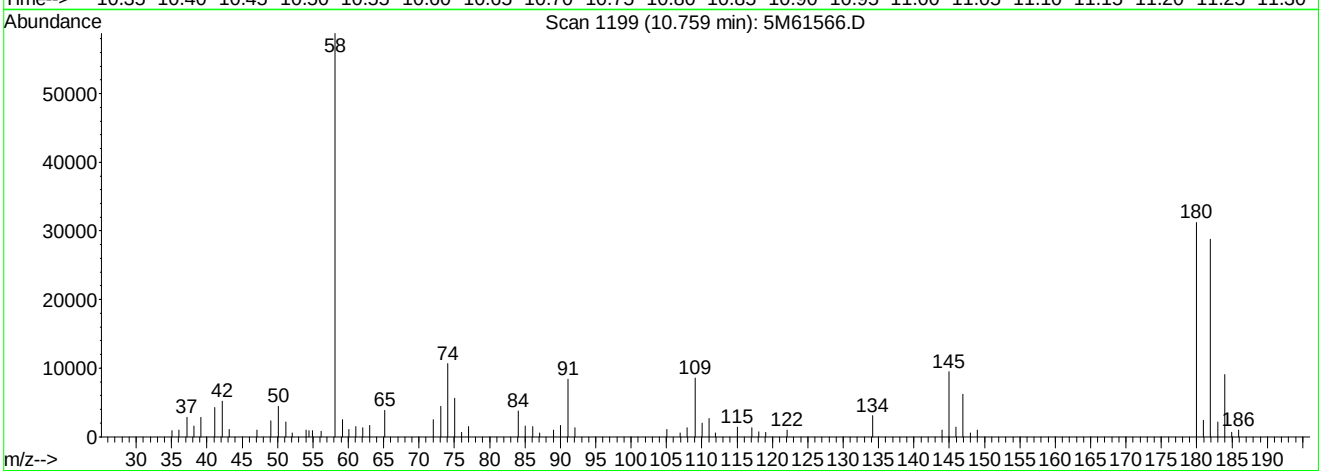
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(41) a,a-Dimethylphenethylamine

10.76min 18.60ug/ml

response 217677

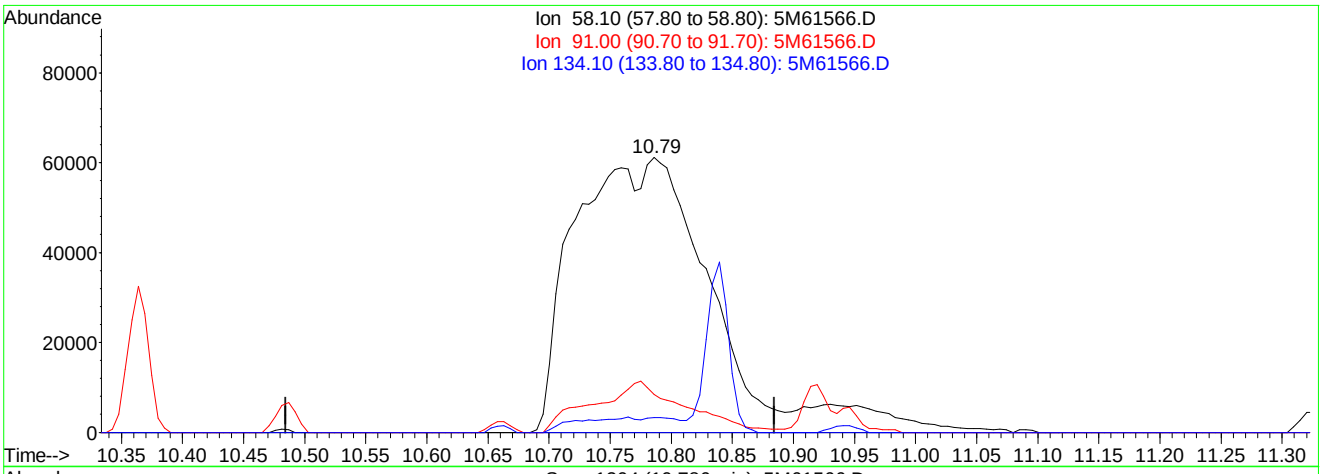
Ion	Exp%	Act%
58.10	100	100
91.00	6.10	26.71#
134.10	2.40	5.60#
0.00	0.00	0.00

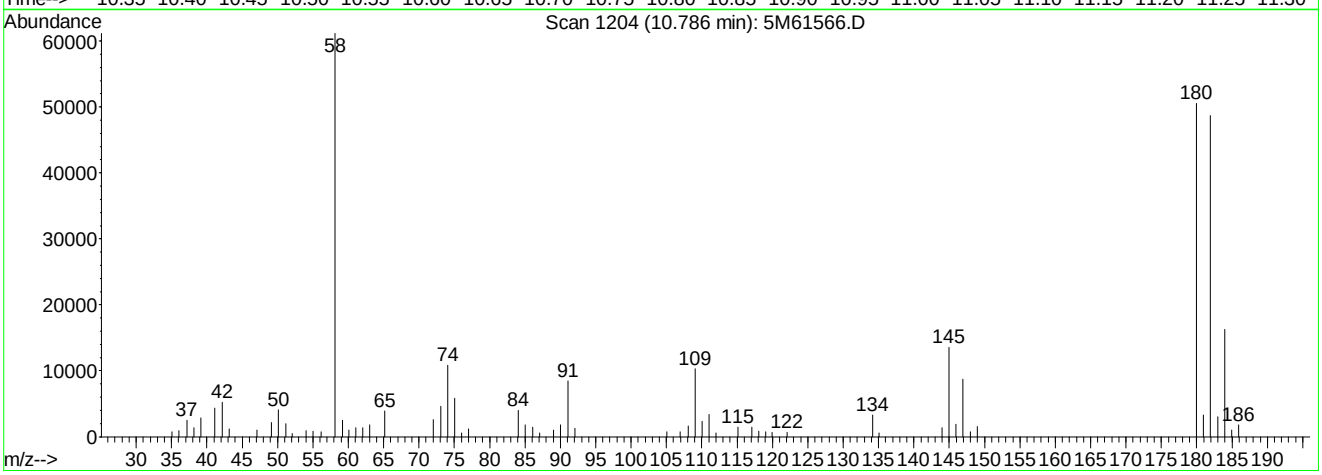
5M61566.D MEGAMIX.M Fri Jan 14 08:50:11 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(41) a,a-Dimethylphenethylamine

10.79min 41.56ug/ml mint

response 486478

Ion	Exp%	Act%
58.10	100	100
91.00	6.10	11.95#
134.10	2.40	2.51
0.00	0.00	0.00

5M61566.D MEGAMIX.M Fri Jan 14 08:50:15 2011

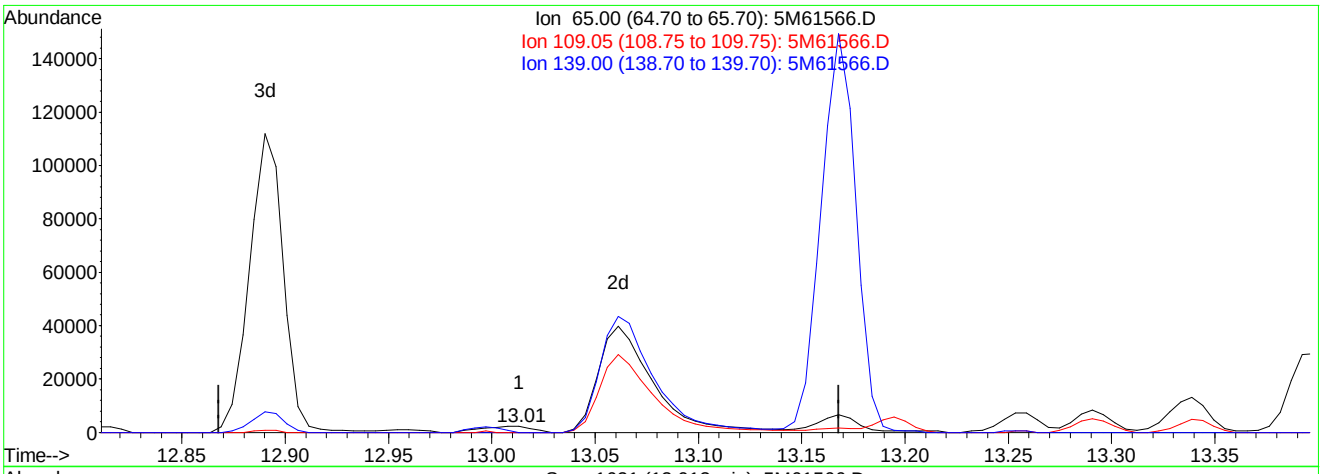
Analyst: 01/17/2011 08:48 Supervisor: 01/17/2011 10:14

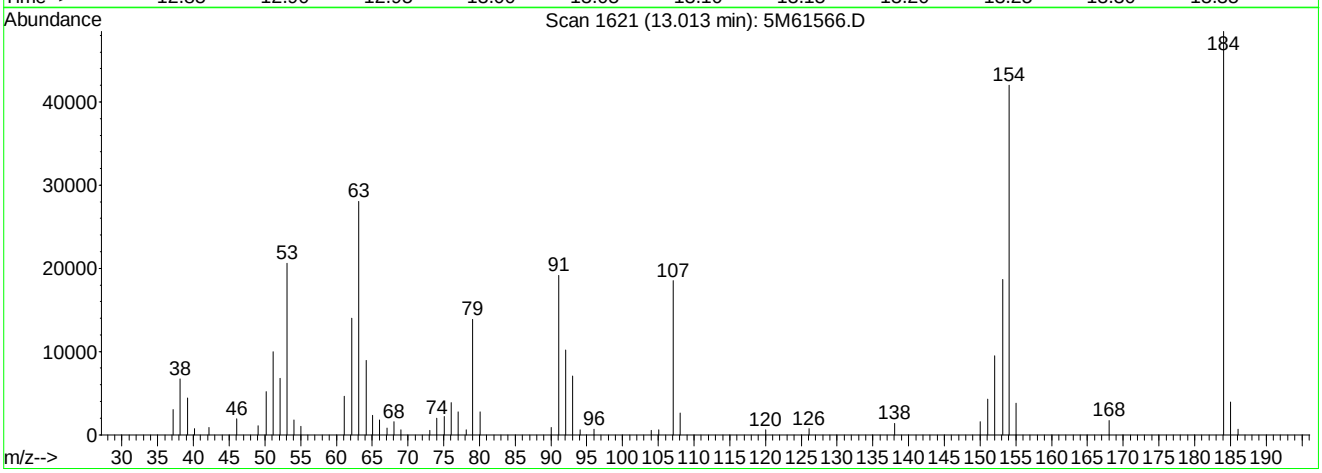
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(72) 4-Nitrophenol (P)

13.01min 1.98ug/ml

response 3903

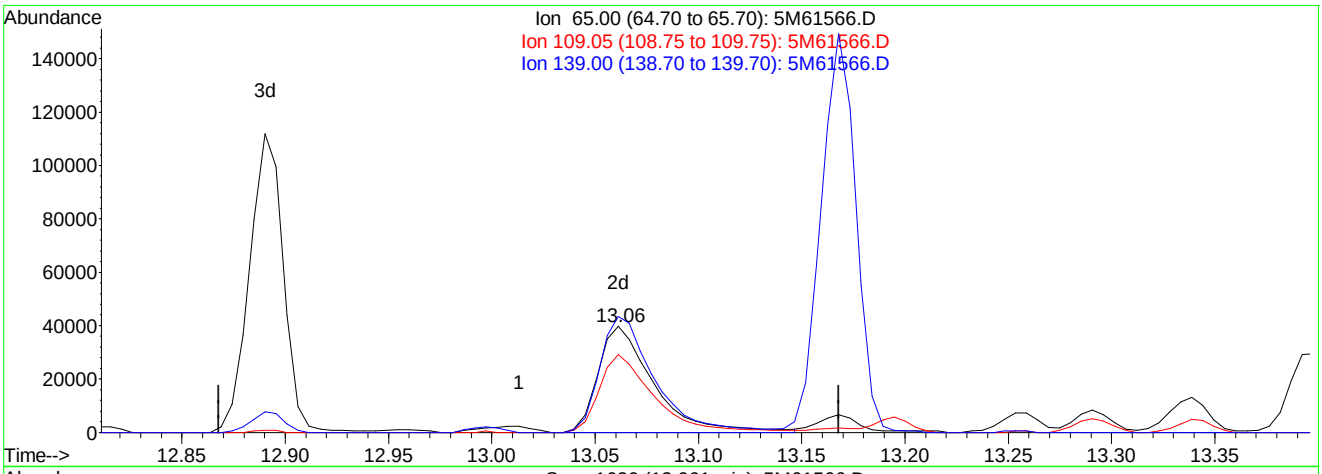
Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

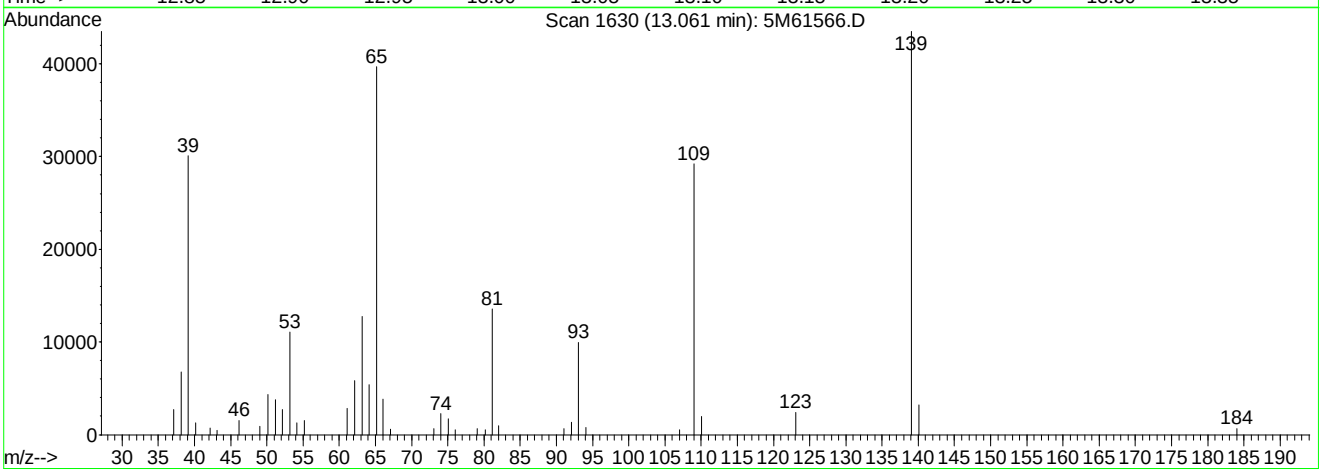
5M61566.D MEGAMIX.M Fri Jan 14 08:50:25 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61566.D Vial: 2
Acq On : 14 Jan 2011 8:25 am Operator: CAA
Sample : WG353967-02 50ppm Megamix STD Inst : HPMS5
Misc : 1,1 STD42372 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 8:50 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Fri Jan 14 08:20:52 2011
Response via : Multiple Level Calibration





TIC: 5M61566.D

(72) 4-Nitrophenol (P)

13.06min 37.67ug/ml mint

response 74281

Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

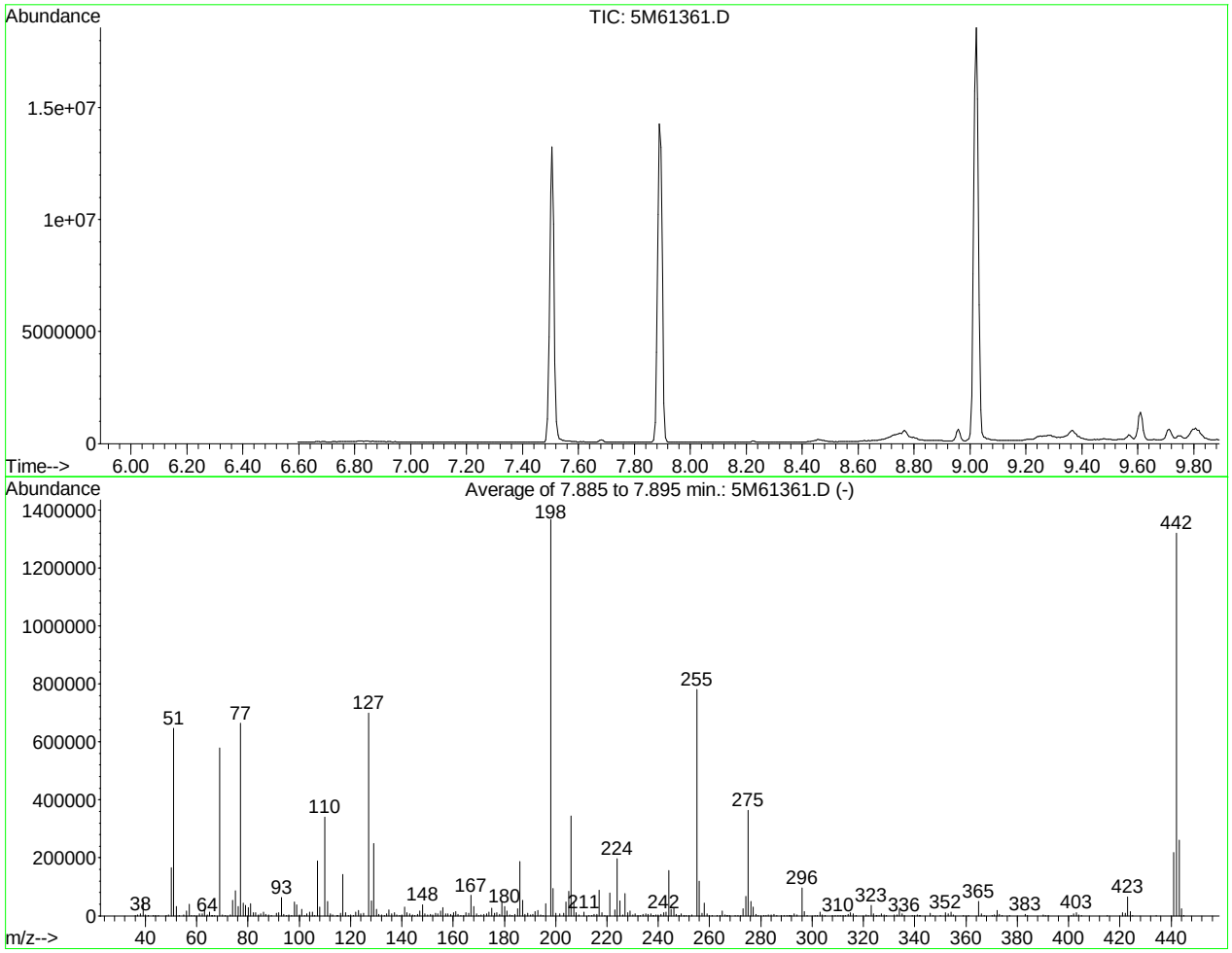
5M61566.D MEGAMIX.M Fri Jan 14 08:50:30 2011

Analyst: 01/17/2011 08:48 Supervisor: 01/17/2011 10:14

#1 - Data system fails to select correct peak

2.2.1.5 Raw QC Data

```
Data File : C:\MSDCHEM\1\DATA\122210\5M61361.D          Vial: 1
Acq On    : 22 Dec 2010   9:50 am                    Operator: CAA
Sample    : WG352225-01 50ppm DFTPP STD              Inst    : HPMS5
Misc      : 1,1 STD41383                             Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : DFTPP
```



AutoFind: Scans 242, 243, 244; Background Corrected with Scan 235

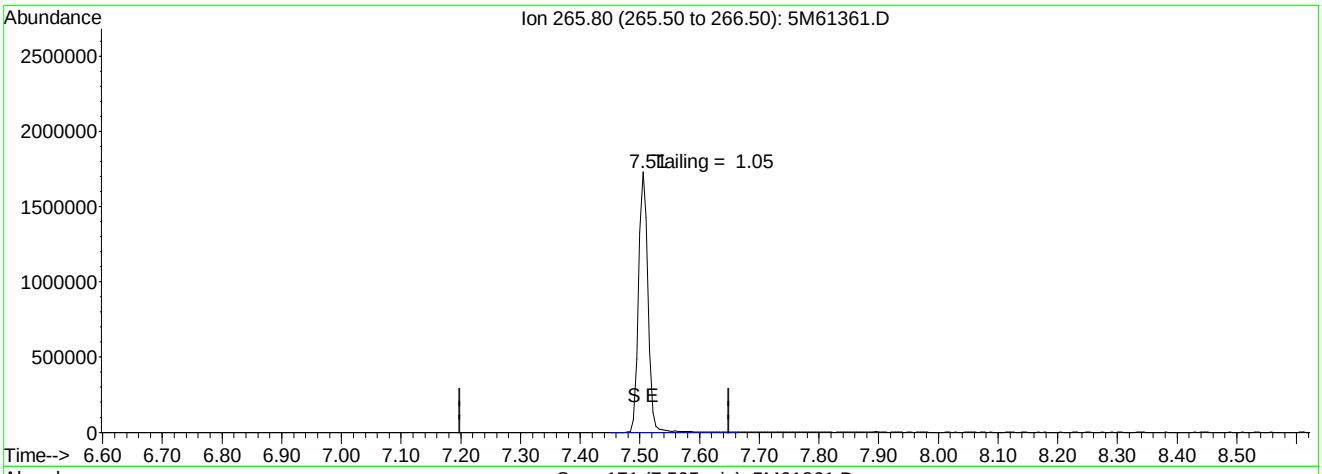
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.4	647530	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.3	578666	PASS
70	69	0.00	2	0.5	2911	PASS
127	198	40	60	51.1	698602	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1366698	PASS
199	198	5	9	6.9	94325	PASS
275	198	10	30	26.6	363328	PASS
365	198	1	100	3.7	50032	PASS
441	443	0.01	100	84.0	218517	PASS
442	198	40	100	96.5	1319104	PASS
443	442	17	23	19.7	259989	PASS

5M61361.D DFTPP.M Thu Dec 23 09:13:16 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61361.D Vial: 1
Acq On : 22 Dec 2010 9:50 am Operator: CAA
Sample : WG352225-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 22 10:01 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Nov 04 12:47:03 2010
Response via : Single Level Calibration



TIC: 5M61361.D

(1) Pentachlorophenol

7.51min 0.00ug/ml

response 1889610

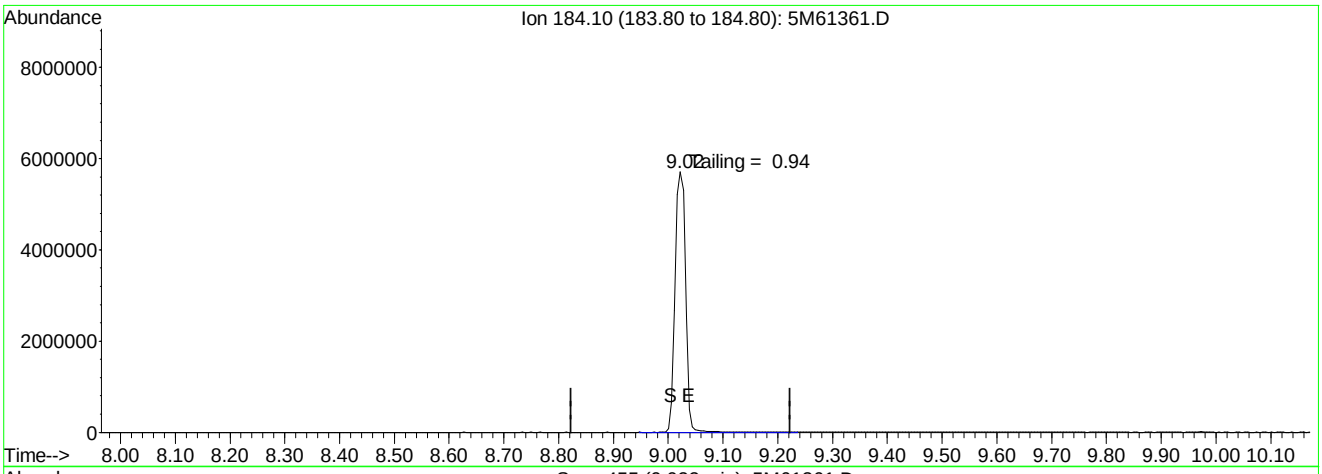
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

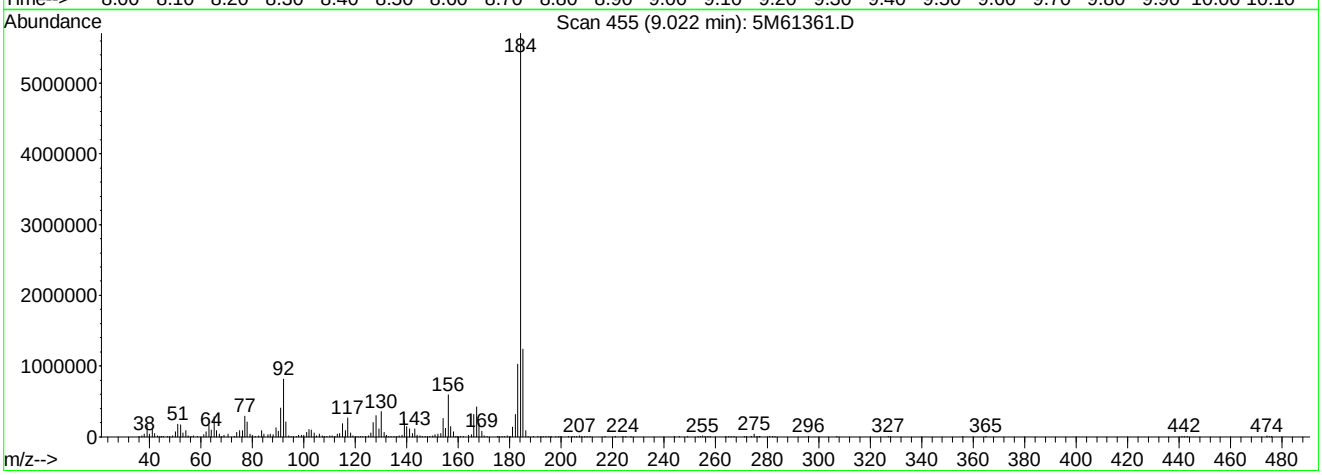
5M61361.D DFTPP.M Thu Dec 23 09:13:22 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61361.D Vial: 1
Acq On : 22 Dec 2010 9:50 am Operator: CAA
Sample : WG352225-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:13 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Dec 23 09:13:33 2010
Response via : Single Level Calibration





TIC: 5M61361.D

(2) Benzidine

9.02min 0.00ug/ml

response 7422595

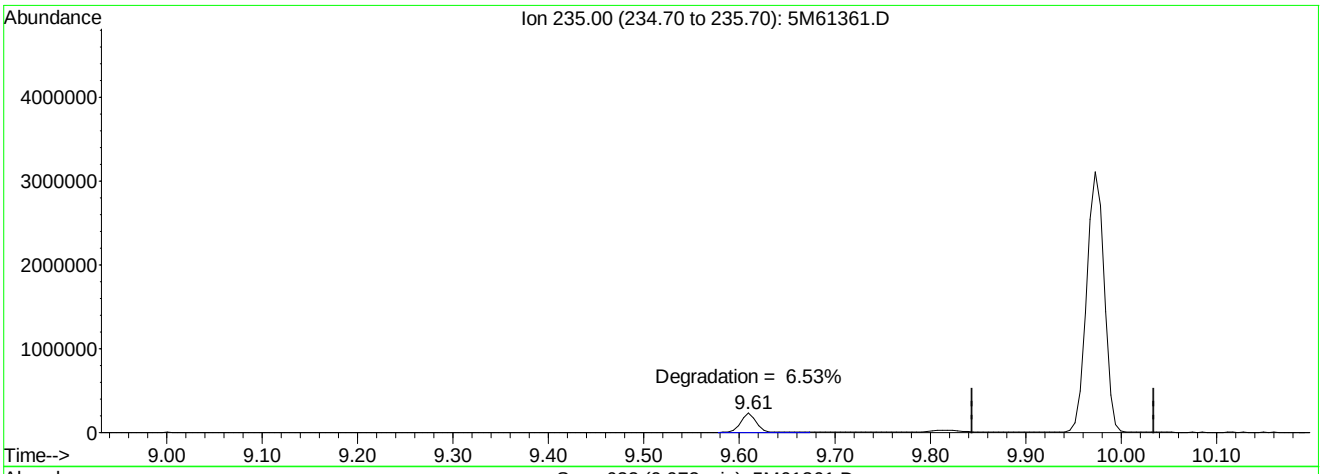
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

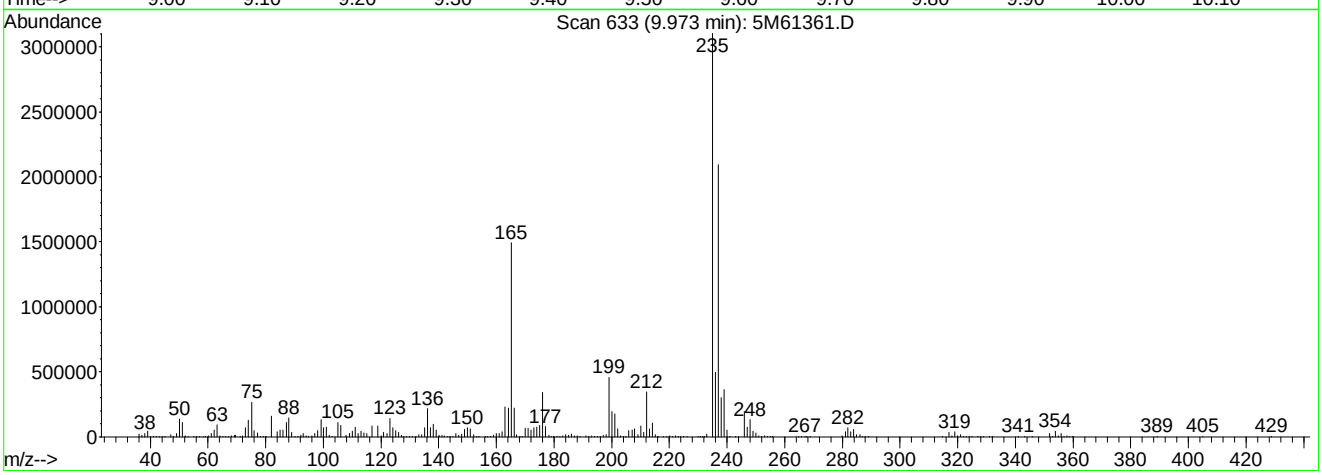
5M61361.D DFTPP.M Thu Dec 23 09:13:40 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122210\5M61361.D Vial: 1
Acq On : 22 Dec 2010 9:50 am Operator: CAA
Sample : WG352225-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 9:13 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Dec 23 09:13:33 2010
Response via : Single Level Calibration





TIC: 5M61361.D

(3) DDT

9.97min 0.00ug/ml

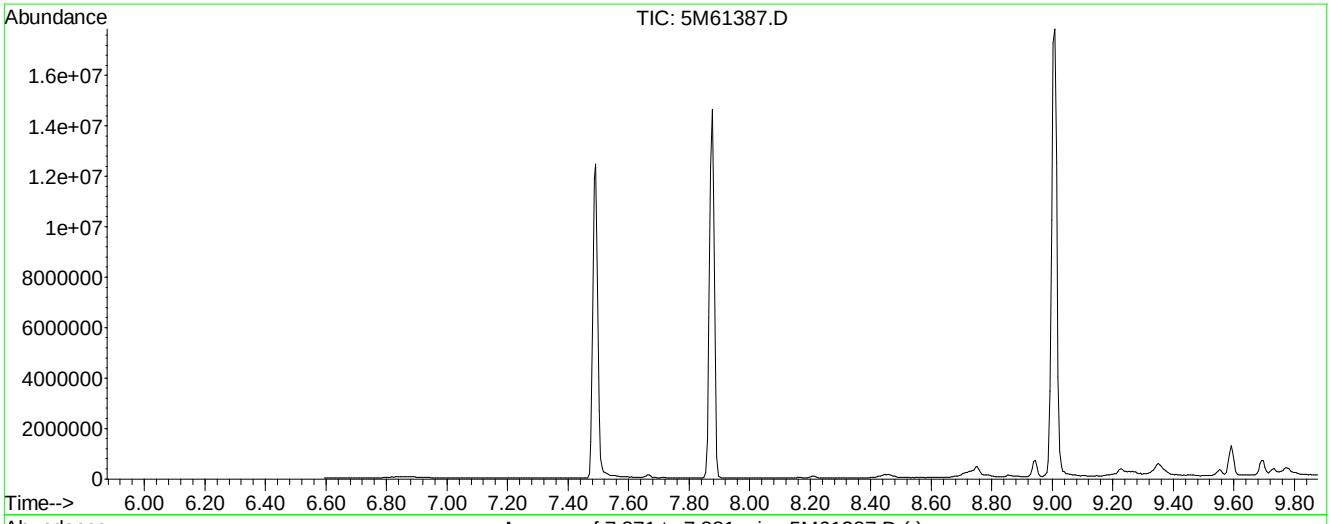
response 3970651

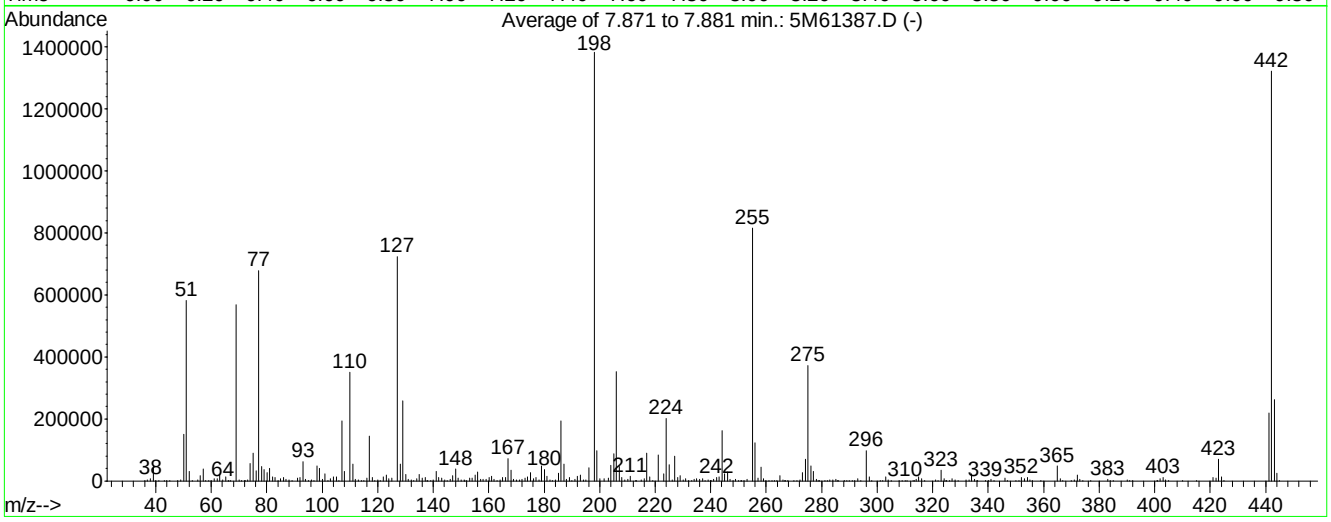
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M61361.D DFTPP.M Thu Dec 23 09:13:47 2010

DFTPP

```
Data File : C:\MSDCHEM\1\DATA\122310\5M61387.D          Vial: 1
Acq On    : 23 Dec 2010   7:53 am                   Operator: CAA
Sample    : WG352346-01 50ppm DFTPP STD             Inst    : HPMS5
Misc      : 1,1 STD41383                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : DFTPP
```





AutoFind: Scans 240, 241, 242; Background Corrected with Scan 233

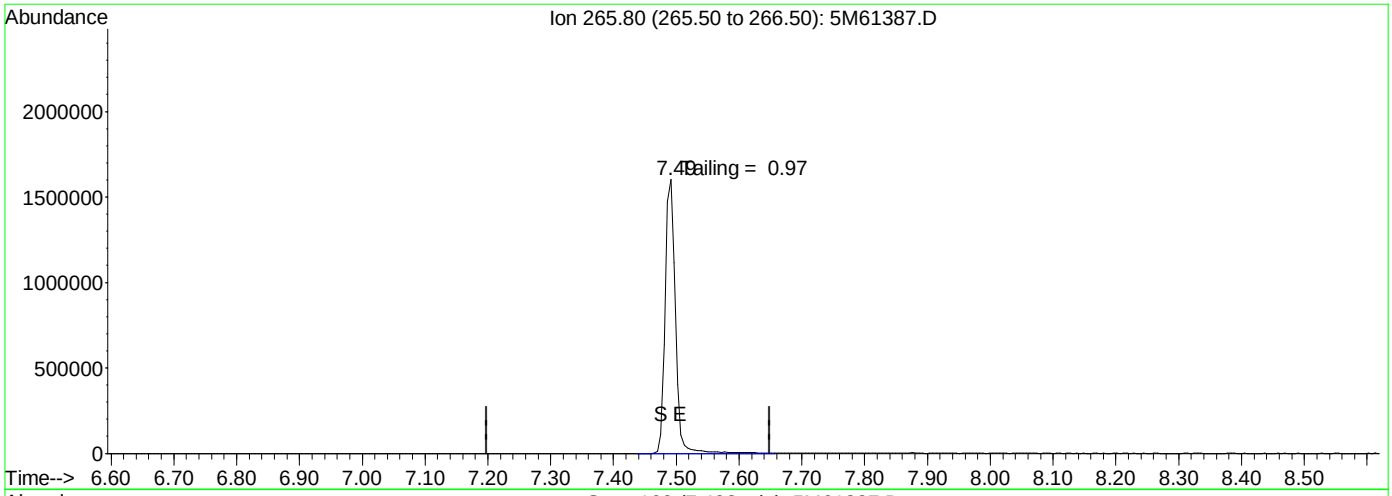
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	582236	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.0	567466	PASS
70	69	0.00	2	0.6	3129	PASS
127	198	40	60	52.2	722730	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1383424	PASS
199	198	5	9	7.0	96480	PASS
275	198	10	30	26.9	372245	PASS
365	198	1	100	3.5	47810	PASS
441	443	0.01	100	83.5	218496	PASS
442	198	40	100	95.6	1322496	PASS
443	442	17	23	19.8	261589	PASS

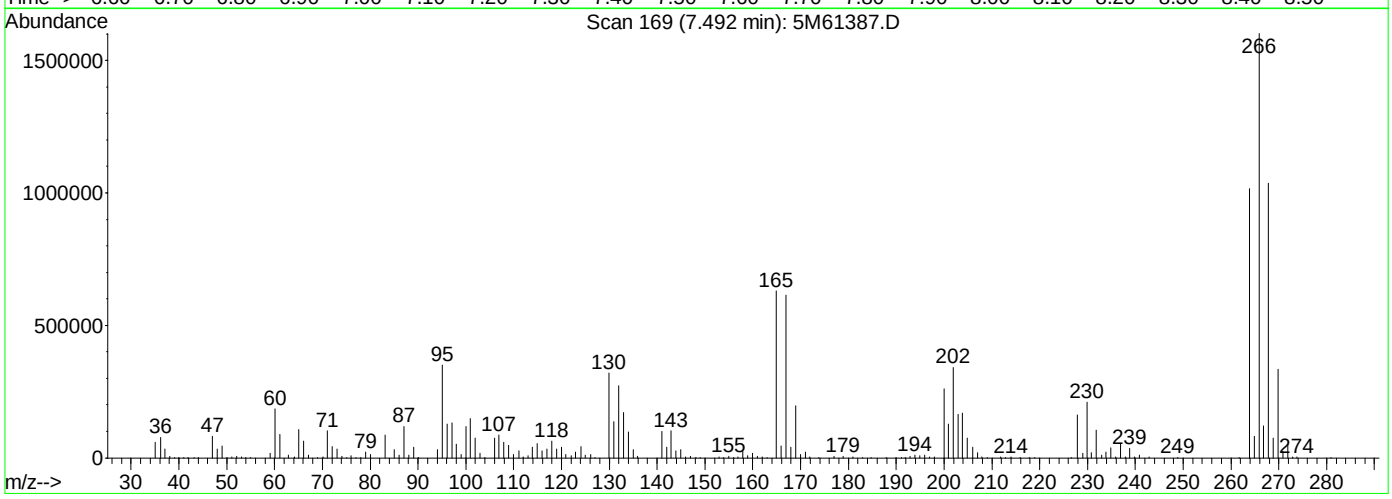
5M61387.D DFTPP.M Thu Dec 30 14:50:53 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61387.D Vial: 1
Acq On : 23 Dec 2010 7:53 am Operator: CAA
Sample : WG352346-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 8:04 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Dec 23 09:13:33 2010
Response via : Single Level Calibration





TIC: 5M61387.D

(1) Pentachlorophenol

7.49min 0.00ug/ml

response 1835119

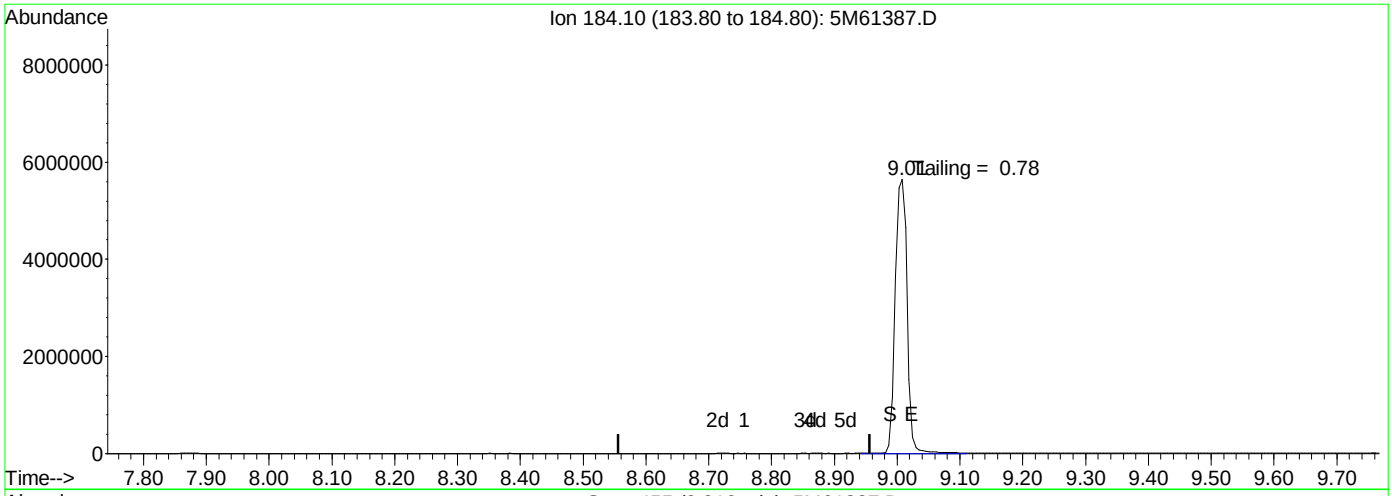
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M61387.D DFTPP.M Thu Dec 30 14:51:58 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61387.D Vial: 1
Acq On : 23 Dec 2010 7:53 am Operator: CAA
Sample : WG352346-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 8:04 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Dec 23 09:13:33 2010
Response via : Single Level Calibration



TIC: 5M61387.D

(2) Benzidine

8.76min 0.00ug/ml

response 340

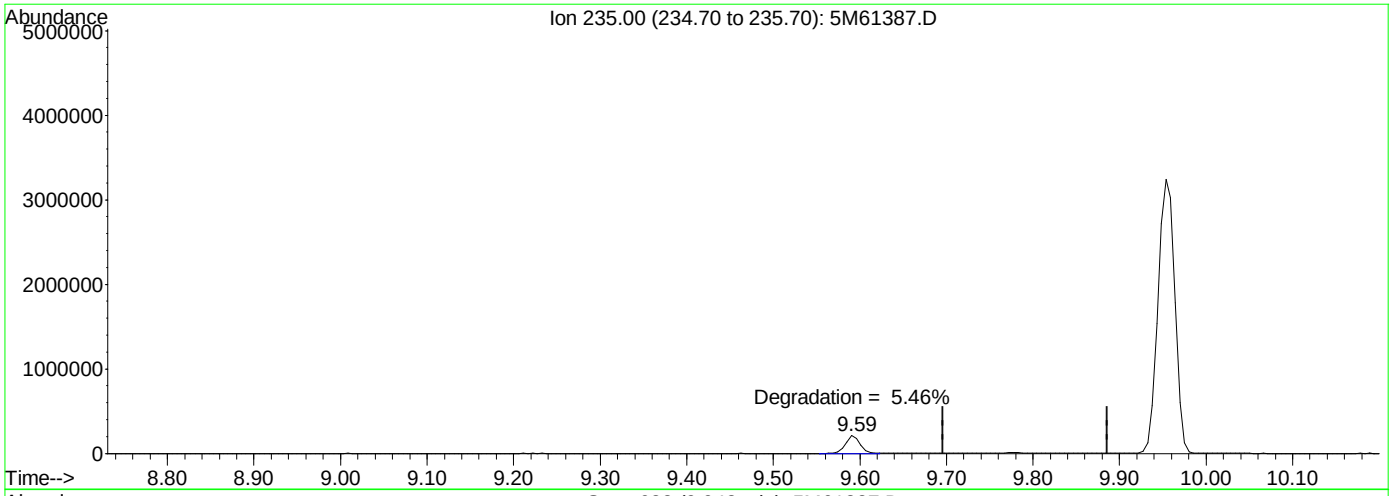
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

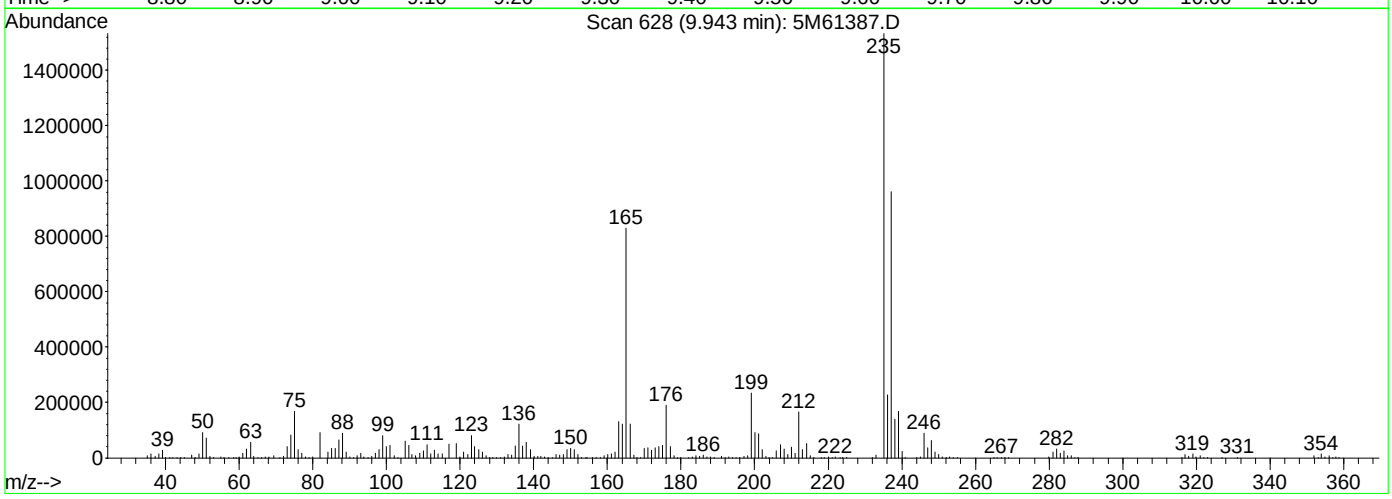
5M61387.D DFTPP.M Thu Dec 30 14:52:06 2010

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\122310\5M61387.D Vial: 1
Acq On : 23 Dec 2010 7:53 am Operator: CAA
Sample : WG352346-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 23 8:04 2010 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Dec 23 09:13:33 2010
Response via : Single Level Calibration





TIC: 5M61387.D

(3) DDT

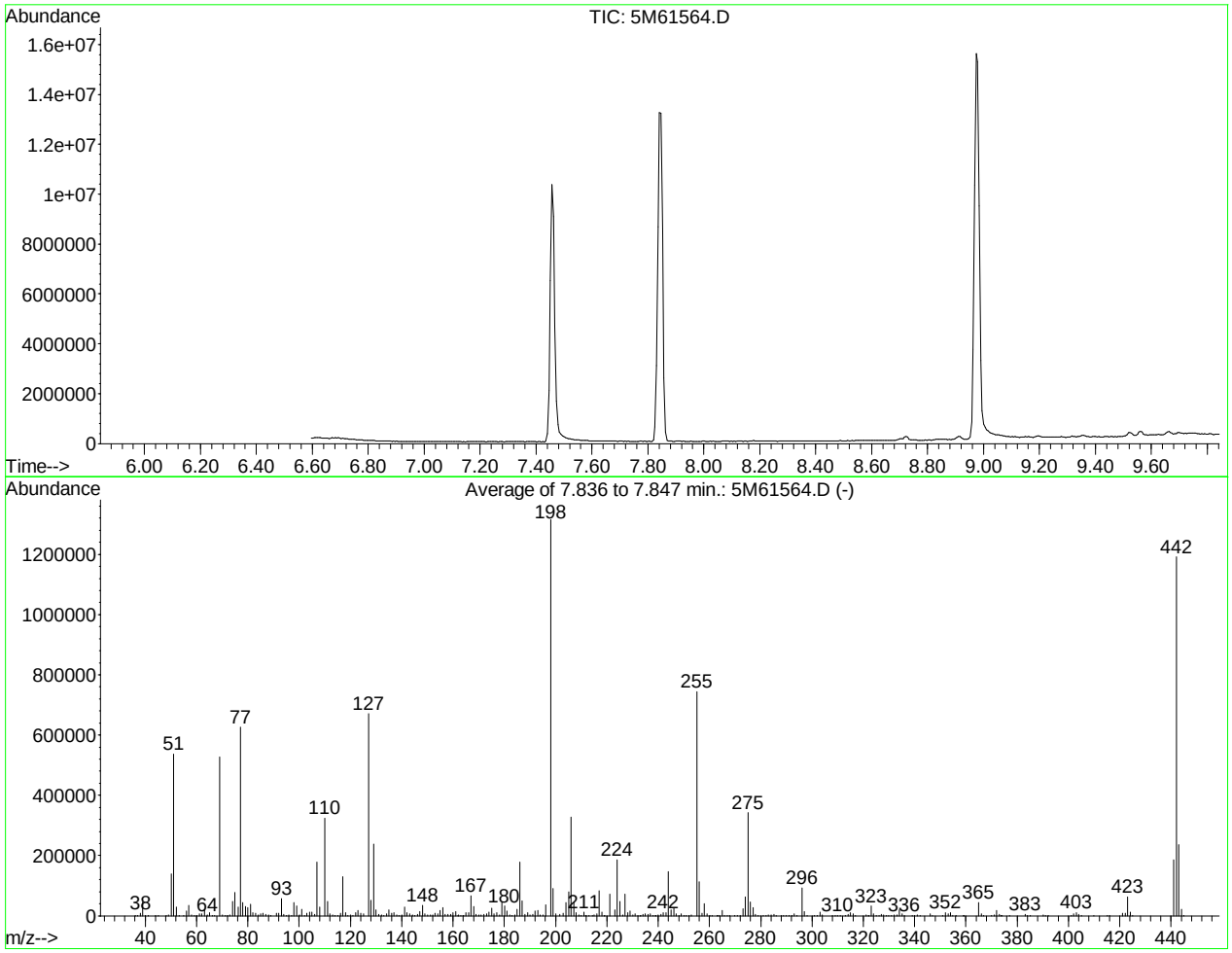
9.78min 0.00ug/ml

response 23234

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M61387.D DFTPP.M Thu Dec 30 14:52:18 2010

```
Data File : C:\MSDCHEM\1\DATA\011411\5M61564.D          Vial: 1
Acq On    : 14 Jan 2011   7:33 am                   Operator: CAA
Sample    : WG353967-01 50ppm DFTPP STD             Inst    : HPMS5
Misc      : 1,1 STD41383                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : DFTPP
```



AutoFind: Scans 233, 234, 235; Background Corrected with Scan 226

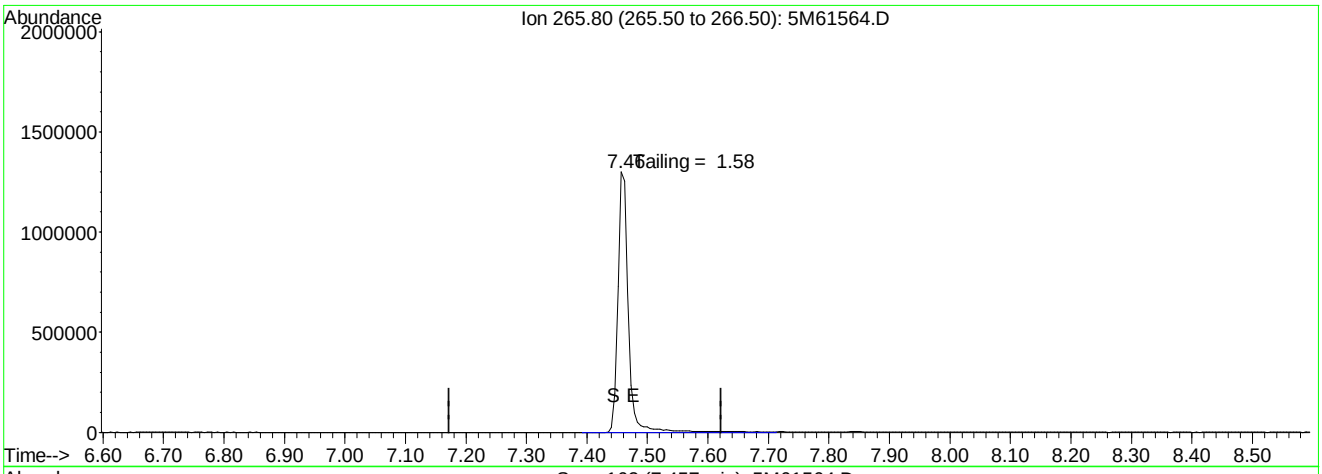
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	537474	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.1	527253	PASS
70	69	0.00	2	0.5	2733	PASS
127	198	40	60	51.0	670570	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1315562	PASS
199	198	5	9	6.9	90853	PASS
275	198	10	30	26.0	342464	PASS
365	198	1	100	3.3	43560	PASS
441	443	0.01	100	78.9	185909	PASS
442	198	40	100	90.7	1192768	PASS
443	442	17	23	19.8	235645	PASS

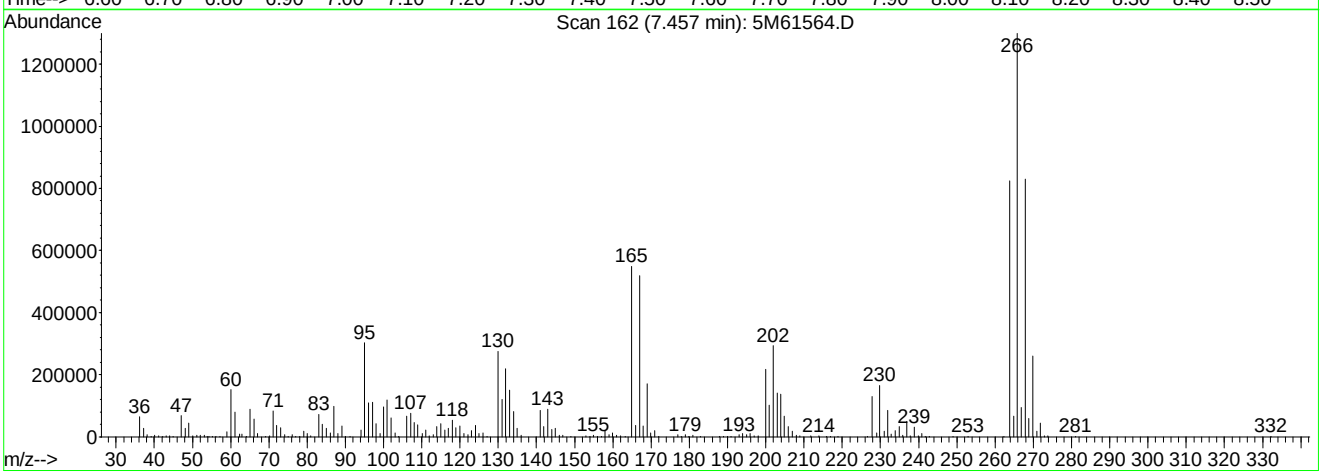
5M61564.D DFTPP.M Mon Jan 17 07:59:27 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61564.D Vial: 1
Acq On : 14 Jan 2011 7:33 am Operator: CAA
Sample : WG353967-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 14 7:44 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Jan 11 07:31:05 2011
Response via : Single Level Calibration





TIC: 5M61564.D

(1) Pentachlorophenol

7.46min 0.00ug/ml

response 1554216

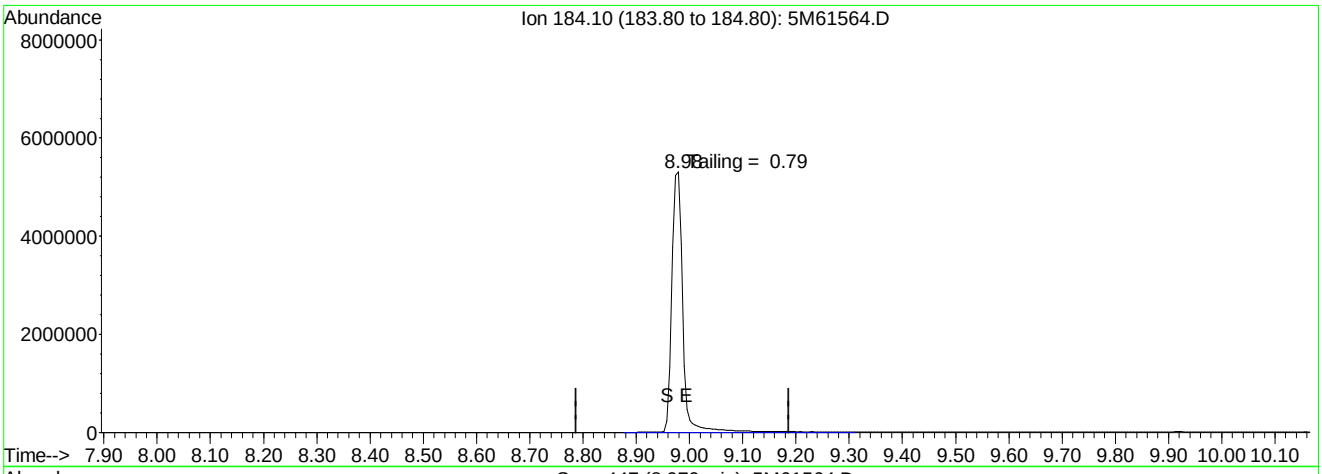
Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

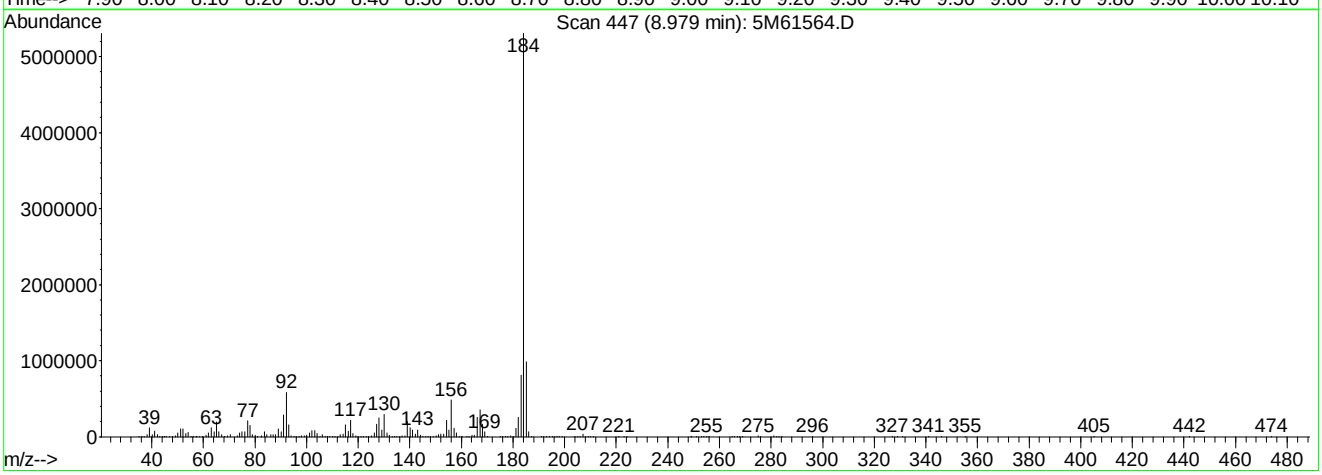
5M61564.D DFTPP.M Mon Jan 17 07:59:33 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61564.D Vial: 1
Acq On : 14 Jan 2011 7:33 am Operator: CAA
Sample : WG353967-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:00 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Mon Jan 17 08:00:08 2011
Response via : Single Level Calibration





TIC: 5M61564.D

(2) Benzidine

8.98min 0.00ug/ml

response 7486736

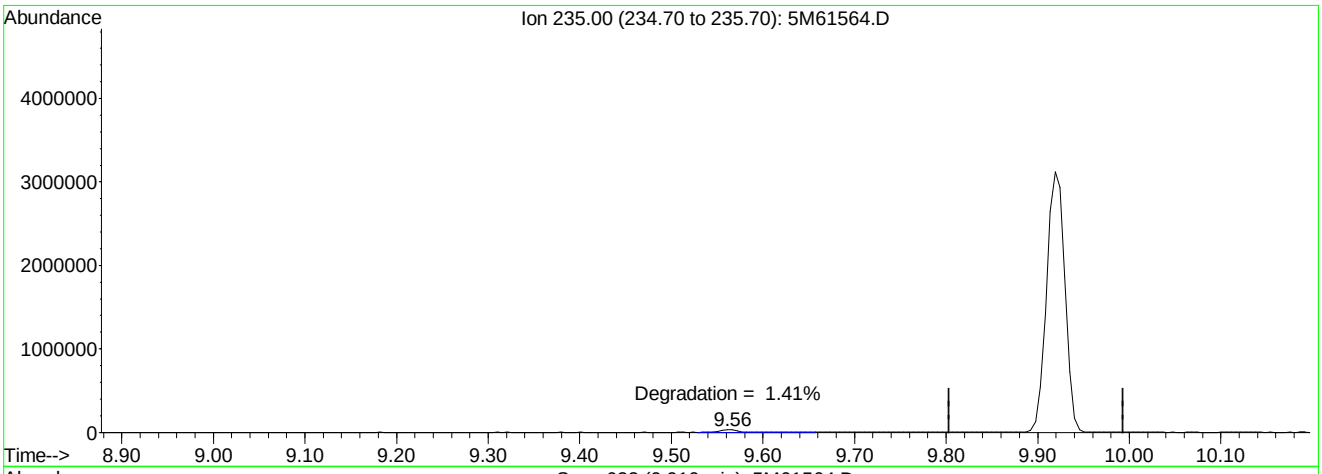
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

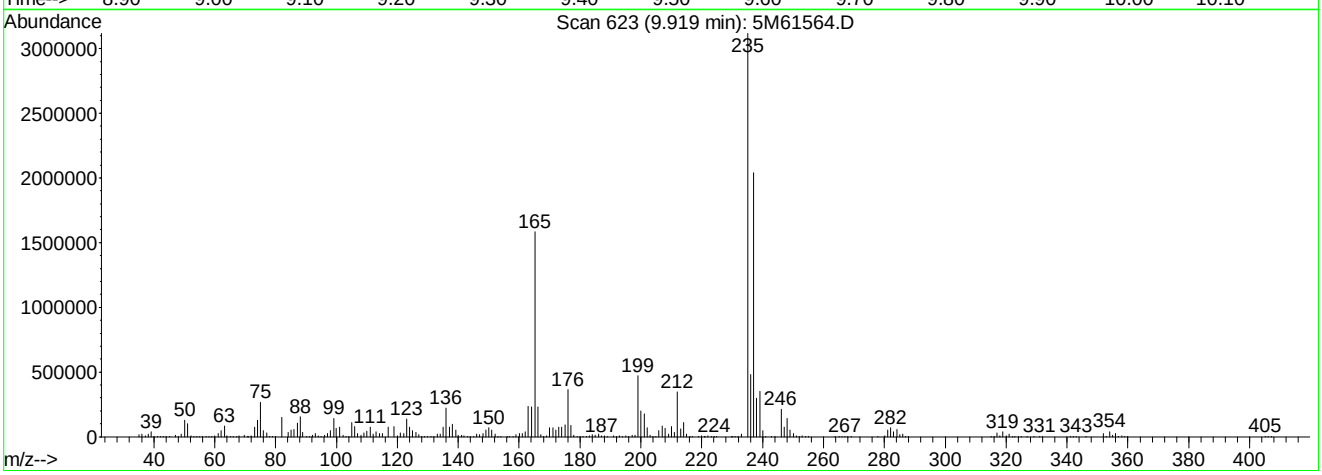
5M61564.D DFTPP.M Mon Jan 17 08:00:22 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61564.D Vial: 1
Acq On : 14 Jan 2011 7:33 am Operator: CAA
Sample : WG353967-01 50ppm DFTPP STD Inst : HPMS5
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:00 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Mon Jan 17 08:00:08 2011
Response via : Single Level Calibration





TIC: 5M61564.D

(3) DDT

9.92min 0.00ug/ml

response 4370800

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M61564.D DFTPP.M Mon Jan 17 08:00:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61567.D Vial: 3
Acq On : 14 Jan 2011 8:58 am Operator: CAA
Sample : WG353486-01 BLK 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:08 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.23	152	116245	40.00 ug/ml	0.00
30) Naphthalene-d8	10.83	136	429794	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.95	164	233548	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.57	188	389522	40.00 ug/ml	0.00
113) Chrysene-d12	17.44	240	439591	40.00 ug/ml	-0.01
128) Perylene-d12	19.89	264	464602	40.00 ug/ml	-0.03

System Monitoring Compounds

8) 2-Fluorophenol	7.68	112	202603	57.8930 ug/ml	0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 57.89%		
12) Phenol-d5	8.79	99	266227	61.4567 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 61.46%		
31) Nitrobenzene-d5	9.94	82	123371	30.4674 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 60.94%		
59) 2-Fluorobiphenyl	12.14	172	258496	32.9979 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 66.00%		
86) 2,4,6-Tribromophenol	13.84	330	98400	78.3675 ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 78.37%		
117) p-Terphenyl-d14	16.20	244	359346	47.7740 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 95.54%		

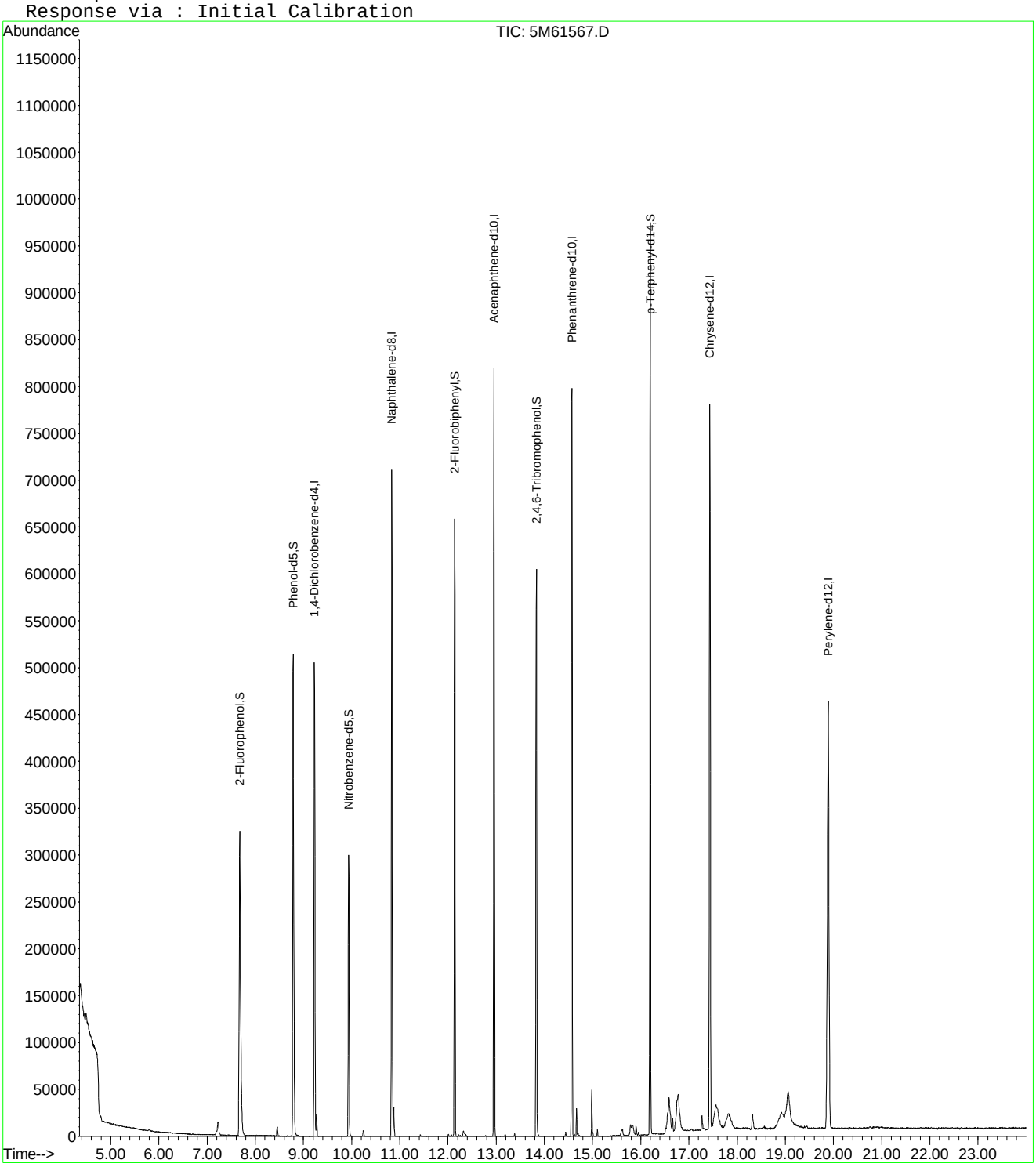
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
5M61567.D MEGAMIX.M Mon Jan 17 08:15:19 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61567.D Vial: 3
Acq On : 14 Jan 2011 8:58 am Operator: CAA
Sample : WG353486-01 BLK 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:01 2011 Quant Results File: MEGAMIX.RES

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.23	152	130650	40.00 ug/ml	0.00
30) Naphthalene-d8	10.84	136	534576	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.96	164	260342	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.57	188	440978	40.00 ug/ml	0.00
113) Chrysene-d12	17.45	240	501512	40.00 ug/ml	0.00
128) Perylene-d12	19.90	264	531299	40.00 ug/ml	-0.02

System Monitoring Compounds					
8) 2-Fluorophenol	7.68	112	275832	70.1277 ug/ml	0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 70.13%		
12) Phenol-d5	8.79	99	349078	71.6976 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 71.70%		
31) Nitrobenzene-d5	9.94	82	173486	34.4460 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 68.90%		
59) 2-Fluorobiphenyl	12.14	172	345351	39.5481 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.10%		
86) 2,4,6-Tribromophenol	13.84	330	118156	84.4168 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 84.42%		
117) p-Terphenyl-d14	16.20	244	397157	46.2816 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 92.56%		

Target Compounds					Qvalue
2) 1,4-Dioxane	5.04	88	51286m	30.0755 ug/ml	
3) n-Nitrosodimethylamine	5.71	74	83730	31.5525 ug/ml	89
4) Pyridine	5.72	79	120326	28.1385 ug/ml#	70
11) Aniline	8.86	93	214163	34.2983 ug/ml	99
13) Phenol	8.80	94	174131	33.9403 ug/ml	96
14) bis(2-Chloroethyl)ether	8.90	63	106912	32.2027 ug/ml	91
16) 2-Chlorophenol	9.02	128	160370	36.7148 ug/ml	96
17) 1,3-Dichlorobenzene	9.19	146	145079	30.4995 ug/ml	99
18) 1,4-Dichlorobenzene	9.25	146	155704	31.6589 ug/ml	99
19) Benzyl Alcohol	9.39	108	111820	40.2029 ug/ml	97
20) 1,2-Dichlorobenzene	9.49	146	146433	32.0404 ug/ml	99
21) 2-Methylphenol	9.54	107	123404	36.7201 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.57	45	227579	28.2804 ug/ml	92
23) 3-,4-Methylphenol	9.71	107	161224	37.1720 ug/ml	99
25) n-Nitrosodipropylamine	9.75	70	110262	37.2465 ug/ml#	51
26) Acetophenone	9.74	105	204652	37.9859 ug/ml	98
27) n-Nitrosomorpholine	9.75	56	7390	2.7448 ug/ml#	54
28) o-Toluidine	9.74	106	15962	2.5131 ug/ml#	1
29) Hexachloroethane	9.88	117	54924	28.8373 ug/ml	99
32) Nitrobenzene	9.96	77	164619	33.0560 ug/ml	100
34) Isophorone	10.24	82	296332	32.4044 ug/ml	99
35) 2-Nitrophenol	10.36	139	87635	33.1409 ug/ml	94
36) 2,4-Dimethylphenol	10.36	122	148581	34.5884 ug/ml	99
38) bis(2-Chloroethoxy)methane	10.48	93	184667	27.4294 ug/ml	89
39) Benzoic Acid	10.46	105	30472	12.7491 ug/ml	88
40) 2,4-Dichlorophenol	10.66	162	139082	35.3159 ug/ml	99
42) 1,2,4-Trichlorobenzene	10.77	180	135412	30.9226 ug/ml	99
43) Naphthalene	10.87	128	433997	32.4439 ug/ml	100
44) 4-Chloroaniline	10.92	127	201405	34.3355 ug/ml	97
47) Hexachlorobutadiene	11.06	225	79511	31.4038 ug/ml	100
48) n-Nitrosodi-n-Butylamine	11.49	84	781	Below Cal #	51
49) p-Phenylenediamine	11.49	108	11504	3.2133 ug/ml#	1
50) 4-Chloro-3-Methylphenol	11.49	107	143636	36.7983 ug/ml	99

(#) = qualifier out of range (m) = manual integration
5M61568.D MEGAMIX.M Mon Jan 17 08:38:38 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) 2-Methylnaphthalene	11.71	142	305049	34.6877 ug/ml	99
53) 1-Methylnaphthalene	11.84	142	287346	32.7203 ug/ml	99
56) Hexachlorocyclopentadiene	11.97	237	46491	21.3352 ug/ml	99
57) 2,4,6-Trichlorophenol	12.06	196	101937	39.9853 ug/ml	99
58) 2,4,5-Trichlorophenol	12.12	196	115519	42.6015 ug/ml	100
60) Isosafrole	12.30	162	289966	86.6162 ug/ml#	34
61) 2-Chloronaphthalene	12.30	162	289966	33.5271 ug/ml	100
62) 1-Chloronaphthalene	12.30	162	289966	40.7911 ug/ml	99
63) 2-Nitroaniline	12.42	65	96109	38.2634 ug/ml	93
65) Dimethylphthalate	12.62	163	357742	41.5915 ug/ml	100
66) 1,3-Dinitrobenzene	12.67	168	62820	40.2694 ug/ml	98
67) 2,6-Dinitrotoluene	12.72	165	90846	43.9605 ug/ml	97
68) Acenaphthylene	12.79	152	473316	39.0996 ug/ml	99
69) 3-Nitroaniline	12.89	138	98701	41.5007 ug/ml	100
70) 2,4-Dinitrophenol	13.00	184	52501	50.3180 ug/ml#	42
71) Acenaphthene	13.00	154	298555	39.2716 ug/ml	98
72) 4-Nitrophenol	13.05	65	65323m	31.9642 ug/ml	
73) 2,4-Dinitrotoluene	13.17	165	113816	42.6454 ug/ml	90
75) Dibenzofuran	13.17	168	410703	40.1877 ug/ml	100
76) 2,3,4,6-Tetrachlorophenol	13.29	232	95897	42.7827 ug/ml	100
79) Diethylphthalate	13.40	149	366230	42.3366 ug/ml	100
81) Fluorene	13.55	166	355917	40.8806 ug/ml	100
82) 4-Chlorophenyl Phenyl Ethe	13.51	204	165000	40.8009 ug/ml	99
83) 4-Nitroaniline	13.58	138	101160	42.2566 ug/ml	91
85) 1,2-Diphenylhydrazine	13.69	77	348215	39.3885 ug/ml	98
88) 4,6-Dinitro-2-Methylphenol	13.62	198	77139	49.8380 ug/ml	76
89) n-Nitrosodiphenylamine	13.64	169	313031	42.9633 ug/ml	99
91) Sym-Trinitrobenzene	14.04	75	14698	6.8715 ug/ml#	66
94) Phorate	14.04	75	14698	2.8104 ug/ml#	42
95) 4-Bromophenyl Phenyl Ether	14.04	248	107391	41.5035 ug/ml	99
96) Hexachlorobenzene	14.24	284	122960	42.4455 ug/ml	100
97) Dimethoate	14.04	87	587	Below Cal #	1
99) Pentachlorophenol	14.42	266	80752	43.5409 ug/ml	99
101) Pentachloronitrobenzene	14.42	237	2458	2.1873 ug/ml#	17
102) Disulfoton	14.60	88	37181	8.5374 ug/ml#	1
103) Phenanthrene	14.60	178	521882	43.1848 ug/ml	100
104) Anthracene	14.65	178	529299	43.7883 ug/ml	99
105) Carbazole	14.80	167	497669	43.9145 ug/ml	98
107) Di-n-Butyl Phthalate	15.11	149	623417	43.6089 ug/ml	100
112) Fluoranthene	15.86	202	570335	45.4534 ug/ml	99
114) Benzidine	15.94	184	201200	39.5198 ug/ml	100
115) Pyrene	16.11	202	596549	43.9790 ug/ml	99
121) Butyl Benzyl Phthalate	16.67	149	281106	44.3629 ug/ml	94
122) 3,3'-Dimethylbenzidine	16.66	212	4954	Below Cal #	1
124) bis(2-Ethylhexyl)phthalate	17.27	149	417347	44.0537 ug/ml	99
125) 3,3'-Dichlorobenzidine	17.33	252	223307	45.7782 ug/ml	100
126) Benzo[a]anthracene	17.42	228	594617	43.6092 ug/ml	100
127) Chrysene	17.48	228	579791	45.3656 ug/ml	99
129) Di-n-Octyl Phthalate	18.10	149	733851	44.5690 ug/ml	94
131) Benzo[b]fluoranthene	19.12	252	661602m	40.5615 ug/ml	
132) Benzo[k]fluoranthene	19.17	252	608273	49.1800 ug/ml	99
133) Benzo[a]pyrene	19.79	252	615931	46.3983 ug/ml	100
135) Indeno[1,2,3-cd]pyrene	22.73	276	738666	49.6905 ug/ml	99
136) Dibenz[ah]anthracene	22.71	278	611644	49.5285 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

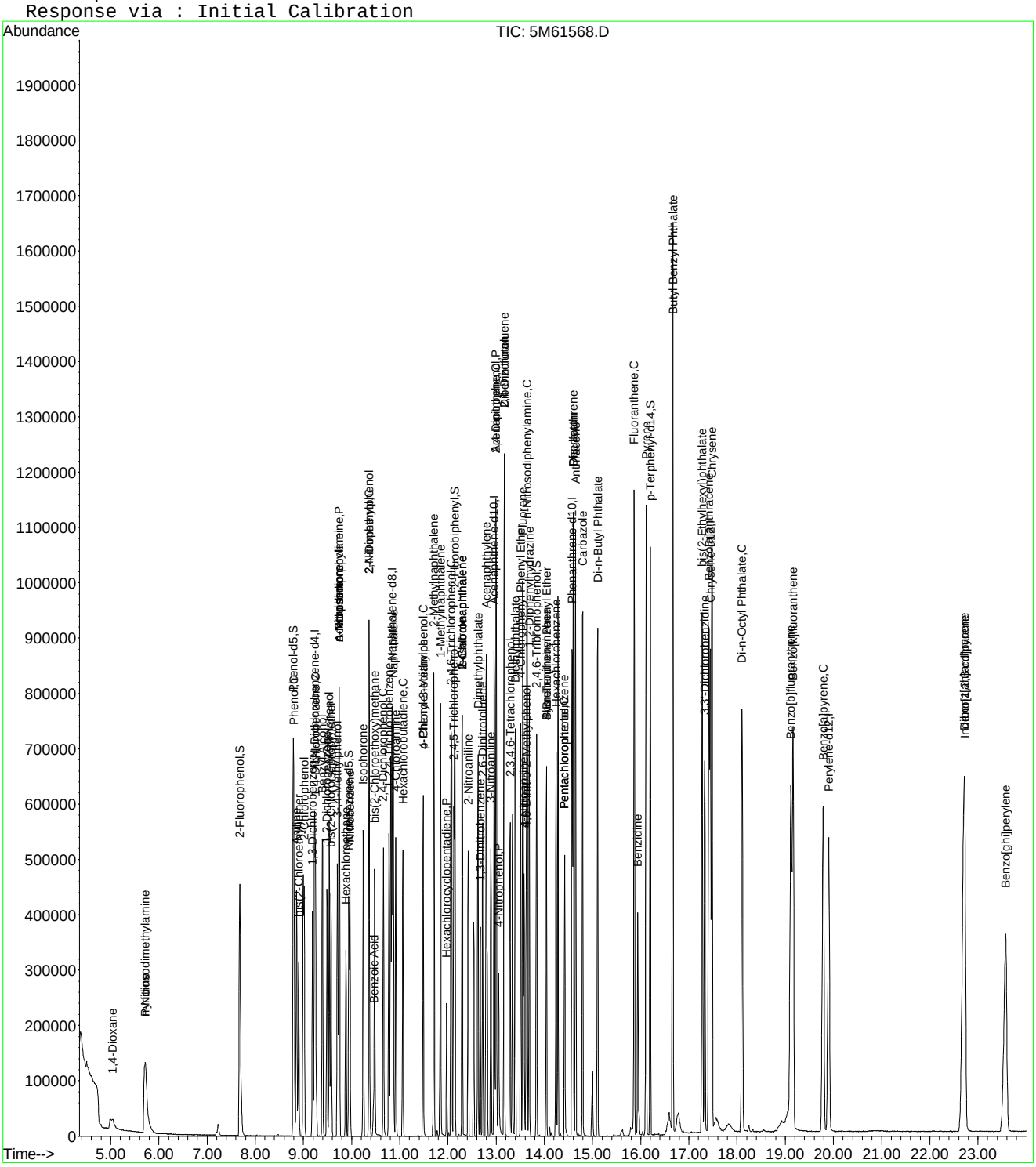
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
137) Benzo[ghi]perylene	23.57	276	636696	53.6637 ug/ml	100

(#) = qualifier out of range (m) = manual integration
5M61568.D MEGAMIX.M Mon Jan 17 08:38:38 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:38 2011 Quant Results File: MEGAMIX.RES

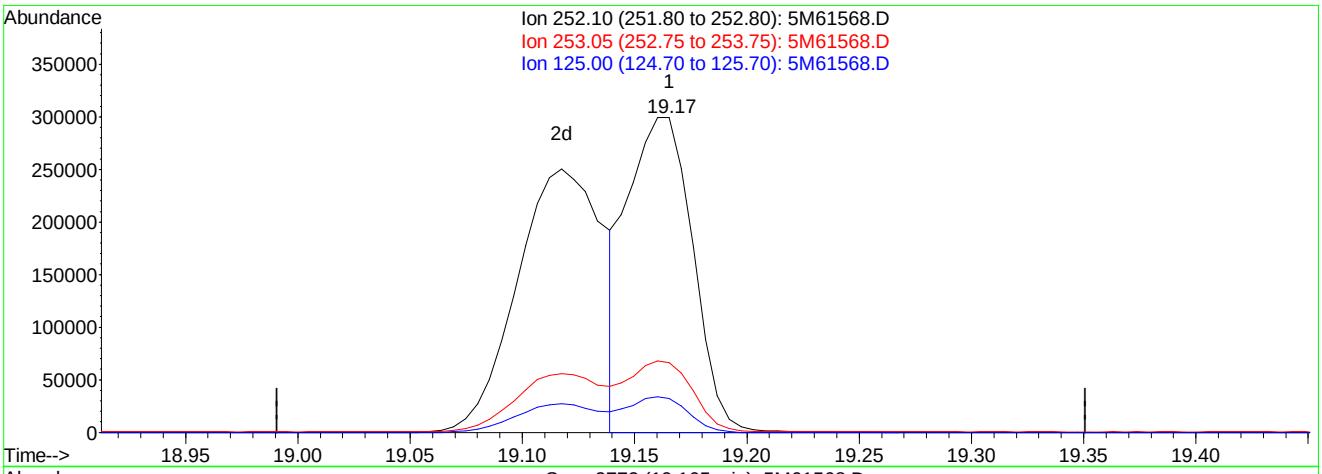
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration

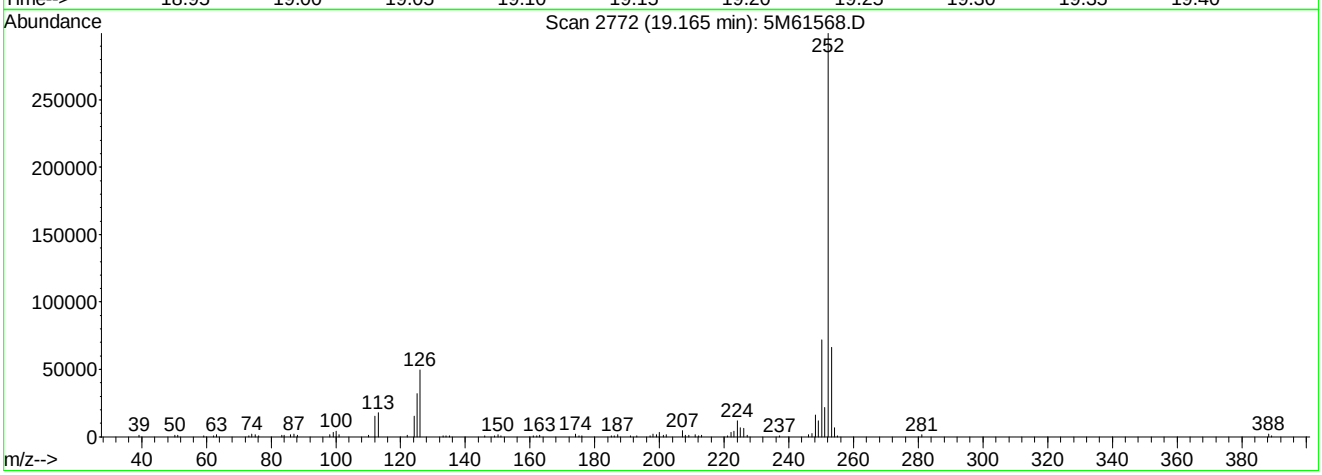


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:01 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(131) Benzo[b]fluoranthene

19.17min 37.29ug/ml

response 608273

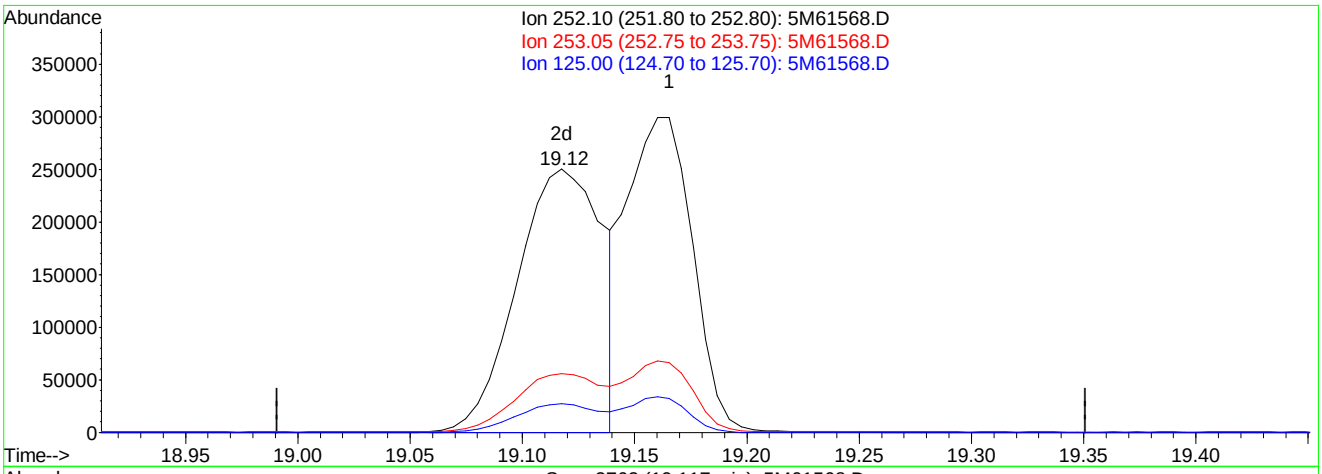
Ion	Exp%	Act%
252.10	100	100
253.05	24.50	22.19
125.00	12.90	10.32
0.00	0.00	0.00

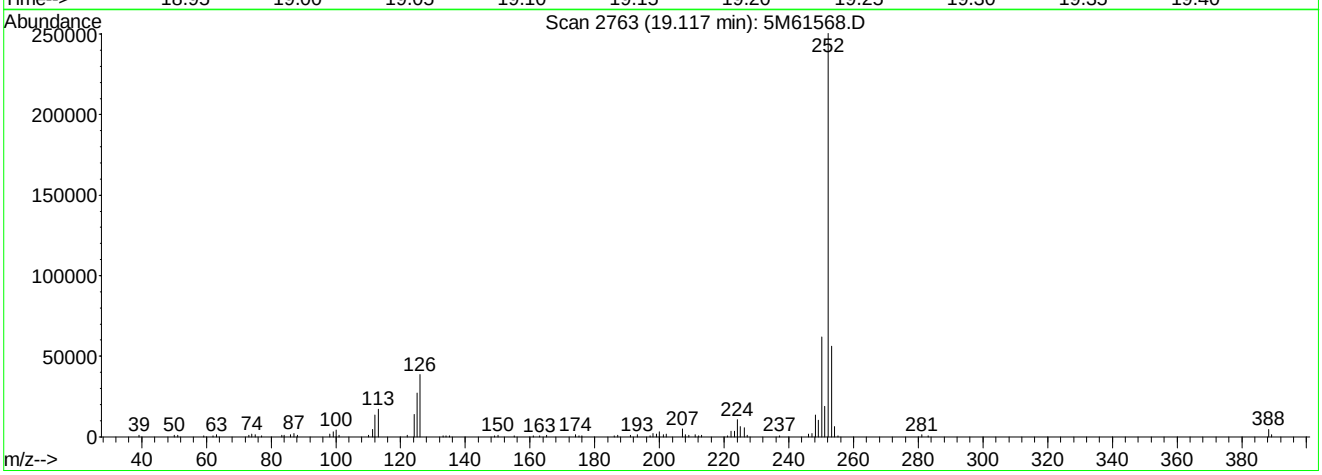
5M61568.D MEGAMIX.M Mon Jan 17 08:02:59 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(131) Benzo[b]fluoranthene

19.12min 40.56ug/ml mint

response 661602

Ion	Exp%	Act%
252.10	100	100
253.05	24.50	20.40
125.00	12.90	9.49
0.00	0.00	0.00

5M61568.D MEGAMIX.M Mon Jan 17 08:03:02 2011

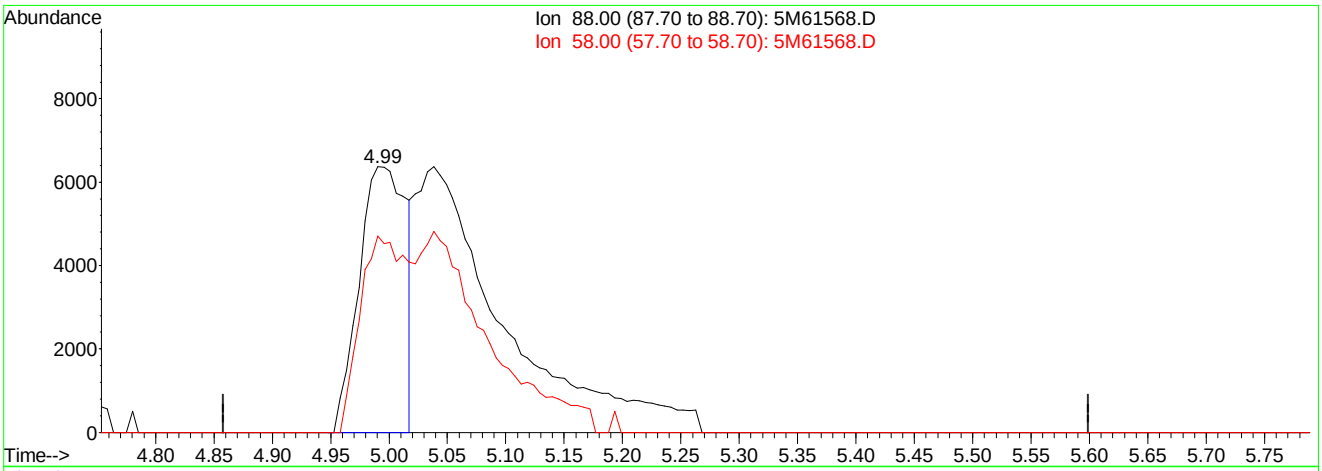
Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:14

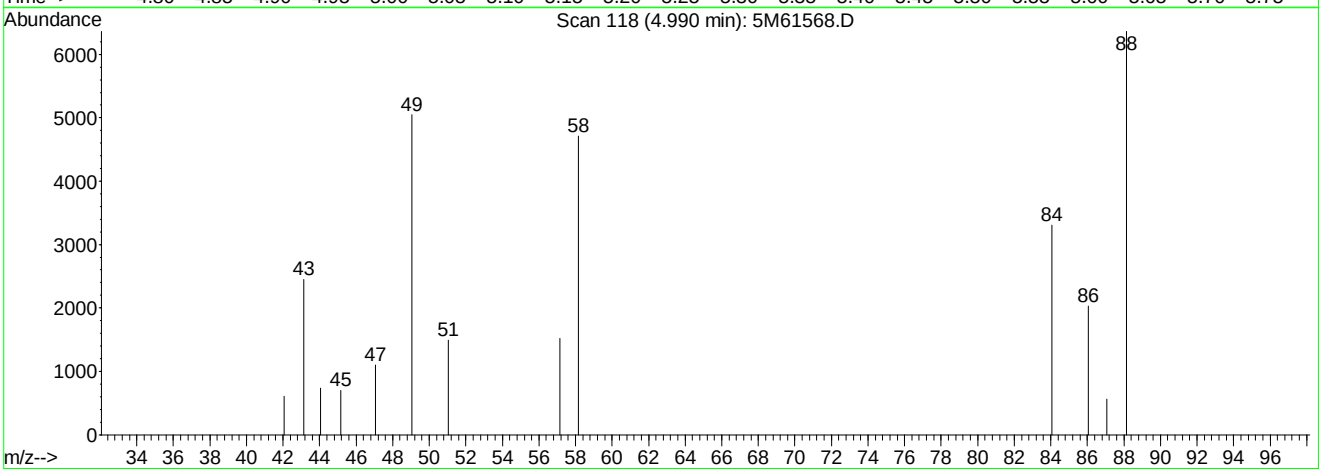
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(2) 1,4-Dioxane

4.99min 10.41ug/ml

response 17753

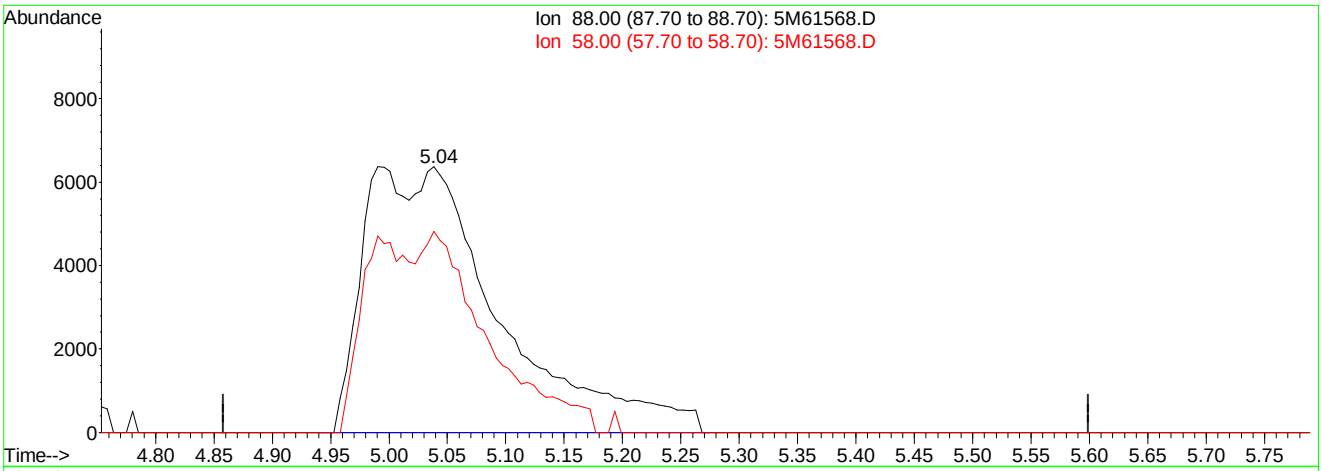
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	78.94
0.00	0.00	0.00
0.00	0.00	0.00

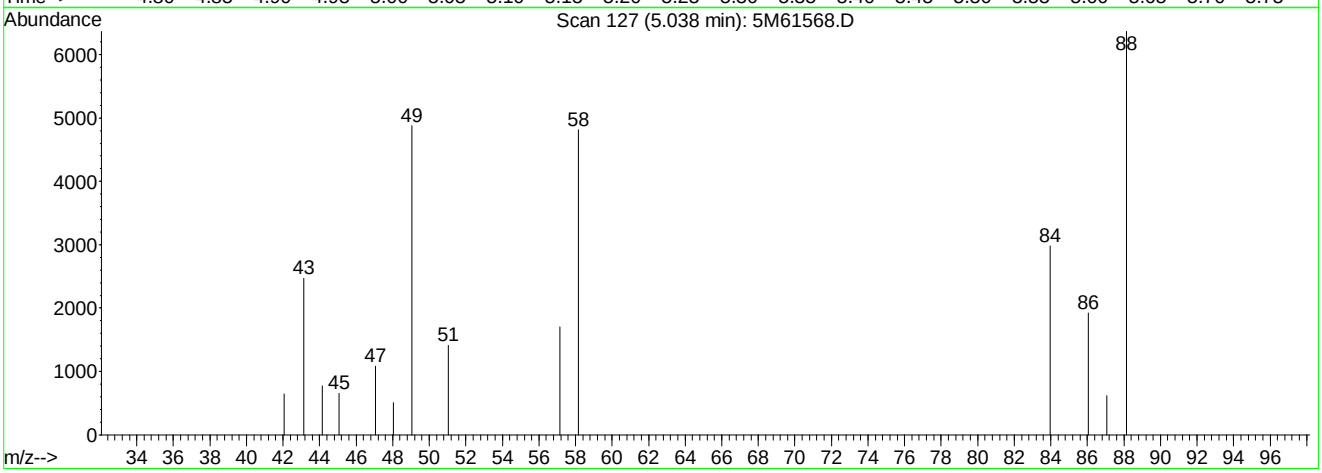
5M61568.D MEGAMIX.M Mon Jan 17 08:03:10 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(2) 1,4-Dioxane

5.04min 30.08ug/ml mint

response 51286

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	27.33#
0.00	0.00	0.00
0.00	0.00	0.00

5M61568.D MEGAMIX.M Mon Jan 17 08:03:13 2011

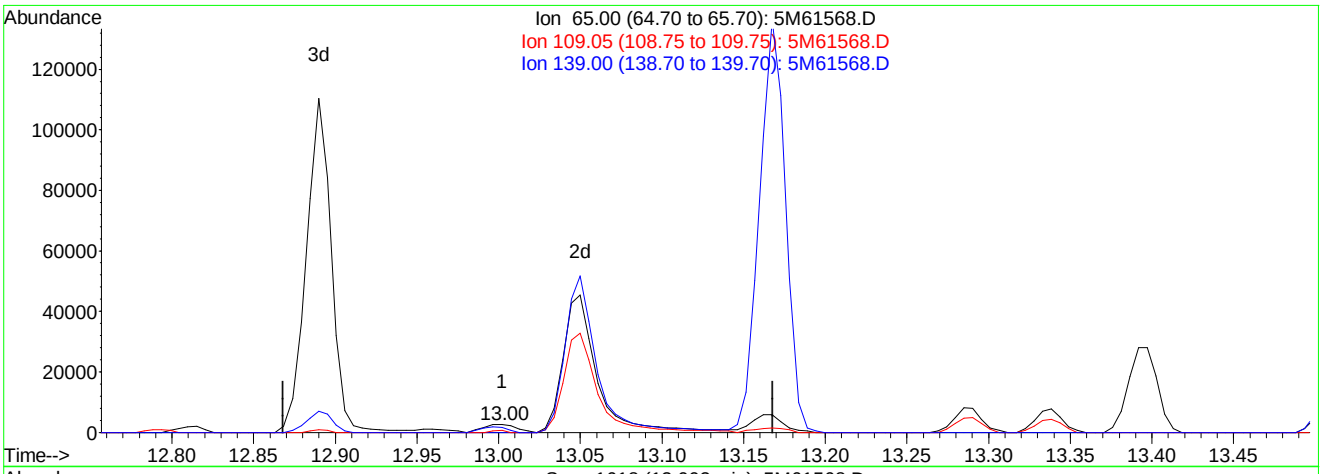
Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:14

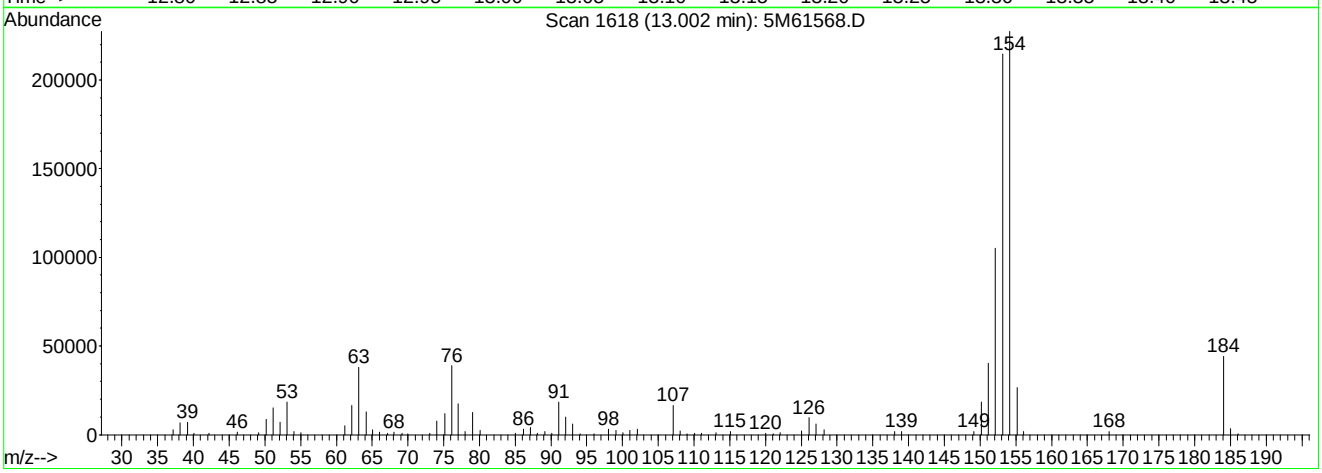
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(72) 4-Nitrophenol (P)

13.00min 1.77ug/ml

response 3624

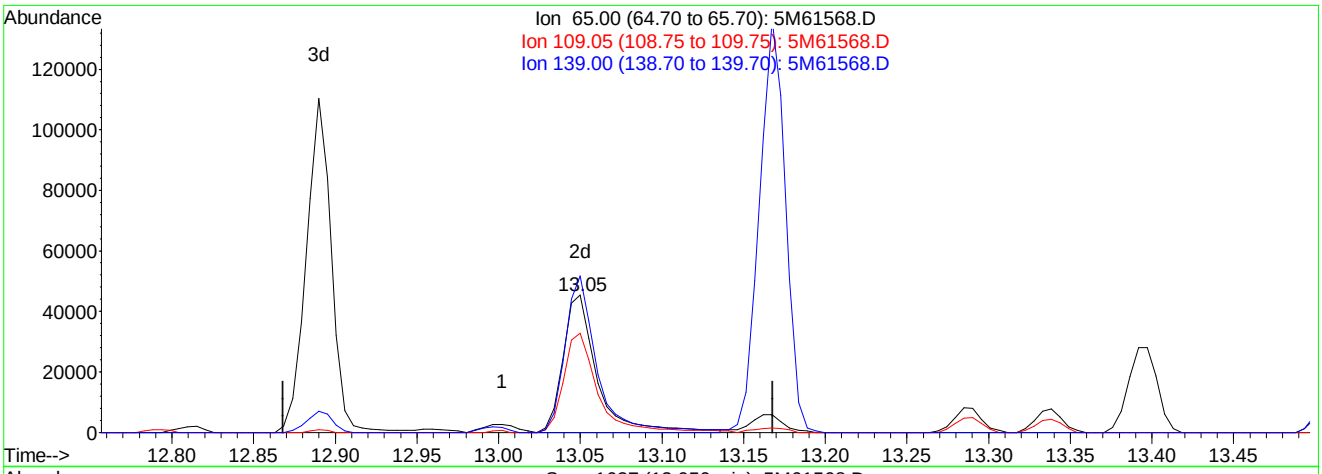
Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

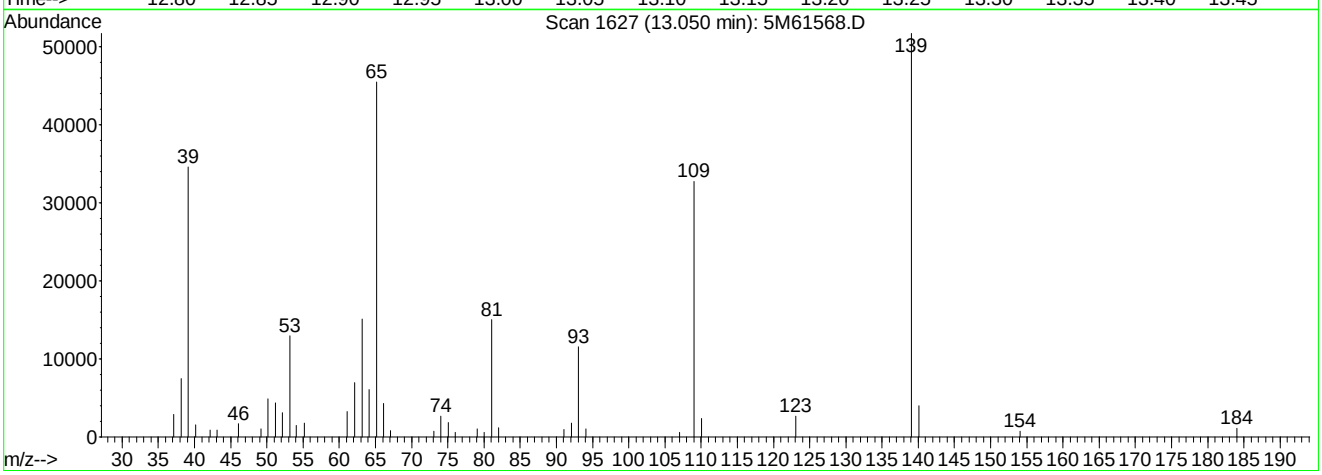
5M61568.D MEGAMIX.M Mon Jan 17 08:38:14 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61568.D Vial: 4
Acq On : 14 Jan 2011 9:31 am Operator: CAA
Sample : WG353486-02 LCS 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61568.D

(72) 4-Nitrophenol (P)

13.05min 31.96ug/ml mint

response 65323

Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

5M61568.D MEGAMIX.M Mon Jan 17 08:38:17 2011

Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:15

#1 - Data system fails to select correct peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.23	152	127653	40.00 ug/ml	0.00
30) Naphthalene-d8	10.84	136	527103	40.00 ug/ml	0.00
54) Acenaphthene-d10	12.96	164	253692	40.00 ug/ml	0.00
87) Phenanthrene-d10	14.57	188	434032	40.00 ug/ml	0.00
113) Chrysene-d12	17.44	240	485357	40.00 ug/ml	0.00
128) Perylene-d12	19.90	264	516817	40.00 ug/ml	-0.02

System Monitoring Compounds					
8) 2-Fluorophenol	7.68	112	269345	70.0862 ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 70.09%		
12) Phenol-d5	8.79	99	348291	73.2155 ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 73.22%		
31) Nitrobenzene-d5	9.94	82	168981	34.0272 ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 68.06%		
59) 2-Fluorobiphenyl	12.14	172	349428	41.0638 ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 82.12%		
86) 2,4,6-Tribromophenol	13.84	330	121083	88.7756 ug/ml	0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 88.78%		
117) p-Terphenyl-d14	16.20	244	404733	48.7343 ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 97.46%		

Target Compounds					Qvalue
2) 1,4-Dioxane	4.99	88	50992m	30.6051 ug/ml	
3) n-Nitrosodimethylamine	5.72	74	83814	32.2252 ug/ml	87
4) Pyridine	5.72	79	125812	29.8467 ug/ml#	85
11) Aniline	8.86	93	214430	35.1473 ug/ml	99
13) Phenol	8.80	94	175033	34.9171 ug/ml	96
14) bis(2-Chloroethyl)ether	8.90	63	103938	32.0419 ug/ml	91
16) 2-Chlorophenol	9.02	128	155418	36.4164 ug/ml	96
17) 1,3-Dichlorobenzene	9.19	146	141609	30.4690 ug/ml	100
18) 1,4-Dichlorobenzene	9.25	146	152122	31.6567 ug/ml	100
19) Benzyl Alcohol	9.40	108	109929	40.4509 ug/ml	98
20) 1,2-Dichlorobenzene	9.49	146	142423	31.8947 ug/ml	100
21) 2-Methylphenol	9.53	107	121639	37.0446 ug/ml	98
22) bis(2-Chloroisopropyl)ethe	9.57	45	223773	28.4603 ug/ml	92
23) 3-,4-Methylphenol	9.71	107	159539	37.6471 ug/ml	99
25) n-Nitrosodipropylamine	9.75	70	109626	37.9011 ug/ml#	50
26) Acetophenone	9.74	105	202591	38.4862 ug/ml	98
27) n-Nitrosomorpholine	9.75	56	7216	2.7431 ug/ml#	54
28) o-Toluidine	9.74	106	15594	2.5128 ug/ml#	1
29) Hexachloroethane	9.88	117	53417	28.7045 ug/ml	99
32) Nitrobenzene	9.97	77	159061	32.3928 ug/ml	99
34) Isophorone	10.24	82	298692	33.1256 ug/ml	99
35) 2-Nitrophenol	10.36	139	86675	33.2426 ug/ml	95
36) 2,4-Dimethylphenol	10.36	122	148199	34.9886 ug/ml	99
38) bis(2-Chloroethoxy)methane	10.47	93	183448	27.6347 ug/ml	90
39) Benzoic Acid	10.44	105	7296	3.5293 ug/ml	87
40) 2,4-Dichlorophenol	10.66	162	137192	35.3298 ug/ml	100
42) 1,2,4-Trichlorobenzene	10.77	180	131220	30.3902 ug/ml	99
43) Naphthalene	10.86	128	426728	32.3528 ug/ml	100
44) 4-Chloroaniline	10.92	127	205832	35.5877 ug/ml	97
47) Hexachlorobutadiene	11.06	225	77399	31.0030 ug/ml	99
48) n-Nitrosodi-n-Butylamine	11.48	84	843	Below Cal # 47	
49) p-Phenylenediamine	11.48	108	11479	3.2505 ug/ml#	1
50) 4-Chloro-3-Methylphenol	11.48	107	145658	37.8454 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) 2-Methylnaphthalene	11.71	142	301169	34.7320 ug/ml	99
53) 1-Methylnaphthalene	11.84	142	283973	32.7946 ug/ml	99
56) Hexachlorocyclopentadiene	11.97	237	42358	19.9724 ug/ml	100
57) 2,4,6-Trichlorophenol	12.06	196	103874	41.8131 ug/ml	100
58) 2,4,5-Trichlorophenol	12.12	196	119418	45.1938 ug/ml	100
60) Isosafrole	12.30	162	289064	88.6102 ug/ml#	34
61) 2-Chloronaphthalene	12.30	162	289064	34.2989 ug/ml	100
62) 1-Chloronaphthalene	12.30	162	289064	41.7301 ug/ml	100
63) 2-Nitroaniline	12.42	65	100130	40.9092 ug/ml	93
65) Dimethylphthalate	12.62	163	367488	43.8445 ug/ml	100
66) 1,3-Dinitrobenzene	12.67	168	65281	42.9439 ug/ml	97
67) 2,6-Dinitrotoluene	12.72	165	92210	45.7902 ug/ml	98
68) Acenaphthylene	12.79	152	481381	40.8082 ug/ml	99
69) 3-Nitroaniline	12.89	138	103394	44.6135 ug/ml	100
70) 2,4-Dinitrophenol	13.00	184	50112	49.5240 ug/ml#	48
71) Acenaphthene	13.00	154	298918	40.3501 ug/ml	98
72) 4-Nitrophenol	13.05	65	67016m	33.6522 ug/ml	
73) 2,4-Dinitrotoluene	13.17	165	117267	45.0902 ug/ml	90
75) Dibenzofuran	13.17	168	414388	41.6112 ug/ml	100
76) 2,3,4,6-Tetrachlorophenol	13.29	232	98491	45.0918 ug/ml	99
79) Diethylphthalate	13.40	149	372855	44.2323 ug/ml	99
81) Fluorene	13.55	166	360143	42.4503 ug/ml	100
82) 4-Chlorophenyl Phenyl Ethe	13.51	204	168543	42.7695 ug/ml	99
83) 4-Nitroaniline	13.58	138	107428	46.0511 ug/ml	91
84) 5-Nitro-o-Toluidine	13.62	152	4231	1.6574 ug/ml#	1
85) 1,2-Diphenylhydrazine	13.68	77	360920	41.8958 ug/ml	98
88) 4,6-Dinitro-2-Methylphenol	13.62	198	81714	53.6387 ug/ml	74
89) n-Nitrosodiphenylamine	13.64	169	320561	44.7009 ug/ml	99
91) Sym-Trinitrobenzene	14.04	75	15065	7.1518 ug/ml#	66
94) Phorate	14.04	75	15065	2.9267 ug/ml#	42
95) 4-Bromophenyl Phenyl Ether	14.04	248	109285	42.9114 ug/ml	99
96) Hexachlorobenzene	14.25	284	124766	43.7581 ug/ml	99
97) Dimethoate	14.04	87	618	Below Cal #	1
99) Pentachlorophenol	14.42	266	82520	45.2063 ug/ml	99
101) Pentachloronitrobenzene	14.42	237	2651	2.3968 ug/ml#	17
102) Disulfoton	14.60	88	38537	8.9904 ug/ml#	2
103) Phenanthrene	14.60	178	534132	44.9058 ug/ml	99
104) Anthracene	14.65	178	543152	45.6535 ug/ml	100
105) Carbazole	14.80	167	515255	46.1939 ug/ml	98
107) Di-n-Butyl Phthalate	15.11	149	640961	45.5537 ug/ml	100
112) Fluoranthene	15.86	202	586128	47.4596 ug/ml	99
114) Benzidine	15.94	184	258274	54.8335 ug/ml	100
115) Pyrene	16.11	202	621697	47.3585 ug/ml	100
121) Butyl Benzyl Phthalate	16.67	149	287186	46.8310 ug/ml	94
122) 3,3'-Dimethylbenzidine	16.66	212	3596	Below Cal #	1
124) bis(2-Ethylhexyl)phthalate	17.27	149	429527	46.8485 ug/ml	99
125) 3,3'-Dichlorobenzidine	17.33	252	248945	52.7327 ug/ml	100
126) Benzo[a]anthracene	17.42	228	618271	46.8533 ug/ml	100
127) Chrysene	17.48	228	594607	48.0734 ug/ml	100
129) Di-n-Octyl Phthalate	18.10	149	756177	47.2118 ug/ml	94
131) Benzo[b]fluoranthene	19.12	252	668569m	42.1372 ug/ml	
132) Benzo[k]fluoranthene	19.16	252	566220	47.0627 ug/ml	98
133) Benzo[a]pyrene	19.79	252	631779	48.9257 ug/ml	99
135) Indeno[1,2,3-cd]pyrene	22.73	276	765480	52.9372 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 08:01:09 2011 Quant Results File: MEGAMIX.RES

Quant Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration
DataAcq Meth : BNA

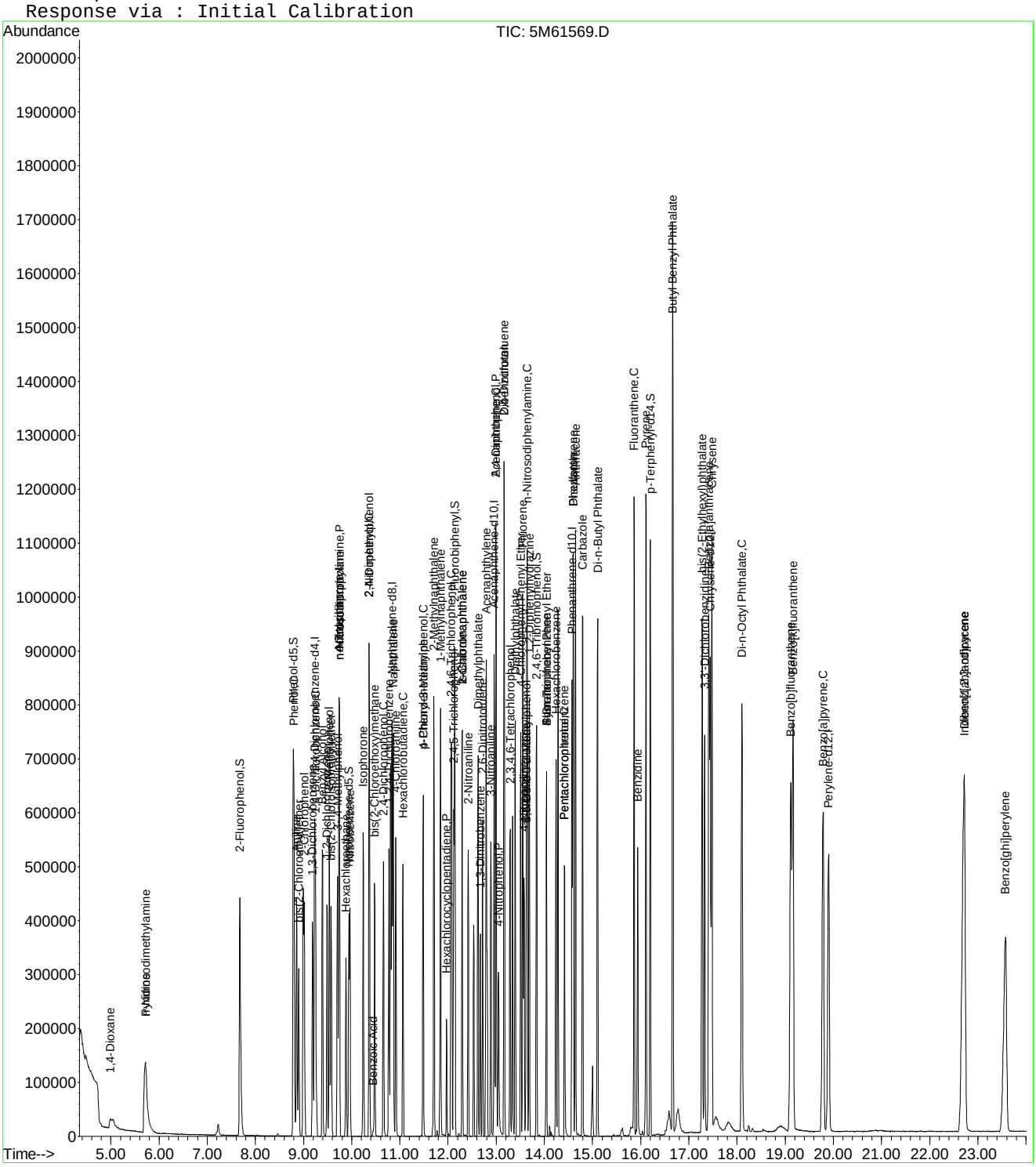
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
136) Dibenz[ah]anthracene	22.71	278	634116	52.7870 ug/ml	100
137) Benzo[ghi]perylene	23.57	276	662573	57.4096 ug/ml	100

(#) = qualifier out of range (m) = manual integration
5M61569.D MEGAMIX.M Mon Jan 17 08:38:39 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:38 2011 Quant Results File: MEGAMIX.RES

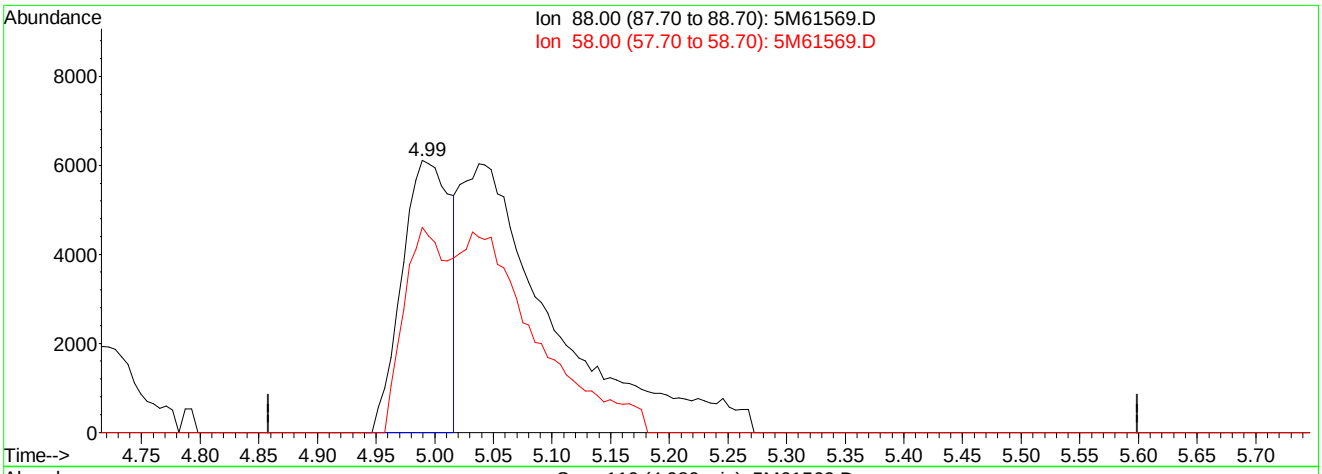
Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Initial Calibration

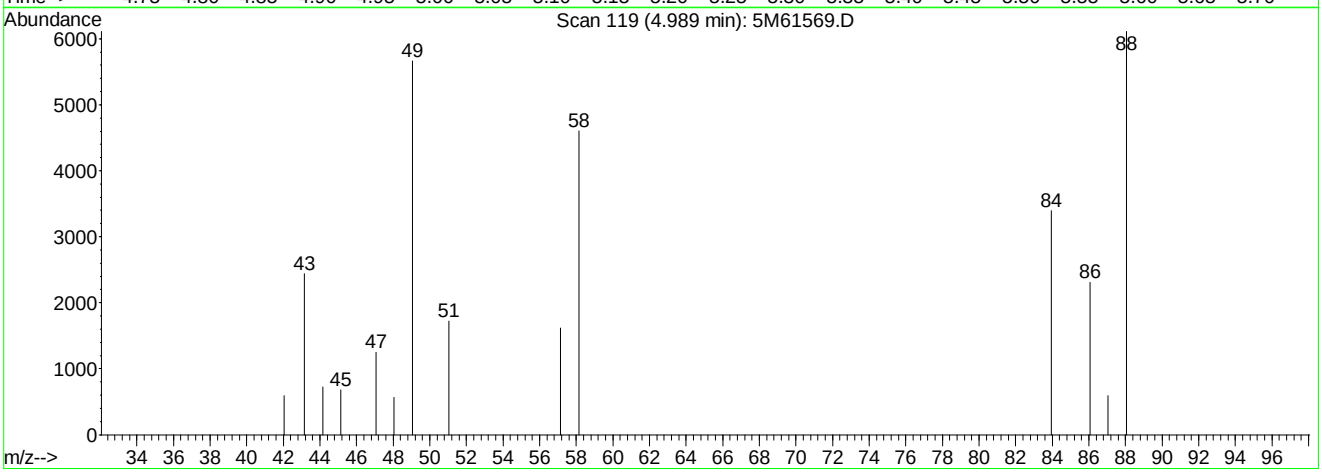


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:01 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(2) 1,4-Dioxane

4.99min 10.56ug/ml

response 17589

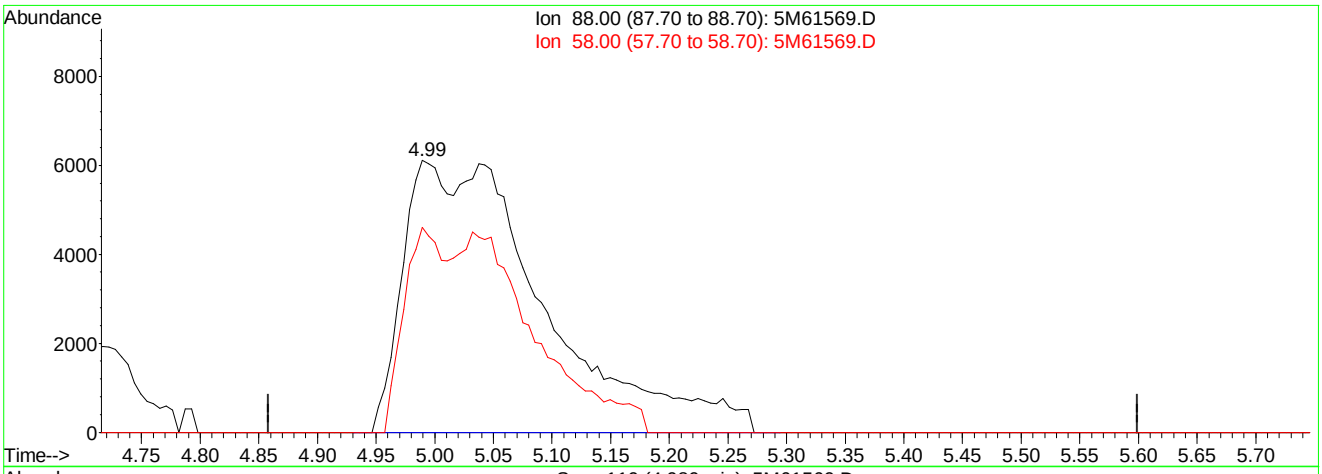
Ion	Exp%	Act%
88.00	100	100
58.00	80.10	63.10
0.00	0.00	0.00
0.00	0.00	0.00

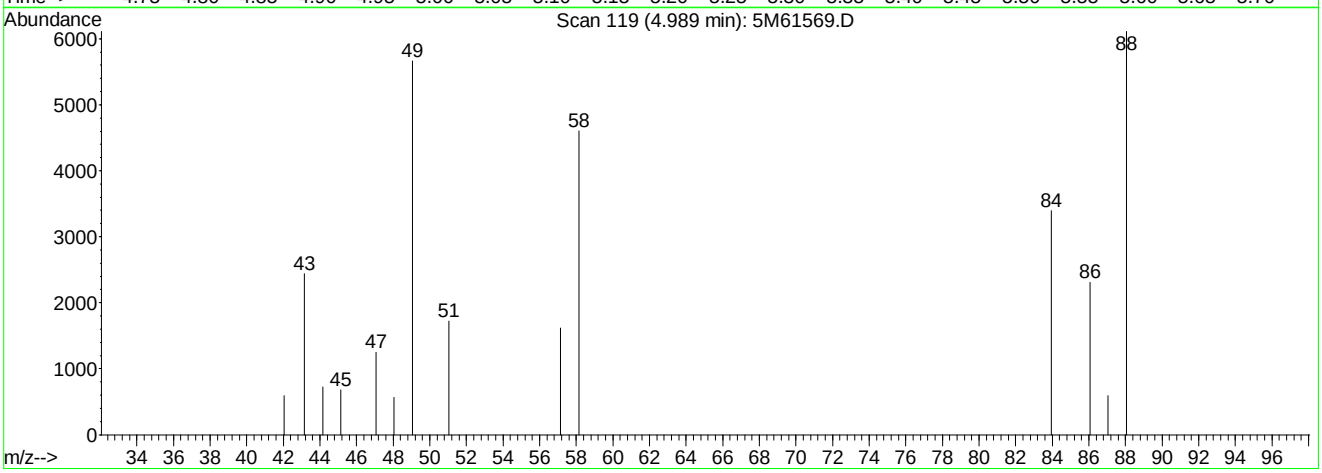
5M61569.D MEGAMIX.M Mon Jan 17 08:03:21 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(2) 1,4-Dioxane

4.99min 30.61ug/ml mint

response 50992

Ion	Exp%	Act%
88.00	100	100
58.00	80.10	21.77#
0.00	0.00	0.00
0.00	0.00	0.00

5M61569.D MEGAMIX.M Mon Jan 17 08:03:24 2011

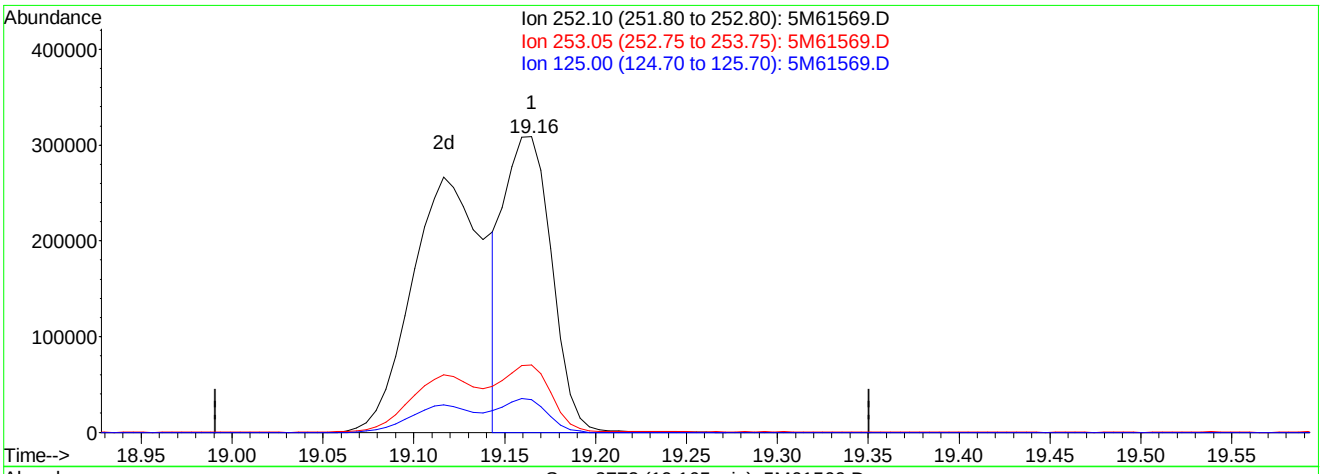
Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:15

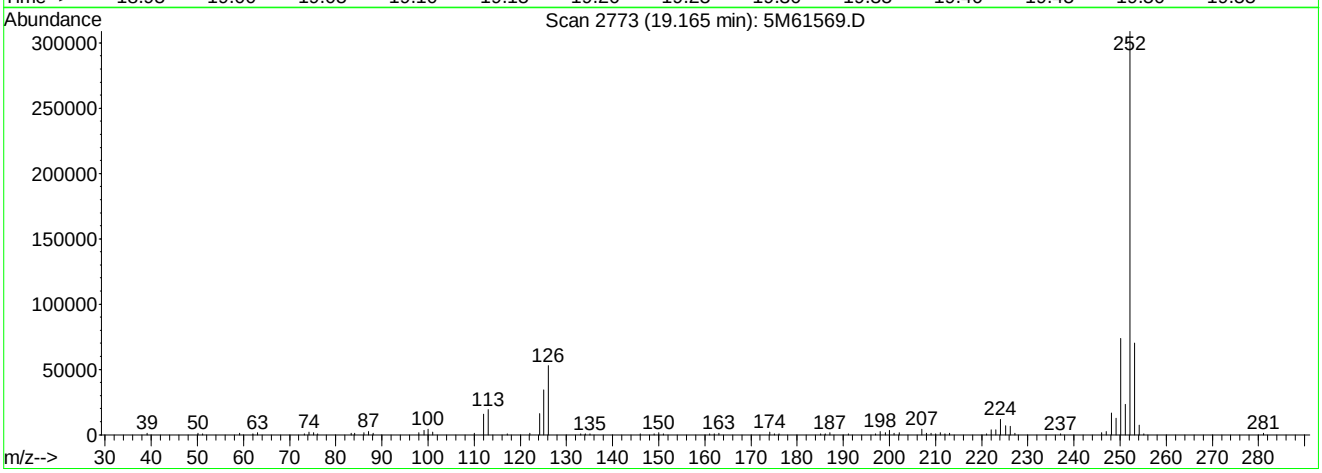
#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(131) Benzo[b]fluoranthene

19.16min 35.69ug/ml

response 566220

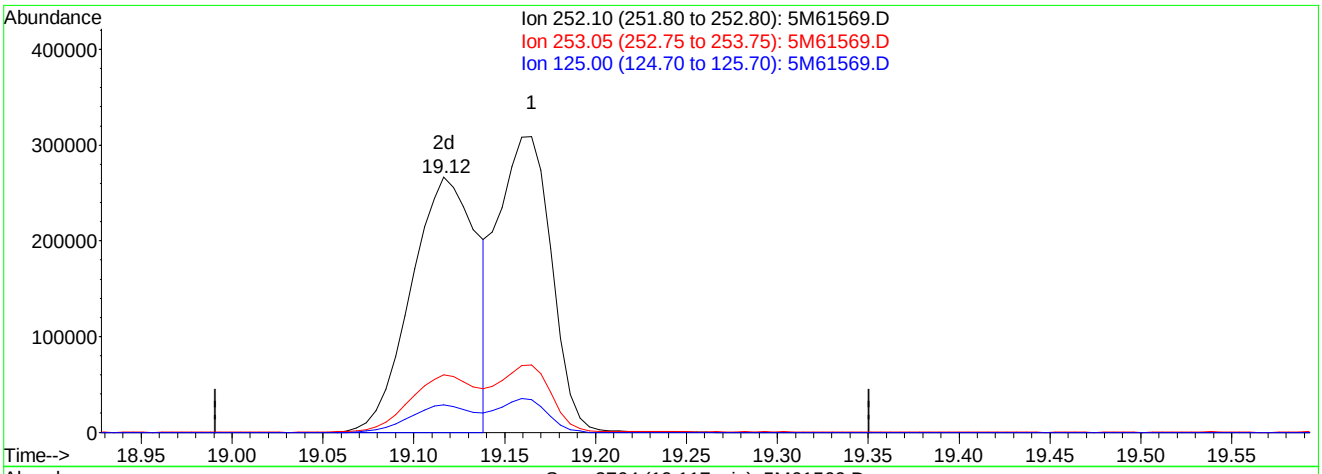
Ion	Exp%	Act%
252.10	100	100
253.05	24.50	22.12
125.00	12.90	11.64
0.00	0.00	0.00

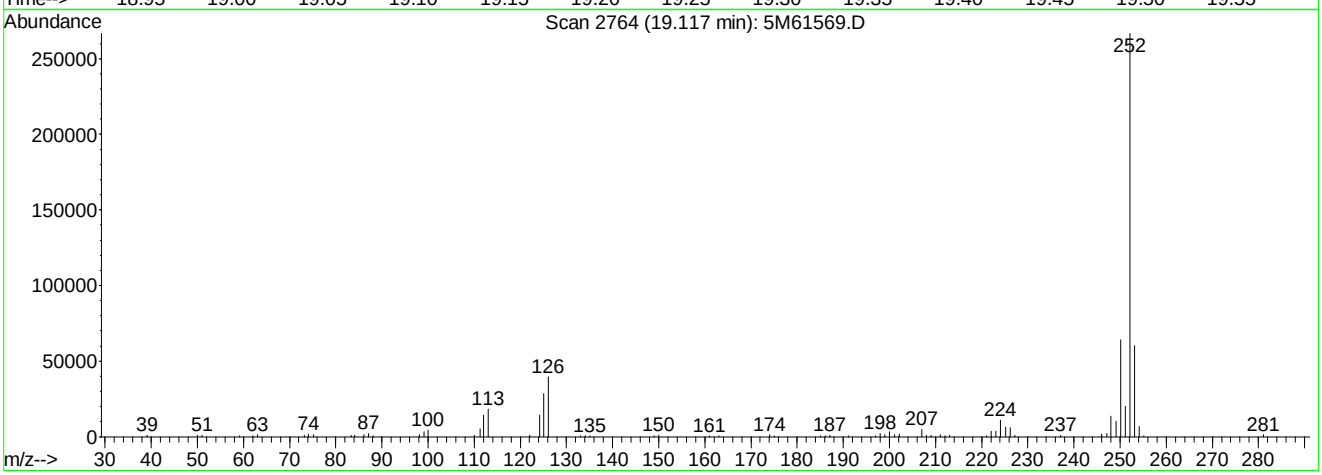
5M61569.D MEGAMIX.M Mon Jan 17 08:03:32 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(131) Benzo[b]fluoranthene

19.12min 42.14ug/ml mint

response 668569

Ion	Exp%	Act%
252.10	100	100
253.05	24.50	18.74
125.00	12.90	9.86
0.00	0.00	0.00

5M61569.D MEGAMIX.M Mon Jan 17 08:03:35 2011

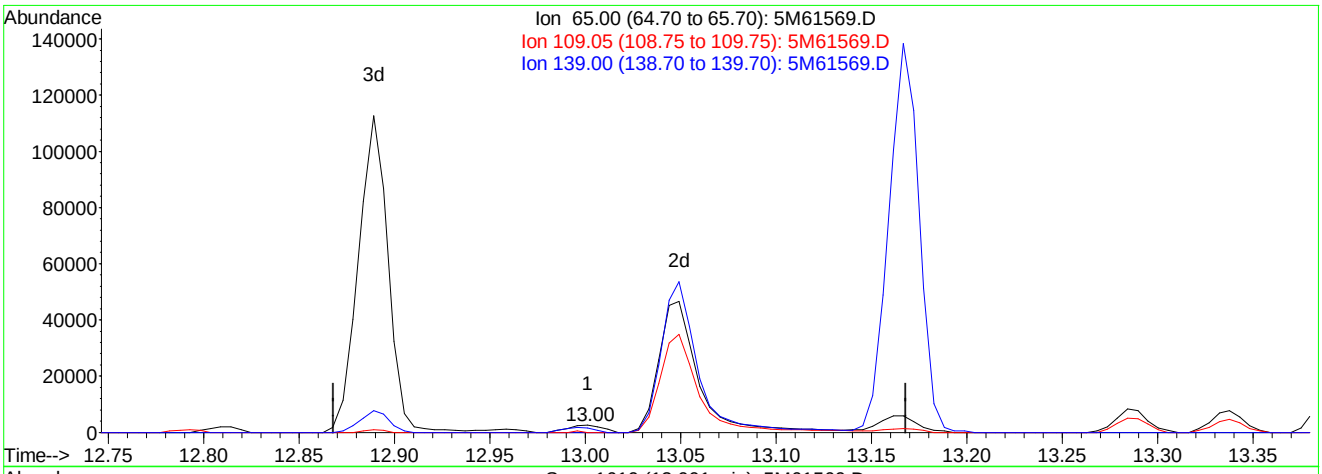
Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:15

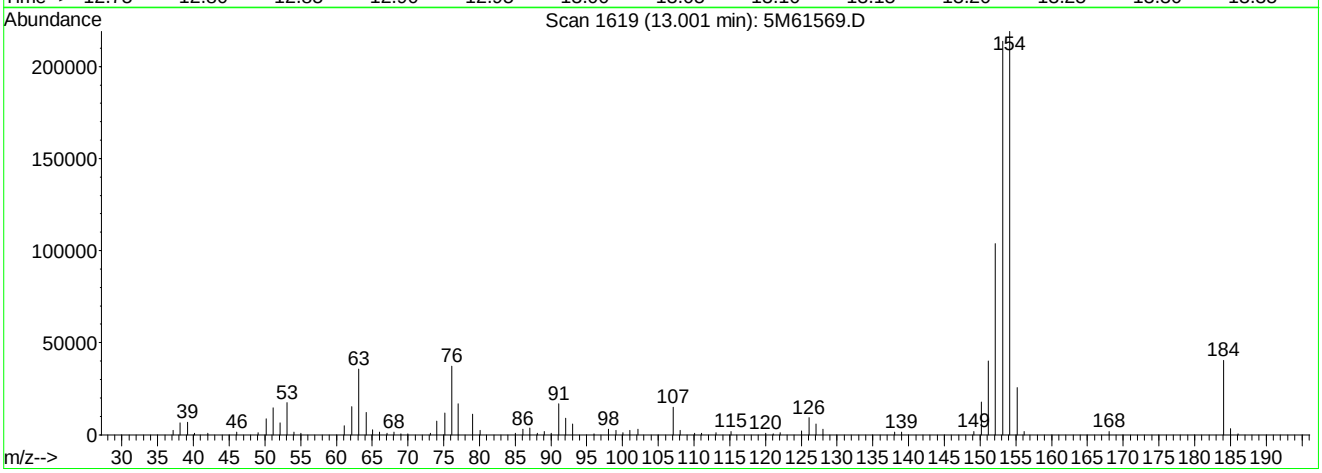
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(72) 4-Nitrophenol (P)

13.00min 1.65ug/ml

response 3295

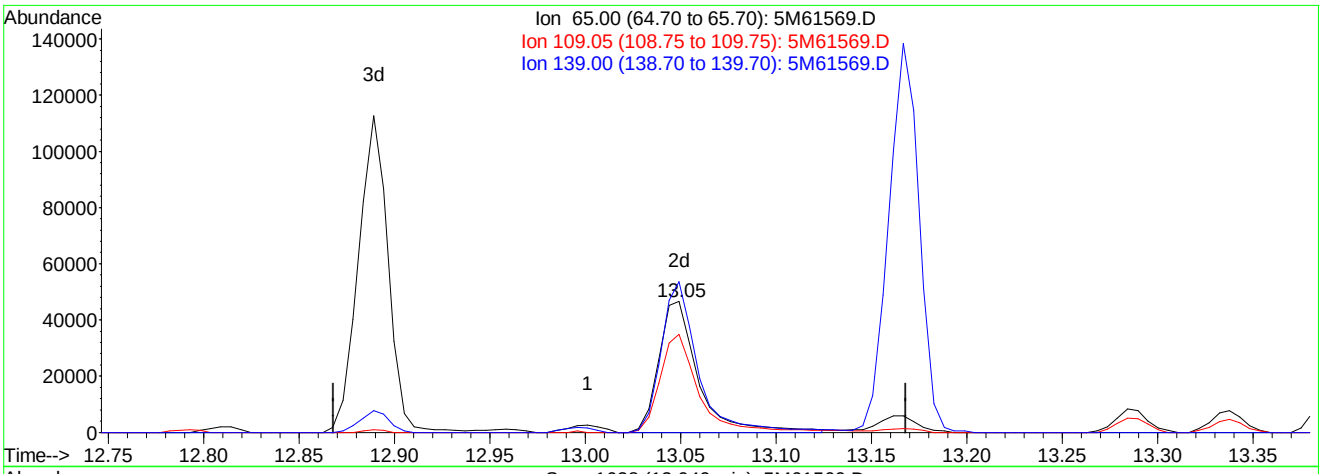
Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

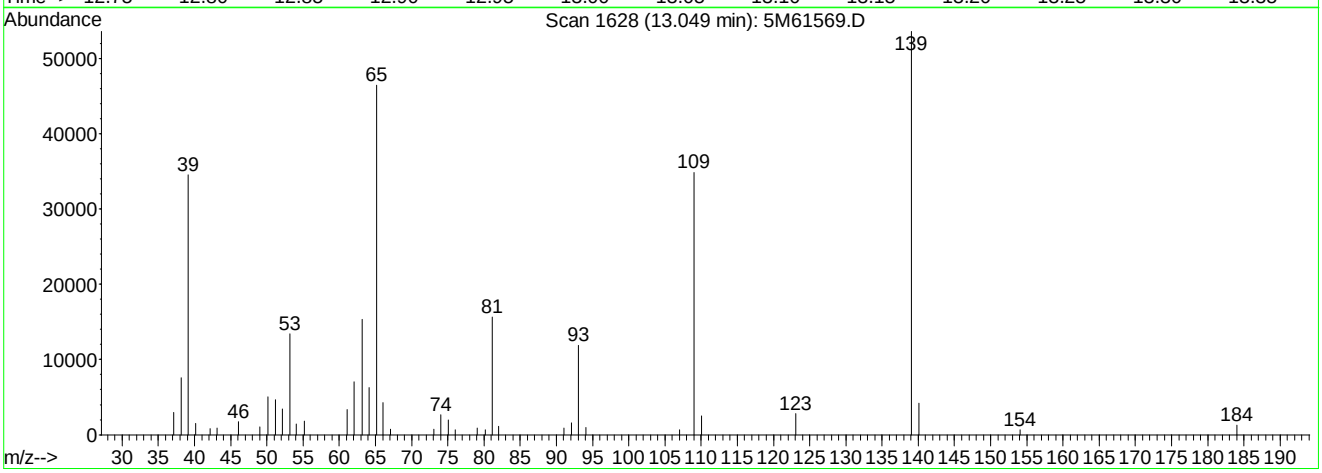
5M61569.D MEGAMIX.M Mon Jan 17 08:38:24 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011411\5M61569.D Vial: 5
Acq On : 14 Jan 2011 10:04 am Operator: CAA
Sample : WG353486-03 LCS DUP 01/10 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 17 8:38 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MEGAMIX.M (RTE Integrator)
Title : OVD MSS01 8270/625/Initial cal. 12/22/10
Last Update : Mon Jan 17 08:00:56 2011
Response via : Multiple Level Calibration





TIC: 5M61569.D

(72) 4-Nitrophenol (P)

13.05min 33.65ug/ml mint

response 67016

Ion	Exp%	Act%
65.00	100	100
109.05	64.90	0.00#
139.00	104.10	0.00#
0.00	0.00	0.00

5M61569.D MEGAMIX.M Mon Jan 17 08:38:27 2011

Analyst: 01/17/2011 08:49 Supervisor: 01/17/2011 10:15

#1 - Data system fails to select correct peak

2.3 Metals Data

2.3.1 Metals I C P Data

2.3.1.1 Summary Data

Login Number: L11010116

Department: Metals

Analyst: Pierce Morris
Analyst #2: Ji Hu

METHOD

Preparation: SW-846 3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG353432 - Due to continuing calibration blank failure for barium on 07-JAN-11 at 10:53, all batch QA/QC and client sample 01 were reanalyzed on a later calibration for barium.

BATCH QA/QC

Method Blank: WG353432 - The method blank associated with this analytical batch yielded a result for lead of -0.00367 mg/L which yielded an absolute value that exceeded one half of the reporting detection limit. All QA/QC and client sample 01 were reanalyzed for lead with a compliant method blank.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG353432 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 19131
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	6010B	1	06-JAN-11
HTA-IDW-001-0111	L11010116-01	6010B	1	06-JAN-11

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353432**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **01/07/2011 07:43**
Cal Date: **01/07/2011 10:11**
Run Date: **01/07/2011 23:28**
File ID: **P2.010711.232809**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	0.0218		0.0100	0.00500
Cadmium, Total	7440-43-9		U	0.0100	0.00250
Chromium, Total	7440-47-3		U	0.0200	0.00250
Silver, Total	7440-22-4		U	0.0100	0.00500

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11010116**
Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353432**
Collect Date: **01/05/2011 08:30**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **01/07/2011 07:43**
Cal Date: **01/12/2011 10:59**
Run Date: **01/12/2011 21:40**
File ID: **P2.011211.214044**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Barium, Total	7440-39-3	0.0297		0.0100	0.00250
Lead, Total	7439-92-1		U	0.00500	0.00250

U Analyte was not detected. The concentration is below the reported LOD.

2.3.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG353353
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 01/07/2011 07:43
Hotblock Start Temp: 94.8 @ 05:30
Hotblock End Temp: 95.2 @ 09:30

SOP: ME401 Revison 13
Spike Solution: STD39933
Spike Witness: VC
HCL Lot #: COA15079
HNO3 Lot #: COA15089
Digestion Tubes Lot #: COA15103

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG353353-02	BLANK	1	50 mL	50 mL		
2	WG353207-01	FBLK	18	50 mL	50 mL		
3	WG353353-03	LCS	1	50 mL	50 mL	5 mL	
4	L11010050-02	SAMP	18	50 mL	50 mL		01/10/11
5	L11010050-04	SAMP	18	50 mL	50 mL		01/10/11
6	L11010108-01	SAMP	1	50 mL	50 mL		01/11/11
7	WG353353-01	REF	1	50 mL	50 mL		
8	L11010112-01	SAMP	1	50 mL	50 mL		01/13/11
9	L11010116-01	SAMP	1	50 mL	50 mL		01/17/11
10	L11010120-01	SAMP	1	50 mL	50 mL		01/12/11
11	L11010120-02	SAMP	1	50 mL	50 mL		01/12/11
12	WG353353-04	MS	1	50 mL	50 mL	5 mL	
13	WG353353-05	MSD	1	50 mL	50 mL	5 mL	

L11010120-01	FILTERED DIGESTATE
L11010120-02	FILTERED DIGESTATE

Analyst: [signature]

Reviewer: Brenda Gregory

HB_DIG - Modified 09/30/2009
PDF ID: 1886873
Report generated: 01/07/2011 09:56

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 010711H3.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36039

Calibration Std: STD43232 ICV Std: STD43233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,3532

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.010711.094435	WG353531-01	Calibration Point		1		01/07/11 09:44
2	P2.010711.095114	WG353531-02	Calibration Point		1		01/07/11 09:51
3	P2.010711.095750	WG353531-03	Calibration Point		1		01/07/11 09:57
4	P2.010711.100429	WG353531-04	Calibration Point		1		01/07/11 10:04
5	P2.010711.101110	WG353531-05	Calibration Point		1		01/07/11 10:11
6	P2.010711.101659	WG353531-06	Initial Calibration Verification		1		01/07/11 10:16
7	P2.010711.102213	WG353531-07	Initial Calibration Verification		1		01/07/11 10:22
8	P2.010711.102901	WG353531-08	Initial Calib Blank		1		01/07/11 10:29
9	P2.010711.103537	WG353531-09	Interference Check		1		01/07/11 10:35
10	P2.010711.104121	WG353531-10	Interference Check		1		01/07/11 10:41
11	P2.010711.104710	WG353531-11	CCV		1		01/07/11 10:47
12	P2.010711.105350	WG353531-12	CCB		1		01/07/11 10:53
13	P2.010711.110028	L10120738-06	MW107-GW-122010	50/50	1		01/07/11 11:00
14	P2.010711.110611	L10120738-08	EB02-122010	50/50	1		01/07/11 11:06
15	P2.010711.111250	WG353531-13	CCV		1		01/07/11 11:12
16	P2.010711.111938	WG353531-14	CCB		1		01/07/11 11:19
17	P2.010711.112614	WG353531-15	Interference Check		1		01/07/11 11:26
18	P2.010711.113157	WG353531-16	Interference Check		1		01/07/11 11:31
19	P2.010711.113738	WG353531-17	CCV		1		01/07/11 11:37
20	P2.010711.114418	WG353531-18	CCB		1		01/07/11 11:44
21	P2.010711.115056	WG348213-02	Method/Prep Blank	50/50	1		01/07/11 11:50
22	P2.010711.115736	WG348213-03	Laboratory Control S	50/50	1		01/07/11 11:57
23	P2.010711.120418	WG348161-01	Fluid Blank		1		01/07/11 12:04
24	P2.010711.121055	L10110229-02	SW1A-255-14	50/50	1		01/07/11 12:10
25	P2.010711.121733	WG348213-01	Reference Sample		1	L10110229-05	01/07/11 12:17
26	P2.010711.122414	WG348213-04	Matrix Spike	50/50	1	L10110229-05	01/07/11 12:24
27	P2.010711.123052	WG348213-05	Matrix Spike Duplica	50/50	1	L10110229-05	01/07/11 12:30
28	P2.010711.123738	L10110229-14	SW3A-255-14	50/50	1		01/07/11 12:37
29	P2.010711.124420	WG348257-03	Post Digestion Spike		1	L10110229-14	01/07/11 12:44
30	P2.010711.125100	WG348257-04	Serial Dilution		5	L10110229-14	01/07/11 12:51
31	P2.010711.125740	WG353531-19	CCV		1		01/07/11 12:57
32	P2.010711.130421	WG353531-20	CCB		1		01/07/11 13:04
33	P2.010711.131100	L10110229-17	SW3B-255-14	50/50	1		01/07/11 13:11
34	P2.010711.131739	L10110229-20	SW4A-255-14	50/50	1		01/07/11 13:17

Page: 1 Approved: January 10, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 010711H3.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36039

Calibration Std: STD43232 ICV Std: STD43233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,3532

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.010711.132421	L10110229-23	SW5A-255-14	50/50	1		01/07/11 13:24
36	P2.010711.133058	L10110277-02	60500-SSP0056	50/50	1		01/07/11 13:30
37	P2.010711.133740	L10110289-01	POND OUTFALL	50/50	1		01/07/11 13:37
38	P2.010711.134427	L10110291-01	11-011-10	50/50	1		01/07/11 13:44
39	P2.010711.135105	L10110291-02	11-011-10	50/50	1		01/07/11 13:51
40	P2.010711.135748	L10110292-01	11-009-10	50/50	1		01/07/11 13:57
41	P2.010711.140450	L10110292-02	11-009-10	50/50	1		01/07/11 14:04
42	P2.010711.141136	L10110292-03	11-010-10	50/50	1		01/07/11 14:11
43	P2.010711.141814	WG353531-21	CCV		1		01/07/11 14:18
44	P2.010711.142502	WG353531-22	CCB		1		01/07/11 14:25
45	P2.010711.143141	L10110292-04	11-010-10	50/50	1		01/07/11 14:31
46	P2.010711.143820	L10110295-01	60500-C0021	50/50	1		01/07/11 14:38
47	P2.010711.144551	L10110295-02	60500-C0024	50/50	1		01/07/11 14:45
48	P2.010711.145236	L10110295-03	60500-C0027	50/50	1		01/07/11 14:52
49	P2.010711.145916	L10110295-04	60500-C0030	50/50	1		01/07/11 14:59
50	P2.010711.150557	L10110295-05	60500-C0030-DUP	50/50	1		01/07/11 15:05
51	P2.010711.151236	L10120404-07	16338-W0001	50/50	1		01/07/11 15:12
52	P2.010711.151914	WG353531-23	CCV		1		01/07/11 15:19
53	P2.010711.152558	WG353531-24	CCB		1		01/07/11 15:25
54	P2.010711.153239	L10120667-01	MW2D	50/50	2		01/07/11 15:32
55	P2.010711.153830	L10120667-02	MW3	50/50	2		01/07/11 15:38
56	P2.010711.154515	L10120667-03	MW3	50/50	2		01/07/11 15:45
57	P2.010711.155253	L10120667-04	DUP MW3	50/50	2		01/07/11 15:52
58	P2.010711.155937	L10120667-05	DUP MW3	50/50	2		01/07/11 15:59
59	P2.010711.160620	L10120667-08	MW4	50/50	2		01/07/11 16:06
60	P2.010711.161304	L10120667-09	MW4	50/50	2		01/07/11 16:13
61	P2.010711.161953	WG353531-25	CCV		1		01/07/11 16:19
62	P2.010711.162632	WG353531-26	CCB		1		01/07/11 16:26
63	P2.010711.163310	WG352673-02	Method/Prep Blank	50/50	1		01/07/11 16:33
64	P2.010711.163954	WG352673-03	Laboratory Control S	50/50	1		01/07/11 16:39
65	P2.010711.164637	L10120714-02	MW2A-256-14	50/50	1		01/07/11 16:46
66	P2.010711.165316	WG352673-01	Reference Sample		1	L10120714-05	01/07/11 16:53
67	P2.010711.165957	WG352673-04	Matrix Spike	50/50	1	L10120714-05	01/07/11 16:59
68	P2.010711.170637	WG352673-05	Matrix Spike Duplica	50/50	1	L10120714-05	01/07/11 17:06

Page: 2 Approved: January 10, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 010711H3.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36039

Calibration Std: STD43232 ICV Std: STD43233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,3532

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.010711.171413	L10120714-14	MW4A-256-14	50/50	1		01/07/11 17:14
70	P2.010711.172053	WG353287-01	Post Digestion Spike		1	L10120714-14	01/07/11 17:20
71	P2.010711.172637	WG353287-02	Serial Dilution		5	L10120714-14	01/07/11 17:26
72	P2.010711.173317	L10120714-17	MW5A-256-14	50/50	1		01/07/11 17:33
73	P2.010711.173956	WG353531-27	CCV		1		01/07/11 17:39
74	P2.010711.174637	WG353531-28	CCB		1		01/07/11 17:46
75	P2.010711.175315	L10120714-20	OW1A-256-14	50/50	1		01/07/11 17:53
76	P2.010711.175955	L10120714-23	OW1A2-256-14	50/50	1		01/07/11 17:59
77	P2.010711.180635	L10120714-26	OW2A-256-14	50/50	1		01/07/11 18:06
78	P2.010711.181314	L10120714-29	OW3A-256-14	50/50	1		01/07/11 18:13
79	P2.010711.181953	L10120812-01	FTGWEF270	50/50	1		01/07/11 18:19
80	P2.010711.182639	L10120813-01	POND OUTFALL	50/50	1		01/07/11 18:26
81	P2.010711.183318	WG353531-29	CCV		1		01/07/11 18:33
82	P2.010711.183956	WG353531-30	CCB		1		01/07/11 18:39
83	P2.010711.184635	WG352575-01	Method/Prep Blank	50/50	1		01/07/11 18:46
84	P2.010711.185314	WG352575-02	Laboratory Control S	50/50	1		01/07/11 18:53
85	P2.010711.185957	WG352575-03	Laboratory Control S	50/50	1		01/07/11 18:59
86	P2.010711.190640	L10120785-09	241-W0002	50/50	1		01/07/11 19:06
87	P2.010711.191319	WG353283-01	Post Digestion Spike		1	L10120785-09	01/07/11 19:13
88	P2.010711.192002	WG353283-02	Serial Dilution		5	L10120785-09	01/07/11 19:20
89	P2.010711.192641	L10120785-10	249-W0001	50/50	1		01/07/11 19:26
90	P2.010711.193321	L10120785-11	249-W0002	50/50	1		01/07/11 19:33
91	P2.010711.194000	L10120785-12	2510-W0001	50/50	1		01/07/11 19:40
92	P2.010711.194639	L10120785-13	2510-W0002	50/50	1		01/07/11 19:46
93	P2.010711.195322	WG353531-31	CCV		1		01/07/11 19:53
94	P2.010711.200001	WG353531-32	CCB		1		01/07/11 20:00
95	P2.010711.200637	L10120785-14	252-W0001	50/50	1		01/07/11 20:06
96	P2.010711.201317	L10120785-15	252-W0002	50/50	1		01/07/11 20:13
97	P2.010711.202012	L10120785-16	252-W0003	50/50	1		01/07/11 20:20
98	P2.010711.202651	L10120785-17	2562-W0001	50/50	1		01/07/11 20:26
99	P2.010711.203333	L10120785-18	2562-W0002	50/50	1		01/07/11 20:33
100	P2.010711.204013	L10120785-19	269-W0001	50/50	1		01/07/11 20:40
101	P2.010711.204653	L10120785-20	447-W0001	50/50	1		01/07/11 20:46
102	P2.010711.205332	L10120785-21	447-W0002	50/50	1		01/07/11 20:53

Page: 3 Approved: January 10, 2011

Marcia Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 010711H3.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36039

Calibration Std: STD43232 ICV Std: STD43233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,3532

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.010711.210012	L10120785-22	447-W0003	50/50	1		01/07/11 21:00
104	P2.010711.210652	L10120785-23	447-W0004	50/50	1		01/07/11 21:06
105	P2.010711.211331	WG353531-33	CCV		1		01/07/11 21:13
106	P2.010711.212009	WG353531-34	CCB		1		01/07/11 21:20
107	P2.010711.212645	L10120785-24	524-W0001	50/50	1		01/07/11 21:26
108	P2.010711.213331	L10120785-25	57-W0001	50/50	1		01/07/11 21:33
109	P2.010711.214013	L10120785-26	57-W0002	50/50	1		01/07/11 21:40
110	P2.010711.214653	WG353531-35	CCV		1		01/07/11 21:46
111	P2.010711.215331	WG353531-36	CCB		1		01/07/11 21:53
112	P2.010711.220010	WG353353-02	Method/Prep Blank	50/50	1		01/07/11 22:00
113	P2.010711.220653	WG353353-03	Laboratory Control S	50/50	1		01/07/11 22:06
114	P2.010711.221337	WG353207-01	Fluid Blank		1		01/07/11 22:13
115	P2.010711.222017	L11010050-02	60500-SSP0069	50/50	1		01/07/11 22:20
116	P2.010711.222701	WG353432-01	Post Digestion Spike		1	L11010050-02	01/07/11 22:27
117	P2.010711.223342	WG353432-02	Serial Dilution		5	L11010050-02	01/07/11 22:33
118	P2.010711.224022	L11010050-04	60500-SSP0070	50/50	1		01/07/11 22:40
119	P2.010711.224702	L11010108-01	AV-NCB-EB1-010511	50/50	1		01/07/11 22:47
120	P2.010711.225342	WG353353-01	Reference Sample		1	L11010112-01	01/07/11 22:53
121	P2.010711.230029	WG353353-04	Matrix Spike	50/50	1	L11010112-01	01/07/11 23:00
122	P2.010711.230711	WG353531-37	CCV		1		01/07/11 23:07
123	P2.010711.231448	WG353531-38	CCB		1		01/07/11 23:14
124	P2.010711.232127	WG353353-05	Matrix Spike Duplica	50/50	1	L11010112-01	01/07/11 23:21
125	P2.010711.232809	L11010116-01	HTA-IDW-001-0111	50/50	1		01/07/11 23:28
126	P2.010711.233455	L11010120-01	AB RESOURCES PENDERG	50/50	10		01/07/11 23:34
127	P2.010711.234037	L11010120-02	STONE ENERGY MAURY W	50/50	1		01/07/11 23:40
128	P2.010711.234620	SF BLK	SF BLK		1		01/07/11 23:46
129	P2.010711.235303	FBLK	FBLK		1		01/07/11 23:53
130	P2.010711.235948	WG353531-39	CCV		1		01/07/11 23:59
131	P2.010811.000632	WG353531-40	CCB		1		01/08/11 00:06
132	P2.010811.001311	L10120849-01	FCMW200-101228	50/50	100		01/08/11 00:13
133	P2.010811.001951	WG353068-01	Post Digestion Spike		100	L10120849-01	01/08/11 00:19
134	P2.010811.002636	WG353068-02	Serial Dilution		500	L10120849-01	01/08/11 00:26
135	P2.010811.003315	L10120876-01	FP FOR WVDOH	50/50	100		01/08/11 00:33
136	P2.010811.003956	L11010018-01	WHITTLE CORP		500		01/08/11 00:39

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Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 010711H3.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36039

Calibration Std: STD43232 ICV Std: STD43233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,3532

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	P2.010811.004642	L11010019-01	TERM ENERGY	50/50	500		01/08/11 00:46
138	P2.010811.005325	WG353531-41	CCV		1		01/08/11 00:53
139	P2.010811.010003	WG353531-42	CCB		1		01/08/11 01:00

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Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 011211HR2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36098

Calibration Std: STD43232 ICV Std: STD53233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 353647,353646,353797353813,353432,353838,

Comments: Sequences 59 through 67 were not reported due to instrument error.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.011211.103235	WG353902-01	Calibration Point		1		01/12/11 10:32
2	P2.011211.103911	WG353902-02	Calibration Point		1		01/12/11 10:39
3	P2.011211.104552	WG353902-03	Calibration Point		1		01/12/11 10:45
4	P2.011211.105231	WG353902-04	Calibration Point		1		01/12/11 10:52
5	P2.011211.105912	WG353902-05	Calibration Point		1		01/12/11 10:59
6	P2.011211.110504	WG353902-06	ICV 2nd Vendor		1		01/12/11 11:05
7	P2.011211.111037	WG353902-07	Initial Calibration Verification		1		01/12/11 11:10
8	P2.011211.111722	WG353902-08	Initial Calib Blank		1		01/12/11 11:17
9	P2.011211.113333	WG353902-09	Low Level Continuing Calibra		1		01/12/11 11:33
10	P2.011211.114016	WG353902-10	Interference Check		1		01/12/11 11:40
11	P2.011211.114559	WG353902-11	Interference Check		1		01/12/11 11:45
12	P2.011211.115141	WG353902-12	CCV		1		01/12/11 11:51
13	P2.011211.115818	WG353902-13	CCB		1		01/12/11 11:58
14	P2.011211.120437	WG353477-01	Method/Prep Blank	1/50	1		01/12/11 12:04
15	P2.011211.121117	WG353477-02	Laboratory Control S	1/50	1		01/12/11 12:11
16	P2.011211.121755	WG353477-03	Laboratory Control S	1/50	1		01/12/11 12:17
17	P2.011211.122438	L11010117-03	1012-304-4	1/50	1		01/12/11 12:24
18	P2.011211.123115	WG353646-01	Post Digestion Spike		1	L11010117-03	01/12/11 12:31
19	P2.011211.123755	WG353646-02	Serial Dilution		5	L11010117-03	01/12/11 12:37
20	P2.011211.124435	WG353902-14	CCV		1		01/12/11 12:44
21	P2.011211.125116	WG353902-15	CCB		1		01/12/11 12:51
22	P2.011211.125753	WG353902-16	Low Level Continuing Calibra		1		01/12/11 12:57
23	P2.011211.130433	Ca 500 ppm	Ca 500 ppm		1		01/12/11 13:04
24	P2.011211.131112	Ag 10 ppm	Ag 10 ppm		1		01/12/11 13:11
25	P2.011211.132429	Ca 500 ppm	Ca 500 ppm		1		01/12/11 13:24
26	P2.011211.133028	WG353902-17	CCV		1		01/12/11 13:30
27	P2.011211.133717	WG353902-18	CCB		1		01/12/11 13:37
28	P2.011211.134403	WG353703-02	Method/Prep Blank	50/50	1		01/12/11 13:44
29	P2.011211.135043	WG353703-03	Laboratory Control S	50/50	1		01/12/11 13:50
30	P2.011211.135727	L11010241-04	OUTFALL 003/COMP	50/50	1		01/12/11 13:57
31	P2.011211.140414	WG353797-01	Post Digestion Spike		1	L11010241-04	01/12/11 14:04
32	P2.011211.141058	WG353797-02	Serial Dilution		5	L11010241-04	01/12/11 14:10
33	P2.011211.141740	L11010241-06	OUTFALL 800/COMP	50/50	1		01/12/11 14:17
34	P2.011211.142428	WG353703-01	Reference Sample		1	L11010242-01	01/12/11 14:24

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 011211HR2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36098

Calibration Std: STD43232 ICV Std: STD53233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 353647,353646,353797353813,353432,353838,

Comments: Sequences 59 through 67 were not reported due to instrument error.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.011211.143111	WG353703-04	Duplicate	50/50	1	L11010242-01	01/12/11 14:31
36	P2.011211.143753	WG353703-05	Matrix Spike	50/50	1	L11010242-01	01/12/11 14:37
37	P2.011211.144433	L11010243-01	OUTFALL 002/COMP	50/50	1		01/12/11 14:44
38	P2.011211.145118	WG353902-19	CCV		1		01/12/11 14:51
39	P2.011211.145758	WG353902-20	CCB		1		01/12/11 14:57
40	P2.011211.150436	WG353772-02	Method/Prep Blank	5/50	1		01/12/11 15:04
41	P2.011211.151120	WG353772-03	Laboratory Control S	5/50	1		01/12/11 15:11
42	P2.011211.151802	WG353726-01	Fluid Blank		1		01/12/11 15:18
43	P2.011211.152446	L11010089-01	GBP CONCRETE	5/50	1		01/12/11 15:24
44	P2.011211.153132	WG353813-01	Post Digestion Spike		1	L11010089-01	01/12/11 15:31
45	P2.011211.153816	WG353813-02	Serial Dilution		5	L11010089-01	01/12/11 15:38
46	P2.011211.154502	L11010111-01	1010103-01	5/50	1		01/12/11 15:45
47	P2.011211.155148	L11010163-15	0922-682B-D-001	5/50	1		01/12/11 15:51
48	P2.011211.155825	L11010163-16	0922-682B-D-002	5/50	1		01/12/11 15:58
49	P2.011211.160510	L11010163-17	0922-682B-D-003	5/50	1		01/12/11 16:05
50	P2.011211.161152	WG353902-21	CCV		1		01/12/11 16:11
51	P2.011211.161839	WG353902-22	CCB		1		01/12/11 16:18
52	P2.011211.162337	L11010163-18	0922-682B-D-004	5/50	1		01/12/11 16:23
53	P2.011211.163020	L11010190-01	COMPOSITE	5/50	1		01/12/11 16:30
54	P2.011211.163703	WG353772-01	Reference Sample		1	L11010201-01	01/12/11 16:37
55	P2.011211.164344	WG353772-04	Matrix Spike	5/50	1	L11010201-01	01/12/11 16:43
56	P2.011211.164929	WG353772-05	Matrix Spike Duplica	5/50	1	L11010201-01	01/12/11 16:49
57	P2.011211.165521	WG353902-23	CCV		1		01/12/11 16:55
58	P2.011211.170159	WG353902-24	CCB		1		01/12/11 17:01
59	P2.011211.170834	WG353704-02	Method/Prep Blank		1		01/12/11 17:08
60	P2.011211.171516	WG353704-03	Laboratory Control S		1		01/12/11 17:15
61	P2.011211.172156	L11010183-01	13475-W0001		1		01/12/11 17:21
62	P2.011211.172835	WG353785-01	Post Digestion Spike		1	L11010183-01	01/12/11 17:28
63	P2.011211.173516	WG353785-02	Serial Dilution		5	L11010183-01	01/12/11 17:35
64	P2.011211.174155	L11010189-01	AV-NCB-EB-1-010611		1		01/12/11 17:41
65	P2.011211.174834	L11010197-01	12413-W0001		1		01/12/11 17:48
66	P2.011211.175515	L11010197-02	12461-W0001		1		01/12/11 17:55
67	P2.011211.190040	WG353902-25	CCV		1		01/12/11 19:00
68	P2.011211.192727	WG353902-26	CCV		1		01/12/11 19:27

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 011211HR2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36098

Calibration Std: STD43232 ICV Std: STD53233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 353647,353646,353797353813,353432,353838,

Comments: Sequences 59 through 67 were not reported due to instrument error.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.011211.193406	WG353902-27	CCB		1		01/12/11 19:34
70	P2.011211.194042	L11010024-01	T1360	50/50	100		01/12/11 19:40
71	P2.011211.194721	WG353647-01	Post Digestion Spike		100	L11010024-01	01/12/11 19:47
72	P2.011211.195402	WG353647-02	Serial Dilution		500	L11010024-01	01/12/11 19:54
73	P2.011211.200041	L11010024-02	T1362	50/50	100		01/12/11 20:00
74	P2.011211.200720	WG353902-28	CCV		1		01/12/11 20:07
75	P2.011211.201357	WG353902-29	CCB		1		01/12/11 20:13
76	P2.011211.202033	L11010024-03	T1363	50/50	100		01/12/11 20:20
77	P2.011211.202713	L11010024-04	T1365	50/50	100		01/12/11 20:27
78	P2.011211.203352	L11010048-06	LF4MW02A-110104	50/50	100		01/12/11 20:33
79	P2.011211.204031	WG353221-01	Reference Sample		100	L11010048-07	01/12/11 20:40
80	P2.011211.204715	WG353221-04	Matrix Spike	50/50	100	L11010048-07	01/12/11 20:47
81	P2.011211.205359	WG353221-05	Matrix Spike Duplica	50/50	100	L11010048-07	01/12/11 20:53
82	P2.011211.210043	L11010048-10	W04-3-110104		100		01/12/11 21:00
83	P2.011211.210726	L11010048-11	DUP-01-110104		100		01/12/11 21:07
84	P2.011211.211409	WG353902-30	CCV		1		01/12/11 21:14
85	P2.011211.212047	WG353902-31	CCB		1		01/12/11 21:20
86	P2.011211.212722	WG353353-02	Method/Prep Blank	50/50	1		01/12/11 21:27
87	P2.011211.213402	WG353353-03	Laboratory Control S	50/50	1		01/12/11 21:34
88	P2.011211.214044	L11010116-01	HTA-IDW-001-0111	50/50	1		01/12/11 21:40
89	P2.011211.214728	WG353353-01	Reference Sample		2	L11010112-01	01/12/11 21:47
90	P2.011211.215409	WG353353-04	Matrix Spike	50/50	2	L11010112-01	01/12/11 21:54
91	P2.011211.220050	WG353353-05	Matrix Spike Duplica	50/50	2	L11010112-01	01/12/11 22:00
92	P2.011211.220731	WG353432-03	Post Digestion Spike		2	L11010112-01	01/12/11 22:07
93	P2.011211.221413	WG353432-04	Serial Dilution		10	L11010112-01	01/12/11 22:14
94	P2.011211.222052	WG353902-32	CCV		1		01/12/11 22:20
95	P2.011211.222733	WG353902-33	CCB		1		01/12/11 22:27
96	P2.011211.223412	WG353774-01	Method/Prep Blank	50/50	1		01/12/11 22:34
97	P2.011211.224051	WG353721-01	Fluid Blank		1		01/12/11 22:40
98	P2.011211.224729	WG353631-01	Fluid Blank		1		01/12/11 22:47
99	P2.011211.225408	WG353774-02	Laboratory Control S	50/50	1		01/12/11 22:54
100	P2.011211.230048	WG353774-03	Laboratory Control S	50/50	1		01/12/11 23:00
101	P2.011211.230729	L11010180-02	60500-SSP0071	50/50	1		01/12/11 23:07
102	P2.011211.231314	WG353838-01	Post Digestion Spike		1	L11010180-02	01/12/11 23:13

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Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 011211HR2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600 Rev: 10
Maintenance Log ID: 36098

Calibration Std: STD43232 ICV Std: STD53233 Post Spike: STD39932
ICSA: STD43141 ICSAB: STD43056 Int. Std: STD43234
CCV: STD43144 LLCCV:

Workgroups: 353647,353646,353797353813,353432,353838,

Comments: Sequences 59 through 67 were not reported due to instrument error.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.011211.231858	WG353838-02	Serial Dilution		5	L11010180-02	01/12/11 23:18
104	P2.011211.232538	L11010191-01	SPLP0007-C0045	50/50	1		01/12/11 23:25
105	P2.011211.233222	L11010223-10	13791-W0001	50/50	1		01/12/11 23:32
106	P2.011211.233903	WG353902-34	CCV		1		01/12/11 23:39
107	P2.011211.234543	WG353902-35	CCB		1		01/12/11 23:45
108	P2.011211.235222	L11010223-11	13791-W0002	50/50	1		01/12/11 23:52
109	P2.011211.235902	L11010223-12	13791-W0003	50/50	1		01/12/11 23:59
110	P2.011311.000542	L11010223-13	13803-W0001	50/50	1		01/13/11 00:05
111	P2.011311.001222	L11010223-14	14108-W0001	50/50	1		01/13/11 00:12
112	P2.011311.001903	L11010223-15	14108-W0002	50/50	1		01/13/11 00:19
113	P2.011311.002543	L11010223-16	2384-W0001	50/50	1		01/13/11 00:25
114	P2.011311.003222	L11010223-17	6829-W0001	50/50	1		01/13/11 00:32
115	P2.011311.003902	L11010223-18	6983-W0001	50/50	1		01/13/11 00:39
116	P2.011311.004543	L11010223-19	75047-W0001	50/50	1		01/13/11 00:45
117	P2.011311.005222	WG353902-36	CCV		1		01/13/11 00:52
118	P2.011311.005958	WG353902-37	CCB		1		01/13/11 00:59
119	P2.011311.010637	L11010223-20	75047-W0002	50/50	1		01/13/11 01:06
120	P2.011311.011318	L11010223-21	8296-W0001	50/50	1		01/13/11 01:13
121	P2.011311.011958	L11010223-22	8538-W0001	50/50	1		01/13/11 01:19
122	P2.011311.012638	L11010223-23	9378-W0001	50/50	1		01/13/11 01:26
123	P2.011311.013318	L11010223-24	9378-W0002	50/50	1		01/13/11 01:33
124	P2.011311.013958	FLTBLK	FLTBLK		1		01/13/11 01:39
125	P2.011311.014720	F BLANK	F BLANK		1		01/13/11 01:47
126	P2.011311.015401	WG353902-38	CCV		1		01/13/11 01:54
127	P2.011311.020041	WG353902-39	CCB		1		01/13/11 02:00
128	P2.011311.020720	L11010211-01	W9032		10		01/13/11 02:07
129	P2.011311.021403	WG353902-40	CCV		1		01/13/11 02:14
130	P2.011311.022040	WG353902-41	CCB		1		01/13/11 02:20

Comments

Seq.	Rerun	Dil.	Reason	Analytes
128			No sample in specified location.	

Page: 4 Approved: January 13, 2011

Microbac Laboratories Inc.

Data Checklist

Date: 07-JAN-2011
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: PE-ICP2
Curve Workgroup: 353531
Runlog ID: 38450
Analytical Workgroups: 348257,352718,352135,352886,353287,353283,353432,353068,353277

Additional workgroups	352973,352136
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	738,229,277,289,291,292,295,404
	667,714,812,813,785050,108,116
	120,849,876,019
Client Forms	X
Level X	
Level 3	738,289,812,813,
Level 4	277,291,292,295,404,785050,108,
	116,849
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
10-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-10-2011 15:33:41

Microbac Laboratories Inc.

Data Checklist

Date: 12-JAN-2011
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: PE-ICP2
Curve Workgroup: 353902
Runlog ID: 38531
Analytical Workgroups: 353647,353646,353797353813,353432,353838,

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0117,0242,0111,0163,0190,0116,0024
	0048,0180,0191,0223
Client Forms	X
Level X	
Level 3	
Level 4	0163,0190,0116,0048,0180,0191,0223
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer: 13-JAN-2011 Pierce Morris

Secondary Reviewer: 13-JAN-2011 Sheri L. Pabgrad

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-13-2011 15:33:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6010B

AAB#: WG353432

Login Number: L11010116

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
HTA-IDW-001-0111	01	01/05/11					01/07/11	2	180		01/12/11	7.5	180	
HTA-IDW-001-0111	01	01/05/11					01/07/11	2	180		01/07/11	2.6	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1888476
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: P2.010711.220010
Prep Date: 01/07/11 07:43
Analyzed Date: 01/07/11 22:00
Analyst: PDM

Work Group: WG353432
Blank Sample ID: WG353353-02
Instrument ID: PE-ICP2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353353-03	P2.010711.220653	01/07/11 22:06	01
HTA-IDW-001-0111	L11010116-01	P2.010711.232809	01/07/11 23:28	01
LCS	WG353353-03	P2.011211.213402	01/12/11 21:34	02
HTA-IDW-001-0111	L11010116-01	P2.011211.214044	01/12/11 21:40	02

Report Name: BLANK_SUMMARY
PDF File ID: 1888477
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: P2.011211.212722
Prep Date: 01/07/11 07:43
Analyzed Date: 01/12/11 21:27
Analyst: PDM

Work Group: WG353432
Blank Sample ID: WG353353-02
Instrument ID: PE-ICP2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353353-03	P2.010711.220653	01/07/11 22:06	01
HTA-IDW-001-0111	L11010116-01	P2.010711.232809	01/07/11 23:28	01
LCS	WG353353-03	P2.011211.213402	01/12/11 21:34	02
HTA-IDW-001-0111	L11010116-01	P2.011211.214044	01/12/11 21:40	02

Report Name: BLANK_SUMMARY
PDF File ID: 1888477
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 07:43 Sample ID: WG353353-02
Instrument ID: PE-ICP2 Run Date: 01/07/11 22:00 Prep Method: 3005A
File ID: P2.010711.220010 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG353432 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP - 07-JAN-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Arsenic, Total	0.00500	0.0100	0.00500	1	U
Cadmium, Total	0.00250	0.0100	0.00250	1	U
Chromium, Total	0.00250	0.0200	0.00250	1	U
Silver, Total	0.00500	0.0100	0.00500	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1888478
18-JAN-2011 11:49

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 07:43 Sample ID: WG353353-02
Instrument ID: PE-ICP2 Run Date: 01/12/11 21:27 Prep Method: 3005A
File ID: P2.011211.212722 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG353432 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP-12-JAN-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Barium, Total	0.00250	0.0100	0.00250	1	U
Lead, Total	0.00250	0.00500	0.00250	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name: BLANK
PDF ID: 1888478
18-JAN-2011 11:49

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353353-03
Instrument ID: PE-ICP2 Run Time: 22:06 Prep Method: 3005A
File ID: P2.010711.220653 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG353432 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD39933 Cal ID: PE-ICP - 07-JAN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	0.200	0.197	98.4	80 - 120	
Cadmium, Total	0.0250	0.0242	96.7	80 - 120	
Chromium, Total	0.250	0.255	102	80 - 120	
Silver, Total	0.200	0.206	103	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1888479
Report generated: 01/18/2011 11:49

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/12/2011 Sample ID: WG353353-03
Instrument ID: PE-ICP2 Run Time: 21:34 Prep Method: 3005A
File ID: P2.011211.213402 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG353432 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD39933 Cal ID: PE-ICP - 12-JAN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Barium, Total	0.500	0.505	101	80 - 120	
Lead, Total	0.250	0.254	101	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1888479
Report generated: 01/18/2011 11:49

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L11010116 Cal ID: PE-ICP2 - Worknum: WG353432
Instrument ID: PE-ICP2 Contract #: Method: 6010B
Parent ID: WG353353-01 File ID: P2.010711.225342 Dil: 1 Matrix: WATER
Sample ID: WG353353-04 MS File ID: P2.010711.230029 Dil: 1 Units: mg/L
Sample ID: WG353353-05 MSD File ID: P2.010711.232127 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	0.0102	0.200	0.205	97.4	0.200	0.205	97.4	0.0648	80 - 120	20	
Cadmium, Total	ND	0.0250	0.0236	94.3	0.0250	0.0237	94.6	0.290	80 - 120	20	
Chromium, Total	ND	0.250	0.252	101	0.250	0.252	101	0.120	80 - 120	20	
Silver, Total	ND	0.200	0.202	101	0.200	0.203	101	0.282	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID: 1888480
Report generated 01/18/2011 11:49

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L11010116 Cal ID: PE-ICP2 - Worknum: WG353432
Instrument ID: PE-ICP2 Contract #: Method: 6010B
Parent ID: WG353353-01 File ID: P2.011211.214728 Dil: 2 Matrix: WATER
Sample ID: WG353353-04 MS File ID: P2.011211.215409 Dil: 2 Units: mg/L
Sample ID: WG353353-05 MSD File ID: P2.011211.220050 Dil: 2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Barium, Total	0.0867	0.500	0.597	102	0.500	0.605	104	1.33	80 - 120	20	
Lead, Total	ND	0.250	0.257	103	0.250	0.260	104	1.26	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID: 1888480
Report generated 01/18/2011 11:49

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11010116 **Worknum:** WG353432
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG353432-02 **File ID:** P2.010711.223342 **Dil:** 5 **Units:** mg/L
Sample: L11010050-02 **File ID:** P2.010711.222017 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Arsenic	.0236	X	.0605	X	156.00	
Barium	.0152	X	ND	U		
Cadmium	ND	U	ND	U		
Chromium	ND	U	ND	U		
Lead	ND	U	ND	U		
Silver	.00724	F	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1888474
01/13/2011 11:09

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11010116 **Worknum:** WG353432
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG353432-04 **File ID:** P2.011211.221413 **Dil:** 10 **Units:** mg/L
Sample: L11010112-01 **File ID:** P2.011211.214728 **Dil:** 2

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Arsenic	.01308	F	ND	U		
Barium	.0868	X	.0797	F	8.18	
Cadmium	ND	U	ND	U		
Chromium	ND	U	ND	U		
Lead	ND	U	ND	U		
Silver	ND	U	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1888474
01/13/2011 11:09

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11010116 **Worknum:** WG353432
Instrument ID: PE-ICP2 **Method:** 6010B
Post Spike ID: WG353432-01 **File ID:** P2.010711.222701 **Dil:** 1 **Units:** mg/L
Sample ID: L11010050-02 **File ID:** P2.010711.222017 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	0.212		0.0236		.2	95.4	75 - 125	
BARIUM	0.511		0.0152		.5	99.5	75 - 125	
CADMIUM	0.0227		0	U	.025	90.7	75 - 125	
CHROMIUM	0.250		0	U	.25	100.0	75 - 125	
LEAD	0.250		0	U	.25	99.8	75 - 125	
SILVER	0.203		0.00724	F	.2	98.2	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1888475
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11010116 **Worknum:** WG353432
Instrument ID: PE-ICP2 **Method:** 6010B
Post Spike ID: WG353432-03 **File ID:** P2.011211.220731 **Dil:** 2 **Units:** mg/L
Sample ID: L11010112-01 **File ID:** P2.011211.214728 **Dil:** 2 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	0.202		0	F	.2	101.2	75 - 125	
BARIUM	0.546		0.0434		.5	100.6	75 - 125	
CADMIUM	0.0247		0	U	.025	98.7	75 - 125	
CHROMIUM	0.251		0	U	.25	100.4	75 - 125	
LEAD	0.253		0	U	.25	101.4	75 - 125	
SILVER	0.202		0	U	.2	100.9	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1888475
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11010116**	Workgroup (AAB#):	**WG353432**
Analytical Method:	**6010B**	Instrument ID:	**PE-ICP2**
ICAL Worknum:	**WG353531**	Initial Calibration Date:	**07-JAN-2011 10:11**

	WG353531-01		WG353531-02		WG353531-03		WG353531-04		WG353531-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ARSENIC	0	-12.0	NA	NA	.008	7.66	.4	485	.8	965	.999995	
BARIUM	0	-40.9	.01	667	.02	1390	1	67800	2	132000	.999903	
CADMIUM	0	20.2	.0005	8.82	.001	18.1	.05	989	.1	2010	.999977	
CHROMIUM	0	107	.005	584	.01	1260	.5	58900	1	115000	.999922	
LEAD	0	45.9	.005	36.6	.01	79.2	.5	3520	1	6870	.999936	
SILVER	0	386	.004	644	.008	1610	.4	74200	.8	148000	.999996	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1888483
Report generated: 13-JAN-2011 11:09

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11010116**	Workgroup (AAB#):	**WG353432**
Analytical Method:	**6010B**	Instrument ID:	**PE-ICP2**
ICAL Worknum:	**WG353902**	Initial Calibration Date:	**12-JAN-2011 10:59**

	WG353902-01		WG353902-02		WG353902-03		WG353902-04		WG353902-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ARSENIC	0	-8.81	NA	NA	.008	10.4	.4	577	.8	1180	.999952	
BARIUM	0	-53.6	.01	727	.02	1380	1	71700	2	142000	.999993	
CADMIUM	0	20.9	.0005	12.2	.001	23.1	.05	1180	.1	2430	.999883	
CHROMIUM	0	86.7	.005	625	.01	1300	.5	64800	1	129000	.999997	
LEAD	0	25.5	.005	45.8	.01	78.1	.5	3900	1	7780	.999999	
SILVER	0	434	.004	934	.008	1690	.4	85000	.8	170000	1	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1888483
Report generated: 13-JAN-2011 11:09

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-08
Instrument ID: PE-ICP2
Run Time: 10:29
Method: 6010B
File ID: P2.010711.102901
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP2 - 07-JAN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.005	.01	.005	U
BARIUM	.0025	.01	.0025	U
CADMIUM	.0025	.01	.0025	U
CHROMIUM	.0025	.02	.0025	U
LEAD	.0025	.005	.0025	U
SILVER	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1888485
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-08
Instrument ID: PE-ICP2
Run Time: 11:17
Method: 6010B
File ID: P2.011211.111722
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP2 - 12-JAN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.005	.01	.005	U
BARIUM	.0025	.01	.0025	U
CADMIUM	.0025	.01	.0025	U
CHROMIUM	.0025	.02	.0025	U
LEAD	.0025	.005	.0025	U
SILVER	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1888485
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-12
Instrument ID: PE-ICP2
Run Time: 10:53
Method: 6010B
File ID: P2.010711.105350
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00394	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00306	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-14
Instrument ID: PE-ICP2
Run Time: 11:19
Method: 6010B
File ID: P2.010711.111938
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00394	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00349	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-18
Instrument ID: PE-ICP2
Run Time: 11:44
Method: 6010B
File ID: P2.010711.114418
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00390	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00308	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-36
Instrument ID: PE-ICP2
Run Time: 21:53
Method: 6010B
File ID: P2.010711.215331
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00417	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00388	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-38
Instrument ID: PE-ICP2
Run Time: 23:14
Method: 6010B
File ID: P2.010711.231448
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00420	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00334	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/08/2011
Sample ID: WG353531-40
Instrument ID: PE-ICP2
Run Time: 00:06
Method: 6010B
File ID: P2.010811.000632
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	-0.00392	F
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	-0.00262	F
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1888488
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-13
Instrument ID: PE-ICP2
Run Time: 11:58
Method: 6010B
File ID: P2.011211.115818
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	0.00250	U
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	0.00250	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-31
Instrument ID: PE-ICP2
Run Time: 21:20
Method: 6010B
File ID: P2.011211.212047
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	0.00250	U
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	0.00250	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-33
Instrument ID: PE-ICP2
Run Time: 22:27
Method: 6010B
File ID: P2.011211.222733
Analyst: PDM
Units: mg/L
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00250	0.0100	0.00250	U
Cadmium	0.00250	0.0100	0.00250	U
Chromium	0.00250	0.0200	0.00250	U
Lead	0.00250	0.00500	0.00250	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

(Alternate Source)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353531-07

Instrument ID: PE-ICP2 Run Time: 10:22 Method: 6010B

File ID: P2.010711.102213 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG353432 Cal ID: PE-ICP - 07-JAN-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		.4	0.411	103	90 - 110	
Barium		1	1.03	103	90 - 110	
Cadmium		.05	0.0500	100	90 - 110	
Chromium		.5	0.512	102	90 - 110	
Lead		.5	0.520	104	90 - 110	
Silver		.4	0.410	102	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1888484

Report generated 01/13/2011 11:09

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11010116 Run Date: 01/12/2011 Sample ID: WG353902-07
Instrument ID: PE-ICP2 Run Time: 11:10 Method: 6010B
File ID: P2.011211.111037 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG353432 Cal ID: PE-ICP - 12-JAN-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		.4	0.392	97.9	90 - 110	
Barium		1	1.01	101	90 - 110	
Cadmium		.05	0.0479	95.7	90 - 110	
Chromium		.5	0.501	100	90 - 110	
Lead		.5	0.507	101	90 - 110	
Silver		.4	0.396	98.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1888484
Report generated 01/13/2011 11:09

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-11
Instrument ID: PE-ICP2
Run Time: 10:47
Method: 6010B
File ID: P2.010711.104710
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.404	mg/L	101	90 - 110		
Barium		1.00	1.04	mg/L	104	90 - 110		
Cadmium		0.0500	0.0498	mg/L	99.6	90 - 110		
Chromium		0.500	0.520	mg/L	104	90 - 110		
Lead		0.500	0.519	mg/L	104	90 - 110		
Silver		0.400	0.414	mg/L	103	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-13
Instrument ID: PE-ICP2
Run Time: 11:12
Method: 6010B
File ID: P2.010711.111250
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.399	mg/L	99.7	90 - 110		
Barium		1.00	1.03	mg/L	103	90 - 110		
Cadmium		0.0500	0.0492	mg/L	98.3	90 - 110		
Chromium		0.500	0.514	mg/L	103	90 - 110		
Lead		0.500	0.514	mg/L	103	90 - 110		
Silver		0.400	0.406	mg/L	102	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-17
Instrument ID: PE-ICP2
Run Time: 11:37
Method: 6010B
File ID: P2.010711.113738
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.405	mg/L	101	90 - 110		
Barium		1.00	1.05	mg/L	105	90 - 110		
Cadmium		0.0500	0.0500	mg/L	100	90 - 110		
Chromium		0.500	0.523	mg/L	105	90 - 110		
Lead		0.500	0.526	mg/L	105	90 - 110		
Silver		0.400	0.412	mg/L	103	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-35
Instrument ID: PE-ICP2
Run Time: 21:46
Method: 6010B
File ID: P2.010711.214653
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.409	mg/L	102	90 - 110		
Barium		1.00	1.05	mg/L	105	90 - 110		
Cadmium		0.0500	0.0505	mg/L	101	90 - 110		
Chromium		0.500	0.526	mg/L	105	90 - 110		
Lead		0.500	0.530	mg/L	106	90 - 110		
Silver		0.400	0.417	mg/L	104	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-37
Instrument ID: PE-ICP2
Run Time: 23:07
Method: 6010B
File ID: P2.010711.230711
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.411	mg/L	103	90 - 110		
Barium		1.00	1.06	mg/L	106	90 - 110		
Cadmium		0.0500	0.0505	mg/L	101	90 - 110		
Chromium		0.500	0.534	mg/L	107	90 - 110		
Lead		0.500	0.529	mg/L	106	90 - 110		
Silver		0.400	0.426	mg/L	106	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353531-39
Instrument ID: PE-ICP2
Run Time: 23:59
Method: 6010B
File ID: P2.010711.235948
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.419	mg/L	105	90 - 110		
Barium		1.00	1.09	mg/L	109	90 - 110		
Cadmium		0.0500	0.0514	mg/L	103	90 - 110		
Chromium		0.500	0.543	mg/L	109	90 - 110		
Lead		0.500	0.541	mg/L	108	90 - 110		
Silver		0.400	0.431	mg/L	108	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-12
Instrument ID: PE-ICP2
Run Time: 11:51
Method: 6010B
File ID: P2.011211.115141
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.378	mg/L	94.5	90 - 110		
Barium		1.00	0.990	mg/L	99.0	90 - 110		
Cadmium		0.0500	0.0471	mg/L	94.3	90 - 110		
Chromium		0.500	0.494	mg/L	98.9	90 - 110		
Lead		0.500	0.501	mg/L	100	90 - 110		
Silver		0.400	0.386	mg/L	96.4	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-30
Instrument ID: PE-ICP2
Run Time: 21:14
Method: 6010B
File ID: P2.011211.211409
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.406	mg/L	101	90 - 110		
Barium		1.00	1.03	mg/L	103	90 - 110		
Cadmium		0.0500	0.0512	mg/L	102	90 - 110		
Chromium		0.500	0.514	mg/L	103	90 - 110		
Lead		0.500	0.517	mg/L	103	90 - 110		
Silver		0.400	0.409	mg/L	102	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/12/2011
Sample ID: WG353902-32
Instrument ID: PE-ICP2
Run Time: 22:20
Method: 6010B
File ID: P2.011211.222052
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353432
Cal ID: PE-ICP - 12-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.395	mg/L	98.8	90 - 110		
Barium		1.00	1.02	mg/L	102	90 - 110		
Cadmium		0.0500	0.0500	mg/L	100	90 - 110		
Chromium		0.500	0.512	mg/L	102	90 - 110		
Lead		0.500	0.515	mg/L	103	90 - 110		
Silver		0.400	0.402	mg/L	100	90 - 110		

* Exceeds LIMITS Criteria

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Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11010116 **Workgroup (AAB#):** WG353432
Instrument ID: PE-ICP2 **Method:** 6010B
Sol. A : WG353531-09 **File ID:** P2.010711.103537 **Units:** mg/L
Sol. AB : WG353531-10 **File ID:** P2.010711.104121 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.00112	NS	0.250	0.233	93.2	
Barium	NS	-0.00332	NS	0.250	0.240	96.0	
Cadmium	NS	-0.0000900	NS	0.500	0.504	101	
Chromium	NS	-0.000470	NS	0.250	0.241	96.4	
Lead	NS	0.00277	NS	0.500	0.481	96.2	
Silver	NS	-0.00203	NS	0.500	0.504	101	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

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Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11010116
Instrument ID: PE-ICP2
Sol. A : WG353531-15 **File ID:** P2.010711.112614
Sol. AB : WG353531-16 **File ID:** P2.010711.113157

Workgroup (AAB#): WG353432
Method: 6010B
Units: mg/L
Matrix: Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	-0.00225	NS	0.250	0.243	97.2	
Barium	NS	-0.00311	NS	0.250	0.245	98.0	
Cadmium	NS	0.000160	NS	0.500	0.516	103	
Chromium	NS	-0.000210	NS	0.250	0.246	98.4	
Lead	NS	0.000700	NS	0.500	0.487	97.4	
Silver	NS	-0.00217	NS	0.500	0.513	103	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

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Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11010116
Instrument ID: PE-ICP2
Sol. A : WG353902-10 **File ID:** P2.011211.114016
Sol. AB : WG353902-11 **File ID:** P2.011211.114559

Workgroup (AAB#): WG353432
Method: 6010B
Units: mg/L
Matrix: Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.00184	NS	0.250	0.244	97.6	
Barium	NS	0.000140	NS	0.250	0.253	101	
Cadmium	NS	0.000210	NS	0.500	0.509	102	
Chromium	NS	0.00175	NS	0.250	0.250	100	
Lead	NS	-0.00238	NS	0.500	0.490	98.0	
Silver	NS	-0.00255	NS	0.500	0.522	104	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0420	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	-0.00150	0	0	0
CADMIUM	228.80	0	0	6.68	0	0
CALCIUM	227.55	0	-0.370	0.0414	0	0
CHROMIUM	267.72	0	0.0177	0	0	0
COBALT	228.62	0	0	0	0	0.337
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	-0.170	0	0	0
LEAD	220.35	0	-0.107	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.207	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	0.0400
ZINC	206.20	0	0.0753	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	15.0
ARSENIC	188.98	0	0.0200	-0.0875	0	-5.90
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0733
BORON	249.68	0	0	24.1	5.90	1.50
CADMIUM	228.80	0	0	0	-10.7	0
CALCIUM	227.55	0	-940	0	0	-10.0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.224
COPPER	327.39	0	0	0	0.380	-0.0400
IRON	239.56	0	0.0227	0	1.91	0.331
LEAD	220.35	0	-0.0247	0	0.116	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.638	0	0	0
MANGANESE	257.61	-1.04	0.0280	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	-0.566	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.0190	0	-1.52	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0.0900	0	3.48	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0100	0	0	0.297
VANADIUM	290.88	0	0.00800	0	0	0
ZINC	206.20	0	-0.0333	15.3	0	-3.64

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	-0.0800	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.0139	0	0	0
BARIUM	233.53	0	0.0552	0	0	0
BERYLLIUM	234.86	0	0.220	0	0	0
BORON	249.68	0	-4.30	0	0	0
CADMIUM	228.80	0	-0.00000100	0	0	0
CALCIUM	227.55	-2.00	-8.00	0	0	0.104
CHROMIUM	267.72	0	-0.0100	0	0	0
COBALT	228.62	0	0.0262	0	0	0
COPPER	327.39	0	-0.0500	0	0.154	0.0143
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.740	0.103	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.540	0	0	0
MANGANESE	257.61	-0.0457	-0.106	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0494	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	-0.0451	0	0	0
SELENIUM	196.03	0	-1.01	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	-0.314	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	-0.0100	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.127	0	0	-0.0600
ZINC	206.20	-0.200	0.0200	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	13.5	0	0	0
ANTIMONY	206.84	0	-20.0	0	0	0
ARSENIC	188.98	0	6.00	0	0	0
BARIUM	233.53	0	-0.548	0	0	0
BERYLLIUM	234.86	-0.131	-1.50	0	-0.00974	0
BORON	249.68	0	-2.20	0	0	0
CADMIUM	228.80	0	-0.00900	0	-0.398	0
CALCIUM	227.55	0	-38.0	0	-1090	0
CHROMIUM	267.72	0.434	-0.00100	0	0	0
COBALT	228.62	0	-0.125	0	0.129	0
COPPER	327.39	0.136	-0.0774	0	0.150	0.257
IRON	239.56	0.480	0	0	0	0.407
LEAD	220.35	0.0756	-5.00	0	0.100	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.00	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.120	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	0.451	0.300	0	0.0940	0
SILICON	251.61	0	15.0	0	0	0
SILVER	328.07	0.130	0.100	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-1.50	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	0.180	0	-0.200	-0.100

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	-10.6	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	2.79	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0.148	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.662	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11010116 **Date:** 01/14/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	-3.59	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.29	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0800	0
CALCIUM	227.55	0	0	-20.0	0
CHROMIUM	267.72	0	0	-0.567	-0.0400
COBALT	228.62	2.21	0	0	0
COPPER	327.39	-1.05	0	-0.700	-0.0613
IRON	239.56	0	0	0	-0.0613
LEAD	220.35	-0.441	0	0.0560	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	-0.0280	0
MANGANESE	257.61	-0.00931	-0.0414	-0.0601	-0.0553
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.617	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	-0.220	0	-0.126	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-5.47	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-12.0	0	-1.41	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1888482
Report generated: 01/13/2011 11:09

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11010116 **Date:** 09/21/2010
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	45.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	4.5
Boron	10.00	45.0
Cadmium	10.00	9.0
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	0.9
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	72.0
Selenium	10.00	45.0
Silicon	10.00	36.0
Silver	10.00	9.0
Sodium	10.00	180.0
Strontium	10.00	4.5
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	45.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1888481
Report generated: 01/13/2011 11:09

2.3.1.3 Raw Data

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Analysis Begun

Start Time: 1/7/2011 9:44:33 AM **Plasma On Time: 1/7/2011 7:28:17 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401Autosampler Model: AS-93plus

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 010711H3
Results Library: C:\pe\peicp2\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 1/7/2011 9:44:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5597506.0	61820.69	1.10%		
YRADIAL	359458.6	11622.74	3.23%		
Ga 417.206	1540082.9	17367.54	1.13%		
GaRADIAL	82014.6	1055.47	1.29%		
Ag 328.068†	386.4	50.57	13.09%	[0.00]	mg/L
Al 396.153†	70.4	65.66	93.21%	[0.00]	mg/L
As 188.979†	-12.0	4.00	33.44%	[0.00]	mg/L
Ba 233.527†	-40.9	8.37	20.47%	[0.00]	mg/L
Be 234.861†	-560.7	16.04	2.86%	[0.00]	mg/L
B 249.677†	517.1	17.46	3.38%	[0.00]	mg/L
Ca 227.546†	17.0	8.15	48.00%	[0.00]	mg/L
Cd 228.802†	20.2	4.51	22.27%	[0.00]	mg/L
Co 228.616†	-1.7	3.09	180.35%	[0.00]	mg/L
Cr 267.716†	106.7	13.95	13.08%	[0.00]	mg/L
Cu 327.393†	-1.4	43.56	>999.9%	[0.00]	mg/L
Fe 239.562†	3.1	3.17	102.59%	[0.00]	mg/L
Mg 279.077†	19.7	5.42	27.47%	[0.00]	mg/L
Mn 257.610†	317.8	16.37	5.15%	[0.00]	mg/L
Mo 202.031†	9.0	1.99	22.12%	[0.00]	mg/L
Ni 231.604†	-113.5	7.12	6.28%	[0.00]	mg/L
Pb 220.353†	45.9	4.02	8.75%	[0.00]	mg/L
Sb 206.836†	24.5	2.14	8.71%	[0.00]	mg/L
Se 196.026†	24.8	1.92	7.74%	[0.00]	mg/L
Si 251.611†	543.0	8.81	1.62%	[0.00]	mg/L
Sn 189.927†	13.3	0.90	6.72%	[0.00]	mg/L
Ti 334.940†	136.6	3.75	2.74%	[0.00]	mg/L
Tl 190.801†	-45.0	3.92	8.71%	[0.00]	mg/L
V 290.880†	1991.8	117.19	5.88%	[0.00]	mg/L
Zn 206.200†	291.2	9.14	3.14%	[0.00]	mg/L
K 766.490†	5.7	70.18	>999.9%	[0.00]	mg/L
Na 589.592†	2310.8	235.71	10.20%	[0.00]	mg/L
Sr 407.771†	473.0	323.14	68.32%	[0.00]	mg/L
Li 670.784†	450.9	72.06	15.98%	[0.00]	mg/L

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S1 **Date Collected: 1/7/2011 9:51:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow

Approved: January 10, 2011

All	172.0 kPa	0.50 L/min

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5658876.9	35574.04	0.63%		
YRADIAL	354136.2	5929.39	1.67%		
Ga 417.206	1546617.6	12786.88	0.83%		
GaRADIAL	81108.1	1372.04	1.69%		
Ag 328.068†	643.8	147.04	22.84%	[0.0040]	mg/L
Al 396.153†	435.2	46.53	10.69%	[0.10]	mg/L
Ba 233.527†	667.0	5.63	0.84%	[0.010]	mg/L
Be 234.861†	326.4	13.02	3.99%	[0.0005]	mg/L
Ca 227.546†	13.0	4.52	34.66%	[0.10]	mg/L
Cd 228.802†	8.8	4.40	49.84%	[0.00050]	mg/L
Co 228.616†	42.9	4.97	11.57%	[0.0020]	mg/L
Cr 267.716†	584.5	12.71	2.18%	[0.0050]	mg/L
Cu 327.393†	412.7	54.55	13.22%	[0.0050]	mg/L
Fe 239.562†	25.8	3.63	14.04%	[0.040]	mg/L
Mg 279.077†	93.4	2.82	3.02%	[0.10]	mg/L
Mn 257.610†	2256.0	20.20	0.90%	[0.0050]	mg/L
Mo 202.031†	152.2	10.83	7.11%	[0.010]	mg/L
Ni 231.604†	173.4	8.03	4.63%	[0.0050]	mg/L
Pb 220.353†	36.6	5.60	15.30%	[0.0050]	mg/L
Sb 206.836†	22.0	0.92	4.17%	[0.012]	mg/L
Si 251.611†	1787.1	44.65	2.50%	[0.050]	mg/L
Sn 189.927†	57.4	5.74	10.00%	[0.010]	mg/L
Ti 334.940†	7340.8	146.75	2.00%	[0.010]	mg/L
V 290.880†	1308.9	139.69	10.67%	[0.010]	mg/L
Zn 206.200†	249.1	4.61	1.85%	[0.010]	mg/L
K 766.490†	1271.0	143.80	11.31%	[0.50]	mg/L
Na 589.592†	6104.5	97.70	1.60%	[0.50]	mg/L
Sr 407.771†	16499.7	90.90	0.55%	[0.010]	mg/L
Li 670.784†	682.1	109.04	15.99%	[0.010]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 1/7/2011 9:57:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5636118.9	40859.28	0.72%		
YRADIAL	358030.1	3226.98	0.90%		
Ga 417.206	1545614.3	18190.65	1.18%		
GaRADIAL	81453.6	1542.54	1.89%		
Ag 328.068†	1613.6	65.07	4.03%	[0.0080]	mg/L
Al 396.153†	1088.8	47.47	4.36%	[0.20]	mg/L
As 188.979†	7.7	2.25	29.41%	[0.0080]	mg/L
Ba 233.527†	1387.9	11.38	0.82%	[0.020]	mg/L
Be 234.861†	678.2	18.17	2.68%	[0.0010]	mg/L
B 249.677†	590.0	14.45	2.45%	[0.010]	mg/L
Ca 227.546†	26.4	6.89	26.09%	[0.20]	mg/L
Cd 228.802†	18.1	2.27	12.50%	[0.0010]	mg/L
Co 228.616†	89.3	3.24	3.63%	[0.0040]	mg/L
Cr 267.716†	1258.0	13.45	1.07%	[0.010]	mg/L
Cu 327.393†	1174.0	140.74	11.99%	[0.010]	mg/L
Fe 239.562†	53.7	1.43	2.66%	[0.080]	mg/L
Mg 279.077†	196.1	2.39	1.22%	[0.20]	mg/L
Mn 257.610†	4660.4	42.89	0.92%	[0.010]	mg/L
Mo 202.031†	323.4	5.47	1.69%	[0.020]	mg/L
Ni 231.604†	378.8	7.78	2.05%	[0.010]	mg/L
Pb 220.353†	79.2	3.91	4.93%	[0.010]	mg/L

Approved: January 10, 2011

Sb 206.836†	45.6	3.95	8.67%	[0.024]	mg/L
Se 196.026†	18.7	1.41	7.56%	[0.0080]	mg/L
Si 251.611†	3566.0	19.02	0.53%	[0.10]	mg/L
Sn 189.927†	122.3	2.79	2.28%	[0.020]	mg/L
Ti 334.940†	15692.4	91.67	0.58%	[0.020]	mg/L
Tl 190.801†	24.4	0.56	2.27%	[0.010]	mg/L
V 290.880†	3071.7	142.21	4.63%	[0.020]	mg/L
Zn 206.200†	597.4	6.16	1.03%	[0.020]	mg/L
K 766.490†	2789.6	52.47	1.88%	[1.00]	mg/L
Na 589.592†	13278.6	51.94	0.39%	[1.00]	mg/L
Sr 407.771†	35102.7	680.18	1.94%	[0.020]	mg/L
Li 670.784†	1684.1	68.74	4.08%	[0.020]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 1/7/2011 10:04:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5397716.1	45164.32	0.84%		
YRADIAL	347904.1	3137.50	0.90%		
Ga 417.206	1531759.9	11960.10	0.78%		
GaRADIAL	80366.2	1504.82	1.87%		
Ag 328.068†	74175.7	1002.59	1.35%	[0.40]	mg/L
Al 396.153†	56783.9	300.57	0.53%	[10.00]	mg/L
As 188.979†	484.6	5.49	1.13%	[0.40]	mg/L
Ba 233.527†	67836.5	1009.36	1.49%	[1.00]	mg/L
Be 234.861†	33501.3	428.67	1.28%	[0.05]	mg/L
B 249.677†	25017.5	264.67	1.06%	[0.50]	mg/L
Ca 227.546†	1166.4	8.85	0.76%	[10.00]	mg/L
Cd 228.802†	988.7	10.75	1.09%	[0.05]	mg/L
Co 228.616†	4212.9	41.25	0.98%	[0.20]	mg/L
Cr 267.716†	58939.7	897.75	1.52%	[0.50]	mg/L
Cu 327.393†	69210.0	1152.50	1.67%	[0.50]	mg/L
Fe 239.562†	2735.3	18.79	0.69%	[4.00]	mg/L
Mg 279.077†	9574.6	17.90	0.19%	[10.00]	mg/L
Mn 257.610†	227317.4	3341.45	1.47%	[0.50]	mg/L
Mo 202.031†	16083.1	145.75	0.91%	[1.00]	mg/L
Ni 231.604†	19500.3	260.67	1.34%	[0.50]	mg/L
Pb 220.353†	3518.3	27.26	0.77%	[0.50]	mg/L
Sb 206.836†	2242.0	15.98	0.71%	[1.20]	mg/L
Se 196.026†	659.4	9.12	1.38%	[0.40]	mg/L
Si 251.611†	170187.2	2206.04	1.30%	[5.00]	mg/L
Sn 189.927†	6582.4	48.66	0.74%	[1.00]	mg/L
Ti 334.940†	771434.1	3277.10	0.42%	[1.00]	mg/L
Tl 190.801†	964.2	12.97	1.35%	[0.50]	mg/L
V 290.880†	154378.5	2434.64	1.58%	[1.00]	mg/L
Zn 206.200†	36335.1	530.29	1.46%	[1.00]	mg/L
K 766.490†	138374.1	963.86	0.70%	[50.00]	mg/L
Na 589.592†	640364.0	7590.34	1.19%	[50.00]	mg/L
Sr 407.771†	1725300.7	21297.01	1.23%	[1.00]	mg/L
Li 670.784†	84660.2	949.79	1.12%	[1.00]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S4 **Date Collected: 1/7/2011 10:11:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S4

Analyte	Back Pressure	Flow

Approved: January 10, 2011

All 172.0 kPa 0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5390252.3	45278.61	0.84%		
YRADIAL	353567.0	4084.35	1.16%		
Ga 417.206	1523736.5	34270.58	2.25%		
GaRADIAL	81005.1	1561.97	1.93%		
Ag 328.068†	147546.1	4204.73	2.85%	[0.80]	mg/L
Al 396.153†	110887.8	130.49	0.12%	[20.00]	mg/L
As 188.979†	965.2	29.88	3.10%	[0.80]	mg/L
Ba 233.527†	131860.6	1820.05	1.38%	[2.00]	mg/L
Be 234.861†	65905.0	1713.37	2.60%	[0.10]	mg/L
B 249.677†	49582.1	1129.33	2.28%	[1.00]	mg/L
Ca 227.546†	2330.4	46.24	1.98%	[20.00]	mg/L
Cd 228.802†	2006.2	83.66	4.17%	[0.10]	mg/L
Co 228.616†	8210.0	69.02	0.84%	[0.40]	mg/L
Cr 267.716†	114893.3	1857.17	1.62%	[1.00]	mg/L
Cu 327.393†	138472.0	4288.34	3.10%	[1.00]	mg/L
Fe 239.562†	5271.6	123.18	2.34%	[8.00]	mg/L
Mg 279.077†	18467.6	429.58	2.33%	[20.00]	mg/L
Mn 257.610†	445325.3	465.79	0.10%	[1.00]	mg/L
Mo 202.031†	31418.8	373.09	1.19%	[2.00]	mg/L
Ni 231.604†	37721.4	440.90	1.17%	[1.00]	mg/L
Pb 220.353†	6872.9	64.95	0.95%	[1.00]	mg/L
Sb 206.836†	4416.0	80.99	1.83%	[2.40]	mg/L
Se 196.026†	1285.3	10.86	0.84%	[0.80]	mg/L
Si 251.611†	339316.9	8454.73	2.49%	[10.00]	mg/L
Sn 189.927†	12885.1	114.54	0.89%	[2.00]	mg/L
Ti 334.940†	1538376.3	4157.53	0.27%	[2.00]	mg/L
Tl 190.801†	1869.8	34.30	1.83%	[1.00]	mg/L
V 290.880†	306603.2	5305.97	1.73%	[2.00]	mg/L
Zn 206.200†	70373.6	775.02	1.10%	[2.00]	mg/L
K 766.490†	272739.9	314.19	0.12%	[100.00]	mg/L
Na 589.592†	1255549.9	4269.63	0.34%	[100.00]	mg/L
Sr 407.771†	3363437.8	15238.24	0.45%	[2.00]	mg/L
Li 670.784†	166096.7	643.21	0.39%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin, Calc Int	63.8	184500	0.00000	0.999996	
Al 396.153	4	Lin, Calc Int	123.2	5564	0.00000	0.999928	
As 188.979	3	Lin, Calc Int	-0.5	1208	0.00000	0.999995	
Ba 233.527	4	Lin, Calc Int	261.5	66150	0.00000	0.999903	
Be 234.861	4	Lin, Calc Int	73.4	660400	0.00000	0.999968	
B 249.677	3	Lin, Calc Int	84.0	49570	0.00000	0.999990	
Ca 227.546	4	Lin, Calc Int	1.6	116.5	0.00000	0.999999	
Cd 228.802	4	Lin, Calc Int	-2.8	20040	0.00000	0.999977	
Co 228.616	4	Lin, Calc Int	16.3	20580	0.00000	0.999921	
Cr 267.716	4	Lin, Calc Int	223.2	115200	0.00000	0.999922	
Cu 327.393	4	Lin, Calc Int	-156.9	138600	0.00000	0.999999	
Fe 239.562	4	Lin, Calc Int	12.5	662.0	0.00000	0.999833	
Mg 279.077	4	Lin, Calc Int	46.3	927.4	0.00000	0.999842	
Mn 257.610	4	Lin, Calc Int	653.6	446400	0.00000	0.999949	
Mo 202.031	4	Lin, Calc Int	47.9	15760	0.00000	0.999933	
Ni 231.604	4	Lin, Calc Int	75.4	37890	0.00000	0.999864	
Pb 220.353	4	Lin, Calc Int	14.2	6889	0.00000	0.999936	
Sb 206.836	4	Lin, Calc Int	4.6	1843	0.00000	0.999972	
Se 196.026	3	Lin, Calc Int	5.7	1607	0.00000	0.999917	
Si 251.611	4	Lin, Calc Int	148.3	33940	0.00000	0.999999	
Sn 189.927	4	Lin, Calc Int	13.2	6463	0.00000	0.999942	
Ti 334.940	4	Lin, Calc Int	265.8	769500	0.00000	0.999999	
Tl 190.801	3	Lin, Calc Int	8.0	1872	0.00000	0.999878	
V 290.880	4	Lin, Calc Int	65.5	153500	0.00000	0.999994	
Zn 206.200	4	Lin, Calc Int	77.5	35370	0.00000	0.999866	
K 766.490	4	Non Lin, Calc Int	-50.6	2809	-0.81161	1.000000	
Na 589.592	4	Non Lin, Calc Int	-68.6	13060	-5.05135	1.000000	
Sr 407.771	4	Lin, Calc Int	5786.6	1687000	0.00000	0.999921	
Li 670.784	4	Lin, Calc Int	161.4	83270	0.00000	0.999954	

Approved: January 10, 2011

Sequence No.: 6 **Autosampler Location: 9**
Sample ID: ICV 2nd Vendor **Date Collected: 1/7/2011 10:16:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7565936.0						3863538.27	51.06%
YRADIAL	347600.5						4078.45	1.17%
Ga 417.206	2111144.7						1016479.52	48.15%
GaRADIAL	81403.0						1300.66	1.60%
Ag 328.068†	50769.6	0.276	mg/L	0.2384	0.276	mg/L	0.2384	86.43%
QC value less than the lower limit for Ag 328.068 Recovery = 68.95%								
Al 396.153†	57329.5	10.3	mg/L	0.03	10.3	mg/L	0.03	0.26%
QC value within limits for Al 396.153 Recovery = 102.73%								
As 188.979†	292.6	0.240	mg/L	0.2109	0.240	mg/L	0.2109	87.80%
QC value less than the lower limit for As 188.979 Recovery = 60.04%								
Ba 233.527†	45939.4	0.692	mg/L	0.6027	0.692	mg/L	0.6027	87.05%
QC value less than the lower limit for Ba 233.527 Recovery = 69.23%								
Be 234.861†	22825.7	0.0345	mg/L	0.03053	0.0345	mg/L	0.03053	88.39%
QC value less than the lower limit for Be 234.861 Recovery = 69.09%								
B 249.677†	16858.9	0.346	mg/L	0.2922	0.346	mg/L	0.2922	84.47%
QC value less than the lower limit for B 249.677 Recovery = 69.19%								
Ca 227.546†	691.9	6.33	mg/L	5.659	6.33	mg/L	5.659	89.44%
QC value less than the lower limit for Ca 227.546 Recovery = 63.27%								
Cd 228.802†	590.7	0.0294	mg/L	0.02652	0.0294	mg/L	0.02652	90.23%
QC value less than the lower limit for Cd 228.802 Recovery = 58.79%								
Co 228.616†	2520.1	0.120	mg/L	0.1079	0.120	mg/L	0.1079	90.02%
QC value less than the lower limit for Co 228.616 Recovery = 59.94%								
Cr 267.716†	39859.8	0.344	mg/L	0.2998	0.344	mg/L	0.2998	87.10%
QC value less than the lower limit for Cr 267.716 Recovery = 68.83%								
Cu 327.393†	47236.2	0.343	mg/L	0.2966	0.343	mg/L	0.2966	86.47%
QC value less than the lower limit for Cu 327.393 Recovery = 68.61%								
Fe 239.562†	2787.0	4.19	mg/L	0.049	4.19	mg/L	0.049	1.18%
QC value within limits for Fe 239.562 Recovery = 104.75%								
Mg 279.077†	9720.6	10.4	mg/L	0.12	10.4	mg/L	0.12	1.16%
QC value within limits for Mg 279.077 Recovery = 104.33%								
Mn 257.610†	156834.8	0.354	mg/L	0.3055	0.354	mg/L	0.3055	86.17%
QC value less than the lower limit for Mn 257.610 Recovery = 70.90%								
Mo 202.031†	10834.6	0.685	mg/L	0.5947	0.685	mg/L	0.5947	86.81%
QC value less than the lower limit for Mo 202.031 Recovery = 68.51%								
Ni 231.604†	13330.9	0.350	mg/L	0.3030	0.350	mg/L	0.3030	86.61%
QC value less than the lower limit for Ni 231.604 Recovery = 69.96%								
Pb 220.353†	2080.6	0.304	mg/L	0.2749	0.304	mg/L	0.2749	90.31%
QC value less than the lower limit for Pb 220.353 Recovery = 60.87%								
Sb 206.836†	1356.1	0.751	mg/L	0.6790	0.751	mg/L	0.6790	90.43%
QC value less than the lower limit for Sb 206.836 Recovery = 62.56%								
Se 196.026†	390.7	0.241	mg/L	0.2221	0.241	mg/L	0.2221	92.27%
QC value less than the lower limit for Se 196.026 Recovery = 60.18%								
Si 251.611†	119640.7	3.51	mg/L	3.046	3.51	mg/L	3.046	86.75%
QC value less than the lower limit for Si 251.611 Recovery = 70.22%								
Sn 189.927†	3986.4	0.615	mg/L	0.5506	0.615	mg/L	0.5506	89.55%
QC value less than the lower limit for Sn 189.927 Recovery = 61.48%								
Ti 334.940†	535159.7	0.695	mg/L	0.6006	0.695	mg/L	0.6006	86.41%
QC value less than the lower limit for Ti 334.940 Recovery = 69.51%								
Tl 190.801†	585.0	0.316	mg/L	0.2755	0.316	mg/L	0.2755	87.10%
QC value less than the lower limit for Tl 190.801 Recovery = 63.26%								
V 290.880†	102583.0	0.668	mg/L	0.5849	0.668	mg/L	0.5849	87.56%
QC value less than the lower limit for V 290.880 Recovery = 66.79%								
Zn 206.200†	24238.0	0.685	mg/L	0.5997	0.685	mg/L	0.5997	87.60%
QC value less than the lower limit for Zn 206.200 Recovery = 68.46%								
K 766.490†	141167.1	51.0	mg/L	0.25	51.0	mg/L	0.25	0.49%
QC value within limits for K 766.490 Recovery = 101.94%								

Approved: January 10, 2011

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Na 589.592†          697292.9        54.5 mg/L          2.42        54.5 mg/L          2.42   4.43%
   QC value greater than the upper limit for Na 589.592  Recovery = 109.09%
Sr 407.771†         1810631.8        1.07 mg/L         0.042        1.07 mg/L         0.042   3.94%
   QC value greater than the upper limit for Sr 407.771  Recovery = 106.95%
Li 670.784†           85554.6        1.03 mg/L         0.011        1.03 mg/L         0.011   1.06%
   QC value within limits for Li 670.784  Recovery = 102.55%
QC Failed.  Continue with analysis.
User canceled analysis.
```

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Analysis Begun

Start Time: 1/7/2011 10:22:11 AM **Plasma On Time: 1/7/2011 7:28:17 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401Autosampler Model: AS-93plus

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 010711H3
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 6 **Autosampler Location: 9**
Sample ID: ICV 2nd Vendor **Date Collected: 1/7/2011 10:22:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICV 2nd Vendor

Analyte	**Back Pressure**	**Flow**
All	172.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5365345.5						36475.65	0.68%
YRADIAL	349482.6						1003.94	0.29%
Ga 417.206	1529161.9						9927.84	0.65%
GaRADIAL	81888.3						1344.53	1.64%
Ag 328.068†	75429.8	0.410	mg/L	0.0029	0.410	mg/L	0.0029	0.72%
QC value within limits for Ag 328.068 Recovery = 102.47%								
Al 396.153†	57063.6	10.2	mg/L	0.03	10.2	mg/L	0.03	0.26%
QC value within limits for Al 396.153 Recovery = 102.21%								
As 188.979†	500.3	0.411	mg/L	0.0031	0.411	mg/L	0.0031	0.76%
QC value within limits for As 188.979 Recovery = 102.73%								
Ba 233.527†	68191.3	1.03	mg/L	0.004	1.03	mg/L	0.004	0.40%
QC value within limits for Ba 233.527 Recovery = 102.96%								
Be 234.861†	33895.4	0.0518	mg/L	0.00027	0.0518	mg/L	0.00027	0.52%
QC value within limits for Be 234.861 Recovery = 103.70%								
B 249.677†	25014.0	0.510	mg/L	0.0035	0.510	mg/L	0.0035	0.68%
QC value within limits for B 249.677 Recovery = 101.92%								
Ca 227.546†	1182.8	10.7	mg/L	0.06	10.7	mg/L	0.06	0.60%
QC value greater than the upper limit for Ca 227.546 Recovery = 107.14%								
Cd 228.802†	1007.3	0.0500	mg/L	0.00029	0.0500	mg/L	0.00029	0.57%
QC value within limits for Cd 228.802 Recovery = 100.02%								
Co 228.616†	4301.5	0.206	mg/L	0.0012	0.206	mg/L	0.0012	0.59%
QC value within limits for Co 228.616 Recovery = 102.82%								
Cr 267.716†	59190.8	0.512	mg/L	0.0033	0.512	mg/L	0.0033	0.64%
QC value within limits for Cr 267.716 Recovery = 102.41%								
Cu 327.393†	70005.8	0.508	mg/L	0.0052	0.508	mg/L	0.0052	1.02%
QC value within limits for Cu 327.393 Recovery = 101.56%								
Fe 239.562†	2733.5	4.11	mg/L	0.059	4.11	mg/L	0.059	1.43%
QC value within limits for Fe 239.562 Recovery = 102.72%								
Mg 279.077†	9542.5	10.2	mg/L	0.11	10.2	mg/L	0.11	1.11%
QC value within limits for Mg 279.077 Recovery = 102.42%								
Mn 257.610†	232635.9	0.525	mg/L	0.0032	0.525	mg/L	0.0032	0.61%
QC value within limits for Mn 257.610 Recovery = 104.99%								
Mo 202.031†	15944.2	1.01	mg/L	0.007	1.01	mg/L	0.007	0.66%
QC value within limits for Mo 202.031 Recovery = 100.95%								
Ni 231.604†	19621.7	0.516	mg/L	0.0033	0.516	mg/L	0.0033	0.64%
QC value within limits for Ni 231.604 Recovery = 103.16%								

Approved: January 10, 2011

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Pb 220.353†            3555.7       0.520 mg/L        0.0045       0.520 mg/L        0.0045   0.86%
   QC value within limits for Pb 220.353  Recovery = 104.03%
Sb 206.836†            2326.8        1.29 mg/L         0.012        1.29 mg/L         0.012   0.94%
   QC value greater than the upper limit for Sb 206.836  Recovery = 107.27%
Se 196.026†             678.9       0.421 mg/L        0.0086       0.421 mg/L        0.0086   2.05%
   QC value greater than the upper limit for Se 196.026  Recovery = 105.31%
Si 251.611†          177575.1        5.21 mg/L         0.017        5.21 mg/L         0.017   0.33%
   QC value within limits for Si 251.611  Recovery = 104.27%
Sn 189.927†            6811.7        1.05 mg/L         0.005        1.05 mg/L         0.005   0.46%
   QC value greater than the upper limit for Sn 189.927  Recovery = 105.20%
Ti 334.940†          793154.5        1.03 mg/L         0.001        1.03 mg/L         0.001   0.13%
   QC value within limits for Ti 334.940  Recovery = 103.04%
Tl 190.801†             971.1       0.526 mg/L        0.0054       0.526 mg/L        0.0054   1.03%
   QC value greater than the upper limit for Tl 190.801  Recovery = 105.24%
V 290.880†           152681.3       0.994 mg/L        0.0081       0.994 mg/L        0.0081   0.81%
   QC value within limits for V 290.880  Recovery = 99.41%
Zn 206.200†           36154.7        1.02 mg/L         0.004        1.02 mg/L         0.004   0.43%
   QC value within limits for Zn 206.200  Recovery = 102.23%
K 766.490†           140477.9        50.7 mg/L          0.05        50.7 mg/L          0.05   0.10%
   QC value within limits for K 766.490  Recovery = 101.44%
Na 589.592†          686066.4        53.6 mg/L          0.86        53.6 mg/L          0.86   1.60%
   QC value greater than the upper limit for Na 589.592  Recovery = 107.29%
Sr 407.771†         1779530.1        1.05 mg/L         0.002        1.05 mg/L         0.002   0.22%
   QC value greater than the upper limit for Sr 407.771  Recovery = 105.11%
Li 670.784†           84986.5        1.02 mg/L         0.012        1.02 mg/L         0.012   1.20%
   QC value within limits for Li 670.784  Recovery = 101.86%
QC Failed.  Continue with analysis.

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```

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 1/7/2011 10:29:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5734266.2						19314.33	0.34%
YRADIAL	363511.6						6717.08	1.85%
Ga 417.206	1570137.9						6179.05	0.39%
GaRADIAL	83226.0						1319.74	1.59%
Ag 328.068†	-115.8	-0.00098	mg/L	0.000461	-0.00098	mg/L	0.000461	47.20%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-23.3	-0.0263	mg/L	0.00153	-0.0263	mg/L	0.00153	5.83%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.1	-0.00129	mg/L	0.003050	-0.00129	mg/L	0.003050	235.90%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	4.3	-0.00389	mg/L	0.000204	-0.00389	mg/L	0.000204	5.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	9.2	-0.00010	mg/L	0.000019	-0.00010	mg/L	0.000019	19.99%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	274.4	0.00378	mg/L	0.000195	0.00378	mg/L	0.000195	5.17%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-0.4	-0.0189	mg/L	0.05361	-0.0189	mg/L	0.05361	283.28%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-2.7	0.00000	mg/L	0.000075	0.00000	mg/L	0.000075	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.3	-0.00058	mg/L	0.000121	-0.00058	mg/L	0.000121	20.96%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.1	-0.00193	mg/L	0.000014	-0.00193	mg/L	0.000014	0.74%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	62.6	0.00158	mg/L	0.000203	0.00158	mg/L	0.000203	12.82%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-0.3	-0.0193	mg/L	0.00115	-0.0193	mg/L	0.00115	5.97%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	0.6	-0.0493	mg/L	0.00408	-0.0493	mg/L	0.00408	8.28%

Approved: January 10, 2011

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   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              -40.7    -0.00156 mg/L      0.000014    -0.00156 mg/L      0.000014   0.91%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                2.6    -0.00288 mg/L      0.000110    -0.00288 mg/L      0.000110   3.82%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               -5.4    -0.00213 mg/L      0.000289    -0.00213 mg/L      0.000289  13.55%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               -1.0    -0.00222 mg/L      0.001781    -0.00222 mg/L      0.001781  80.16%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -2.0    -0.00363 mg/L      0.000919    -0.00363 mg/L      0.000919  25.30%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.4    -0.00204 mg/L      0.004241    -0.00204 mg/L      0.004241 208.13%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               62.0    -0.00250 mg/L      0.000848    -0.00250 mg/L      0.000848  33.94%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.9    -0.00217 mg/L      0.000343    -0.00217 mg/L      0.000343  15.81%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†               71.0    -0.00025 mg/L      0.000210    -0.00025 mg/L      0.000210  83.23%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.4    -0.00246 mg/L      0.001006    -0.00246 mg/L      0.001006  40.94%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -175.9    -0.00157 mg/L      0.000670    -0.00157 mg/L      0.000670  42.62%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -20.0    -0.00276 mg/L      0.000079    -0.00276 mg/L      0.000079   2.85%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                83.1      0.0476 mg/L       0.02081      0.0476 mg/L       0.02081  43.75%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -159.0    -0.00692 mg/L      0.027982    -0.00692 mg/L      0.027982 404.47%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             -127.8    -0.00350 mg/L      0.000414    -0.00350 mg/L      0.000414  11.80%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              -52.1    -0.00256 mg/L      0.001224    -0.00256 mg/L      0.001224  47.77%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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```

Sequence No.: 8 **Autosampler Location: 7**
Sample ID: ICSA **Date Collected: 1/7/2011 10:35:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5162402.8						27692.78	0.54%
YRADIAL	342412.9						4579.70	1.34%
Ga 417.206	1496776.5						15981.10	1.07%
GaRADIAL	79557.8						1176.87	1.48%
Ag 328.068†	-1410.6	-0.00203	mg/L	0.000285	-0.00203	mg/L	0.000285	14.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	1395930.8	251	mg/L	3.2	251	mg/L	3.2	1.26%
QC value within limits for Al 396.153 Recovery = 100.35%								
As 188.979†	14.3	0.00112	mg/L	0.008178	0.00112	mg/L	0.008178	732.86%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	197.7	-0.00332	mg/L	0.000211	-0.00332	mg/L	0.000211	6.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	15951.8	0.00040	mg/L	0.000736	0.00040	mg/L	0.000736	182.55%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	-9398.1	-0.0161	mg/L	0.01248	-0.0161	mg/L	0.01248	77.48%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	32437.3	279	mg/L	2.6	279	mg/L	2.6	0.92%
QC value within limits for Ca 227.546 Recovery = 111.75%								
Cd 228.802†	-3.0	-0.00009	mg/L	0.000069	-0.00009	mg/L	0.000069	77.74%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	33.7	-0.00171	mg/L	0.000354	-0.00171	mg/L	0.000354	20.72%
QC value within limits for Co 228.616 Recovery = Not calculated								

Approved: January 10, 2011

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Cr 267.716†              500.4    -0.00047 mg/L      0.000242    -0.00047 mg/L      0.000242  51.52%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -1230.1    -0.00061 mg/L      0.000126    -0.00061 mg/L      0.000126  20.77%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†            64820.5        97.9 mg/L          0.57        97.9 mg/L          0.57   0.58%
   QC value within limits for Fe 239.562  Recovery = 97.89%
Mg 279.077†           233293.3         251 mg/L           0.6         251 mg/L           0.6   0.22%
   QC value within limits for Mg 279.077  Recovery = 100.58%
Mn 257.610†            -3677.6     0.00033 mg/L      0.000402     0.00033 mg/L      0.000402 120.53%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -53.9    -0.00163 mg/L      0.000475    -0.00163 mg/L      0.000475  29.23%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -75.7    -0.00401 mg/L      0.000429    -0.00401 mg/L      0.000429  10.69%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -228.3     0.00277 mg/L      0.002185     0.00277 mg/L      0.002185  78.89%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               74.1      0.0372 mg/L       0.00495      0.0372 mg/L       0.00495  13.30%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -92.4    -0.00280 mg/L      0.009295    -0.00280 mg/L      0.009295 331.93%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             1984.0      0.0542 mg/L       0.00076      0.0542 mg/L       0.00076   1.40%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -158.1     -0.0265 mg/L       0.00168     -0.0265 mg/L       0.00168   6.33%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -3483.9    -0.00209 mg/L      0.000127    -0.00209 mg/L      0.000127   6.10%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               95.1      0.0214 mg/L       0.00507      0.0214 mg/L       0.00507  23.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -989.1     0.00372 mg/L      0.001324     0.00372 mg/L      0.001324  35.62%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -11.9    -0.00476 mg/L      0.000299    -0.00476 mg/L      0.000299   6.28%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               149.4      0.0712 mg/L       0.02959      0.0712 mg/L       0.02959  41.57%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              -99.5    -0.00236 mg/L      0.003993    -0.00236 mg/L      0.003993 168.86%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            23158.0     0.00129 mg/L      0.000037     0.00129 mg/L      0.000037   2.88%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              144.2    -0.00021 mg/L      0.000788    -0.00021 mg/L      0.000788 383.15%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 9 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 1/7/2011 10:41:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5198321.9						122305.31	2.35%
YRADIAL	345608.9						5715.69	1.65%
Ga 417.206	1502646.7						33220.12	2.21%
GaRADIAL	80420.5						1124.67	1.40%
Ag 328.068†	92004.6	0.504	mg/L	0.0078	0.504	mg/L	0.0078	1.54%
QC value within limits for Ag 328.068 Recovery = 100.90%								
Al 396.153†	1351697.7	243	mg/L	4.7	243	mg/L	4.7	1.93%
QC value within limits for Al 396.153 Recovery = 97.17%								
As 188.979†	291.4	0.233	mg/L	0.0067	0.233	mg/L	0.0067	2.88%
QC value within limits for As 188.979 Recovery = 93.01%								
Ba 233.527†	16267.1	0.240	mg/L	0.0044	0.240	mg/L	0.0044	1.85%
QC value within limits for Ba 233.527 Recovery = 96.09%								
Be 234.861†	180215.5	0.249	mg/L	0.0012	0.249	mg/L	0.0012	0.48%
QC value within limits for Be 234.861 Recovery = 99.75%								
B 249.677†	-9448.0	-0.0254	mg/L	0.01593	-0.0254	mg/L	0.01593	62.69%

Approved: January 10, 2011

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   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†            31706.5         274 mg/L           5.6         274 mg/L           5.6   2.04%
   QC value within limits for Ca 227.546  Recovery = 109.41%
Cd 228.802†            10073.7       0.504 mg/L        0.0057       0.504 mg/L        0.0057   1.13%
   QC value within limits for Cd 228.802  Recovery = 100.78%
Co 228.616†             4799.2       0.230 mg/L        0.0049       0.230 mg/L        0.0049   2.13%
   QC value within limits for Co 228.616  Recovery = 91.90%
Cr 267.716†            28330.5       0.241 mg/L        0.0050       0.241 mg/L        0.0050   2.09%
   QC value within limits for Cr 267.716  Recovery = 96.55%
Cu 327.393†            33083.0       0.247 mg/L        0.0023       0.247 mg/L        0.0023   0.94%
   QC value within limits for Cu 327.393  Recovery = 98.69%
Fe 239.562†            64344.2        97.2 mg/L          0.52        97.2 mg/L          0.52   0.53%
   QC value within limits for Fe 239.562  Recovery = 97.17%
Mg 279.077†           231725.6         250 mg/L           0.6         250 mg/L           0.6   0.25%
   QC value within limits for Mg 279.077  Recovery = 99.91%
Mn 257.610†           104137.6       0.243 mg/L        0.0031       0.243 mg/L        0.0031   1.27%
   QC value within limits for Mn 257.610  Recovery = 97.17%
Mo 202.031               -68.8    -0.00255 mg/L      0.000373    -0.00255 mg/L      0.000373  14.63%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†            17434.3       0.458 mg/L        0.0107       0.458 mg/L        0.0107   2.33%
   QC value within limits for Ni 231.604  Recovery = 91.60%
Pb 220.353†             3077.5       0.481 mg/L        0.0138       0.481 mg/L        0.0138   2.88%
   QC value within limits for Pb 220.353  Recovery = 96.24%
Sb 206.836†              977.8       0.525 mg/L        0.0136       0.525 mg/L        0.0136   2.60%
   QC value within limits for Sb 206.836  Recovery = 104.97%
Se 196.026†              297.1       0.239 mg/L        0.0036       0.239 mg/L        0.0036   1.49%
   QC value within limits for Se 196.026  Recovery = 95.63%
Si 251.611†               99.9    -0.00131 mg/L      0.000731    -0.00131 mg/L      0.000731  55.63%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -158.5     -0.0266 mg/L       0.00115     -0.0266 mg/L       0.00115   4.32%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -3241.8    -0.00191 mg/L      0.000131    -0.00191 mg/L      0.000131   6.88%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†             1013.8       0.513 mg/L        0.0078       0.513 mg/L        0.0078   1.52%
   QC value within limits for Tl 190.801  Recovery = 102.53%
V 290.880†             36301.8       0.247 mg/L        0.0028       0.247 mg/L        0.0028   1.14%
   QC value within limits for V 290.880  Recovery = 98.63%
Zn 206.200†            16061.4       0.451 mg/L        0.0094       0.451 mg/L        0.0094   2.08%
   QC value within limits for Zn 206.200  Recovery = 90.19%
K 766.490†             14037.5        5.02 mg/L         0.013        5.02 mg/L         0.013   0.26%
   QC value within limits for K 766.490  Recovery = 100.35%
Na 589.592†            67720.3        5.20 mg/L         0.011        5.20 mg/L         0.011   0.21%
   QC value within limits for Na 589.592  Recovery = 104.01%
Sr 407.771†            22972.6     0.00125 mg/L      0.000223     0.00125 mg/L      0.000223  17.83%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              112.0    -0.00059 mg/L      0.000441    -0.00059 mg/L      0.000441  74.25%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 10 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 10:47:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5408648.4						18249.57	0.34%
YRADIAL	343536.8						7438.80	2.17%
Ga 417.206	1525929.8						4677.91	0.31%
GaRADIAL	79356.3						711.38	0.90%
Ag 328.068†	76150.7	0.414	mg/L	0.0042	0.414	mg/L	0.0042	1.02%
QC value within limits for Ag 328.068 Recovery = 103.47%								
Al 396.153†	58189.5	10.4	mg/L	0.02	10.4	mg/L	0.02	0.17%
QC value within limits for Al 396.153 Recovery = 104.23%								

Approved: January 10, 2011

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As 188.979†              492.4       0.404 mg/L        0.0045       0.404 mg/L        0.0045   1.10%
   QC value within limits for As 188.979  Recovery = 101.06%
Ba 233.527†            68855.6        1.04 mg/L         0.008        1.04 mg/L         0.008   0.77%
   QC value within limits for Ba 233.527  Recovery = 103.97%
Be 234.861†            34354.5      0.0526 mg/L       0.00041      0.0526 mg/L       0.00041   0.78%
   QC value within limits for Be 234.861  Recovery = 105.16%
B 249.677†             25840.2       0.526 mg/L        0.0050       0.526 mg/L        0.0050   0.95%
   QC value within limits for B 249.677  Recovery = 105.28%
Ca 227.546†             1184.5        10.7 mg/L          0.07        10.7 mg/L          0.07   0.68%
   QC value within limits for Ca 227.546  Recovery = 107.35%
Cd 228.802†             1003.1      0.0498 mg/L       0.00034      0.0498 mg/L       0.00034   0.68%
   QC value within limits for Cd 228.802  Recovery = 99.62%
Co 228.616†             4245.7       0.203 mg/L        0.0013       0.203 mg/L        0.0013   0.66%
   QC value within limits for Co 228.616  Recovery = 101.46%
Cr 267.716†            60153.3       0.520 mg/L        0.0022       0.520 mg/L        0.0022   0.42%
   QC value within limits for Cr 267.716  Recovery = 104.08%
Cu 327.393†            71369.5       0.518 mg/L        0.0065       0.518 mg/L        0.0065   1.25%
   QC value within limits for Cu 327.393  Recovery = 103.53%
Fe 239.562†             2771.1        4.17 mg/L         0.043        4.17 mg/L         0.043   1.03%
   QC value within limits for Fe 239.562  Recovery = 104.14%
Mg 279.077†             9725.6        10.4 mg/L          0.14        10.4 mg/L          0.14   1.33%
   QC value within limits for Mg 279.077  Recovery = 104.40%
Mn 257.610†           231721.0       0.523 mg/L        0.0053       0.523 mg/L        0.0053   1.01%
   QC value within limits for Mn 257.610  Recovery = 104.58%
Mo 202.031†            16451.3        1.04 mg/L         0.009        1.04 mg/L         0.009   0.88%
   QC value within limits for Mo 202.031  Recovery = 104.17%
Ni 231.604†            19783.8       0.520 mg/L        0.0047       0.520 mg/L        0.0047   0.90%
   QC value within limits for Ni 231.604  Recovery = 104.01%
Pb 220.353†             3544.0       0.519 mg/L        0.0046       0.519 mg/L        0.0046   0.88%
   QC value within limits for Pb 220.353  Recovery = 103.72%
Sb 206.836†             2289.9        1.27 mg/L         0.012        1.27 mg/L         0.012   0.93%
   QC value within limits for Sb 206.836  Recovery = 105.64%
Se 196.026†              668.4       0.415 mg/L        0.0046       0.415 mg/L        0.0046   1.10%
   QC value within limits for Se 196.026  Recovery = 103.67%
Si 251.611†           175885.2        5.16 mg/L         0.050        5.16 mg/L         0.050   0.97%
   QC value within limits for Si 251.611  Recovery = 103.26%
Sn 189.927†             6676.2        1.03 mg/L         0.008        1.03 mg/L         0.008   0.81%
   QC value within limits for Sn 189.927  Recovery = 103.10%
Ti 334.940†           795280.8        1.03 mg/L         0.003        1.03 mg/L         0.003   0.31%
   QC value within limits for Ti 334.940  Recovery = 103.31%
Tl 190.801†              965.6       0.523 mg/L        0.0038       0.523 mg/L        0.0038   0.73%
   QC value within limits for Tl 190.801  Recovery = 104.67%
V 290.880†            157545.5        1.03 mg/L         0.011        1.03 mg/L         0.011   1.03%
   QC value within limits for V 290.880  Recovery = 102.58%
Zn 206.200†            36745.2        1.04 mg/L         0.009        1.04 mg/L         0.009   0.87%
   QC value within limits for Zn 206.200  Recovery = 103.91%
K 766.490†            141662.8        51.2 mg/L          0.36        51.2 mg/L          0.36   0.70%
   QC value within limits for K 766.490  Recovery = 102.31%
Na 589.592†           654236.6        51.1 mg/L          0.79        51.1 mg/L          0.79   1.55%
   QC value within limits for Na 589.592  Recovery = 102.21%
Sr 407.771†          1760190.7        1.04 mg/L         0.009        1.04 mg/L         0.009   0.89%
   QC value within limits for Sr 407.771  Recovery = 103.96%
Li 670.784†            86209.5        1.03 mg/L         0.015        1.03 mg/L         0.015   1.47%
   QC value within limits for Li 670.784  Recovery = 103.33%
All analyte(s) passed QC.

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Sequence No.: 11 | **Autosampler Location: 1**
Sample ID: CCB | **Date Collected: 1/7/2011 10:53:50 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5607860.8						33537.94	0.60%

Approved: January 10, 2011

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YRADIAL              358833.3                                                    6553.85   1.83%
Ga 417.206          1517185.8                                                   23274.91   1.53%
GaRADIAL              81561.6                                                    1209.35   1.48%
Ag 328.068†              -16.3    -0.00044 mg/L      0.000492    -0.00044 mg/L      0.000492 112.92%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†               8.9     -0.0205 mg/L       0.00936     -0.0205 mg/L       0.00936  45.65%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -1.9    -0.00108 mg/L      0.000812    -0.00108 mg/L      0.000812  75.36%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               1.1    -0.00394 mg/L      0.000094    -0.00394 mg/L      0.000094   2.38%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              -15.4    -0.00014 mg/L      0.000031    -0.00014 mg/L      0.000031  23.08%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               292.5     0.00415 mg/L      0.000332     0.00415 mg/L      0.000332   7.99%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               0.6     -0.0105 mg/L       0.03235     -0.0105 mg/L       0.03235 307.91%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†               0.0     0.00014 mg/L      0.000151     0.00014 mg/L      0.000151 108.03%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               3.4    -0.00062 mg/L      0.000285    -0.00062 mg/L      0.000285  45.82%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              10.1    -0.00185 mg/L      0.000031    -0.00185 mg/L      0.000031   1.65%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              53.3     0.00152 mg/L      0.000845     0.00152 mg/L      0.000845  55.77%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               2.5     -0.0151 mg/L       0.00518     -0.0151 mg/L       0.00518  34.36%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†              -1.4     -0.0514 mg/L       0.00819     -0.0514 mg/L       0.00819  15.93%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              -11.4    -0.00150 mg/L      0.000009    -0.00150 mg/L      0.000009   0.59%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               0.5    -0.00301 mg/L      0.000201    -0.00301 mg/L      0.000201   6.70%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -0.3    -0.00199 mg/L      0.000147    -0.00199 mg/L      0.000147   7.40%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -6.8    -0.00306 mg/L      0.000725    -0.00306 mg/L      0.000725  23.66%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -0.5    -0.00285 mg/L      0.000136    -0.00285 mg/L      0.000136   4.78%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               4.2    -0.00090 mg/L      0.003616    -0.00090 mg/L      0.003616 399.73%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -30.6    -0.00523 mg/L      0.000608    -0.00523 mg/L      0.000608  11.64%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -4.7    -0.00276 mg/L      0.000314    -0.00276 mg/L      0.000314  11.38%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              21.6    -0.00032 mg/L      0.000152    -0.00032 mg/L      0.000152  47.85%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -0.2    -0.00434 mg/L      0.001217    -0.00434 mg/L      0.001217  28.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               -79.1    -0.00094 mg/L      0.000180    -0.00094 mg/L      0.000180  19.08%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -43.9    -0.00344 mg/L      0.000111    -0.00344 mg/L      0.000111   3.23%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              -144.9     -0.0336 mg/L       0.03814     -0.0336 mg/L       0.03814 113.60%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -423.7     -0.0272 mg/L       0.01941     -0.0272 mg/L       0.01941  71.41%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             -243.6    -0.00357 mg/L      0.000240    -0.00357 mg/L      0.000240   6.72%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              -48.6    -0.00252 mg/L      0.001395    -0.00252 mg/L      0.001395  55.34%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 12 **Autosampler Location: 64**
Sample ID: L1012073806 **Date Collected: 1/7/2011 11:00:28 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012073806

Analyte	**Back Pressure**	**Flow**

Approved: January 10, 2011

All 172.0 kPa 0.50 L/min

Mean Data: L1012073806

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5606594.4						16240.70	0.29%
YRADIAL	368789.8						6505.50	1.76%
Ga 417.206	1621416.6						24698.89	1.52%
GaRADIAL	84215.5						918.33	1.09%
Ag 328.068†	-824.5	-0.00350	mg/L	0.000675	-0.00350	mg/L	0.000675	19.29%
Al 396.153†	31.4	-0.0144	mg/L	0.01110	-0.0144	mg/L	0.01110	77.15%
As 188.979†	5.9	0.00862	mg/L	0.003128	0.00862	mg/L	0.003128	36.29%
Ba 233.527†	8379.2	0.123	mg/L	0.0001	0.123	mg/L	0.0001	0.09%
Be 234.861†	4105.6	0.00013	mg/L	0.000011	0.00013	mg/L	0.000011	8.35%
B 249.677†	-2011.8	0.0775	mg/L	0.00143	0.0775	mg/L	0.00143	1.84%
Ca 227.546†	1866.3	16.2	mg/L	0.30	16.2	mg/L	0.30	1.84%
Cd 228.802†	-0.8	0.00007	mg/L	0.000115	0.00007	mg/L	0.000115	174.57%
Co 228.616†	19.1	-0.00058	mg/L	0.000207	-0.00058	mg/L	0.000207	35.85%
Cr 267.716†	39.2	-0.00064	mg/L	0.000066	-0.00064	mg/L	0.000066	10.28%
Cu 327.393†	-184.9	0.00167	mg/L	0.000665	0.00167	mg/L	0.000665	39.74%
Fe 239.562†	17033.5	25.7	mg/L	0.64	25.7	mg/L	0.64	2.50%
Mg 279.077†	5718.6	6.10	mg/L	0.118	6.10	mg/L	0.118	1.93%
Mn 257.610†	816432.4	1.83	mg/L	0.007	1.83	mg/L	0.007	0.37%
Mo 202.031†	-21.7	-0.00277	mg/L	0.000192	-0.00277	mg/L	0.000192	6.95%
Ni 231.604†	81.3	0.00015	mg/L	0.000412	0.00015	mg/L	0.000412	277.98%
Pb 220.353†	-11.7	-0.00439	mg/L	0.000533	-0.00439	mg/L	0.000533	12.15%
Sb 206.836†	13.9	0.00487	mg/L	0.002106	0.00487	mg/L	0.002106	43.27%
Se 196.026†	-16.6	-0.00629	mg/L	0.001389	-0.00629	mg/L	0.001389	22.10%
Si 251.611†	364058.2	10.7	mg/L	0.06	10.7	mg/L	0.06	0.59%
Sn 189.927†	-61.6	-0.0116	mg/L	0.00029	-0.0116	mg/L	0.00029	2.47%
Ti 334.940†	-58.3	-0.00026	mg/L	0.000191	-0.00026	mg/L	0.000191	73.15%
Tl 190.801†	33.0	0.0147	mg/L	0.00614	0.0147	mg/L	0.00614	41.82%
V 290.880†	81.8	-0.00071	mg/L	0.001000	-0.00071	mg/L	0.001000	140.39%
Zn 206.200†	-28.7	-0.00360	mg/L	0.000210	-0.00360	mg/L	0.000210	5.85%
K 766.490†	4846.8	1.71	mg/L	0.045	1.71	mg/L	0.045	2.65%
Na 589.592†	427668.5	33.2	mg/L	0.13	33.2	mg/L	0.13	0.40%
Sr 407.771†	133045.4	0.0731	mg/L	0.00030	0.0731	mg/L	0.00030	0.42%
Li 670.784†	-298.7	-0.00553	mg/L	0.000433	-0.00553	mg/L	0.000433	7.83%

Sequence No.: 13 **Autosampler Location: 65**
Sample ID: L1012073808 **Date Collected: 1/7/2011 11:06:11 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012073808

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012073808

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5725590.7						42361.87	0.74%
YRADIAL	373103.1						3862.45	1.04%
Ga 417.206	1583698.1						19805.40	1.25%
GaRADIAL	84826.9						2638.42	3.11%
Ag 328.068†	-22.9	-0.00047	mg/L	0.000603	-0.00047	mg/L	0.000603	128.13%
Al 396.153†	-57.8	-0.0325	mg/L	0.00397	-0.0325	mg/L	0.00397	12.22%
As 188.979†	1.3	0.00154	mg/L	0.002064	0.00154	mg/L	0.002064	133.93%
Ba 233.527†	-0.1	-0.00396	mg/L	0.000041	-0.00396	mg/L	0.000041	1.03%
Be 234.861†	11.9	-0.00010	mg/L	0.000028	-0.00010	mg/L	0.000028	28.44%
B 249.677†	211.5	0.00261	mg/L	0.000340	0.00261	mg/L	0.000340	13.03%
Ca 227.546†	7.1	0.0456	mg/L	0.02804	0.0456	mg/L	0.02804	61.53%
Cd 228.802†	-0.3	0.00011	mg/L	0.000049	0.00011	mg/L	0.000049	46.41%
Co 228.616†	3.3	-0.00063	mg/L	0.000102	-0.00063	mg/L	0.000102	16.21%
Cr 267.716†	60.2	-0.00141	mg/L	0.000220	-0.00141	mg/L	0.000220	15.59%
Cu 327.393†	-278.0	-0.00087	mg/L	0.000425	-0.00087	mg/L	0.000425	48.66%
Fe 239.562†	13.3	0.00120	mg/L	0.002434	0.00120	mg/L	0.002434	202.24%
Mg 279.077†	-3.3	-0.0536	mg/L	0.00449	-0.0536	mg/L	0.00449	8.38%

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Mn 257.610†	714.7	0.00014	mg/L	0.000011	0.00014	mg/L	0.000011	7.83%
Mo 202.031†	-2.8	-0.00322	mg/L	0.000327	-0.00322	mg/L	0.000327	10.15%
Ni 231.604†	-4.0	-0.00209	mg/L	0.000220	-0.00209	mg/L	0.000220	10.51%
Pb 220.353†	-8.6	-0.00332	mg/L	0.000849	-0.00332	mg/L	0.000849	25.61%
Sb 206.836†	-2.9	-0.00418	mg/L	0.000212	-0.00418	mg/L	0.000212	5.06%
Se 196.026†	2.7	-0.00187	mg/L	0.002550	-0.00187	mg/L	0.002550	136.47%
Si 251.611†	794.7	0.0191	mg/L	0.00028	0.0191	mg/L	0.00028	1.46%
Sn 189.927†	-9.8	-0.00356	mg/L	0.000748	-0.00356	mg/L	0.000748	21.02%
Ti 334.940†	87.8	-0.00023	mg/L	0.000162	-0.00023	mg/L	0.000162	70.22%
Tl 190.801†	7.2	-0.00038	mg/L	0.002284	-0.00038	mg/L	0.002284	602.63%
V 290.880†	-106.4	-0.00112	mg/L	0.000957	-0.00112	mg/L	0.000957	85.35%
Zn 206.200†	-136.8	-0.00607	mg/L	0.000151	-0.00607	mg/L	0.000151	2.49%
K 766.490†	-38.6	0.00397	mg/L	0.021268	0.00397	mg/L	0.021268	536.16%
Na 589.592†	3464.8	0.271	mg/L	0.0259	0.271	mg/L	0.0259	9.56%
Sr 407.771†	-381.9	-0.00366	mg/L	0.000116	-0.00366	mg/L	0.000116	3.18%
Li 670.784†	-160.4	-0.00386	mg/L	0.001183	-0.00386	mg/L	0.001183	30.62%

Sequence No.: 14 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 11:12:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5428430.9						44043.43	0.81%
YRADIAL	352098.9						2073.08	0.59%
Ga 417.206	1540759.3						14109.87	0.92%
GaRADIAL	82088.0						2007.05	2.44%
Ag 328.068†	74705.7	0.406	mg/L	0.0087	0.406	mg/L	0.0087	2.15%
QC value within limits for Ag 328.068 Recovery = 101.50%								
Al 396.153†	57147.8	10.2	mg/L	0.01	10.2	mg/L	0.01	0.10%
QC value within limits for Al 396.153 Recovery = 102.36%								
As 188.979†	485.8	0.399	mg/L	0.0032	0.399	mg/L	0.0032	0.80%
QC value within limits for As 188.979 Recovery = 99.70%								
Ba 233.527†	68248.8	1.03	mg/L	0.014	1.03	mg/L	0.014	1.36%
QC value within limits for Ba 233.527 Recovery = 103.05%								
Be 234.861†	33727.6	0.0516	mg/L	0.00109	0.0516	mg/L	0.00109	2.11%
QC value within limits for Be 234.861 Recovery = 103.26%								
B 249.677†	25453.3	0.519	mg/L	0.0113	0.519	mg/L	0.0113	2.18%
QC value within limits for B 249.677 Recovery = 103.73%								
Ca 227.546†	1171.6	10.6	mg/L	0.12	10.6	mg/L	0.12	1.17%
QC value within limits for Ca 227.546 Recovery = 106.21%								
Cd 228.802†	989.5	0.0492	mg/L	0.00024	0.0492	mg/L	0.00024	0.48%
QC value within limits for Cd 228.802 Recovery = 98.32%								
Co 228.616†	4229.8	0.202	mg/L	0.0017	0.202	mg/L	0.0017	0.83%
QC value within limits for Co 228.616 Recovery = 101.09%								
Cr 267.716†	59407.5	0.514	mg/L	0.0081	0.514	mg/L	0.0081	1.58%
QC value within limits for Cr 267.716 Recovery = 102.79%								
Cu 327.393†	69868.9	0.507	mg/L	0.0126	0.507	mg/L	0.0126	2.48%
QC value within limits for Cu 327.393 Recovery = 101.36%								
Fe 239.562†	2747.1	4.13	mg/L	0.079	4.13	mg/L	0.079	1.90%
QC value within limits for Fe 239.562 Recovery = 103.24%								
Mg 279.077†	9586.3	10.3	mg/L	0.15	10.3	mg/L	0.15	1.42%
QC value within limits for Mg 279.077 Recovery = 102.90%								
Mn 257.610†	229439.3	0.518	mg/L	0.0078	0.518	mg/L	0.0078	1.51%
QC value within limits for Mn 257.610 Recovery = 103.54%								
Mo 202.031†	16370.7	1.04	mg/L	0.014	1.04	mg/L	0.014	1.40%
QC value within limits for Mo 202.031 Recovery = 103.66%								
Ni 231.604†	19662.2	0.517	mg/L	0.0069	0.517	mg/L	0.0069	1.34%
QC value within limits for Ni 231.604 Recovery = 103.37%								
Pb 220.353†	3509.1	0.514	mg/L	0.0041	0.514	mg/L	0.0041	0.80%
QC value within limits for Pb 220.353 Recovery = 102.70%								
Sb 206.836†	2262.1	1.25	mg/L	0.013	1.25	mg/L	0.013	1.02%
QC value within limits for Sb 206.836 Recovery = 104.37%								

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Se 196.026†	665.7	0.413 mg/L	0.0077	0.413 mg/L	0.0077	1.86%
QC value within limits for Se 196.026 Recovery = 103.24%						
Si 251.611†	173051.0	5.08 mg/L	0.099	5.08 mg/L	0.099	1.96%
QC value within limits for Si 251.611 Recovery = 101.59%						
Sn 189.927†	6642.5	1.03 mg/L	0.007	1.03 mg/L	0.007	0.72%
QC value within limits for Sn 189.927 Recovery = 102.58%						
Ti 334.940†	786527.5	1.02 mg/L	0.004	1.02 mg/L	0.004	0.39%
QC value within limits for Ti 334.940 Recovery = 102.18%						
Tl 190.801†	962.0	0.521 mg/L	0.0061	0.521 mg/L	0.0061	1.17%
QC value within limits for Tl 190.801 Recovery = 104.25%						
V 290.880†	155680.9	1.01 mg/L	0.016	1.01 mg/L	0.016	1.54%
QC value within limits for V 290.880 Recovery = 101.36%						
Zn 206.200†	36501.4	1.03 mg/L	0.011	1.03 mg/L	0.011	1.09%
QC value within limits for Zn 206.200 Recovery = 103.21%						
K 766.490†	140003.7	50.5 mg/L	0.23	50.5 mg/L	0.23	0.46%
QC value within limits for K 766.490 Recovery = 101.10%						
Na 589.592†	636597.4	49.7 mg/L	1.88	49.7 mg/L	1.88	3.78%
QC value within limits for Na 589.592 Recovery = 99.40%						
Sr 407.771†	1733177.6	1.02 mg/L	0.015	1.02 mg/L	0.015	1.42%
QC value within limits for Sr 407.771 Recovery = 102.36%						
Li 670.784†	86010.2	1.03 mg/L	0.011	1.03 mg/L	0.011	1.02%
QC value within limits for Li 670.784 Recovery = 103.09%						

All analyte(s) passed QC.

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Sequence No.: 15 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 11:19:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5627133.7						12222.58	0.22%
YRADIAL	361331.5						2125.13	0.59%
Ga 417.206	1534301.7						17273.00	1.13%
GaRADIAL	82511.7						2353.52	2.85%
Ag 328.068†	-103.8	-0.00091	mg/L	0.000073	-0.00091	mg/L	0.000073	8.04%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-5.7	-0.0231	mg/L	0.00394	-0.0231	mg/L	0.00394	17.03%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.6	0.00092	mg/L	0.002269	0.00092	mg/L	0.002269	247.36%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	0.8	-0.00394	mg/L	0.000055	-0.00394	mg/L	0.000055	1.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-6.3	-0.00012	mg/L	0.000011	-0.00012	mg/L	0.000011	9.25%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	259.9	0.00349	mg/L	0.000166	0.00349	mg/L	0.000166	4.75%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	5.5	0.0311	mg/L	0.07020	0.0311	mg/L	0.07020	225.38%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-1.7	0.00004	mg/L	0.000020	0.00004	mg/L	0.000020	55.88%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.6	-0.00076	mg/L	0.000102	-0.00076	mg/L	0.000102	13.43%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-3.1	-0.00196	mg/L	0.000168	-0.00196	mg/L	0.000168	8.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	90.7	0.00179	mg/L	0.000598	0.00179	mg/L	0.000598	33.48%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.1	-0.0173	mg/L	0.00368	-0.0173	mg/L	0.00368	21.29%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-3.9	-0.0541	mg/L	0.00499	-0.0541	mg/L	0.00499	9.21%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-24.0	-0.00153	mg/L	0.000017	-0.00153	mg/L	0.000017	1.08%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.0	-0.00304	mg/L	0.000128	-0.00304	mg/L	0.000128	4.23%

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   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -8.3    -0.00221 mg/L      0.000182    -0.00221 mg/L      0.000182   8.25%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -9.7    -0.00349 mg/L      0.000914    -0.00349 mg/L      0.000914  26.21%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -3.8    -0.00463 mg/L      0.000528    -0.00463 mg/L      0.000528  11.40%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -2.0    -0.00474 mg/L      0.000300    -0.00474 mg/L      0.000300   6.32%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -29.6    -0.00520 mg/L      0.000433    -0.00520 mg/L      0.000433   8.34%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -2.7    -0.00245 mg/L      0.001206    -0.00245 mg/L      0.001206  49.27%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -66.9    -0.00043 mg/L      0.000078    -0.00043 mg/L      0.000078  18.02%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -0.1    -0.00429 mg/L      0.001349    -0.00429 mg/L      0.001349  31.43%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -71.5    -0.00089 mg/L      0.000837    -0.00089 mg/L      0.000837  93.70%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             -52.5    -0.00368 mg/L      0.000081    -0.00368 mg/L      0.000081   2.20%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              -23.5     0.00966 mg/L      0.021909     0.00966 mg/L      0.021909 226.90%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            -606.5     -0.0412 mg/L       0.01426     -0.0412 mg/L       0.01426  34.63%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            -418.2    -0.00368 mg/L      0.000059    -0.00368 mg/L      0.000059   1.60%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†            -283.2    -0.00534 mg/L      0.001059    -0.00534 mg/L      0.001059  19.84%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 16                                   Autosampler Location: 7
Sample ID: ICSA                                    Date Collected: 1/7/2011 11:26:14 AM
Analyst:                                           Data Type: Original
Initial Sample Wt:                                 Initial Sample Vol:
Dilution:                                          Sample Prep Vol:

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Nebulizer Parameters: ICSA
Analyte                 Back Pressure    Flow
All                     173.0 kPa        0.50 L/min

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Mean Data: ICSA
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5113470.6                                                      14094.51   0.28%
YRADIAL               353828.4                                                       6747.53   1.91%
Ga 417.206           1486755.0                                                      21452.58   1.44%
GaRADIAL               81548.2                                                       1318.33   1.62%
Ag 328.068†            -1436.6    -0.00217 mg/L      0.000350    -0.00217 mg/L      0.000350  16.11%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†          1358951.0         244 mg/L           3.6         244 mg/L           3.6   1.47%
   QC value within limits for Al 396.153  Recovery = 97.70%
As 188.979†               9.7    -0.00225 mg/L      0.003870    -0.00225 mg/L      0.003870 171.90%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              207.3    -0.00311 mg/L      0.000282    -0.00311 mg/L      0.000282   9.06%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†            15928.8     0.00037 mg/L      0.000812     0.00037 mg/L      0.000812 219.95%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†             -9538.8     -0.0115 mg/L       0.00596     -0.0115 mg/L       0.00596  51.59%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†            32810.8         283 mg/L           3.2         283 mg/L           3.2   1.15%
   QC value within limits for Ca 227.546  Recovery = 113.03%
Cd 228.802†               1.4     0.00015 mg/L      0.000196     0.00015 mg/L      0.000196 126.76%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              27.5    -0.00201 mg/L      0.000154    -0.00201 mg/L      0.000154   7.67%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              501.9    -0.00021 mg/L      0.000149    -0.00021 mg/L      0.000149  72.77%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -1245.2    -0.00071 mg/L      0.000173    -0.00071 mg/L      0.000173  24.26%
   QC value within limits for Cu 327.393  Recovery = Not calculated
```

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```
Fe 239.562†            64814.1        97.9 mg/L          0.86        97.9 mg/L          0.86   0.88%
   QC value within limits for Fe 239.562  Recovery = 97.88%
Mg 279.077†           232435.0         251 mg/L           2.3         251 mg/L           2.3   0.94%
   QC value within limits for Mg 279.077  Recovery = 100.21%
Mn 257.610†            -3762.5     0.00015 mg/L      0.000518     0.00015 mg/L      0.000518 339.86%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -68.8    -0.00258 mg/L      0.000614    -0.00258 mg/L      0.000614  23.85%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -77.8    -0.00407 mg/L      0.000478    -0.00407 mg/L      0.000478  11.75%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -238.3     0.00069 mg/L      0.001760     0.00069 mg/L      0.001760 253.25%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               78.7      0.0397 mg/L       0.00423      0.0397 mg/L       0.00423  10.65%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -99.9    -0.00593 mg/L      0.002354    -0.00593 mg/L      0.002354  39.72%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             1994.8      0.0545 mg/L       0.00006      0.0545 mg/L       0.00006   0.11%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -155.7     -0.0261 mg/L       0.00067     -0.0261 mg/L       0.00067   2.57%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -3529.6    -0.00212 mg/L      0.000147    -0.00212 mg/L      0.000147   6.93%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               97.1      0.0222 mg/L       0.00659      0.0222 mg/L       0.00659  29.69%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -898.5     0.00425 mg/L      0.001916     0.00425 mg/L      0.001916  45.05%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -36.7    -0.00547 mg/L      0.000177    -0.00547 mg/L      0.000177   3.25%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                 8.5      0.0211 mg/L       0.00604      0.0211 mg/L       0.00604  28.67%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -714.0     -0.0494 mg/L       0.00956     -0.0494 mg/L       0.00956  19.34%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            23125.1     0.00127 mg/L      0.000063     0.00127 mg/L      0.000063   4.92%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               26.4    -0.00162 mg/L      0.000211    -0.00162 mg/L      0.000211  13.01%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

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Sequence No.: 17 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 1/7/2011 11:31:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5158732.1						25849.51	0.50%
YRADIAL	346829.9						5994.97	1.73%
Ga 417.206	1484159.5						5064.61	0.34%
GaRADIAL	80765.8						758.63	0.94%
Ag 328.068†	93615.5	0.513	mg/L	0.0047	0.513	mg/L	0.0047	0.91%
QC value within limits for Ag 328.068 Recovery = 102.66%								
Al 396.153†	1374731.7	247	mg/L	6.7	247	mg/L	6.7	2.73%
QC value within limits for Al 396.153 Recovery = 98.83%								
As 188.979†	304.9	0.243	mg/L	0.0028	0.243	mg/L	0.0028	1.17%
QC value within limits for As 188.979 Recovery = 97.38%								
Ba 233.527†	16575.3	0.245	mg/L	0.0006	0.245	mg/L	0.0006	0.25%
QC value within limits for Ba 233.527 Recovery = 97.94%								
Be 234.861†	182679.7	0.253	mg/L	0.0016	0.253	mg/L	0.0016	0.64%
QC value within limits for Be 234.861 Recovery = 101.10%								
B 249.677†	-9788.0	-0.0303	mg/L	0.01193	-0.0303	mg/L	0.01193	39.37%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	32707.8	282	mg/L	1.8	282	mg/L	1.8	0.63%
QC value within limits for Ca 227.546 Recovery = 112.86%								
Cd 228.802†	10309.3	0.516	mg/L	0.0063	0.516	mg/L	0.0063	1.22%

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```
   QC value within limits for Cd 228.802  Recovery = 103.13%
Co 228.616†            4895.1       0.234 mg/L        0.0012       0.234 mg/L        0.0012   0.51%
   QC value within limits for Co 228.616  Recovery = 93.75%
Cr 267.716†           28861.3       0.246 mg/L        0.0006       0.246 mg/L        0.0006   0.24%
   QC value within limits for Cr 267.716  Recovery = 98.37%
Cu 327.393†           33956.7       0.253 mg/L        0.0024       0.253 mg/L        0.0024   0.95%
   QC value within limits for Cu 327.393  Recovery = 101.25%
Fe 239.562†           65326.0        98.6 mg/L          0.62        98.6 mg/L          0.62   0.62%
   QC value within limits for Fe 239.562  Recovery = 98.65%
Mg 279.077†          234109.1         252 mg/L           1.6         252 mg/L           1.6   0.63%
   QC value within limits for Mg 279.077  Recovery = 100.93%
Mn 257.610†          104832.7       0.245 mg/L        0.0007       0.245 mg/L        0.0007   0.27%
   QC value within limits for Mn 257.610  Recovery = 97.87%
Mo 202.031†             -67.9    -0.00241 mg/L      0.000361    -0.00241 mg/L      0.000361  14.96%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†           17728.9       0.466 mg/L        0.0021       0.466 mg/L        0.0021   0.44%
   QC value within limits for Ni 231.604  Recovery = 93.16%
Pb 220.353†            3108.4       0.487 mg/L        0.0034       0.487 mg/L        0.0034   0.71%
   QC value within limits for Pb 220.353  Recovery = 97.30%
Sb 206.836†            1014.8       0.545 mg/L        0.0031       0.545 mg/L        0.0031   0.58%
   QC value within limits for Sb 206.836  Recovery = 108.98%
Se 196.026†             302.5       0.244 mg/L        0.0097       0.244 mg/L        0.0097   3.95%
   QC value within limits for Se 196.026  Recovery = 97.74%
Si 251.611†             108.8    -0.00105 mg/L      0.001987    -0.00105 mg/L      0.001987 189.01%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†            -157.3     -0.0264 mg/L       0.00186     -0.0264 mg/L       0.00186   7.06%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†           -3320.9    -0.00193 mg/L      0.000326    -0.00193 mg/L      0.000326  16.90%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†            1022.0       0.516 mg/L        0.0080       0.516 mg/L        0.0080   1.55%
   QC value within limits for Tl 190.801  Recovery = 103.25%
V 290.880†            36505.3       0.248 mg/L        0.0025       0.248 mg/L        0.0025   1.01%
   QC value within limits for V 290.880  Recovery = 99.19%
Zn 206.200†           16215.0       0.455 mg/L        0.0018       0.455 mg/L        0.0018   0.41%
   QC value within limits for Zn 206.200  Recovery = 91.05%
K 766.490†            14028.4        5.01 mg/L         0.004        5.01 mg/L         0.004   0.09%
   QC value within limits for K 766.490  Recovery = 100.28%
Na 589.592†           68464.8        5.26 mg/L         0.008        5.26 mg/L         0.008   0.16%
   QC value within limits for Na 589.592  Recovery = 105.15%
Sr 407.771†           23276.4     0.00129 mg/L      0.000174     0.00129 mg/L      0.000174  13.50%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             202.3     0.00049 mg/L      0.001245     0.00049 mg/L      0.001245 253.52%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 18 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 11:37:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5284669.8						21786.02	0.41%
YRADIAL	345859.6						7859.17	2.27%
Ga 417.206	1509679.5						16591.95	1.10%
GaRADIAL	79905.8						797.33	1.00%
Ag 328.068†	75744.1	0.412	mg/L	0.0069	0.412	mg/L	0.0069	1.68%
QC value within limits for Ag 328.068 Recovery = 102.92%								
Al 396.153†	57988.6	10.4	mg/L	0.03	10.4	mg/L	0.03	0.26%
QC value within limits for Al 396.153 Recovery = 103.87%								
As 188.979†	492.8	0.405	mg/L	0.0069	0.405	mg/L	0.0069	1.71%
QC value within limits for As 188.979 Recovery = 101.15%								
Ba 233.527†	69403.7	1.05	mg/L	0.013	1.05	mg/L	0.013	1.21%
QC value within limits for Ba 233.527 Recovery = 104.80%								

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Be 234.861†	34065.7	0.0521 mg/L	0.00075	0.0521 mg/L	0.00075	1.44%
QC value within limits for Be 234.861 Recovery = 104.30%						
B 249.677†	25629.9	0.522 mg/L	0.0064	0.522 mg/L	0.0064	1.23%
QC value within limits for B 249.677 Recovery = 104.45%						
Ca 227.546†	1202.2	10.9 mg/L	0.06	10.9 mg/L	0.06	0.55%
QC value within limits for Ca 227.546 Recovery = 108.91%						
Cd 228.802†	1005.5	0.0500 mg/L	0.00108	0.0500 mg/L	0.00108	2.15%
QC value within limits for Cd 228.802 Recovery = 99.95%						
Co 228.616†	4331.0	0.207 mg/L	0.0016	0.207 mg/L	0.0016	0.78%
QC value within limits for Co 228.616 Recovery = 103.54%						
Cr 267.716†	60502.2	0.523 mg/L	0.0080	0.523 mg/L	0.0080	1.52%
QC value within limits for Cr 267.716 Recovery = 104.69%						
Cu 327.393†	70899.3	0.514 mg/L	0.0086	0.514 mg/L	0.0086	1.67%
QC value within limits for Cu 327.393 Recovery = 102.85%						
Fe 239.562†	2780.2	4.18 mg/L	0.079	4.18 mg/L	0.079	1.89%
QC value within limits for Fe 239.562 Recovery = 104.49%						
Mg 279.077†	9732.7	10.4 mg/L	0.22	10.4 mg/L	0.22	2.15%
QC value within limits for Mg 279.077 Recovery = 104.48%						
Mn 257.610†	233274.8	0.526 mg/L	0.0064	0.526 mg/L	0.0064	1.21%
QC value within limits for Mn 257.610 Recovery = 105.27%						
Mo 202.031†	16532.5	1.05 mg/L	0.012	1.05 mg/L	0.012	1.12%
QC value within limits for Mo 202.031 Recovery = 104.69%						
Ni 231.604†	19925.2	0.524 mg/L	0.0070	0.524 mg/L	0.0070	1.33%
QC value within limits for Ni 231.604 Recovery = 104.76%						
Pb 220.353†	3596.1	0.526 mg/L	0.0058	0.526 mg/L	0.0058	1.11%
QC value within limits for Pb 220.353 Recovery = 105.24%						
Sb 206.836†	2301.8	1.27 mg/L	0.012	1.27 mg/L	0.012	0.93%
QC value within limits for Sb 206.836 Recovery = 106.20%						
Se 196.026†	671.8	0.417 mg/L	0.0078	0.417 mg/L	0.0078	1.86%
QC value within limits for Se 196.026 Recovery = 104.20%						
Si 251.611†	174781.1	5.13 mg/L	0.071	5.13 mg/L	0.071	1.39%
QC value within limits for Si 251.611 Recovery = 102.61%						
Sn 189.927†	6795.1	1.05 mg/L	0.007	1.05 mg/L	0.007	0.66%
QC value within limits for Sn 189.927 Recovery = 104.94%						
Ti 334.940†	790312.8	1.03 mg/L	0.003	1.03 mg/L	0.003	0.27%
QC value within limits for Ti 334.940 Recovery = 102.67%						
Tl 190.801†	985.6	0.534 mg/L	0.0050	0.534 mg/L	0.0050	0.94%
QC value within limits for Tl 190.801 Recovery = 106.78%						
V 290.880†	158593.3	1.03 mg/L	0.014	1.03 mg/L	0.014	1.33%
QC value within limits for V 290.880 Recovery = 103.26%						
Zn 206.200†	37100.3	1.05 mg/L	0.012	1.05 mg/L	0.012	1.15%
QC value within limits for Zn 206.200 Recovery = 104.91%						
K 766.490†	141026.5	50.9 mg/L	0.30	50.9 mg/L	0.30	0.59%
QC value within limits for K 766.490 Recovery = 101.84%						
Na 589.592†	650155.3	50.8 mg/L	0.69	50.8 mg/L	0.69	1.35%
QC value within limits for Na 589.592 Recovery = 101.56%						
Sr 407.771†	1754484.8	1.04 mg/L	0.009	1.04 mg/L	0.009	0.87%
QC value within limits for Sr 407.771 Recovery = 103.62%						
Li 670.784†	85926.2	1.03 mg/L	0.012	1.03 mg/L	0.012	1.21%
QC value within limits for Li 670.784 Recovery = 102.99%						

All analyte(s) passed QC.

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Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 11:44:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5607966.6						44132.27	0.79%
YRADIAL	361079.0						1026.07	0.28%
Ga 417.206	1542672.4						24731.26	1.60%
GaRADIAL	82550.8						1079.15	1.31%
Ag 328.068†	-20.7	-0.00046	mg/L	0.000380	-0.00046	mg/L	0.000380	82.58%

Approved: January 10, 2011

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   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              42.1     -0.0145 mg/L       0.01091     -0.0145 mg/L       0.01091  75.05%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               1.0     0.00126 mg/L      0.001183     0.00126 mg/L      0.001183  93.96%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               3.9    -0.00390 mg/L      0.000250    -0.00390 mg/L      0.000250   6.42%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              -4.3    -0.00012 mg/L      0.000011    -0.00012 mg/L      0.000011   9.16%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              156.9     0.00139 mg/L      0.000478     0.00139 mg/L      0.000478  34.31%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†              -3.9     -0.0488 mg/L       0.06179     -0.0488 mg/L       0.06179 126.56%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†              -0.4     0.00010 mg/L      0.000110     0.00010 mg/L      0.000110 106.67%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               4.7    -0.00056 mg/L      0.000063    -0.00056 mg/L      0.000063  11.24%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -4.2    -0.00197 mg/L      0.000122    -0.00197 mg/L      0.000122   6.19%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†             -23.0     0.00096 mg/L      0.000618     0.00096 mg/L      0.000618  64.02%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†              -0.1     -0.0191 mg/L       0.00343     -0.0191 mg/L       0.00343  17.96%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†               3.2     -0.0465 mg/L       0.00172     -0.0465 mg/L       0.00172   3.69%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -47.1    -0.00158 mg/L      0.000017    -0.00158 mg/L      0.000017   1.10%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -0.4    -0.00307 mg/L      0.000200    -0.00307 mg/L      0.000200   6.52%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -5.1    -0.00212 mg/L      0.000079    -0.00212 mg/L      0.000079   3.75%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -6.9    -0.00308 mg/L      0.000158    -0.00308 mg/L      0.000158   5.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -1.0    -0.00310 mg/L      0.000921    -0.00310 mg/L      0.000921  29.67%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -0.5    -0.00388 mg/L      0.002090    -0.00388 mg/L      0.002090  53.86%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -71.6    -0.00643 mg/L      0.000458    -0.00643 mg/L      0.000458   7.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -6.1    -0.00298 mg/L      0.000516    -0.00298 mg/L      0.000516  17.29%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -58.4    -0.00042 mg/L      0.000103    -0.00042 mg/L      0.000103  24.53%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               3.1    -0.00258 mg/L      0.001576    -0.00258 mg/L      0.001576  61.03%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -105.7    -0.00112 mg/L      0.000844    -0.00112 mg/L      0.000844  75.68%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             -61.7    -0.00394 mg/L      0.000076    -0.00394 mg/L      0.000076   1.93%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              -48.6     0.00076 mg/L      0.041192     0.00076 mg/L      0.041192 >999.9%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            -743.5     -0.0517 mg/L       0.01155     -0.0517 mg/L       0.01155  22.36%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            -399.1    -0.00367 mg/L      0.000133    -0.00367 mg/L      0.000133   3.64%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†            -115.9    -0.00333 mg/L      0.000892    -0.00333 mg/L      0.000892  26.80%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 20 | **Autosampler Location: 38**
Sample ID: PBW B2 WG348213-02 | **Date Collected: 1/7/2011 11:50:56 AM**
Analyst: PDM | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: PBW B2 WG348213-02

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: PBW B2 WG348213-02

Approved: January 10, 2011

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5642574.2						28889.32	0.51%
YRADIAL	363664.5						6638.04	1.83%
Ga 417.206	1560236.6						12315.07	0.79%
GaRADIAL	83286.4						705.18	0.85%
Ag 328.068†	-77.2	-0.00077	mg/L	0.000498	-0.00077	mg/L	0.000498	65.12%
Al 396.153†	-112.3	-0.0423	mg/L	0.00543	-0.0423	mg/L	0.00543	12.83%
As 188.979†	-3.0	-0.00199	mg/L	0.002511	-0.00199	mg/L	0.002511	125.93%
Ba 233.527†	0.2	-0.00395	mg/L	0.000117	-0.00395	mg/L	0.000117	2.97%
Be 234.861†	7.1	-0.00010	mg/L	0.000024	-0.00010	mg/L	0.000024	23.66%
B 249.677†	84.6	-0.00001	mg/L	0.000083	-0.00001	mg/L	0.000083	725.98%
Ca 227.546†	1.8	-0.00020	mg/L	0.051169	-0.00020	mg/L	0.051169	>999.9%
Cd 228.802†	-3.2	-0.00002	mg/L	0.000212	-0.00002	mg/L	0.000212	>999.9%
Co 228.616†	-0.5	-0.00081	mg/L	0.000146	-0.00081	mg/L	0.000146	17.95%
Cr 267.716†	-17.1	-0.00208	mg/L	0.000063	-0.00208	mg/L	0.000063	3.02%
Cu 327.393†	-266.1	-0.00079	mg/L	0.000420	-0.00079	mg/L	0.000420	53.37%
Fe 239.562†	2.3	-0.0155	mg/L	0.00229	-0.0155	mg/L	0.00229	14.80%
Mg 279.077†	-1.4	-0.0515	mg/L	0.00374	-0.0515	mg/L	0.00374	7.26%
Mn 257.610†	-122.4	-0.00175	mg/L	0.000020	-0.00175	mg/L	0.000020	1.13%
Mo 202.031†	-4.5	-0.00333	mg/L	0.000318	-0.00333	mg/L	0.000318	9.57%
Ni 231.604†	-16.5	-0.00242	mg/L	0.000313	-0.00242	mg/L	0.000313	12.93%
Pb 220.353†	-9.6	-0.00347	mg/L	0.000208	-0.00347	mg/L	0.000208	5.98%
Sb 206.836†	-2.8	-0.00411	mg/L	0.001498	-0.00411	mg/L	0.001498	36.40%
Se 196.026†	-0.7	-0.00397	mg/L	0.002453	-0.00397	mg/L	0.002453	61.76%
Si 251.611†	34.1	-0.00332	mg/L	0.000274	-0.00332	mg/L	0.000274	8.28%
Sn 189.927†	-15.0	-0.00435	mg/L	0.001236	-0.00435	mg/L	0.001236	28.41%
Ti 334.940†	-1.2	-0.00035	mg/L	0.000226	-0.00035	mg/L	0.000226	65.11%
Tl 190.801†	4.5	-0.00187	mg/L	0.003223	-0.00187	mg/L	0.003223	172.41%
V 290.880†	-59.6	-0.00081	mg/L	0.001287	-0.00081	mg/L	0.001287	158.00%
Zn 206.200†	-156.4	-0.00662	mg/L	0.000059	-0.00662	mg/L	0.000059	0.90%
K 766.490†	-162.3	-0.0397	mg/L	0.02202	-0.0397	mg/L	0.02202	55.44%
Na 589.592†	-822.1	-0.0577	mg/L	0.00179	-0.0577	mg/L	0.00179	3.10%
Sr 407.771†	-557.5	-0.00376	mg/L	0.000067	-0.00376	mg/L	0.000067	1.79%
Li 670.784†	-197.1	-0.00430	mg/L	0.001413	-0.00430	mg/L	0.001413	32.81%

Sequence No.: 21
Sample ID: LCSW B2 WG348213-03
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 1/7/2011 11:57:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW B2 WG348213-03

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: LCSW B2 WG348213-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5548540.6						12960.78	0.23%
YRADIAL	361426.1						5942.77	1.64%
Ga 417.206	1580841.6						5762.94	0.36%
GaRADIAL	83293.6						1215.89	1.46%
Ag 328.068†	37099.3	0.201	mg/L	0.0031	0.201	mg/L	0.0031	1.54%
Al 396.153†	27948.6	4.99	mg/L	0.011	4.99	mg/L	0.011	0.22%
As 188.979†	236.3	0.194	mg/L	0.0020	0.194	mg/L	0.0020	1.04%
Ba 233.527†	33015.9	0.496	mg/L	0.0059	0.496	mg/L	0.0059	1.18%
Be 234.861†	16234.6	0.0248	mg/L	0.00039	0.0248	mg/L	0.00039	1.56%
B 249.677†	49367.1	0.997	mg/L	0.0212	0.997	mg/L	0.0212	2.13%
Ca 227.546†	571.5	5.17	mg/L	0.091	5.17	mg/L	0.091	1.76%
Cd 228.802†	474.8	0.0237	mg/L	0.00016	0.0237	mg/L	0.00016	0.66%
Co 228.616†	2065.5	0.0983	mg/L	0.00025	0.0983	mg/L	0.00025	0.26%
Cr 267.716†	28622.2	0.247	mg/L	0.0020	0.247	mg/L	0.0020	0.79%
Cu 327.393†	33958.6	0.247	mg/L	0.0063	0.247	mg/L	0.0063	2.54%
Fe 239.562†	1324.6	1.98	mg/L	0.022	1.98	mg/L	0.022	1.12%
Mg 279.077†	4680.4	5.00	mg/L	0.058	5.00	mg/L	0.058	1.15%
Mn 257.610†	111313.6	0.251	mg/L	0.0031	0.251	mg/L	0.0031	1.25%
Mo 202.031†	7862.2	0.496	mg/L	0.0083	0.496	mg/L	0.0083	1.68%
Ni 231.604†	9506.0	0.249	mg/L	0.0026	0.249	mg/L	0.0026	1.04%
Pb 220.353†	1703.2	0.248	mg/L	0.0016	0.248	mg/L	0.0016	0.64%

Approved: January 10, 2011

Sb 206.836†	1094.8	0.605 mg/L	0.0041	0.605 mg/L	0.0041	0.68%
Se 196.026†	319.4	0.196 mg/L	0.0018	0.196 mg/L	0.0018	0.94%
Si 251.611†	86163.3	2.53 mg/L	0.046	2.53 mg/L	0.046	1.81%
Sn 189.927†	3288.1	0.507 mg/L	0.0010	0.507 mg/L	0.0010	0.19%
Ti 334.940†	383601.5	0.498 mg/L	0.0073	0.498 mg/L	0.0073	1.46%
Tl 190.801†	469.1	0.252 mg/L	0.0029	0.252 mg/L	0.0029	1.16%
V 290.880†	75013.7	0.488 mg/L	0.0061	0.488 mg/L	0.0061	1.25%
Zn 206.200†	17390.2	0.491 mg/L	0.0051	0.491 mg/L	0.0051	1.03%
K 766.490†	68065.4	24.4 mg/L	0.05	24.4 mg/L	0.05	0.22%
Na 589.592†	338625.7	26.2 mg/L	0.58	26.2 mg/L	0.58	2.23%
Sr 407.771†	857092.9	0.504 mg/L	0.0026	0.504 mg/L	0.0026	0.51%
Li 670.784†	42200.0	0.505 mg/L	0.0024	0.505 mg/L	0.0024	0.47%

Sequence No.: 22 **Autosampler Location: 40**
Sample ID: FBLK WG348161-01 **Date Collected: 1/7/2011 12:04:18 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG348161-01

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: FBLK WG348161-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5774429.2						26848.62	0.46%
YRADIAL	371548.2						9859.40	2.65%
Ga 417.206	1585398.1						16636.45	1.05%
GaRADIAL	84950.7						2271.76	2.67%
Ag 328.068†	-14.4	-0.00043	mg/L	0.000322	-0.00043	mg/L	0.000322	75.46%
Al 396.153†	-54.4	-0.0319	mg/L	0.01159	-0.0319	mg/L	0.01159	36.38%
As 188.979†	1.7	0.00185	mg/L	0.002853	0.00185	mg/L	0.002853	154.33%
Ba 233.527†	-4.9	-0.00403	mg/L	0.000016	-0.00403	mg/L	0.000016	0.39%
Be 234.861†	-14.9	-0.00014	mg/L	0.000003	-0.00014	mg/L	0.000003	2.58%
B 249.677†	190.5	0.00211	mg/L	0.000099	0.00211	mg/L	0.000099	4.67%
Ca 227.546†	-0.1	-0.0165	mg/L	0.03655	-0.0165	mg/L	0.03655	221.23%
Cd 228.802†	-1.6	0.00004	mg/L	0.000080	0.00004	mg/L	0.000080	218.07%
Co 228.616†	-2.2	-0.00090	mg/L	0.000290	-0.00090	mg/L	0.000290	32.34%
Cr 267.716†	11.1	-0.00184	mg/L	0.000060	-0.00184	mg/L	0.000060	3.25%
Cu 327.393†	-222.6	-0.00048	mg/L	0.000305	-0.00048	mg/L	0.000305	64.12%
Fe 239.562†	2.5	-0.0151	mg/L	0.00067	-0.0151	mg/L	0.00067	4.45%
Mg 279.077†	-6.7	-0.0572	mg/L	0.00293	-0.0572	mg/L	0.00293	5.13%
Mn 257.610†	-146.3	-0.00180	mg/L	0.000015	-0.00180	mg/L	0.000015	0.82%
Mo 202.031†	-4.0	-0.00330	mg/L	0.000497	-0.00330	mg/L	0.000497	15.07%
Ni 231.604†	-19.6	-0.00251	mg/L	0.000241	-0.00251	mg/L	0.000241	9.63%
Pb 220.353†	-2.9	-0.00250	mg/L	0.000889	-0.00250	mg/L	0.000889	35.55%
Sb 206.836†	-4.5	-0.00502	mg/L	0.001060	-0.00502	mg/L	0.001060	21.11%
Se 196.026†	-0.9	-0.00411	mg/L	0.001066	-0.00411	mg/L	0.001066	25.92%
Si 251.611†	18.6	-0.00377	mg/L	0.000254	-0.00377	mg/L	0.000254	6.75%
Sn 189.927†	-11.4	-0.00380	mg/L	0.000236	-0.00380	mg/L	0.000236	6.20%
Ti 334.940†	-192.8	-0.00060	mg/L	0.000080	-0.00060	mg/L	0.000080	13.44%
Tl 190.801†	-0.2	-0.00438	mg/L	0.004260	-0.00438	mg/L	0.004260	97.18%
V 290.880†	-251.6	-0.00207	mg/L	0.000609	-0.00207	mg/L	0.000609	29.49%
Zn 206.200†	-23.2	-0.00286	mg/L	0.000192	-0.00286	mg/L	0.000192	6.71%
K 766.490†	-130.2	-0.0283	mg/L	0.01598	-0.0283	mg/L	0.01598	56.50%
Na 589.592†	-832.5	-0.0585	mg/L	0.01129	-0.0585	mg/L	0.01129	19.30%
Sr 407.771†	-546.5	-0.00375	mg/L	0.000151	-0.00375	mg/L	0.000151	4.01%
Li 670.784†	-168.3	-0.00396	mg/L	0.000129	-0.00396	mg/L	0.000129	3.25%

Sequence No.: 23 **Autosampler Location: 41**
Sample ID: L1011022902 **Date Collected: 1/7/2011 12:10:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022902

Analyte	Back Pressure	Flow

Approved: January 10, 2011

All 173.0 kPa 0.50 L/min

Mean Data: L1011022902

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5628859.9						19351.14	0.34%
YRADIAL	370524.2						3190.11	0.86%
Ga 417.206	1590738.9						9770.95	0.61%
GaRADIAL	85161.3						1969.90	2.31%
Ag 328.068†	-32.9	-0.00051	mg/L	0.000352	-0.00051	mg/L	0.000352	68.96%
Al 396.153†	305.5	0.0328	mg/L	0.00678	0.0328	mg/L	0.00678	20.65%
As 188.979†	2.0	0.00216	mg/L	0.001647	0.00216	mg/L	0.001647	76.39%
Ba 233.527†	630.1	0.00557	mg/L	0.000097	0.00557	mg/L	0.000097	1.74%
Be 234.861†	53.3	-0.00011	mg/L	0.000103	-0.00011	mg/L	0.000103	89.53%
B 249.677†	209.5	0.00410	mg/L	0.000118	0.00410	mg/L	0.000118	2.87%
Ca 227.546†	223.8	1.90	mg/L	0.031	1.90	mg/L	0.031	1.62%
Cd 228.802†	-3.8	-0.00007	mg/L	0.000109	-0.00007	mg/L	0.000109	145.72%
Co 228.616†	2.8	-0.00067	mg/L	0.000377	-0.00067	mg/L	0.000377	56.37%
Cr 267.716†	39.8	-0.00158	mg/L	0.000043	-0.00158	mg/L	0.000043	2.70%
Cu 327.393†	-257.7	-0.00070	mg/L	0.000411	-0.00070	mg/L	0.000411	58.69%
Fe 239.562†	240.7	0.345	mg/L	0.0046	0.345	mg/L	0.0046	1.34%
Mg 279.077†	860.4	0.878	mg/L	0.0168	0.878	mg/L	0.0168	1.91%
Mn 257.610†	13581.0	0.0300	mg/L	0.00052	0.0300	mg/L	0.00052	1.72%
Mo 202.031†	-3.9	-0.00326	mg/L	0.000458	-0.00326	mg/L	0.000458	14.04%
Ni 231.604†	14.6	-0.00160	mg/L	0.000122	-0.00160	mg/L	0.000122	7.60%
Pb 220.353†	-4.1	-0.00259	mg/L	0.000590	-0.00259	mg/L	0.000590	22.79%
Sb 206.836†	-0.5	-0.00287	mg/L	0.000662	-0.00287	mg/L	0.000662	23.03%
Se 196.026†	-1.7	-0.00411	mg/L	0.002057	-0.00411	mg/L	0.002057	50.10%
Si 251.611†	176223.6	5.19	mg/L	0.057	5.19	mg/L	0.057	1.11%
Sn 189.927†	-18.6	-0.00491	mg/L	0.000451	-0.00491	mg/L	0.000451	9.19%
Ti 334.940†	493.1	0.00031	mg/L	0.000096	0.00031	mg/L	0.000096	30.61%
Tl 190.801†	3.4	-0.00258	mg/L	0.000898	-0.00258	mg/L	0.000898	34.87%
V 290.880†	-68.1	-0.00083	mg/L	0.000591	-0.00083	mg/L	0.000591	70.95%
Zn 206.200†	11.6	-0.00188	mg/L	0.000076	-0.00188	mg/L	0.000076	4.03%
K 766.490†	1466.6	0.538	mg/L	0.0265	0.538	mg/L	0.0265	4.93%
Na 589.592†	25225.1	1.94	mg/L	0.033	1.94	mg/L	0.033	1.69%
Sr 407.771†	22951.6	0.0101	mg/L	0.00014	0.0101	mg/L	0.00014	1.36%
Li 670.784†	-16.4	-0.00213	mg/L	0.000550	-0.00213	mg/L	0.000550	25.76%

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Sequence No.: 24 **Autosampler Location: 42**
Sample ID: L1011022905 WG348213-01 **Date Collected: 1/7/2011 12:17:33 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022905 WG348213-01

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: L1011022905 WG348213-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5700044.8						89075.72	1.56%
YRADIAL	362360.1						6874.15	1.90%
Ga 417.206	1598839.5						28972.61	1.81%
GaRADIAL	84388.5						425.37	0.50%
Ag 328.068†	-102.6	-0.00089	mg/L	0.000707	-0.00089	mg/L	0.000707	79.60%
Al 396.153†	538.8	0.0748	mg/L	0.00533	0.0748	mg/L	0.00533	7.12%
As 188.979†	5.6	0.00513	mg/L	0.002117	0.00513	mg/L	0.002117	41.24%
Ba 233.527†	577.7	0.00477	mg/L	0.000218	0.00477	mg/L	0.000218	4.56%
Be 234.861†	100.0	-0.00005	mg/L	0.000043	-0.00005	mg/L	0.000043	92.73%
B 249.677†	184.4	0.00361	mg/L	0.000183	0.00361	mg/L	0.000183	5.08%
Ca 227.546†	198.7	1.68	mg/L	0.101	1.68	mg/L	0.101	6.03%
Cd 228.802†	-4.7	-0.00014	mg/L	0.000151	-0.00014	mg/L	0.000151	108.48%
Co 228.616†	4.4	-0.00059	mg/L	0.000166	-0.00059	mg/L	0.000166	28.19%
Cr 267.716†	28.8	-0.00168	mg/L	0.000033	-0.00168	mg/L	0.000033	1.96%
Cu 327.393†	-347.5	-0.00135	mg/L	0.000251	-0.00135	mg/L	0.000251	18.61%
Fe 239.562†	248.8	0.357	mg/L	0.0029	0.357	mg/L	0.0029	0.81%
Mg 279.077†	870.4	0.888	mg/L	0.0090	0.888	mg/L	0.0090	1.02%

Approved: January 10, 2011

Mn 257.610†	15581.5	0.0345 mg/L	0.00047	0.0345 mg/L	0.00047	1.36%
Mo 202.031†	-2.5	-0.00317 mg/L	0.000421	-0.00317 mg/L	0.000421	13.26%
Ni 231.604†	-3.1	-0.00207 mg/L	0.000229	-0.00207 mg/L	0.000229	11.08%
Pb 220.353†	-6.5	-0.00295 mg/L	0.000798	-0.00295 mg/L	0.000798	27.10%
Sb 206.836†	-0.8	-0.00307 mg/L	0.001413	-0.00307 mg/L	0.001413	46.07%
Se 196.026†	-0.1	-0.00312 mg/L	0.003604	-0.00312 mg/L	0.003604	115.46%
Si 251.611†	175126.8	5.16 mg/L	0.107	5.16 mg/L	0.107	2.08%
Sn 189.927†	-19.0	-0.00498 mg/L	0.000074	-0.00498 mg/L	0.000074	1.49%
Ti 334.940†	901.0	0.00084 mg/L	0.000315	0.00084 mg/L	0.000315	37.40%
Tl 190.801†	5.3	-0.00152 mg/L	0.006484	-0.00152 mg/L	0.006484	427.03%
V 290.880†	-164.5	-0.00146 mg/L	0.000886	-0.00146 mg/L	0.000886	60.65%
Zn 206.200†	-62.1	-0.00396 mg/L	0.000210	-0.00396 mg/L	0.000210	5.31%
K 766.490†	1213.7	0.448 mg/L	0.0324	0.448 mg/L	0.0324	7.23%
Na 589.592†	24307.9	1.87 mg/L	0.026	1.87 mg/L	0.026	1.41%
Sr 407.771†	20786.5	0.00886 mg/L	0.000111	0.00886 mg/L	0.000111	1.25%
Li 670.784†	-58.6	-0.00264 mg/L	0.000761	-0.00264 mg/L	0.000761	28.82%

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Sequence No.: 25 **Autosampler Location: 43**
Sample ID: L1011022908S WG348213-04 **Date Collected: 1/7/2011 12:24:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022908S WG348213-04

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011022908S WG348213-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5630670.6						69728.90	1.24%
YRADIAL	367742.7						4004.53	1.09%
Ga 417.206	1615531.4						24780.81	1.53%
GaRADIAL	84186.8						907.68	1.08%
Ag 328.068†	36231.9	0.197	mg/L	0.0026	0.197	mg/L	0.0026	1.34%
Al 396.153†	28660.6	5.12	mg/L	0.010	5.12	mg/L	0.010	0.20%
As 188.979†	226.9	0.187	mg/L	0.0025	0.187	mg/L	0.0025	1.32%
Ba 233.527†	33226.6	0.500	mg/L	0.0083	0.500	mg/L	0.0083	1.66%
Be 234.861†	16053.9	0.0244	mg/L	0.00024	0.0244	mg/L	0.00024	0.99%
B 249.677†	48458.7	0.980	mg/L	0.0182	0.980	mg/L	0.0182	1.85%
Ca 227.546†	754.6	6.73	mg/L	0.090	6.73	mg/L	0.090	1.33%
Cd 228.802†	459.5	0.0229	mg/L	0.00032	0.0229	mg/L	0.00032	1.40%
Co 228.616†	2028.6	0.0965	mg/L	0.00137	0.0965	mg/L	0.00137	1.42%
Cr 267.716†	28384.3	0.245	mg/L	0.0042	0.245	mg/L	0.0042	1.72%
Cu 327.393†	33464.7	0.243	mg/L	0.0034	0.243	mg/L	0.0034	1.39%
Fe 239.562†	1510.2	2.26	mg/L	0.025	2.26	mg/L	0.025	1.10%
Mg 279.077†	5517.0	5.90	mg/L	0.048	5.90	mg/L	0.048	0.81%
Mn 257.610†	122308.0	0.276	mg/L	0.0052	0.276	mg/L	0.0052	1.87%
Mo 202.031†	7741.2	0.489	mg/L	0.0095	0.489	mg/L	0.0095	1.95%
Ni 231.604†	9450.2	0.247	mg/L	0.0034	0.247	mg/L	0.0034	1.37%
Pb 220.353†	1669.2	0.243	mg/L	0.0034	0.243	mg/L	0.0034	1.38%
Sb 206.836†	1070.4	0.591	mg/L	0.0077	0.591	mg/L	0.0077	1.29%
Se 196.026†	310.2	0.191	mg/L	0.0013	0.191	mg/L	0.0013	0.66%
Si 251.611†	258893.6	7.62	mg/L	0.116	7.62	mg/L	0.116	1.52%
Sn 189.927†	3233.1	0.498	mg/L	0.0076	0.498	mg/L	0.0076	1.52%
Ti 334.940†	379869.2	0.493	mg/L	0.0104	0.493	mg/L	0.0104	2.12%
Tl 190.801†	465.8	0.250	mg/L	0.0042	0.250	mg/L	0.0042	1.67%
V 290.880†	74133.7	0.483	mg/L	0.0095	0.483	mg/L	0.0095	1.96%
Zn 206.200†	16974.7	0.479	mg/L	0.0085	0.479	mg/L	0.0085	1.77%
K 766.490†	69855.8	25.0	mg/L	0.05	25.0	mg/L	0.05	0.20%
Na 589.592†	363368.8	28.1	mg/L	0.34	28.1	mg/L	0.34	1.21%
Sr 407.771†	874075.2	0.515	mg/L	0.0040	0.515	mg/L	0.0040	0.79%
Li 670.784†	42345.2	0.507	mg/L	0.0077	0.507	mg/L	0.0077	1.53%

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Sequence No.: 26 **Autosampler Location: 44**
Sample ID: L1011022911SD WG348213-05 **Date Collected: 1/7/2011 12:30:52 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1011022911SD WG348213-05

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011022911SD WG348213-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5628563.1						20489.59	0.36%
YRADIAL	357695.3						11767.78	3.29%
Ga 417.206	1623365.9						3742.48	0.23%
GaRADIAL	82756.4						2933.59	3.54%
Ag 328.068†	36125.8	0.196	mg/L	0.0024	0.196	mg/L	0.0024	1.21%
Al 396.153†	28459.0	5.09	mg/L	0.015	5.09	mg/L	0.015	0.30%
As 188.979†	226.4	0.186	mg/L	0.0011	0.186	mg/L	0.0011	0.61%
Ba 233.527†	33256.7	0.500	mg/L	0.0021	0.500	mg/L	0.0021	0.43%
Be 234.861†	15869.5	0.0242	mg/L	0.00026	0.0242	mg/L	0.00026	1.08%
B 249.677†	48342.3	0.978	mg/L	0.0111	0.978	mg/L	0.0111	1.14%
Ca 227.546†	754.9	6.73	mg/L	0.038	6.73	mg/L	0.038	0.56%
Cd 228.802†	458.1	0.0229	mg/L	0.00039	0.0229	mg/L	0.00039	1.73%
Co 228.616†	2032.4	0.0967	mg/L	0.00046	0.0967	mg/L	0.00046	0.47%
Cr 267.716†	28367.0	0.244	mg/L	0.0018	0.244	mg/L	0.0018	0.73%
Cu 327.393†	33243.8	0.242	mg/L	0.0043	0.242	mg/L	0.0043	1.79%
Fe 239.562†	1534.4	2.30	mg/L	0.089	2.30	mg/L	0.089	3.89%
Mg 279.077†	5637.3	6.03	mg/L	0.221	6.03	mg/L	0.221	3.67%
Mn 257.610†	122513.8	0.277	mg/L	0.0013	0.277	mg/L	0.0013	0.48%
Mo 202.031†	7760.8	0.490	mg/L	0.0048	0.490	mg/L	0.0048	0.98%
Ni 231.604†	9361.6	0.245	mg/L	0.0035	0.245	mg/L	0.0035	1.41%
Pb 220.353†	1667.0	0.243	mg/L	0.0020	0.243	mg/L	0.0020	0.80%
Sb 206.836†	1066.6	0.589	mg/L	0.0011	0.589	mg/L	0.0011	0.19%
Se 196.026†	307.1	0.189	mg/L	0.0012	0.189	mg/L	0.0012	0.62%
Si 251.611†	258322.3	7.60	mg/L	0.077	7.60	mg/L	0.077	1.01%
Sn 189.927†	3219.6	0.496	mg/L	0.0012	0.496	mg/L	0.0012	0.25%
Ti 334.940†	380781.8	0.495	mg/L	0.0041	0.495	mg/L	0.0041	0.84%
Tl 190.801†	465.8	0.250	mg/L	0.0042	0.250	mg/L	0.0042	1.69%
V 290.880†	74207.8	0.483	mg/L	0.0037	0.483	mg/L	0.0037	0.77%
Zn 206.200†	16915.6	0.477	mg/L	0.0025	0.477	mg/L	0.0025	0.53%
K 766.490†	69357.8	24.9	mg/L	0.05	24.9	mg/L	0.05	0.20%
Na 589.592†	376812.0	29.2	mg/L	1.14	29.2	mg/L	1.14	3.92%
Sr 407.771†	914580.9	0.539	mg/L	0.0173	0.539	mg/L	0.0173	3.21%
Li 670.784†	42338.1	0.506	mg/L	0.0046	0.506	mg/L	0.0046	0.91%

Sequence No.: 27
Sample ID: L1011022914
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 1/7/2011 12:37:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1011022914

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011022914

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5655687.9						83696.03	1.48%
YRADIAL	365465.9						6682.16	1.83%
Ga 417.206	1591397.4						31295.34	1.97%
GaRADIAL	84774.5						2992.61	3.53%
Ag 328.068†	-74.7	-0.00074	mg/L	0.000143	-0.00074	mg/L	0.000143	19.37%
Al 396.153†	101.6	-0.00380	mg/L	0.007682	-0.00380	mg/L	0.007682	202.22%
As 188.979†	-2.2	-0.00137	mg/L	0.002780	-0.00137	mg/L	0.002780	202.86%
Ba 233.527†	665.5	0.00610	mg/L	0.000658	0.00610	mg/L	0.000658	10.78%
Be 234.861†	55.4	-0.00011	mg/L	0.000016	-0.00011	mg/L	0.000016	14.65%
B 249.677†	385.4	0.00762	mg/L	0.000396	0.00762	mg/L	0.000396	5.20%
Ca 227.546†	264.4	2.24	mg/L	0.026	2.24	mg/L	0.026	1.15%
Cd 228.802†	-5.4	-0.00013	mg/L	0.000091	-0.00013	mg/L	0.000091	69.30%
Co 228.616†	-2.8	-0.00094	mg/L	0.000113	-0.00094	mg/L	0.000113	12.03%

Approved: January 10, 2011

Cr 267.716†	20.9	-0.00174	mg/L	0.000052	-0.00174	mg/L	0.000052	3.01%
Cu 327.393†	-269.5	-0.00079	mg/L	0.000790	-0.00079	mg/L	0.000790	100.22%
Fe 239.562†	230.7	0.329	mg/L	0.0134	0.329	mg/L	0.0134	4.06%
Mg 279.077†	1070.9	1.10	mg/L	0.035	1.10	mg/L	0.035	3.19%
Mn 257.610†	9683.0	0.0213	mg/L	0.00056	0.0213	mg/L	0.00056	2.61%
Mo 202.031†	-2.2	-0.00316	mg/L	0.000104	-0.00316	mg/L	0.000104	3.28%
Ni 231.604†	2.9	-0.00191	mg/L	0.000068	-0.00191	mg/L	0.000068	3.56%
Pb 220.353†	-8.8	-0.00326	mg/L	0.000499	-0.00326	mg/L	0.000499	15.29%
Sb 206.836†	-0.4	-0.00284	mg/L	0.001480	-0.00284	mg/L	0.001480	52.18%
Se 196.026†	0.3	-0.00272	mg/L	0.002335	-0.00272	mg/L	0.002335	85.80%
Si 251.611†	188437.5	5.55	mg/L	0.149	5.55	mg/L	0.149	2.68%
Sn 189.927†	-18.7	-0.00494	mg/L	0.000585	-0.00494	mg/L	0.000585	11.85%
Ti 334.940†	249.2	0.00000	mg/L	0.000165	0.00000	mg/L	0.000165	>999.9%
Tl 190.801†	4.7	-0.00189	mg/L	0.003215	-0.00189	mg/L	0.003215	170.32%
V 290.880†	-318.3	-0.00245	mg/L	0.000780	-0.00245	mg/L	0.000780	31.88%
Zn 206.200†	-133.0	-0.00597	mg/L	0.000091	-0.00597	mg/L	0.000091	1.53%
K 766.490†	2022.2	0.736	mg/L	0.0266	0.736	mg/L	0.0266	3.61%
Na 589.592†	28644.8	2.20	mg/L	0.019	2.20	mg/L	0.019	0.86%
Sr 407.771†	25987.6	0.0119	mg/L	0.00017	0.0119	mg/L	0.00017	1.40%
Li 670.784†	-137.5	-0.00359	mg/L	0.000749	-0.00359	mg/L	0.000749	20.88%

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Sequence No.: 28 **Autosampler Location: 46**
Sample ID: L1011022914PS WG348257-03 **Date Collected: 1/7/2011 12:44:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022914PS WG348257-03

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011022914PS WG348257-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5567391.1						48982.37	0.88%
YRADIAL	367166.4						548.75	0.15%
Ga 417.206	1590228.5						12646.87	0.80%
GaRADIAL	84532.8						1496.44	1.77%
Ag 328.068†	36583.9	0.199	mg/L	0.0009	0.199	mg/L	0.0009	0.43%
Al 396.153†	28452.3	5.09	mg/L	0.017	5.09	mg/L	0.017	0.33%
As 188.979†	232.3	0.191	mg/L	0.0021	0.191	mg/L	0.0021	1.12%
Ba 233.527†	33342.4	0.501	mg/L	0.0062	0.501	mg/L	0.0062	1.24%
Be 234.861†	16164.6	0.0246	mg/L	0.00024	0.0246	mg/L	0.00024	0.96%
B 249.677†	49024.4	0.992	mg/L	0.0086	0.992	mg/L	0.0086	0.87%
Ca 227.546†	806.5	7.17	mg/L	0.134	7.17	mg/L	0.134	1.87%
Cd 228.802†	467.8	0.0233	mg/L	0.00019	0.0233	mg/L	0.00019	0.82%
Co 228.616†	2046.2	0.0974	mg/L	0.00123	0.0974	mg/L	0.00123	1.26%
Cr 267.716†	28350.5	0.244	mg/L	0.0034	0.244	mg/L	0.0034	1.37%
Cu 327.393†	33452.0	0.243	mg/L	0.0006	0.243	mg/L	0.0006	0.25%
Fe 239.562†	1504.3	2.25	mg/L	0.038	2.25	mg/L	0.038	1.70%
Mg 279.077†	5554.8	5.94	mg/L	0.070	5.94	mg/L	0.070	1.19%
Mn 257.610†	119410.6	0.270	mg/L	0.0031	0.270	mg/L	0.0031	1.16%
Mo 202.031†	7760.9	0.490	mg/L	0.0075	0.490	mg/L	0.0075	1.53%
Ni 231.604†	9459.4	0.248	mg/L	0.0051	0.248	mg/L	0.0051	2.07%
Pb 220.353†	1689.4	0.246	mg/L	0.0025	0.246	mg/L	0.0025	1.03%
Sb 206.836†	1103.8	0.604	mg/L	0.0070	0.604	mg/L	0.0070	1.16%
Se 196.026†	318.8	0.196	mg/L	0.0018	0.196	mg/L	0.0018	0.89%
Si 251.611†	251951.1	7.41	mg/L	0.064	7.41	mg/L	0.064	0.86%
Sn 189.927†	-39.7	-0.00817	mg/L	0.000635	-0.00817	mg/L	0.000635	7.77%
Ti 334.940†	381418.0	0.495	mg/L	0.0041	0.495	mg/L	0.0041	0.82%
Tl 190.801†	469.3	0.252	mg/L	0.0055	0.252	mg/L	0.0055	2.20%
V 290.880†	74406.8	0.484	mg/L	0.0039	0.484	mg/L	0.0039	0.81%
Zn 206.200†	17027.5	0.480	mg/L	0.0075	0.480	mg/L	0.0075	1.57%
K 766.490†	70836.5	25.4	mg/L	0.07	25.4	mg/L	0.07	0.28%
Na 589.592†	366586.8	28.4	mg/L	0.22	28.4	mg/L	0.22	0.78%
Sr 407.771†	884904.4	0.521	mg/L	0.0046	0.521	mg/L	0.0046	0.88%
Li 670.784†	42514.2	0.509	mg/L	0.0028	0.509	mg/L	0.0028	0.56%

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Sequence No.: 29 **Autosampler Location: 47**

Approved: January 10, 2011

Sample ID: L1011022914DL WG348257-04 **Date Collected: 1/7/2011 12:51:00 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022914DL WG348257-04

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011022914DL WG348257-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5571824.8						31299.07	0.56%
YRADIAL	353536.0						1500.36	0.42%
Ga 417.206	1543961.8						2969.64	0.19%
GaRADIAL	82025.0						1384.07	1.69%
Ag 328.068†	-42.0	-0.00057	mg/L	0.000472	-0.00057	mg/L	0.000472	82.38%
Al 396.153†	-85.0	-0.0374	mg/L	0.00396	-0.0374	mg/L	0.00396	10.59%
As 188.979†	0.3	0.00068	mg/L	0.001198	0.00068	mg/L	0.001198	175.46%
Ba 233.527†	190.1	-0.00108	mg/L	0.001898	-0.00108	mg/L	0.001898	175.00%
Be 234.861†	9.8	-0.00011	mg/L	0.000023	-0.00011	mg/L	0.000023	20.73%
B 249.677†	402.6	0.00668	mg/L	0.000078	0.00668	mg/L	0.000078	1.17%
Ca 227.546†	54.5	0.449	mg/L	0.0257	0.449	mg/L	0.0257	5.72%
Cd 228.802†	-3.7	-0.00006	mg/L	0.000214	-0.00006	mg/L	0.000214	350.36%
Co 228.616†	-0.3	-0.00081	mg/L	0.000210	-0.00081	mg/L	0.000210	25.97%
Cr 267.716†	-16.3	-0.00208	mg/L	0.000039	-0.00208	mg/L	0.000039	1.89%
Cu 327.393†	-262.3	-0.00076	mg/L	0.000072	-0.00076	mg/L	0.000072	9.53%
Fe 239.562†	42.6	0.0455	mg/L	0.00263	0.0455	mg/L	0.00263	5.78%
Mg 279.077†	213.5	0.180	mg/L	0.0010	0.180	mg/L	0.0010	0.54%
Mn 257.610†	1848.1	0.00289	mg/L	0.000015	0.00289	mg/L	0.000015	0.51%
Mo 202.031†	-0.0	-0.00304	mg/L	0.000100	-0.00304	mg/L	0.000100	3.28%
Ni 231.604†	-20.9	-0.00254	mg/L	0.000209	-0.00254	mg/L	0.000209	8.22%
Pb 220.353†	-0.1	-0.00208	mg/L	0.000957	-0.00208	mg/L	0.000957	46.07%
Sb 206.836†	-0.2	-0.00270	mg/L	0.003185	-0.00270	mg/L	0.003185	117.82%
Se 196.026†	-2.4	-0.00491	mg/L	0.002209	-0.00491	mg/L	0.002209	44.98%
Si 251.611†	38253.7	1.12	mg/L	0.011	1.12	mg/L	0.011	0.96%
Sn 189.927†	-19.1	-0.00499	mg/L	0.000377	-0.00499	mg/L	0.000377	7.56%
Ti 334.940†	28.5	-0.00030	mg/L	0.000018	-0.00030	mg/L	0.000018	5.92%
Tl 190.801†	2.1	-0.00315	mg/L	0.003218	-0.00315	mg/L	0.003218	102.17%
V 290.880†	-218.3	-0.00184	mg/L	0.000566	-0.00184	mg/L	0.000566	30.79%
Zn 206.200†	-169.9	-0.00701	mg/L	0.000093	-0.00701	mg/L	0.000093	1.33%
K 766.490†	235.1	0.101	mg/L	0.0278	0.101	mg/L	0.0278	27.46%
Na 589.592†	5033.7	0.391	mg/L	0.0133	0.391	mg/L	0.0133	3.41%
Sr 407.771†	4605.7	-0.00070	mg/L	0.000058	-0.00070	mg/L	0.000058	8.25%
Li 670.784†	-184.3	-0.00415	mg/L	0.001946	-0.00415	mg/L	0.001946	46.87%

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Sequence No.: 30 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 12:57:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5379312.0						56349.02	1.05%
YRADIAL	348753.2						2327.89	0.67%
Ga 417.206	1534758.3						18796.91	1.22%
GaRADIAL	81045.3						1688.25	2.08%
Ag 328.068†	74776.0	0.406	mg/L	0.0150	0.406	mg/L	0.0150	3.69%
QC value within limits for Ag 328.068 Recovery = 101.60%								
Al 396.153†	57637.4	10.3	mg/L	0.02	10.3	mg/L	0.02	0.16%
QC value within limits for Al 396.153 Recovery = 103.24%								
As 188.979†	480.4	0.394	mg/L	0.0083	0.394	mg/L	0.0083	2.10%

Approved: January 10, 2011

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   QC value within limits for As 188.979  Recovery = 98.60%
Ba 233.527†            67927.7        1.03 mg/L         0.038        1.03 mg/L         0.038   3.66%
   QC value within limits for Ba 233.527  Recovery = 102.57%
Be 234.861†            33476.4      0.0512 mg/L       0.00192      0.0512 mg/L       0.00192   3.74%
   QC value within limits for Be 234.861  Recovery = 102.46%
B 249.677†             25544.6       0.520 mg/L        0.0222       0.520 mg/L        0.0222   4.26%
   QC value within limits for B 249.677  Recovery = 104.09%
Ca 227.546†             1193.2        10.8 mg/L          0.21        10.8 mg/L          0.21   1.91%
   QC value within limits for Ca 227.546  Recovery = 108.02%
Cd 228.802†              979.1      0.0487 mg/L       0.00115      0.0487 mg/L       0.00115   2.36%
   QC value within limits for Cd 228.802  Recovery = 97.36%
Co 228.616†             4245.8       0.203 mg/L        0.0031       0.203 mg/L        0.0031   1.52%
   QC value within limits for Co 228.616  Recovery = 101.47%
Cr 267.716†            58944.4       0.510 mg/L        0.0179       0.510 mg/L        0.0179   3.50%
   QC value within limits for Cr 267.716  Recovery = 101.98%
Cu 327.393†            70447.5       0.511 mg/L        0.0206       0.511 mg/L        0.0206   4.03%
   QC value within limits for Cu 327.393  Recovery = 102.19%
Fe 239.562†             2758.2        4.15 mg/L         0.071        4.15 mg/L         0.071   1.72%
   QC value within limits for Fe 239.562  Recovery = 103.66%
Mg 279.077†             9602.7        10.3 mg/L          0.17        10.3 mg/L          0.17   1.66%
   QC value within limits for Mg 279.077  Recovery = 103.07%
Mn 257.610†           228376.6       0.515 mg/L        0.0190       0.515 mg/L        0.0190   3.69%
   QC value within limits for Mn 257.610  Recovery = 103.07%
Mo 202.031†            16196.3        1.03 mg/L         0.039        1.03 mg/L         0.039   3.81%
   QC value within limits for Mo 202.031  Recovery = 102.55%
Ni 231.604†            19506.6       0.513 mg/L        0.0187       0.513 mg/L        0.0187   3.66%
   QC value within limits for Ni 231.604  Recovery = 102.55%
Pb 220.353†             3518.8       0.515 mg/L        0.0068       0.515 mg/L        0.0068   1.33%
   QC value within limits for Pb 220.353  Recovery = 102.98%
Sb 206.836†             2271.4        1.26 mg/L         0.022        1.26 mg/L         0.022   1.73%
   QC value within limits for Sb 206.836  Recovery = 104.78%
Se 196.026†              659.4       0.409 mg/L        0.0088       0.409 mg/L        0.0088   2.16%
   QC value within limits for Se 196.026  Recovery = 102.27%
Si 251.611†           172620.9        5.07 mg/L         0.198        5.07 mg/L         0.198   3.91%
   QC value within limits for Si 251.611  Recovery = 101.34%
Sn 189.927†             6643.7        1.03 mg/L         0.015        1.03 mg/L         0.015   1.42%
   QC value within limits for Sn 189.927  Recovery = 102.60%
Ti 334.940†           787618.2        1.02 mg/L         0.002        1.02 mg/L         0.002   0.23%
   QC value within limits for Ti 334.940  Recovery = 102.32%
Tl 190.801†              969.9       0.525 mg/L        0.0066       0.525 mg/L        0.0066   1.26%
   QC value within limits for Tl 190.801  Recovery = 105.10%
V 290.880†            155297.2        1.01 mg/L         0.038        1.01 mg/L         0.038   3.81%
   QC value within limits for V 290.880  Recovery = 101.11%
Zn 206.200†            35658.9        1.01 mg/L         0.033        1.01 mg/L         0.033   3.25%
   QC value within limits for Zn 206.200  Recovery = 100.83%
K 766.490†            140621.9        50.8 mg/L          0.21        50.8 mg/L          0.21   0.42%
   QC value within limits for K 766.490  Recovery = 101.55%
Na 589.592†           647796.4        50.6 mg/L          0.56        50.6 mg/L          0.56   1.11%
   QC value within limits for Na 589.592  Recovery = 101.18%
Sr 407.771†          1757884.4        1.04 mg/L         0.011        1.04 mg/L         0.011   1.07%
   QC value within limits for Sr 407.771  Recovery = 103.82%
Li 670.784†            86218.0        1.03 mg/L         0.007        1.03 mg/L         0.007   0.72%
   QC value within limits for Li 670.784  Recovery = 103.34%
All analyte(s) passed QC.
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Sequence No.: 31 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 1:04:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5629661.2						102083.68	1.81%
YRADIAL	356748.9						7323.62	2.05%

Approved: January 10, 2011

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Ga 417.206          1535670.8                                                    36311.68   2.36%
GaRADIAL              81541.0                                                     1269.44   1.56%
Ag 328.068†             -42.7    -0.00058 mg/L      0.000177    -0.00058 mg/L      0.000177  30.50%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†             -47.6     -0.0306 mg/L       0.01100     -0.0306 mg/L       0.01100  35.88%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               0.2     0.00063 mg/L      0.003394     0.00063 mg/L      0.003394 535.41%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              36.7    -0.00340 mg/L      0.001114    -0.00340 mg/L      0.001114  32.76%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†             -10.8    -0.00013 mg/L      0.000031    -0.00013 mg/L      0.000031  23.86%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              381.1     0.00595 mg/L      0.000243     0.00595 mg/L      0.000243   4.08%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               -3.1     -0.0424 mg/L       0.03318     -0.0424 mg/L       0.03318  78.28%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†               -6.0    -0.00017 mg/L      0.000072    -0.00017 mg/L      0.000072  41.56%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                0.6    -0.00076 mg/L      0.000211    -0.00076 mg/L      0.000211  27.74%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -6.1    -0.00199 mg/L      0.000080    -0.00199 mg/L      0.000080   4.02%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†               -5.4     0.00109 mg/L      0.000314     0.00109 mg/L      0.000314  28.74%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                1.5     -0.0167 mg/L       0.00476     -0.0167 mg/L       0.00476  28.57%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†               -4.7     -0.0550 mg/L       0.00850     -0.0550 mg/L       0.00850  15.46%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              -83.7    -0.00166 mg/L      0.000032    -0.00166 mg/L      0.000032   1.90%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -2.8    -0.00322 mg/L      0.000169    -0.00322 mg/L      0.000169   5.24%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†                4.1    -0.00188 mg/L      0.000126    -0.00188 mg/L      0.000126   6.71%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -11.4    -0.00374 mg/L      0.001123    -0.00374 mg/L      0.001123  30.01%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -2.3    -0.00383 mg/L      0.001686    -0.00383 mg/L      0.001686  44.04%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.9    -0.00660 mg/L      0.002227    -0.00660 mg/L      0.002227  33.75%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -25.5    -0.00507 mg/L      0.000446    -0.00507 mg/L      0.000446   8.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -8.7    -0.00338 mg/L      0.000992    -0.00338 mg/L      0.000992  29.35%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              -41.3    -0.00040 mg/L      0.000080    -0.00040 mg/L      0.000080  20.03%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -1.6    -0.00512 mg/L      0.002044    -0.00512 mg/L      0.002044  39.89%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               -136.5    -0.00132 mg/L      0.000444    -0.00132 mg/L      0.000444  33.71%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -90.9    -0.00477 mg/L      0.000219    -0.00477 mg/L      0.000219   4.59%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              -123.9     -0.0261 mg/L       0.01467     -0.0261 mg/L       0.01467  56.29%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -734.2     -0.0510 mg/L       0.00585     -0.0510 mg/L       0.00585  11.49%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             -513.2    -0.00373 mg/L      0.000065    -0.00373 mg/L      0.000065   1.74%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -249.7    -0.00494 mg/L      0.001937    -0.00494 mg/L      0.001937  39.23%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 32 **Autosampler Location: 48**
Sample ID: L1011022917 **Date Collected: 1/7/2011 1:11:00 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022917

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Approved: January 10, 2011

Mean Data: L1011022917

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5733347.0						22412.75	0.39%
YRADIAL	365040.7						8373.61	2.29%
Ga 417.206	1622568.2						8279.06	0.51%
GaRADIAL	84872.4						439.22	0.52%
Ag 328.068†	-80.5	-0.00077	mg/L	0.000632	-0.00077	mg/L	0.000632	82.22%
Al 396.153†	152.0	0.00525	mg/L	0.011671	0.00525	mg/L	0.011671	222.19%
As 188.979†	5.1	0.00470	mg/L	0.004396	0.00470	mg/L	0.004396	93.49%
Ba 233.527†	652.6	0.00591	mg/L	0.000059	0.00591	mg/L	0.000059	0.99%
Be 234.861†	148.1	0.00003	mg/L	0.000045	0.00003	mg/L	0.000045	151.20%
B 249.677†	495.8	0.00987	mg/L	0.000320	0.00987	mg/L	0.000320	3.25%
Ca 227.546†	263.7	2.24	mg/L	0.031	2.24	mg/L	0.031	1.38%
Cd 228.802†	-5.9	-0.00019	mg/L	0.000114	-0.00019	mg/L	0.000114	58.66%
Co 228.616†	3.3	-0.00064	mg/L	0.000269	-0.00064	mg/L	0.000269	41.96%
Cr 267.716†	42.1	-0.00156	mg/L	0.000090	-0.00156	mg/L	0.000090	5.79%
Cu 327.393†	-202.0	-0.00030	mg/L	0.000367	-0.00030	mg/L	0.000367	122.16%
Fe 239.562†	234.8	0.336	mg/L	0.0066	0.336	mg/L	0.0066	1.96%
Mg 279.077†	1078.1	1.11	mg/L	0.025	1.11	mg/L	0.025	2.24%
Mn 257.610†	9787.2	0.0216	mg/L	0.00023	0.0216	mg/L	0.00023	1.08%
Mo 202.031†	-3.0	-0.00321	mg/L	0.000199	-0.00321	mg/L	0.000199	6.21%
Ni 231.604†	-4.3	-0.00210	mg/L	0.000279	-0.00210	mg/L	0.000279	13.28%
Pb 220.353†	-13.0	-0.00387	mg/L	0.000640	-0.00387	mg/L	0.000640	16.54%
Sb 206.836†	2.2	-0.00139	mg/L	0.000345	-0.00139	mg/L	0.000345	24.76%
Se 196.026†	-2.5	-0.00446	mg/L	0.002654	-0.00446	mg/L	0.002654	59.47%
Si 251.611†	188289.1	5.54	mg/L	0.061	5.54	mg/L	0.061	1.10%
Sn 189.927†	-18.3	-0.00487	mg/L	0.001093	-0.00487	mg/L	0.001093	22.45%
Ti 334.940†	350.5	0.00013	mg/L	0.000162	0.00013	mg/L	0.000162	121.47%
Tl 190.801†	3.8	-0.00239	mg/L	0.002369	-0.00239	mg/L	0.002369	99.17%
V 290.880†	-223.0	-0.00183	mg/L	0.001086	-0.00183	mg/L	0.001086	59.41%
Zn 206.200†	-122.6	-0.00567	mg/L	0.000180	-0.00567	mg/L	0.000180	3.17%
K 766.490†	2047.2	0.745	mg/L	0.0387	0.745	mg/L	0.0387	5.20%
Na 589.592†	29140.8	2.24	mg/L	0.054	2.24	mg/L	0.054	2.43%
Sr 407.771†	26491.5	0.0122	mg/L	0.00007	0.0122	mg/L	0.00007	0.53%
Li 670.784†	-52.2	-0.00256	mg/L	0.000488	-0.00256	mg/L	0.000488	19.02%

Sequence No.: 33
Sample ID: L1011022920
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 1/7/2011 1:17:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1011022920

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011022920

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5653846.9						35381.62	0.63%
YRADIAL	366062.5						6297.27	1.72%
Ga 417.206	1558864.6						17431.38	1.12%
GaRADIAL	84067.7						255.68	0.30%
Ag 328.068†	-101.9	-0.00090	mg/L	0.000529	-0.00090	mg/L	0.000529	58.80%
Al 396.153†	-115.0	-0.0428	mg/L	0.00316	-0.0428	mg/L	0.00316	7.38%
As 188.979†	-0.6	-0.00005	mg/L	0.001626	-0.00005	mg/L	0.001626	>999.9%
Ba 233.527†	16.4	-0.00371	mg/L	0.000568	-0.00371	mg/L	0.000568	15.31%
Be 234.861†	-8.7	-0.00012	mg/L	0.000012	-0.00012	mg/L	0.000012	9.89%
B 249.677†	342.3	0.00516	mg/L	0.000341	0.00516	mg/L	0.000341	6.60%
Ca 227.546†	-2.7	-0.0393	mg/L	0.13748	-0.0393	mg/L	0.13748	349.78%
Cd 228.802†	-2.2	0.00002	mg/L	0.000199	0.00002	mg/L	0.000199	868.37%
Co 228.616†	2.7	-0.00066	mg/L	0.000233	-0.00066	mg/L	0.000233	35.41%
Cr 267.716†	12.9	-0.00182	mg/L	0.000132	-0.00182	mg/L	0.000132	7.22%
Cu 327.393†	-289.3	-0.00096	mg/L	0.000361	-0.00096	mg/L	0.000361	37.73%
Fe 239.562†	-0.9	-0.0203	mg/L	0.00331	-0.0203	mg/L	0.00331	16.30%
Mg 279.077†	-7.6	-0.0582	mg/L	0.00276	-0.0582	mg/L	0.00276	4.75%
Mn 257.610†	-176.5	-0.00187	mg/L	0.000004	-0.00187	mg/L	0.000004	0.21%

Approved: January 10, 2011

Mo 202.031†	-4.9	-0.00336	mg/L	0.000275	-0.00336	mg/L	0.000275	8.19%
Ni 231.604†	-25.3	-0.00265	mg/L	0.000089	-0.00265	mg/L	0.000089	3.35%
Pb 220.353†	-11.0	-0.00367	mg/L	0.001344	-0.00367	mg/L	0.001344	36.63%
Sb 206.836†	-0.9	-0.00311	mg/L	0.001332	-0.00311	mg/L	0.001332	42.83%
Se 196.026†	1.6	-0.00254	mg/L	0.001982	-0.00254	mg/L	0.001982	77.94%
Si 251.611†	43.5	-0.00304	mg/L	0.000090	-0.00304	mg/L	0.000090	2.96%
Sn 189.927†	-12.3	-0.00394	mg/L	0.000930	-0.00394	mg/L	0.000930	23.61%
Ti 334.940†	10.4	-0.00033	mg/L	0.000139	-0.00033	mg/L	0.000139	41.95%
Tl 190.801†	1.1	-0.00368	mg/L	0.001661	-0.00368	mg/L	0.001661	45.10%
V 290.880†	-121.0	-0.00122	mg/L	0.000903	-0.00122	mg/L	0.000903	74.30%
Zn 206.200†	-142.3	-0.00622	mg/L	0.000179	-0.00622	mg/L	0.000179	2.88%
K 766.490†	-161.7	-0.0395	mg/L	0.01853	-0.0395	mg/L	0.01853	46.92%
Na 589.592†	-1162.6	-0.0838	mg/L	0.00978	-0.0838	mg/L	0.00978	11.67%
Sr 407.771†	-749.0	-0.00387	mg/L	0.000116	-0.00387	mg/L	0.000116	2.98%
Li 670.784†	-215.2	-0.00452	mg/L	0.002020	-0.00452	mg/L	0.002020	44.67%

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Sequence No.: 34 **Autosampler Location: 50**
Sample ID: L1011022923 **Date Collected: 1/7/2011 1:24:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011022923

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011022923

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5681594.7						96629.75	1.70%
YRADIAL	361581.1						6891.25	1.91%
Ga 417.206	1580211.4						21196.95	1.34%
GaRADIAL	82996.5						1233.87	1.49%
Ag 328.068†	-9.7	-0.00040	mg/L	0.000451	-0.00040	mg/L	0.000451	112.58%
Al 396.153†	-82.1	-0.0368	mg/L	0.01965	-0.0368	mg/L	0.01965	53.32%
As 188.979†	-1.2	-0.00054	mg/L	0.001189	-0.00054	mg/L	0.001189	219.93%
Ba 233.527†	-17.1	-0.00422	mg/L	0.000079	-0.00422	mg/L	0.000079	1.88%
Be 234.861†	7.1	-0.00010	mg/L	0.000027	-0.00010	mg/L	0.000027	26.70%
B 249.677†	314.7	0.00460	mg/L	0.000155	0.00460	mg/L	0.000155	3.37%
Ca 227.546†	-0.3	-0.0186	mg/L	0.04544	-0.0186	mg/L	0.04544	243.92%
Cd 228.802†	-4.9	-0.00011	mg/L	0.000194	-0.00011	mg/L	0.000194	172.01%
Co 228.616†	1.0	-0.00074	mg/L	0.000078	-0.00074	mg/L	0.000078	10.53%
Cr 267.716†	-3.4	-0.00197	mg/L	0.000086	-0.00197	mg/L	0.000086	4.39%
Cu 327.393†	-258.1	-0.00073	mg/L	0.000546	-0.00073	mg/L	0.000546	74.74%
Fe 239.562†	-0.8	-0.0201	mg/L	0.00382	-0.0201	mg/L	0.00382	18.95%
Mg 279.077†	-3.1	-0.0533	mg/L	0.00356	-0.0533	mg/L	0.00356	6.69%
Mn 257.610†	-175.5	-0.00187	mg/L	0.000013	-0.00187	mg/L	0.000013	0.69%
Mo 202.031†	-7.7	-0.00353	mg/L	0.000109	-0.00353	mg/L	0.000109	3.09%
Ni 231.604†	-20.0	-0.00252	mg/L	0.000172	-0.00252	mg/L	0.000172	6.85%
Pb 220.353†	-5.9	-0.00293	mg/L	0.000706	-0.00293	mg/L	0.000706	24.06%
Sb 206.836†	-2.1	-0.00376	mg/L	0.001807	-0.00376	mg/L	0.001807	48.06%
Se 196.026†	1.7	-0.00247	mg/L	0.003215	-0.00247	mg/L	0.003215	130.36%
Si 251.611†	29.9	-0.00343	mg/L	0.000358	-0.00343	mg/L	0.000358	10.42%
Sn 189.927†	-12.9	-0.00403	mg/L	0.000594	-0.00403	mg/L	0.000594	14.74%
Ti 334.940†	-71.3	-0.00044	mg/L	0.000134	-0.00044	mg/L	0.000134	30.58%
Tl 190.801†	1.2	-0.00360	mg/L	0.001707	-0.00360	mg/L	0.001707	47.41%
V 290.880†	-168.0	-0.00152	mg/L	0.000854	-0.00152	mg/L	0.000854	56.14%
Zn 206.200†	-176.2	-0.00718	mg/L	0.000100	-0.00718	mg/L	0.000100	1.39%
K 766.490†	-188.5	-0.0490	mg/L	0.02534	-0.0490	mg/L	0.02534	51.67%
Na 589.592†	-1141.4	-0.0821	mg/L	0.00709	-0.0821	mg/L	0.00709	8.63%
Sr 407.771†	-641.1	-0.00381	mg/L	0.000161	-0.00381	mg/L	0.000161	4.22%
Li 670.784†	-350.4	-0.00615	mg/L	0.001761	-0.00615	mg/L	0.001761	28.65%

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Sequence No.: 35 **Autosampler Location: 51**
Sample ID: L1011027702 **Date Collected: 1/7/2011 1:30:58 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1011027702

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011027702

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5491547.0						46564.22	0.85%
YRADIAL	360460.5						8640.26	2.40%
Ga 417.206	1640351.4						5664.73	0.35%
GaRADIAL	85059.4						2199.76	2.59%
Ag 328.068†	809.8	0.00399	mg/L	0.000441	0.00399	mg/L	0.000441	11.05%
Al 396.153†	506.6	0.0690	mg/L	0.01312	0.0690	mg/L	0.01312	19.02%
As 188.979†	27.9	0.0220	mg/L	0.00324	0.0220	mg/L	0.00324	14.73%
Ba 233.527†	2672.8	0.0364	mg/L	0.00037	0.0364	mg/L	0.00037	1.00%
Be 234.861†	59.7	-0.00005	mg/L	0.000023	-0.00005	mg/L	0.000023	47.98%
B 249.677†	2914.2	0.0575	mg/L	0.00073	0.0575	mg/L	0.00073	1.28%
Ca 227.546†	9217.5	79.1	mg/L	0.70	79.1	mg/L	0.70	0.88%
Cd 228.802†	-6.2	-0.00034	mg/L	0.000030	-0.00034	mg/L	0.000030	8.72%
Co 228.616†	-6.0	-0.00110	mg/L	0.000087	-0.00110	mg/L	0.000087	7.96%
Cr 267.716†	343.8	0.00105	mg/L	0.000100	0.00105	mg/L	0.000100	9.56%
Cu 327.393†	2756.4	0.0210	mg/L	0.00108	0.0210	mg/L	0.00108	5.16%
Fe 239.562†	77.2	0.0976	mg/L	0.00842	0.0976	mg/L	0.00842	8.62%
Mg 279.077†	5130.5	5.48	mg/L	0.128	5.48	mg/L	0.128	2.34%
Mn 257.610†	1924.1	0.00381	mg/L	0.000046	0.00381	mg/L	0.000046	1.21%
Mo 202.031†	14.6	-0.00211	mg/L	0.000354	-0.00211	mg/L	0.000354	16.83%
Ni 231.604†	-27.4	-0.00273	mg/L	0.000125	-0.00273	mg/L	0.000125	4.59%
Pb 220.353†	-29.5	-0.00256	mg/L	0.000250	-0.00256	mg/L	0.000250	9.76%
Sb 206.836†	48.0	0.0233	mg/L	0.00314	0.0233	mg/L	0.00314	13.49%
Se 196.026†	-34.6	-0.00525	mg/L	0.006887	-0.00525	mg/L	0.006887	131.07%
Si 251.611†	115342.6	3.39	mg/L	0.053	3.39	mg/L	0.053	1.56%
Sn 189.927†	-111.6	-0.0193	mg/L	0.00167	-0.0193	mg/L	0.00167	8.68%
Ti 334.940†	152.7	0.00064	mg/L	0.000245	0.00064	mg/L	0.000245	38.07%
Tl 190.801†	66.5	0.0242	mg/L	0.00173	0.0242	mg/L	0.00173	7.14%
V 290.880†	-205.2	-0.00144	mg/L	0.001123	-0.00144	mg/L	0.001123	77.76%
Zn 206.200†	25.8	-0.00145	mg/L	0.000117	-0.00145	mg/L	0.000117	8.10%
K 766.490†	13016.0	4.64	mg/L	0.080	4.64	mg/L	0.080	1.71%
Na 589.592†	208073.5	16.0	mg/L	0.22	16.0	mg/L	0.22	1.36%
Sr 407.771†	429536.7	0.251	mg/L	0.0022	0.251	mg/L	0.0022	0.88%
Li 670.784†	-203.0	-0.00438	mg/L	0.001150	-0.00438	mg/L	0.001150	26.27%

Sequence No.: 36
Sample ID: L1011028901
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 1/7/2011 1:37:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1011028901

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011028901

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5438332.4						48793.11	0.90%
YRADIAL	360675.7						5454.58	1.51%
Ga 417.206	1607233.4						12814.42	0.80%
GaRADIAL	84541.1						1435.47	1.70%
Ag 328.068†	453.8	0.00209	mg/L	0.000528	0.00209	mg/L	0.000528	25.27%
Al 396.153†	-22.5	-0.0261	mg/L	0.00500	-0.0261	mg/L	0.00500	19.15%
As 188.979†	23.5	0.0188	mg/L	0.00225	0.0188	mg/L	0.00225	11.96%
Ba 233.527†	1748.5	0.0225	mg/L	0.00031	0.0225	mg/L	0.00031	1.36%
Be 234.861†	145.0	-0.00003	mg/L	0.000022	-0.00003	mg/L	0.000022	70.52%
B 249.677†	1398.5	0.0294	mg/L	0.00042	0.0294	mg/L	0.00042	1.43%
Ca 227.546†	7131.1	61.2	mg/L	0.61	61.2	mg/L	0.61	0.99%
Cd 228.802†	-5.8	-0.00029	mg/L	0.000169	-0.00029	mg/L	0.000169	57.48%
Co 228.616†	0.9	-0.00077	mg/L	0.000125	-0.00077	mg/L	0.000125	16.18%
Cr 267.716†	22.7	-0.00174	mg/L	0.000044	-0.00174	mg/L	0.000044	2.50%

Approved: January 10, 2011

Cu 327.393†	-300.5	-0.00099	mg/L	0.000275	-0.00099	mg/L	0.000275	27.80%
Fe 239.562†	417.8	0.612	mg/L	0.0098	0.612	mg/L	0.0098	1.60%
Mg 279.077†	8453.9	9.07	mg/L	0.242	9.07	mg/L	0.242	2.67%
Mn 257.610†	44127.8	0.0984	mg/L	0.00069	0.0984	mg/L	0.00069	0.70%
Mo 202.031†	2.3	-0.00285	mg/L	0.000207	-0.00285	mg/L	0.000207	7.27%
Ni 231.604†	-23.7	-0.00263	mg/L	0.000162	-0.00263	mg/L	0.000162	6.16%
Pb 220.353†	-37.5	-0.00462	mg/L	0.000990	-0.00462	mg/L	0.000990	21.41%
Sb 206.836†	44.6	0.0214	mg/L	0.00105	0.0214	mg/L	0.00105	4.91%
Se 196.026†	-36.2	-0.0107	mg/L	0.00243	-0.0107	mg/L	0.00243	22.66%
Si 251.611†	144686.1	4.26	mg/L	0.019	4.26	mg/L	0.019	0.45%
Sn 189.927†	-114.3	-0.0197	mg/L	0.00075	-0.0197	mg/L	0.00075	3.83%
Ti 334.940†	-622.4	-0.00054	mg/L	0.000151	-0.00054	mg/L	0.000151	27.90%
Tl 190.801†	58.3	0.0215	mg/L	0.00407	0.0215	mg/L	0.00407	18.93%
V 290.880†	-496.9	-0.00315	mg/L	0.000586	-0.00315	mg/L	0.000586	18.59%
Zn 206.200†	25.9	-0.00148	mg/L	0.000189	-0.00148	mg/L	0.000189	12.80%
K 766.490†	8823.8	3.16	mg/L	0.103	3.16	mg/L	0.103	3.25%
Na 589.592†	88029.4	6.76	mg/L	0.073	6.76	mg/L	0.073	1.07%
Sr 407.771†	360703.8	0.210	mg/L	0.0029	0.210	mg/L	0.0029	1.37%
Li 670.784†	-306.8	-0.00562	mg/L	0.001384	-0.00562	mg/L	0.001384	24.61%

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Sequence No.: 37 **Autosampler Location: 53**
Sample ID: L1011029101 **Date Collected: 1/7/2011 1:44:27 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029101

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011029101

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5520028.1						50913.04	0.92%
YRADIAL	356228.8						5278.38	1.48%
Ga 417.206	1626371.4						8496.41	0.52%
GaRADIAL	83316.5						1069.98	1.28%
Ag 328.068†	556.7	0.00265	mg/L	0.000511	0.00265	mg/L	0.000511	19.30%
Al 396.153†	-93.0	-0.0388	mg/L	0.00587	-0.0388	mg/L	0.00587	15.13%
As 188.979†	19.6	0.0153	mg/L	0.00185	0.0153	mg/L	0.00185	12.08%
Ba 233.527†	1304.2	0.0157	mg/L	0.00007	0.0157	mg/L	0.00007	0.42%
Be 234.861†	55.0	-0.00004	mg/L	0.000003	-0.00004	mg/L	0.000003	9.44%
B 249.677†	1475.6	0.0282	mg/L	0.00052	0.0282	mg/L	0.00052	1.85%
Ca 227.546†	8132.7	69.8	mg/L	0.91	69.8	mg/L	0.91	1.31%
Cd 228.802†	-7.7	-0.00037	mg/L	0.000128	-0.00037	mg/L	0.000128	34.82%
Co 228.616†	-1.9	-0.00089	mg/L	0.000098	-0.00089	mg/L	0.000098	11.07%
Cr 267.716†	406.4	0.00159	mg/L	0.000028	0.00159	mg/L	0.000028	1.78%
Cu 327.393†	-334.5	-0.00128	mg/L	0.000292	-0.00128	mg/L	0.000292	22.84%
Fe 239.562†	23.9	0.0169	mg/L	0.00246	0.0169	mg/L	0.00246	14.58%
Mg 279.077†	10914.3	11.7	mg/L	0.02	11.7	mg/L	0.02	0.16%
Mn 257.610†	-13.5	-0.00081	mg/L	0.000022	-0.00081	mg/L	0.000022	2.73%
Mo 202.031†	-0.7	-0.00308	mg/L	0.000178	-0.00308	mg/L	0.000178	5.76%
Ni 231.604†	8.1	-0.00179	mg/L	0.000078	-0.00179	mg/L	0.000078	4.33%
Pb 220.353†	-46.2	-0.00543	mg/L	0.001030	-0.00543	mg/L	0.001030	18.97%
Sb 206.836†	46.0	0.0221	mg/L	0.00282	0.0221	mg/L	0.00282	12.74%
Se 196.026†	-30.2	-0.00490	mg/L	0.003196	-0.00490	mg/L	0.003196	65.20%
Si 251.611†	117169.8	3.45	mg/L	0.020	3.45	mg/L	0.020	0.59%
Sn 189.927†	-113.6	-0.0196	mg/L	0.00091	-0.0196	mg/L	0.00091	4.63%
Ti 334.940†	-1226.0	-0.00124	mg/L	0.000204	-0.00124	mg/L	0.000204	16.43%
Tl 190.801†	62.9	0.0230	mg/L	0.00225	0.0230	mg/L	0.00225	9.75%
V 290.880†	-773.5	-0.00477	mg/L	0.001180	-0.00477	mg/L	0.001180	24.76%
Zn 206.200†	-93.4	-0.00482	mg/L	0.000021	-0.00482	mg/L	0.000021	0.44%
K 766.490†	2907.5	1.04	mg/L	0.018	1.04	mg/L	0.018	1.72%
Na 589.592†	207751.7	16.0	mg/L	0.19	16.0	mg/L	0.19	1.20%
Sr 407.771†	131605.3	0.0746	mg/L	0.00051	0.0746	mg/L	0.00051	0.69%
Li 670.784†	-23.4	-0.00222	mg/L	0.002391	-0.00222	mg/L	0.002391	107.75%

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Sequence No.: 38 **Autosampler Location: 54**
Sample ID: L1011029102 **Date Collected: 1/7/2011 1:51:05 PM**

Approved: January 10, 2011

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029102

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011029102

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5358215.8						22151.67	0.41%
YRADIAL	345427.1						12873.56	3.73%
Ga 417.206	1579960.0						6477.61	0.41%
GaRADIAL	81235.1						1197.66	1.47%
Ag 328.068†	675.7	0.00329	mg/L	0.000120	0.00329	mg/L	0.000120	3.65%
Al 396.153†	-114.9	-0.0427	mg/L	0.00418	-0.0427	mg/L	0.00418	9.79%
As 188.979†	24.7	0.0195	mg/L	0.00407	0.0195	mg/L	0.00407	20.89%
Ba 233.527†	1343.0	0.0163	mg/L	0.00007	0.0163	mg/L	0.00007	0.40%
Be 234.861†	40.2	-0.00006	mg/L	0.000010	-0.00006	mg/L	0.000010	16.58%
B 249.677†	1476.1	0.0282	mg/L	0.00014	0.0282	mg/L	0.00014	0.51%
Ca 227.546†	8387.4	72.0	mg/L	0.57	72.0	mg/L	0.57	0.79%
Cd 228.802†	-0.3	-0.00002	mg/L	0.000308	-0.00002	mg/L	0.000308	>999.9%
Co 228.616†	12.6	-0.00018	mg/L	0.000037	-0.00018	mg/L	0.000037	20.47%
Cr 267.716†	135.9	-0.00076	mg/L	0.000086	-0.00076	mg/L	0.000086	11.33%
Cu 327.393†	-388.0	-0.00166	mg/L	0.000475	-0.00166	mg/L	0.000475	28.54%
Fe 239.562†	19.8	0.0107	mg/L	0.00323	0.0107	mg/L	0.00323	30.18%
Mg 279.077†	11173.8	12.0	mg/L	0.08	12.0	mg/L	0.08	0.67%
Mn 257.610†	567.5	0.00051	mg/L	0.000019	0.00051	mg/L	0.000019	3.81%
Mo 202.031†	-4.4	-0.00332	mg/L	0.000163	-0.00332	mg/L	0.000163	4.91%
Ni 231.604†	19.0	-0.00151	mg/L	0.000159	-0.00151	mg/L	0.000159	10.57%
Pb 220.353†	-38.5	-0.00422	mg/L	0.001750	-0.00422	mg/L	0.001750	41.52%
Sb 206.836†	47.1	0.0228	mg/L	0.00053	0.0228	mg/L	0.00053	2.32%
Se 196.026†	-36.4	-0.00816	mg/L	0.001872	-0.00816	mg/L	0.001872	22.94%
Si 251.611†	121243.6	3.57	mg/L	0.047	3.57	mg/L	0.047	1.31%
Sn 189.927†	-117.0	-0.0201	mg/L	0.00033	-0.0201	mg/L	0.00033	1.63%
Ti 334.940†	-1211.8	-0.00120	mg/L	0.000233	-0.00120	mg/L	0.000233	19.43%
Tl 190.801†	66.7	0.0249	mg/L	0.00436	0.0249	mg/L	0.00436	17.50%
V 290.880†	-628.5	-0.00381	mg/L	0.000725	-0.00381	mg/L	0.000725	19.07%
Zn 206.200†	-87.4	-0.00466	mg/L	0.000120	-0.00466	mg/L	0.000120	2.57%
K 766.490†	3034.5	1.08	mg/L	0.038	1.08	mg/L	0.038	3.53%
Na 589.592†	209054.0	16.1	mg/L	0.25	16.1	mg/L	0.25	1.54%
Sr 407.771†	133750.1	0.0759	mg/L	0.00052	0.0759	mg/L	0.00052	0.68%
Li 670.784†	-561.3	-0.00868	mg/L	0.001722	-0.00868	mg/L	0.001722	19.84%

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Sequence No.: 39 **Autosampler Location: 55**
Sample ID: L1011029201 **Date Collected: 1/7/2011 1:57:48 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029201

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011029201

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5545765.3						51182.82	0.92%
YRADIAL	367701.5						17954.88	4.88%
Ga 417.206	1624994.8						20539.06	1.26%
GaRADIAL	85495.5						2188.84	2.56%
Ag 328.068†	417.6	0.00190	mg/L	0.000371	0.00190	mg/L	0.000371	19.51%
Al 396.153†	-145.2	-0.0482	mg/L	0.00375	-0.0482	mg/L	0.00375	7.79%
As 188.979†	20.4	0.0162	mg/L	0.00153	0.0162	mg/L	0.00153	9.43%
Ba 233.527†	344.9	0.00125	mg/L	0.000232	0.00125	mg/L	0.000232	18.58%
Be 234.861†	69.9	-0.00004	mg/L	0.000012	-0.00004	mg/L	0.000012	31.88%
B 249.677†	1063.4	0.0204	mg/L	0.00038	0.0204	mg/L	0.00038	1.86%

Approved: January 10, 2011

Ca 227.546†	6521.1	56.0	mg/L	0.90	56.0	mg/L	0.90	1.60%
Cd 228.802†	-6.8	-0.00033	mg/L	0.000113	-0.00033	mg/L	0.000113	34.27%
Co 228.616†	-0.2	-0.00080	mg/L	0.000303	-0.00080	mg/L	0.000303	37.84%
Cr 267.716†	21.1	-0.00175	mg/L	0.000031	-0.00175	mg/L	0.000031	1.80%
Cu 327.393†	-365.8	-0.00150	mg/L	0.000709	-0.00150	mg/L	0.000709	47.43%
Fe 239.562†	94.7	0.124	mg/L	0.0064	0.124	mg/L	0.0064	5.17%
Mg 279.077†	8512.8	9.13	mg/L	0.121	9.13	mg/L	0.121	1.32%
Mn 257.610†	9093.1	0.0195	mg/L	0.00031	0.0195	mg/L	0.00031	1.57%
Mo 202.031†	-8.0	-0.00354	mg/L	0.000343	-0.00354	mg/L	0.000343	9.68%
Ni 231.604†	-20.6	-0.00255	mg/L	0.000451	-0.00255	mg/L	0.000451	17.67%
Pb 220.353†	-33.8	-0.00430	mg/L	0.001199	-0.00430	mg/L	0.001199	27.86%
Sb 206.836†	43.5	0.0208	mg/L	0.00084	0.0208	mg/L	0.00084	4.03%
Se 196.026†	-35.0	-0.0113	mg/L	0.00181	-0.0113	mg/L	0.00181	16.01%
Si 251.611†	114658.2	3.37	mg/L	0.053	3.37	mg/L	0.053	1.58%
Sn 189.927†	-108.5	-0.0188	mg/L	0.00035	-0.0188	mg/L	0.00035	1.85%
Ti 334.940†	-972.0	-0.00105	mg/L	0.000052	-0.00105	mg/L	0.000052	4.92%
Tl 190.801†	60.1	0.0228	mg/L	0.00120	0.0228	mg/L	0.00120	5.27%
V 290.880†	-495.9	-0.00312	mg/L	0.000617	-0.00312	mg/L	0.000617	19.79%
Zn 206.200†	116.9	0.00111	mg/L	0.000274	0.00111	mg/L	0.000274	24.73%
K 766.490†	2202.7	0.799	mg/L	0.0239	0.799	mg/L	0.0239	2.99%
Na 589.592†	47970.2	3.68	mg/L	0.054	3.68	mg/L	0.054	1.47%
Sr 407.771†	116389.3	0.0656	mg/L	0.00074	0.0656	mg/L	0.00074	1.13%
Li 670.784†	-138.1	-0.00360	mg/L	0.000725	-0.00360	mg/L	0.000725	20.16%

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Sequence No.: 40 **Autosampler Location: 56**
Sample ID: L1011029202 **Date Collected: 1/7/2011 2:04:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029202

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: L1011029202

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5475493.7						36150.09	0.66%
YRADIAL	357407.6						4529.90	1.27%
Ga 417.206	1613812.7						20467.73	1.27%
GaRADIAL	83258.2						1446.66	1.74%
Ag 328.068†	452.4	0.00209	mg/L	0.000276	0.00209	mg/L	0.000276	13.22%
Al 396.153†	-142.5	-0.0477	mg/L	0.00882	-0.0477	mg/L	0.00882	18.49%
As 188.979†	22.1	0.0177	mg/L	0.00248	0.0177	mg/L	0.00248	14.07%
Ba 233.527†	345.9	0.00126	mg/L	0.000168	0.00126	mg/L	0.000168	13.32%
Be 234.861†	59.3	-0.00005	mg/L	0.000012	-0.00005	mg/L	0.000012	24.05%
B 249.677†	1002.7	0.0191	mg/L	0.00039	0.0191	mg/L	0.00039	2.02%
Ca 227.546†	6567.2	56.4	mg/L	1.09	56.4	mg/L	1.09	1.93%
Cd 228.802†	-4.0	-0.00019	mg/L	0.000052	-0.00019	mg/L	0.000052	26.59%
Co 228.616†	0.1	-0.00078	mg/L	0.000068	-0.00078	mg/L	0.000068	8.67%
Cr 267.716†	17.6	-0.00179	mg/L	0.000051	-0.00179	mg/L	0.000051	2.88%
Cu 327.393†	-357.8	-0.00144	mg/L	0.000416	-0.00144	mg/L	0.000416	28.87%
Fe 239.562†	85.0	0.109	mg/L	0.0048	0.109	mg/L	0.0048	4.41%
Mg 279.077†	8537.3	9.16	mg/L	0.032	9.16	mg/L	0.032	0.35%
Mn 257.610†	8379.7	0.0179	mg/L	0.00027	0.0179	mg/L	0.00027	1.53%
Mo 202.031†	-3.4	-0.00325	mg/L	0.000283	-0.00325	mg/L	0.000283	8.73%
Ni 231.604†	-21.9	-0.00258	mg/L	0.000240	-0.00258	mg/L	0.000240	9.29%
Pb 220.353†	-36.4	-0.00466	mg/L	0.001676	-0.00466	mg/L	0.001676	35.99%
Sb 206.836†	43.7	0.0210	mg/L	0.00206	0.0210	mg/L	0.00206	9.81%
Se 196.026†	-31.3	-0.00892	mg/L	0.004375	-0.00892	mg/L	0.004375	49.03%
Si 251.611†	116115.8	3.42	mg/L	0.086	3.42	mg/L	0.086	2.50%
Sn 189.927†	-110.9	-0.0192	mg/L	0.00046	-0.0192	mg/L	0.00046	2.40%
Ti 334.940†	-1047.6	-0.00114	mg/L	0.000097	-0.00114	mg/L	0.000097	8.49%
Tl 190.801†	53.9	0.0195	mg/L	0.00285	0.0195	mg/L	0.00285	14.63%
V 290.880†	-629.1	-0.00398	mg/L	0.000442	-0.00398	mg/L	0.000442	11.10%
Zn 206.200†	55.2	-0.00064	mg/L	0.000195	-0.00064	mg/L	0.000195	30.67%
K 766.490†	2180.5	0.791	mg/L	0.0300	0.791	mg/L	0.0300	3.80%
Na 589.592†	47916.1	3.68	mg/L	0.046	3.68	mg/L	0.046	1.24%
Sr 407.771†	115204.9	0.0649	mg/L	0.00072	0.0649	mg/L	0.00072	1.11%
Li 670.784†	-183.5	-0.00414	mg/L	0.000535	-0.00414	mg/L	0.000535	12.93%

Approved: January 10, 2011

Sequence No.: 41 **Autosampler Location: 57**
Sample ID: L1011029203 **Date Collected: 1/7/2011 2:11:36 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029203

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011029203

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5511086.7						88483.00	1.61%
YRADIAL	359533.7						5145.99	1.43%
Ga 417.206	1628116.6						23958.50	1.47%
GaRADIAL	83759.8						1685.81	2.01%
Ag 328.068†	458.7	0.00212	mg/L	0.000166	0.00212	mg/L	0.000166	7.80%
Al 396.153†	-74.1	-0.0354	mg/L	0.01125	-0.0354	mg/L	0.01125	31.77%
As 188.979†	18.5	0.0147	mg/L	0.00253	0.0147	mg/L	0.00253	17.19%
Ba 233.527†	355.8	0.00141	mg/L	0.000081	0.00141	mg/L	0.000081	5.74%
Be 234.861†	67.1	-0.00003	mg/L	0.000032	-0.00003	mg/L	0.000032	93.88%
B 249.677†	867.7	0.0162	mg/L	0.00056	0.0162	mg/L	0.00056	3.45%
Ca 227.546†	6304.3	54.1	mg/L	0.95	54.1	mg/L	0.95	1.75%
Cd 228.802†	-4.3	-0.00019	mg/L	0.000281	-0.00019	mg/L	0.000281	145.80%
Co 228.616†	-2.8	-0.00093	mg/L	0.000069	-0.00093	mg/L	0.000069	7.48%
Cr 267.716†	7.1	-0.00187	mg/L	0.000058	-0.00187	mg/L	0.000058	3.11%
Cu 327.393†	-308.9	-0.00109	mg/L	0.000340	-0.00109	mg/L	0.000340	31.28%
Fe 239.562†	66.7	0.0816	mg/L	0.00423	0.0816	mg/L	0.00423	5.19%
Mg 279.077†	7862.0	8.43	mg/L	0.006	8.43	mg/L	0.006	0.07%
Mn 257.610†	1776.1	0.00315	mg/L	0.000087	0.00315	mg/L	0.000087	2.75%
Mo 202.031†	-6.5	-0.00345	mg/L	0.000483	-0.00345	mg/L	0.000483	14.01%
Ni 231.604†	-24.6	-0.00265	mg/L	0.000142	-0.00265	mg/L	0.000142	5.36%
Pb 220.353†	-33.2	-0.00431	mg/L	0.000375	-0.00431	mg/L	0.000375	8.71%
Sb 206.836†	41.8	0.0199	mg/L	0.00174	0.0199	mg/L	0.00174	8.72%
Se 196.026†	-41.2	-0.0156	mg/L	0.00112	-0.0156	mg/L	0.00112	7.15%
Si 251.611†	115578.6	3.40	mg/L	0.036	3.40	mg/L	0.036	1.07%
Sn 189.927†	-105.4	-0.0184	mg/L	0.00070	-0.0184	mg/L	0.00070	3.84%
Ti 334.940†	-1040.0	-0.00116	mg/L	0.000123	-0.00116	mg/L	0.000123	10.64%
Tl 190.801†	59.0	0.0224	mg/L	0.00169	0.0224	mg/L	0.00169	7.54%
V 290.880†	-666.5	-0.00427	mg/L	0.000492	-0.00427	mg/L	0.000492	11.53%
Zn 206.200†	660.0	0.0165	mg/L	0.00035	0.0165	mg/L	0.00035	2.11%
K 766.490†	2288.5	0.826	mg/L	0.0213	0.826	mg/L	0.0213	2.57%
Na 589.592†	89606.2	6.88	mg/L	0.087	6.88	mg/L	0.087	1.26%
Sr 407.771†	114383.4	0.0644	mg/L	0.00062	0.0644	mg/L	0.00062	0.96%
Li 670.784†	-218.2	-0.00456	mg/L	0.001593	-0.00456	mg/L	0.001593	34.94%

Sequence No.: 42 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 2:18:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5306963.6						29241.27	0.55%
YRADIAL	345407.7						7680.29	2.22%
Ga 417.206	1522197.3						3428.76	0.23%
GaRADIAL	81156.3						914.84	1.13%
Ag 328.068†	75902.6	0.413	mg/L	0.0042	0.413	mg/L	0.0042	1.03%

QC value within limits for Ag 328.068 Recovery = 103.13%

Approved: January 10, 2011

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Al 396.153†            58028.0        10.4 mg/L          0.01        10.4 mg/L          0.01   0.13%
   QC value within limits for Al 396.153  Recovery = 103.94%
As 188.979†              487.0       0.400 mg/L        0.0019       0.400 mg/L        0.0019   0.49%
   QC value within limits for As 188.979  Recovery = 99.94%
Ba 233.527†            69005.5        1.04 mg/L         0.008        1.04 mg/L         0.008   0.77%
   QC value within limits for Ba 233.527  Recovery = 104.20%
Be 234.861†            33934.8      0.0519 mg/L       0.00027      0.0519 mg/L       0.00027   0.52%
   QC value within limits for Be 234.861  Recovery = 103.87%
B 249.677†             25575.6       0.521 mg/L        0.0028       0.521 mg/L        0.0028   0.53%
   QC value within limits for B 249.677  Recovery = 104.29%
Ca 227.546†             1200.9        10.9 mg/L          0.07        10.9 mg/L          0.07   0.66%
   QC value within limits for Ca 227.546  Recovery = 108.79%
Cd 228.802†              987.1      0.0491 mg/L       0.00009      0.0491 mg/L       0.00009   0.18%
   QC value within limits for Cd 228.802  Recovery = 98.17%
Co 228.616†             4326.2       0.207 mg/L        0.0017       0.207 mg/L        0.0017   0.80%
   QC value within limits for Co 228.616  Recovery = 103.39%
Cr 267.716†            60052.7       0.520 mg/L        0.0055       0.520 mg/L        0.0055   1.05%
   QC value within limits for Cr 267.716  Recovery = 103.91%
Cu 327.393†            71693.0       0.520 mg/L        0.0040       0.520 mg/L        0.0040   0.77%
   QC value within limits for Cu 327.393  Recovery = 104.00%
Fe 239.562†             2821.2        4.24 mg/L         0.074        4.24 mg/L         0.074   1.75%
   QC value within limits for Fe 239.562  Recovery = 106.04%
Mg 279.077†             9813.5        10.5 mg/L          0.17        10.5 mg/L          0.17   1.64%
   QC value within limits for Mg 279.077  Recovery = 105.35%
Mn 257.610†           232528.6       0.525 mg/L        0.0036       0.525 mg/L        0.0036   0.69%
   QC value within limits for Mn 257.610  Recovery = 104.94%
Mo 202.031†            16519.5        1.05 mg/L         0.012        1.05 mg/L         0.012   1.19%
   QC value within limits for Mo 202.031  Recovery = 104.60%
Ni 231.604†            19858.3       0.522 mg/L        0.0060       0.522 mg/L        0.0060   1.16%
   QC value within limits for Ni 231.604  Recovery = 104.41%
Pb 220.353†             3580.0       0.524 mg/L        0.0042       0.524 mg/L        0.0042   0.80%
   QC value within limits for Pb 220.353  Recovery = 104.77%
Sb 206.836†             2298.7        1.27 mg/L         0.009        1.27 mg/L         0.009   0.73%
   QC value within limits for Sb 206.836  Recovery = 106.06%
Se 196.026†              663.0       0.411 mg/L        0.0075       0.411 mg/L        0.0075   1.81%
   QC value within limits for Se 196.026  Recovery = 102.84%
Si 251.611†           174971.2        5.14 mg/L         0.035        5.14 mg/L         0.035   0.67%
   QC value within limits for Si 251.611  Recovery = 102.72%
Sn 189.927†             6775.0        1.05 mg/L         0.008        1.05 mg/L         0.008   0.81%
   QC value within limits for Sn 189.927  Recovery = 104.63%
Ti 334.940†           808838.1        1.05 mg/L         0.003        1.05 mg/L         0.003   0.26%
   QC value within limits for Ti 334.940  Recovery = 105.08%
Tl 190.801†              978.5       0.530 mg/L        0.0028       0.530 mg/L        0.0028   0.52%
   QC value within limits for Tl 190.801  Recovery = 106.08%
V 290.880†            158404.6        1.03 mg/L         0.008        1.03 mg/L         0.008   0.81%
   QC value within limits for V 290.880  Recovery = 103.14%
Zn 206.200†            36170.6        1.02 mg/L         0.006        1.02 mg/L         0.006   0.60%
   QC value within limits for Zn 206.200  Recovery = 102.28%
K 766.490†            141350.2        51.0 mg/L          0.23        51.0 mg/L          0.23   0.45%
   QC value within limits for K 766.490  Recovery = 102.08%
Na 589.592†           654672.5        51.1 mg/L          0.60        51.1 mg/L          0.60   1.18%
   QC value within limits for Na 589.592  Recovery = 102.28%
Sr 407.771†          1800119.2        1.06 mg/L         0.007        1.06 mg/L         0.007   0.68%
   QC value within limits for Sr 407.771  Recovery = 106.33%
Li 670.784†            87507.8        1.05 mg/L         0.012        1.05 mg/L         0.012   1.14%
   QC value within limits for Li 670.784  Recovery = 104.89%
All analyte(s) passed QC.
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Sequence No.: 43 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 2:25:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: CCB

	Mean Corrected	**Calib.**	**Sample**

Approved: January 10, 2011

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5534842.5						70645.09	1.28%
YRADIAL	361669.6						8013.41	2.22%
Ga 417.206	1516086.7						15087.75	1.00%
GaRADIAL	82660.7						1054.73	1.28%
Ag 328.068†	-9.7	-0.00040	mg/L	0.000430	-0.00040	mg/L	0.000430	107.30%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-132.6	-0.0459	mg/L	0.00501	-0.0459	mg/L	0.00501	10.90%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.5	-0.00165	mg/L	0.002687	-0.00165	mg/L	0.002687	162.97%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-12.3	-0.00414	mg/L	0.000096	-0.00414	mg/L	0.000096	2.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-12.0	-0.00013	mg/L	0.000025	-0.00013	mg/L	0.000025	19.20%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	125.7	0.00079	mg/L	0.000062	0.00079	mg/L	0.000062	7.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	5.9	0.0347	mg/L	0.07509	0.0347	mg/L	0.07509	216.38%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-4.3	-0.00007	mg/L	0.000124	-0.00007	mg/L	0.000124	172.78%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.4	-0.00067	mg/L	0.000289	-0.00067	mg/L	0.000289	43.06%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-16.4	-0.00208	mg/L	0.000067	-0.00208	mg/L	0.000067	3.21%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-229.6	-0.00053	mg/L	0.000369	-0.00053	mg/L	0.000369	70.06%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-2.3	-0.0224	mg/L	0.00401	-0.0224	mg/L	0.00401	17.88%
QC value less than the lower limit for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-10.9	-0.0617	mg/L	0.00293	-0.0617	mg/L	0.00293	4.75%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-154.0	-0.00182	mg/L	0.000010	-0.00182	mg/L	0.000010	0.54%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-5.1	-0.00336	mg/L	0.000112	-0.00336	mg/L	0.000112	3.33%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-21.2	-0.00255	mg/L	0.000296	-0.00255	mg/L	0.000296	11.61%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-8.6	-0.00333	mg/L	0.000179	-0.00333	mg/L	0.000179	5.38%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.3	-0.00333	mg/L	0.001954	-0.00333	mg/L	0.001954	58.73%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.7	-0.00183	mg/L	0.003243	-0.00183	mg/L	0.003243	177.24%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-85.7	-0.00685	mg/L	0.000430	-0.00685	mg/L	0.000430	6.28%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-12.4	-0.00396	mg/L	0.000450	-0.00396	mg/L	0.000450	11.39%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-32.6	-0.00039	mg/L	0.000038	-0.00039	mg/L	0.000038	9.90%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	0.4	-0.00404	mg/L	0.002171	-0.00404	mg/L	0.002171	53.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-171.4	-0.00154	mg/L	0.000661	-0.00154	mg/L	0.000661	42.85%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-228.5	-0.00866	mg/L	0.000030	-0.00866	mg/L	0.000030	0.35%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	-60.2	-0.00336	mg/L	0.014450	-0.00336	mg/L	0.014450	429.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-926.6	-0.0657	mg/L	0.00724	-0.0657	mg/L	0.00724	11.02%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	-612.5	-0.00379	mg/L	0.000013	-0.00379	mg/L	0.000013	0.34%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	-227.5	-0.00467	mg/L	0.000549	-0.00467	mg/L	0.000549	11.76%
QC value within limits for Li 670.784 Recovery = Not calculated								

QC Failed. Continue with analysis.

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Sequence No.: 44
Sample ID: L1011029204
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 1/7/2011 2:31:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Approved: January 10, 2011

Nebulizer Parameters: L1011029204

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011029204

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5523277.1						77534.50	1.40%
YRADIAL	345235.5						12307.83	3.57%
Ga 417.206	1620028.0						12919.22	0.80%
GaRADIAL	81107.6						923.46	1.14%
Ag 328.068†	514.0	0.00242	mg/L	0.000315	0.00242	mg/L	0.000315	13.01%
Al 396.153†	-64.3	-0.0336	mg/L	0.00834	-0.0336	mg/L	0.00834	24.78%
As 188.979†	19.1	0.0152	mg/L	0.00281	0.0152	mg/L	0.00281	18.52%
Ba 233.527†	345.1	0.00125	mg/L	0.000102	0.00125	mg/L	0.000102	8.16%
Be 234.861†	70.6	-0.00003	mg/L	0.000016	-0.00003	mg/L	0.000016	54.11%
B 249.677†	793.4	0.0147	mg/L	0.00025	0.0147	mg/L	0.00025	1.67%
Ca 227.546†	6176.4	53.0	mg/L	0.61	53.0	mg/L	0.61	1.15%
Cd 228.802†	-6.0	-0.00028	mg/L	0.000106	-0.00028	mg/L	0.000106	37.85%
Co 228.616†	-0.1	-0.00080	mg/L	0.000322	-0.00080	mg/L	0.000322	40.47%
Cr 267.716†	36.0	-0.00162	mg/L	0.000100	-0.00162	mg/L	0.000100	6.17%
Cu 327.393†	-272.0	-0.00082	mg/L	0.000460	-0.00082	mg/L	0.000460	55.84%
Fe 239.562†	66.3	0.0809	mg/L	0.00548	0.0809	mg/L	0.00548	6.77%
Mg 279.077†	8079.9	8.66	mg/L	0.128	8.66	mg/L	0.128	1.47%
Mn 257.610†	1895.2	0.00341	mg/L	0.000070	0.00341	mg/L	0.000070	2.04%
Mo 202.031†	-6.8	-0.00347	mg/L	0.000310	-0.00347	mg/L	0.000310	8.95%
Ni 231.604†	-22.6	-0.00260	mg/L	0.000237	-0.00260	mg/L	0.000237	9.12%
Pb 220.353†	-43.4	-0.00584	mg/L	0.000726	-0.00584	mg/L	0.000726	12.44%
Sb 206.836†	43.5	0.0208	mg/L	0.00189	0.0208	mg/L	0.00189	9.06%
Se 196.026†	-27.6	-0.00745	mg/L	0.004685	-0.00745	mg/L	0.004685	62.90%
Si 251.611†	115108.0	3.39	mg/L	0.007	3.39	mg/L	0.007	0.22%
Sn 189.927†	-104.4	-0.0182	mg/L	0.00110	-0.0182	mg/L	0.00110	6.04%
Ti 334.940†	-969.6	-0.00107	mg/L	0.000064	-0.00107	mg/L	0.000064	5.96%
Tl 190.801†	51.5	0.0185	mg/L	0.00075	0.0185	mg/L	0.00075	4.04%
V 290.880†	-619.1	-0.00395	mg/L	0.000370	-0.00395	mg/L	0.000370	9.39%
Zn 206.200†	42.4	-0.00100	mg/L	0.000242	-0.00100	mg/L	0.000242	24.24%
K 766.490†	2345.1	0.846	mg/L	0.0309	0.846	mg/L	0.0309	3.65%
Na 589.592†	91451.0	7.03	mg/L	0.108	7.03	mg/L	0.108	1.53%
Sr 407.771†	114647.0	0.0645	mg/L	0.00068	0.0645	mg/L	0.00068	1.06%
Li 670.784†	-231.1	-0.00471	mg/L	0.000451	-0.00471	mg/L	0.000451	9.58%

Sequence No.: 45
Sample ID: L1011029501
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 1/7/2011 2:38:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1011029501

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011029501

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5440128.4						24330.07	0.45%
YRADIAL	360080.9						9729.76	2.70%
Ga 417.206	1654741.3						24733.52	1.49%
GaRADIAL	85355.5						1004.28	1.18%
Ag 328.068†	2287.5	0.0120	mg/L	0.00025	0.0120	mg/L	0.00025	2.12%
Al 396.153†	163.2	0.00678	mg/L	0.013659	0.00678	mg/L	0.013659	201.45%
As 188.979†	35.7	0.0249	mg/L	0.00448	0.0249	mg/L	0.00448	17.96%
Ba 233.527†	1669.9	0.0214	mg/L	0.00022	0.0214	mg/L	0.00022	1.02%
Be 234.861†	49.2	0.00000	mg/L	0.000018	0.00000	mg/L	0.000018	389.65%
B 249.677†	22442.3	0.451	mg/L	0.0053	0.451	mg/L	0.0053	1.18%
Ca 227.546†	28326.5	243	mg/L	3.7	243	mg/L	3.7	1.53%
Cd 228.802†	-4.4	-0.00020	mg/L	0.000030	-0.00020	mg/L	0.000030	15.08%
Co 228.616†	171.1	0.00753	mg/L	0.000178	0.00753	mg/L	0.000178	2.37%
Cr 267.716†	95.0	-0.00110	mg/L	0.000141	-0.00110	mg/L	0.000141	12.83%
Cu 327.393†	36185.3	0.262	mg/L	0.0055	0.262	mg/L	0.0055	2.08%

Approved: January 10, 2011

Fe 239.562†	53.5	0.0618	mg/L	0.00783	0.0618	mg/L	0.00783	12.67%
Mg 279.077†	1083.4	1.12	mg/L	0.024	1.12	mg/L	0.024	2.13%
Mn 257.610†	3690.8	0.00800	mg/L	0.000052	0.00800	mg/L	0.000052	0.65%
Mo 202.031†	530.1	0.0306	mg/L	0.00051	0.0306	mg/L	0.00051	1.67%
Ni 231.604†	336.1	0.00686	mg/L	0.000156	0.00686	mg/L	0.000156	2.27%
Pb 220.353†	-57.9	0.00117	mg/L	0.000778	0.00117	mg/L	0.000778	66.78%
Sb 206.836†	65.2	0.0333	mg/L	0.00142	0.0333	mg/L	0.00142	4.27%
Se 196.026†	-44.7	0.0294	mg/L	0.00439	0.0294	mg/L	0.00439	14.91%
Si 251.611†	125404.5	3.69	mg/L	0.048	3.69	mg/L	0.048	1.31%
Sn 189.927†	-146.3	-0.0247	mg/L	0.00093	-0.0247	mg/L	0.00093	3.76%
Ti 334.940†	-3066.7	-0.00190	mg/L	0.000236	-0.00190	mg/L	0.000236	12.42%
Tl 190.801†	81.8	0.0175	mg/L	0.00113	0.0175	mg/L	0.00113	6.45%
V 290.880†	3516.8	0.0225	mg/L	0.00042	0.0225	mg/L	0.00042	1.88%
Zn 206.200†	-85.8	-0.00456	mg/L	0.000160	-0.00456	mg/L	0.000160	3.50%
K 766.490†	11872.7	4.24	mg/L	0.112	4.24	mg/L	0.112	2.63%
Na 589.592†	134746.1	10.4	mg/L	0.13	10.4	mg/L	0.13	1.26%
Sr 407.771†	765378.0	0.450	mg/L	0.0057	0.450	mg/L	0.0057	1.26%
Li 670.784†	-334.4	-0.00595	mg/L	0.001530	-0.00595	mg/L	0.001530	25.69%

User canceled analysis.

Approved: January 10, 2011

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Analysis Begun

Start Time: 1/7/2011 2:45:49 PM **Plasma On Time: 1/7/2011 7:28:17 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401Autosampler Model: AS-93plus

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 010711H3
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 60**
Sample ID: L1011029502 **Date Collected: 1/7/2011 2:45:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029502

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011029502

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5499395.3						112656.63	2.05%
YRADIAL	355282.7						2091.24	0.59%
Ga 417.206	1653564.7						35889.49	2.17%
GaRADIAL	84904.8						1618.69	1.91%
Ag 328.068†	1495.6	0.00771	mg/L	0.000828	0.00771	mg/L	0.000828	10.73%
Al 396.153†	-89.4	-0.0383	mg/L	0.00630	-0.0383	mg/L	0.00630	16.45%
As 188.979†	45.6	0.0350	mg/L	0.00166	0.0350	mg/L	0.00166	4.73%
Ba 233.527†	1027.9	0.0116	mg/L	0.00073	0.0116	mg/L	0.00073	6.28%
Be 234.861†	59.1	-0.00002	mg/L	0.000006	-0.00002	mg/L	0.000006	33.52%
B 249.677†	13680.3	0.275	mg/L	0.0052	0.275	mg/L	0.0052	1.90%
Ca 227.546†	18107.2	155	mg/L	2.9	155	mg/L	2.9	1.87%
Cd 228.802†	-9.0	-0.00057	mg/L	0.000088	-0.00057	mg/L	0.000088	15.43%
Co 228.616†	13.4	-0.00014	mg/L	0.000347	-0.00014	mg/L	0.000347	252.06%
Cr 267.716†	87.3	-0.00117	mg/L	0.000130	-0.00117	mg/L	0.000130	11.06%
Cu 327.393†	2394.0	0.0184	mg/L	0.00058	0.0184	mg/L	0.00058	3.15%
Fe 239.562†	36.6	0.0361	mg/L	0.00822	0.0361	mg/L	0.00822	22.77%
Mg 279.077†	9037.1	9.69	mg/L	0.176	9.69	mg/L	0.176	1.81%
Mn 257.610†	841.8	0.00152	mg/L	0.000055	0.00152	mg/L	0.000055	3.63%
Mo 202.031†	177.4	0.00822	mg/L	0.000394	0.00822	mg/L	0.000394	4.79%
Ni 231.604†	-7.7	-0.00222	mg/L	0.000383	-0.00222	mg/L	0.000383	17.29%
Pb 220.353†	-47.9	-0.00153	mg/L	0.000703	-0.00153	mg/L	0.000703	45.92%
Sb 206.836†	56.3	0.0280	mg/L	0.00110	0.0280	mg/L	0.00110	3.92%
Se 196.026†	-47.1	0.00599	mg/L	0.002099	0.00599	mg/L	0.002099	35.02%
Si 251.611†	148412.0	4.37	mg/L	0.089	4.37	mg/L	0.089	2.03%
Sn 189.927†	-132.9	-0.0226	mg/L	0.00112	-0.0226	mg/L	0.00112	4.96%
Ti 334.940†	-2334.1	-0.00182	mg/L	0.000168	-0.00182	mg/L	0.000168	9.19%
Tl 190.801†	82.1	0.0256	mg/L	0.00175	0.0256	mg/L	0.00175	6.83%
V 290.880†	900.7	0.00601	mg/L	0.000593	0.00601	mg/L	0.000593	9.87%
Zn 206.200†	-92.6	-0.00480	mg/L	0.000010	-0.00480	mg/L	0.000010	0.20%
K 766.490†	18291.1	6.53	mg/L	0.160	6.53	mg/L	0.160	2.45%
Na 589.592†	131639.3	10.1	mg/L	0.16	10.1	mg/L	0.16	1.63%
Sr 407.771†	483895.4	0.283	mg/L	0.0026	0.283	mg/L	0.0026	0.91%
Li 670.784†	-218.2	-0.00456	mg/L	0.000685	-0.00456	mg/L	0.000685	15.03%

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Sequence No.: 2 **Autosampler Location: 61**
Sample ID: L1011029503 **Date Collected: 1/7/2011 2:52:36 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029503

Analyte	Back Pressure	Flow

Approved: January 10, 2011

All 174.0 kPa 0.50 L/min

Mean Data: L1011029503

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5526376.9						26448.60	0.48%
YRADIAL	355712.7						6813.37	1.92%
Ga 417.206	1613285.0						7206.55	0.45%
GaRADIAL	84131.1						1546.73	1.84%
Ag 328.068†	138.2	0.00045	mg/L	0.000273	0.00045	mg/L	0.000273	61.21%
Al 396.153†	17928.5	3.20	mg/L	0.015	3.20	mg/L	0.015	0.48%
As 188.979†	25.7	0.0212	mg/L	0.00234	0.0212	mg/L	0.00234	11.04%
Ba 233.527†	177913.4	2.69	mg/L	0.033	2.69	mg/L	0.033	1.23%
Be 234.861†	410.9	0.00011	mg/L	0.000036	0.00011	mg/L	0.000036	31.70%
B 249.677†	37527.6	0.760	mg/L	0.0079	0.760	mg/L	0.0079	1.04%
Ca 227.546†	3419.2	29.3	mg/L	0.15	29.3	mg/L	0.15	0.49%
Cd 228.802†	2.8	0.00011	mg/L	0.000175	0.00011	mg/L	0.000175	157.53%
Co 228.616†	-31.6	-0.00336	mg/L	0.000063	-0.00336	mg/L	0.000063	1.87%
Cr 267.716†	831.9	0.00518	mg/L	0.000084	0.00518	mg/L	0.000084	1.62%
Cu 327.393†	17974.6	0.131	mg/L	0.0004	0.131	mg/L	0.0004	0.27%
Fe 239.562†	1231.9	1.84	mg/L	0.032	1.84	mg/L	0.032	1.75%
Mg 279.077†	2788.5	2.96	mg/L	0.045	2.96	mg/L	0.045	1.52%
Mn 257.610†	166469.9	0.374	mg/L	0.0034	0.374	mg/L	0.0034	0.92%
Mo 202.031†	24.4	-0.00132	mg/L	0.000076	-0.00132	mg/L	0.000076	5.78%
Ni 231.604†	253.5	0.00469	mg/L	0.000237	0.00469	mg/L	0.000237	5.05%
Pb 220.353†	405.5	0.0584	mg/L	0.00163	0.0584	mg/L	0.00163	2.79%
Sb 206.836†	32.9	0.0151	mg/L	0.00256	0.0151	mg/L	0.00256	16.91%
Se 196.026†	-22.4	-0.0104	mg/L	0.00179	-0.0104	mg/L	0.00179	17.29%
Si 251.611†	233822.8	6.89	mg/L	0.081	6.89	mg/L	0.081	1.17%
Sn 189.927†	-75.4	-0.0137	mg/L	0.00072	-0.0137	mg/L	0.00072	5.24%
Ti 334.940†	27951.0	0.0363	mg/L	0.00026	0.0363	mg/L	0.00026	0.72%
Tl 190.801†	31.0	0.0107	mg/L	0.00125	0.0107	mg/L	0.00125	11.67%
V 290.880†	809.7	0.00483	mg/L	0.001423	0.00483	mg/L	0.001423	29.46%
Zn 206.200†	45495.1	1.28	mg/L	0.024	1.28	mg/L	0.024	1.83%
K 766.490†	17167.7	6.12	mg/L	0.014	6.12	mg/L	0.014	0.22%
Na 589.592†	251858.9	19.4	mg/L	0.25	19.4	mg/L	0.25	1.30%
Sr 407.771†	184722.6	0.106	mg/L	0.0007	0.106	mg/L	0.0007	0.65%
Li 670.784†	131.1	-0.00036	mg/L	0.001820	-0.00036	mg/L	0.001820	501.38%

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Sequence No.: 3 **Autosampler Location: 62**
Sample ID: L1011029504 **Date Collected: 1/7/2011 2:59:16 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029504

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1011029504

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5572846.5						48582.42	0.87%
YRADIAL	356749.7						7147.41	2.00%
Ga 417.206	1629991.6						18817.66	1.15%
GaRADIAL	84360.4						1220.19	1.45%
Ag 328.068†	209.5	0.00078	mg/L	0.000606	0.00078	mg/L	0.000606	77.31%
Al 396.153†	2810.6	0.483	mg/L	0.0119	0.483	mg/L	0.0119	2.47%
As 188.979†	18.3	0.0149	mg/L	0.00090	0.0149	mg/L	0.00090	6.06%
Ba 233.527†	1772.0	0.0228	mg/L	0.00037	0.0228	mg/L	0.00037	1.60%
Be 234.861†	92.0	-0.00005	mg/L	0.000034	-0.00005	mg/L	0.000034	72.14%
B 249.677†	2793.8	0.0556	mg/L	0.00036	0.0556	mg/L	0.00036	0.65%
Ca 227.546†	4115.4	35.3	mg/L	0.44	35.3	mg/L	0.44	1.25%
Cd 228.802†	-2.2	-0.00009	mg/L	0.000093	-0.00009	mg/L	0.000093	108.35%
Co 228.616†	-4.5	-0.00104	mg/L	0.000230	-0.00104	mg/L	0.000230	21.98%
Cr 267.716†	205.6	-0.00015	mg/L	0.000103	-0.00015	mg/L	0.000103	66.78%
Cu 327.393†	5623.2	0.0417	mg/L	0.00152	0.0417	mg/L	0.00152	3.63%
Fe 239.562†	215.1	0.306	mg/L	0.0087	0.306	mg/L	0.0087	2.83%
Mg 279.077†	3354.1	3.57	mg/L	0.040	3.57	mg/L	0.040	1.12%

Approved: January 10, 2011

Mn 257.610†	4575.8	0.00968	mg/L	0.000256	0.00968	mg/L	0.000256	2.64%
Mo 202.031†	22.8	-0.00158	mg/L	0.000533	-0.00158	mg/L	0.000533	33.80%
Ni 231.604†	-21.1	-0.00256	mg/L	0.000151	-0.00256	mg/L	0.000151	5.90%
Pb 220.353†	-11.1	-0.00197	mg/L	0.000103	-0.00197	mg/L	0.000103	5.22%
Sb 206.836†	30.4	0.0138	mg/L	0.00116	0.0138	mg/L	0.00116	8.40%
Se 196.026†	-23.3	-0.00923	mg/L	0.002309	-0.00923	mg/L	0.002309	25.02%
Si 251.611†	114356.7	3.37	mg/L	0.048	3.37	mg/L	0.048	1.43%
Sn 189.927†	-91.9	-0.0163	mg/L	0.00075	-0.0163	mg/L	0.00075	4.63%
Ti 334.940†	7951.7	0.0103	mg/L	0.00081	0.0103	mg/L	0.00081	7.87%
Tl 190.801†	39.8	0.0139	mg/L	0.00231	0.0139	mg/L	0.00231	16.59%
V 290.880†	2.1	-0.00022	mg/L	0.000674	-0.00022	mg/L	0.000674	311.69%
Zn 206.200†	340.4	0.00744	mg/L	0.000400	0.00744	mg/L	0.000400	5.38%
K 766.490†	12821.2	4.57	mg/L	0.017	4.57	mg/L	0.017	0.37%
Na 589.592†	173736.6	13.4	mg/L	0.12	13.4	mg/L	0.12	0.93%
Sr 407.771†	170978.3	0.0979	mg/L	0.00094	0.0979	mg/L	0.00094	0.96%
Li 670.784†	146.0	-0.00018	mg/L	0.000828	-0.00018	mg/L	0.000828	449.42%

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Sequence No.: 4 **Autosampler Location: 63**
Sample ID: L1011029505 **Date Collected: 1/7/2011 3:05:57 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1011029505

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1011029505

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5601962.5						81991.02	1.46%
YRADIAL	358665.5						9870.00	2.75%
Ga 417.206	1633935.6						27741.74	1.70%
GaRADIAL	85006.1						1299.46	1.53%
Ag 328.068†	265.9	0.00109	mg/L	0.000257	0.00109	mg/L	0.000257	23.51%
Al 396.153†	3067.9	0.529	mg/L	0.0119	0.529	mg/L	0.0119	2.25%
As 188.979†	16.1	0.0131	mg/L	0.00304	0.0131	mg/L	0.00304	23.22%
Ba 233.527†	1465.7	0.0182	mg/L	0.00035	0.0182	mg/L	0.00035	1.90%
Be 234.861†	119.5	-0.00001	mg/L	0.000016	-0.00001	mg/L	0.000016	159.69%
B 249.677†	2889.8	0.0575	mg/L	0.00048	0.0575	mg/L	0.00048	0.83%
Ca 227.546†	3795.9	32.6	mg/L	0.56	32.6	mg/L	0.56	1.72%
Cd 228.802†	-2.7	-0.00010	mg/L	0.000037	-0.00010	mg/L	0.000037	37.89%
Co 228.616†	0.2	-0.00082	mg/L	0.000374	-0.00082	mg/L	0.000374	45.47%
Cr 267.716†	284.8	0.00053	mg/L	0.000155	0.00053	mg/L	0.000155	29.12%
Cu 327.393†	5682.4	0.0422	mg/L	0.00112	0.0422	mg/L	0.00112	2.67%
Fe 239.562†	227.9	0.325	mg/L	0.0093	0.325	mg/L	0.0093	2.87%
Mg 279.077†	3168.1	3.37	mg/L	0.081	3.37	mg/L	0.081	2.42%
Mn 257.610†	4807.2	0.0102	mg/L	0.00009	0.0102	mg/L	0.00009	0.87%
Mo 202.031†	22.3	-0.00160	mg/L	0.000224	-0.00160	mg/L	0.000224	13.99%
Ni 231.604†	-19.2	-0.00251	mg/L	0.000218	-0.00251	mg/L	0.000218	8.71%
Pb 220.353†	-8.8	-0.00176	mg/L	0.001064	-0.00176	mg/L	0.001064	60.39%
Sb 206.836†	31.0	0.0141	mg/L	0.00030	0.0141	mg/L	0.00030	2.09%
Se 196.026†	-19.3	-0.00743	mg/L	0.001850	-0.00743	mg/L	0.001850	24.91%
Si 251.611†	116697.6	3.43	mg/L	0.067	3.43	mg/L	0.067	1.94%
Sn 189.927†	-86.4	-0.0154	mg/L	0.00060	-0.0154	mg/L	0.00060	3.92%
Ti 334.940†	8963.4	0.0116	mg/L	0.00034	0.0116	mg/L	0.00034	2.92%
Tl 190.801†	38.7	0.0136	mg/L	0.00388	0.0136	mg/L	0.00388	28.44%
V 290.880†	-100.6	-0.00090	mg/L	0.001254	-0.00090	mg/L	0.001254	139.72%
Zn 206.200†	357.2	0.00791	mg/L	0.000348	0.00791	mg/L	0.000348	4.39%
K 766.490†	11239.6	4.01	mg/L	0.044	4.01	mg/L	0.044	1.10%
Na 589.592†	200173.0	15.4	mg/L	0.22	15.4	mg/L	0.22	1.42%
Sr 407.771†	158089.2	0.0903	mg/L	0.00069	0.0903	mg/L	0.00069	0.76%
Li 670.784†	131.4	-0.00036	mg/L	0.001355	-0.00036	mg/L	0.001355	377.03%

==========

Sequence No.: 5 **Autosampler Location: 26**
Sample ID: L1011040407 **Date Collected: 1/7/2011 3:12:36 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1011040407

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1011040407

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5582551.5						34188.86	0.61%
YRADIAL	364100.0						5822.09	1.60%
Ga 417.206	1556323.7						11337.43	0.73%
GaRADIAL	83308.7						739.73	0.89%
Ag 328.068†	-61.1	-0.00068	mg/L	0.000309	-0.00068	mg/L	0.000309	45.60%
Al 396.153†	202.4	0.0143	mg/L	0.01319	0.0143	mg/L	0.01319	92.32%
As 188.979†	-1.7	-0.00099	mg/L	0.002872	-0.00099	mg/L	0.002872	290.88%
Ba 233.527†	12.2	-0.00377	mg/L	0.000046	-0.00377	mg/L	0.000046	1.23%
Be 234.861†	7.5	-0.00011	mg/L	0.000020	-0.00011	mg/L	0.000020	18.13%
B 249.677†	2764.8	0.0542	mg/L	0.00205	0.0542	mg/L	0.00205	3.78%
Ca 227.546†	15.9	0.121	mg/L	0.0273	0.121	mg/L	0.0273	22.56%
Cd 228.802†	-4.1	-0.00007	mg/L	0.000304	-0.00007	mg/L	0.000304	432.29%
Co 228.616†	2.1	-0.00069	mg/L	0.000180	-0.00069	mg/L	0.000180	26.06%
Cr 267.716†	37.0	-0.00162	mg/L	0.000092	-0.00162	mg/L	0.000092	5.70%
Cu 327.393†	303.9	0.00333	mg/L	0.000521	0.00333	mg/L	0.000521	15.66%
Fe 239.562†	25.8	0.0200	mg/L	0.00271	0.0200	mg/L	0.00271	13.54%
Mg 279.077†	11.8	-0.0372	mg/L	0.00199	-0.0372	mg/L	0.00199	5.36%
Mn 257.610†	685.5	0.00012	mg/L	0.000033	0.00012	mg/L	0.000033	28.67%
Mo 202.031†	-6.2	-0.00343	mg/L	0.000104	-0.00343	mg/L	0.000104	3.03%
Ni 231.604†	-8.0	-0.00220	mg/L	0.000256	-0.00220	mg/L	0.000256	11.66%
Pb 220.353†	-13.5	-0.00404	mg/L	0.000701	-0.00404	mg/L	0.000701	17.36%
Sb 206.836†	-3.2	-0.00434	mg/L	0.002128	-0.00434	mg/L	0.002128	49.06%
Se 196.026†	-1.2	-0.00428	mg/L	0.002106	-0.00428	mg/L	0.002106	49.25%
Si 251.611†	6324.4	0.182	mg/L	0.0538	0.182	mg/L	0.0538	29.56%
Sn 189.927†	-12.6	-0.00398	mg/L	0.000742	-0.00398	mg/L	0.000742	18.64%
Ti 334.940†	1131.0	0.00113	mg/L	0.000542	0.00113	mg/L	0.000542	48.16%
Tl 190.801†	1.4	-0.00350	mg/L	0.002849	-0.00350	mg/L	0.002849	81.42%
V 290.880†	-83.8	-0.00097	mg/L	0.000933	-0.00097	mg/L	0.000933	95.81%
Zn 206.200†	-80.0	-0.00446	mg/L	0.000115	-0.00446	mg/L	0.000115	2.57%
K 766.490†	304.9	0.126	mg/L	0.0078	0.126	mg/L	0.0078	6.17%
Na 589.592†	11057.2	0.852	mg/L	0.0075	0.852	mg/L	0.0075	0.88%
Sr 407.771†	-259.8	-0.00359	mg/L	0.000189	-0.00359	mg/L	0.000189	5.26%
Li 670.784†	-171.3	-0.00399	mg/L	0.001190	-0.00399	mg/L	0.001190	29.79%

Sequence No.: 6
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/7/2011 3:19:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5384649.8						34447.56	0.64%
YRADIAL	347145.4						5358.87	1.54%
Ga 417.206	1527549.7						14338.89	0.94%
GaRADIAL	80504.5						2648.85	3.29%
Ag 328.068†	76002.5	0.413	mg/L	0.0059	0.413	mg/L	0.0059	1.43%
QC value within limits for Ag 328.068 Recovery = 103.26%								
Al 396.153†	58403.2	10.5	mg/L	0.04	10.5	mg/L	0.04	0.41%
QC value within limits for Al 396.153 Recovery = 104.61%								
As 188.979†	488.3	0.401	mg/L	0.0044	0.401	mg/L	0.0044	1.10%
QC value within limits for As 188.979 Recovery = 100.21%								
Ba 233.527†	68813.4	1.04	mg/L	0.012	1.04	mg/L	0.012	1.13%
QC value within limits for Ba 233.527 Recovery = 103.91%								
Be 234.861†	34240.7	0.0524	mg/L	0.00049	0.0524	mg/L	0.00049	0.94%

Approved: January 10, 2011

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   QC value within limits for Be 234.861  Recovery = 104.81%
B 249.677†            25776.9       0.525 mg/L        0.0088       0.525 mg/L        0.0088   1.68%
   QC value within limits for B 249.677  Recovery = 105.03%
Ca 227.546†            1198.5        10.9 mg/L          0.05        10.9 mg/L          0.05   0.49%
   QC value within limits for Ca 227.546  Recovery = 108.55%
Cd 228.802†             990.2      0.0492 mg/L       0.00082      0.0492 mg/L       0.00082   1.67%
   QC value within limits for Cd 228.802  Recovery = 98.41%
Co 228.616†            4277.0       0.204 mg/L        0.0016       0.204 mg/L        0.0016   0.80%
   QC value within limits for Co 228.616  Recovery = 102.22%
Cr 267.716†           59971.0       0.519 mg/L        0.0055       0.519 mg/L        0.0055   1.06%
   QC value within limits for Cr 267.716  Recovery = 103.77%
Cu 327.393†           71251.2       0.517 mg/L        0.0090       0.517 mg/L        0.0090   1.74%
   QC value within limits for Cu 327.393  Recovery = 103.36%
Fe 239.562†            2783.0        4.18 mg/L         0.125        4.18 mg/L         0.125   3.00%
   QC value within limits for Fe 239.562  Recovery = 104.59%
Mg 279.077†            9697.9        10.4 mg/L          0.27        10.4 mg/L          0.27   2.63%
   QC value within limits for Mg 279.077  Recovery = 104.10%
Mn 257.610†          231623.3       0.523 mg/L        0.0079       0.523 mg/L        0.0079   1.52%
   QC value within limits for Mn 257.610  Recovery = 104.53%
Mo 202.031†           16470.9        1.04 mg/L         0.018        1.04 mg/L         0.018   1.71%
   QC value within limits for Mo 202.031  Recovery = 104.29%
Ni 231.604†           19789.2       0.520 mg/L        0.0041       0.520 mg/L        0.0041   0.79%
   QC value within limits for Ni 231.604  Recovery = 104.04%
Pb 220.353†            3545.7       0.519 mg/L        0.0053       0.519 mg/L        0.0053   1.03%
   QC value within limits for Pb 220.353  Recovery = 103.78%
Sb 206.836†            2295.2        1.27 mg/L         0.010        1.27 mg/L         0.010   0.76%
   QC value within limits for Sb 206.836  Recovery = 105.88%
Se 196.026†             669.9       0.416 mg/L        0.0041       0.416 mg/L        0.0041   0.98%
   QC value within limits for Se 196.026  Recovery = 103.92%
Si 251.611†          175683.4        5.16 mg/L         0.069        5.16 mg/L         0.069   1.34%
   QC value within limits for Si 251.611  Recovery = 103.14%
Sn 189.927†            6697.0        1.03 mg/L         0.005        1.03 mg/L         0.005   0.45%
   QC value within limits for Sn 189.927  Recovery = 103.43%
Ti 334.940†          792937.6        1.03 mg/L         0.005        1.03 mg/L         0.005   0.46%
   QC value within limits for Ti 334.940  Recovery = 103.01%
Tl 190.801†             973.4       0.527 mg/L        0.0027       0.527 mg/L        0.0027   0.51%
   QC value within limits for Tl 190.801  Recovery = 105.48%
V 290.880†           157411.0        1.02 mg/L         0.018        1.02 mg/L         0.018   1.72%
   QC value within limits for V 290.880  Recovery = 102.49%
Zn 206.200†           36411.4        1.03 mg/L         0.007        1.03 mg/L         0.007   0.65%
   QC value within limits for Zn 206.200  Recovery = 102.96%
K 766.490†           141886.0        51.2 mg/L          0.36        51.2 mg/L          0.36   0.71%
   QC value within limits for K 766.490  Recovery = 102.47%
Na 589.592†          653569.1        51.1 mg/L          0.75        51.1 mg/L          0.75   1.47%
   QC value within limits for Na 589.592  Recovery = 102.10%
Sr 407.771†         1770057.8        1.05 mg/L         0.005        1.05 mg/L         0.005   0.48%
   QC value within limits for Sr 407.771  Recovery = 104.55%
Li 670.784†           86807.0        1.04 mg/L         0.011        1.04 mg/L         0.011   1.07%
   QC value within limits for Li 670.784  Recovery = 104.05%
All analyte(s) passed QC.

==========================================================================================
Sequence No.: 7                                  Autosampler Location: 1
Sample ID: CCB                                   Date Collected: 1/7/2011 3:25:58 PM
Analyst:                                         Data Type: Original
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                        Sample Prep Vol:

------------------------------------------------------------------------------------------
Nebulizer Parameters: CCB
Analyte                 Back Pressure    Flow
All                     174.0 kPa        0.50 L/min

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Mean Data: CCB
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5619658.9                                                      45663.66   0.81%
YRADIAL               354884.1                                                       4449.60   1.25%
Ga 417.206           1546752.9                                                      12873.80   0.83%
GaRADIAL               81261.3                                                       1072.96   1.32%
Ag 328.068†              -34.1    -0.00053 mg/L      0.000636    -0.00053 mg/L      0.000636 119.32%
   QC value within limits for Ag 328.068  Recovery = Not calculated
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Approved: January 10, 2011

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Al 396.153†            -130.2     -0.0455 mg/L       0.00768     -0.0455 mg/L       0.00768  16.89%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†              2.7      0.00267 mg/L      0.002269     0.00267 mg/L      0.002269  85.08%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              -9.6    -0.00410 mg/L      0.000062    -0.00410 mg/L      0.000062   1.52%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              -2.3    -0.00012 mg/L      0.000011    -0.00012 mg/L      0.000011   9.38%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              173.1     0.00176 mg/L      0.000300     0.00176 mg/L      0.000300  16.98%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               3.0     0.00944 mg/L      0.043287     0.00944 mg/L      0.043287 458.74%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†              -4.9    -0.00013 mg/L      0.000071    -0.00013 mg/L      0.000071  52.43%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               1.3    -0.00073 mg/L      0.000214    -0.00073 mg/L      0.000214  29.41%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -18.3    -0.00210 mg/L      0.000087    -0.00210 mg/L      0.000087   4.17%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -336.5    -0.00130 mg/L      0.000686    -0.00130 mg/L      0.000686  52.94%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               0.3     -0.0184 mg/L       0.00265     -0.0184 mg/L       0.00265  14.42%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†             -12.1     -0.0630 mg/L       0.00118     -0.0630 mg/L       0.00118   1.87%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†            -164.2    -0.00184 mg/L      0.000028    -0.00184 mg/L      0.000028   1.52%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -5.9    -0.00341 mg/L      0.000218    -0.00341 mg/L      0.000218   6.38%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -21.7    -0.00256 mg/L      0.000206    -0.00256 mg/L      0.000206   8.03%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -10.1    -0.00355 mg/L      0.001104    -0.00355 mg/L      0.001104  31.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -3.1    -0.00425 mg/L      0.000489    -0.00425 mg/L      0.000489  11.50%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.2    -0.00431 mg/L      0.003643    -0.00431 mg/L      0.003643  84.52%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -49.8    -0.00578 mg/L      0.002194    -0.00578 mg/L      0.002194  37.93%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -9.3    -0.00347 mg/L      0.000187    -0.00347 mg/L      0.000187   5.40%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -26.4    -0.00038 mg/L      0.000162    -0.00038 mg/L      0.000162  42.72%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               0.2    -0.00412 mg/L      0.000821    -0.00412 mg/L      0.000821  19.93%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -204.5    -0.00176 mg/L      0.001180    -0.00176 mg/L      0.001180  67.03%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†            -238.4    -0.00894 mg/L      0.000097    -0.00894 mg/L      0.000097   1.09%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†             -119.9     -0.0246 mg/L       0.03296     -0.0246 mg/L       0.03296 133.78%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            -953.2     -0.0677 mg/L       0.00307     -0.0677 mg/L       0.00307   4.53%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            -691.9    -0.00384 mg/L      0.000058    -0.00384 mg/L      0.000058   1.52%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†            -194.4    -0.00427 mg/L      0.001246    -0.00427 mg/L      0.001246  29.16%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 8 **Autosampler Location: 66**
Sample ID: L1012066701 DL0.5 **Date Collected: 1/7/2011 3:32:39 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012066701 DL0.5

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: L1012066701 DL0.5

Mean Corrected **Calib.** **Sample**

Approved: January 10, 2011

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5362691.7						47891.85	0.89%
YRADIAL	367670.0						6297.08	1.71%
Ga 417.206	1517190.6						14373.26	0.95%
GaRADIAL	82523.0						1075.40	1.30%
Ag 328.068†	-2393.2	-0.00937	mg/L	0.000217	-0.00937	mg/L	0.000217	2.31%
Al 396.153†	243375.9	43.7	mg/L	0.09	43.7	mg/L	0.09	0.22%
As 188.979†	112.8	0.0988	mg/L	0.00543	0.0988	mg/L	0.00543	5.50%
Ba 233.527†	15013.0	0.223	mg/L	0.0023	0.223	mg/L	0.0023	1.04%
Be 234.861†	12591.6	0.00397	mg/L	0.000324	0.00397	mg/L	0.000324	8.18%
B 249.677†	5546.5	0.352	mg/L	0.0033	0.352	mg/L	0.0033	0.93%
Ca 227.546†	3031.7	26.5	mg/L	0.43	26.5	mg/L	0.43	1.62%
Cd 228.802†	-13.3	-0.00088	mg/L	0.000417	-0.00088	mg/L	0.000417	47.47%
Co 228.616†	519.5	0.0220	mg/L	0.00027	0.0220	mg/L	0.00027	1.21%
Cr 267.716†	8345.3	0.0730	mg/L	0.00060	0.0730	mg/L	0.00060	0.83%
Cu 327.393†	7584.8	0.0608	mg/L	0.00094	0.0608	mg/L	0.00094	1.55%
Fe 239.562†	41387.7	62.5	mg/L	1.17	62.5	mg/L	1.17	1.87%
Mg 279.077†	10619.0	11.4	mg/L	0.19	11.4	mg/L	0.19	1.65%
Mn 257.610†	187162.5	0.437	mg/L	0.0056	0.437	mg/L	0.0056	1.28%
Mo 202.031†	426.8	0.0273	mg/L	0.00035	0.0273	mg/L	0.00035	1.27%
Ni 231.604†	2448.6	0.0627	mg/L	0.00060	0.0627	mg/L	0.00060	0.95%
Pb 220.353†	209.6	0.0318	mg/L	0.00128	0.0318	mg/L	0.00128	4.01%
Sb 206.836†	27.8	0.0125	mg/L	0.00336	0.0125	mg/L	0.00336	26.86%
Se 196.026†	-26.4	-0.00770	mg/L	0.009759	-0.00770	mg/L	0.009759	126.66%
Si 251.611†	1608396.9	47.4	mg/L	0.36	47.4	mg/L	0.36	0.76%
Sn 189.927†	-69.2	-0.0127	mg/L	0.00030	-0.0127	mg/L	0.00030	2.32%
Ti 334.940†	261400.5	0.340	mg/L	0.0038	0.340	mg/L	0.0038	1.12%
Tl 190.801†	22.7	0.0103	mg/L	0.00288	0.0103	mg/L	0.00288	27.81%
V 290.880†	24603.0	0.158	mg/L	0.0011	0.158	mg/L	0.0011	0.69%
Zn 206.200†	4488.2	0.124	mg/L	0.0006	0.124	mg/L	0.0006	0.45%
K 766.490†	20308.1	7.13	mg/L	0.107	7.13	mg/L	0.107	1.50%
Na 589.592†	1665136.0	134	mg/L	0.6	134	mg/L	0.6	0.42%
Sr 407.771†	616636.8	0.356	mg/L	0.0015	0.356	mg/L	0.0015	0.43%
Li 670.784†	4650.4	0.0539	mg/L	0.00034	0.0539	mg/L	0.00034	0.64%

User canceled analysis.

Approved: January 10, 2011

Analysis Begun

Start Time: 1/7/2011 3:38:28 PM **Plasma On Time: 1/7/2011 7:28:17 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401Autosampler Model: AS-93plus

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 010711H3
Results Library: C:\pe\peicp2\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 67**
Sample ID: L1012066702 DL0.5 **Date Collected: 1/7/2011 3:38:30 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012066702 DL0.5

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012066702 DL0.5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5225123.3						18877.38	0.36%
YRADIAL	340924.3						5761.93	1.69%
Ga 417.206	1570353.7						9416.91	0.60%
GaRADIAL	81341.3						396.17	0.49%
Ag 328.068†	1544.2	0.00771	mg/L	0.000181	0.00771	mg/L	0.000181	2.35%
Al 396.153†	890.8	0.138	mg/L	0.0157	0.138	mg/L	0.0157	11.41%
As 188.979†	31.0	0.0226	mg/L	0.00331	0.0226	mg/L	0.00331	14.63%
Ba 233.527†	637.9	0.00568	mg/L	0.000109	0.00568	mg/L	0.000109	1.93%
Be 234.861†	72.1	-0.00001	mg/L	0.000026	-0.00001	mg/L	0.000026	499.03%
B 249.677†	126876.0	2.56	mg/L	0.006	2.56	mg/L	0.006	0.25%
Ca 227.546†	19700.5	169	mg/L	1.3	169	mg/L	1.3	0.76%
Cd 228.802†	-4.4	-0.00026	mg/L	0.000146	-0.00026	mg/L	0.000146	56.03%
Co 228.616†	3.1	-0.00065	mg/L	0.000088	-0.00065	mg/L	0.000088	13.63%
Cr 267.716†	179.7	-0.00047	mg/L	0.000166	-0.00047	mg/L	0.000166	35.56%
Cu 327.393†	-145.1	0.00005	mg/L	0.000698	0.00005	mg/L	0.000698	>999.9%
Fe 239.562†	231.8	0.329	mg/L	0.0090	0.329	mg/L	0.0090	2.72%
Mg 279.077†	57709.1	62.2	mg/L	0.02	62.2	mg/L	0.02	0.02%
Mn 257.610†	103204.9	0.232	mg/L	0.0004	0.232	mg/L	0.0004	0.16%
Mo 202.031†	539.9	0.0313	mg/L	0.00061	0.0313	mg/L	0.00061	1.94%
Ni 231.604†	-23.3	-0.00263	mg/L	0.000396	-0.00263	mg/L	0.000396	15.05%
Pb 220.353†	-54.2	-0.00167	mg/L	0.000438	-0.00167	mg/L	0.000438	26.22%
Sb 206.836†	65.6	0.0334	mg/L	0.00291	0.0334	mg/L	0.00291	8.71%
Se 196.026†	-49.4	0.00790	mg/L	0.002682	0.00790	mg/L	0.002682	33.94%
Si 251.611†	118582.5	3.49	mg/L	0.022	3.49	mg/L	0.022	0.63%
Sn 189.927†	-136.4	-0.0231	mg/L	0.00041	-0.0231	mg/L	0.00041	1.76%
Ti 334.940†	-775.9	0.00034	mg/L	0.000156	0.00034	mg/L	0.000156	46.02%
Tl 190.801†	92.9	0.0304	mg/L	0.00179	0.0304	mg/L	0.00179	5.87%
V 290.880†	-1707.7	-0.00786	mg/L	0.001506	-0.00786	mg/L	0.001506	19.16%
Zn 206.200†	93.3	0.00044	mg/L	0.000038	0.00044	mg/L	0.000038	8.70%
K 766.490†	12617.6	4.38	mg/L	0.015	4.38	mg/L	0.015	0.34%
Na 589.592†	1725962.4	140	mg/L	1.9	140	mg/L	1.9	1.34%
Sr 407.771†	2393693.1	1.42	mg/L	0.013	1.42	mg/L	0.013	0.94%
Li 670.784†	30755.7	0.367	mg/L	0.0036	0.367	mg/L	0.0036	0.98%

Sequence No.: 2 **Autosampler Location: 68**
Sample ID: L1012066703 DL0.5 **Date Collected: 1/7/2011 3:45:15 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012066703 DL0.5

Analyte	Back Pressure	Flow

Approved: January 10, 2011

All	175.0 kPa	0.50 L/min

Mean Data: L1012066703 DL0.5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5259068.0						7165.29	0.14%
YRADIAL	346737.4						1303.60	0.38%
Ga 417.206	1576892.8						6151.33	0.39%
GaRADIAL	82502.7						1813.63	2.20%
Ag 328.068†	1275.7	0.00626	mg/L	0.000197	0.00626	mg/L	0.000197	3.15%
Al 396.153†	-108.4	-0.0425	mg/L	0.00532	-0.0425	mg/L	0.00532	12.52%
As 188.979†	32.0	0.0237	mg/L	0.00182	0.0237	mg/L	0.00182	7.67%
Ba 233.527†	368.4	0.00163	mg/L	0.000063	0.00163	mg/L	0.000063	3.84%
Be 234.861†	8.9	0.00002	mg/L	0.000006	0.00002	mg/L	0.000006	30.03%
B 249.677†	117349.5	2.37	mg/L	0.053	2.37	mg/L	0.053	2.22%
Ca 227.546†	16722.5	144	mg/L	3.2	144	mg/L	3.2	2.20%
Cd 228.802†	-1.3	-0.00011	mg/L	0.000193	-0.00011	mg/L	0.000193	167.75%
Co 228.616†	3.9	-0.00059	mg/L	0.000206	-0.00059	mg/L	0.000206	35.15%
Cr 267.716†	145.3	-0.00080	mg/L	0.000106	-0.00080	mg/L	0.000106	13.26%
Cu 327.393†	-228.3	-0.00055	mg/L	0.000425	-0.00055	mg/L	0.000425	76.74%
Fe 239.562†	50.1	0.0551	mg/L	0.00323	0.0551	mg/L	0.00323	5.87%
Mg 279.077†	48866.8	52.6	mg/L	0.14	52.6	mg/L	0.14	0.27%
Mn 257.610†	125778.4	0.283	mg/L	0.0057	0.283	mg/L	0.0057	2.00%
Mo 202.031†	1060.1	0.0643	mg/L	0.00072	0.0643	mg/L	0.00072	1.13%
Ni 231.604†	-29.5	-0.00279	mg/L	0.000155	-0.00279	mg/L	0.000155	5.54%
Pb 220.353†	-61.0	-0.00373	mg/L	0.000616	-0.00373	mg/L	0.000616	16.51%
Sb 206.836†	59.5	0.0308	mg/L	0.00309	0.0308	mg/L	0.00309	10.03%
Se 196.026†	-46.3	0.00340	mg/L	0.002321	0.00340	mg/L	0.002321	68.20%
Si 251.611†	107007.1	3.15	mg/L	0.059	3.15	mg/L	0.059	1.88%
Sn 189.927†	-132.2	-0.0225	mg/L	0.00047	-0.0225	mg/L	0.00047	2.08%
Ti 334.940†	-2194.6	-0.00176	mg/L	0.000098	-0.00176	mg/L	0.000098	5.56%
Tl 190.801†	80.3	0.0260	mg/L	0.00227	0.0260	mg/L	0.00227	8.71%
V 290.880†	-1560.8	-0.00748	mg/L	0.000553	-0.00748	mg/L	0.000553	7.39%
Zn 206.200†	-69.9	-0.00418	mg/L	0.000316	-0.00418	mg/L	0.000316	7.58%
K 766.490†	10915.0	3.77	mg/L	0.011	3.77	mg/L	0.011	0.29%
Na 589.592†	1671503.0	135	mg/L	4.9	135	mg/L	4.9	3.64%
Sr 407.771†	2145632.0	1.27	mg/L	0.016	1.27	mg/L	0.016	1.25%
Li 670.784†	24900.5	0.297	mg/L	0.0008	0.297	mg/L	0.0008	0.26%

Sequence No.: 3 **Autosampler Location: 69**
Sample ID: L1012066704 DL0.5 **Date Collected: 1/7/2011 3:52:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012066704 DL0.5

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: L1012066704 DL0.5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5307683.7						37100.89	0.70%
YRADIAL	359068.5						10503.35	2.93%
Ga 417.206	1589475.6						17292.53	1.09%
GaRADIAL	84844.8						878.91	1.04%
Ag 328.068†	1495.8	0.00745	mg/L	0.000258	0.00745	mg/L	0.000258	3.46%
Al 396.153†	1043.7	0.165	mg/L	0.0158	0.165	mg/L	0.0158	9.58%
As 188.979†	31.1	0.0226	mg/L	0.00345	0.0226	mg/L	0.00345	15.29%
Ba 233.527†	705.5	0.00670	mg/L	0.000188	0.00670	mg/L	0.000188	2.80%
Be 234.861†	91.8	0.00001	mg/L	0.000010	0.00001	mg/L	0.000010	161.42%
B 249.677†	128785.6	2.60	mg/L	0.024	2.60	mg/L	0.024	0.92%
Ca 227.546†	20225.9	174	mg/L	2.1	174	mg/L	2.1	1.20%
Cd 228.802†	-2.8	-0.00018	mg/L	0.000127	-0.00018	mg/L	0.000127	69.03%
Co 228.616†	0.6	-0.00076	mg/L	0.000025	-0.00076	mg/L	0.000025	3.23%
Cr 267.716†	174.9	-0.00051	mg/L	0.000036	-0.00051	mg/L	0.000036	7.14%
Cu 327.393†	-349.4	-0.00142	mg/L	0.000453	-0.00142	mg/L	0.000453	31.99%
Fe 239.562†	276.2	0.396	mg/L	0.0108	0.396	mg/L	0.0108	2.72%
Mg 279.077†	58018.8	62.5	mg/L	0.76	62.5	mg/L	0.76	1.22%

Approved: January 10, 2011

Mn 257.610†	106586.8	0.240 mg/L	0.0016	0.240 mg/L	0.0016	0.66%
Mo 202.031†	506.0	0.0291 mg/L	0.00056	0.0291 mg/L	0.00056	1.91%
Ni 231.604†	-11.6	-0.00232 mg/L	0.000118	-0.00232 mg/L	0.000118	5.06%
Pb 220.353†	-57.8	-0.00198 mg/L	0.000315	-0.00198 mg/L	0.000315	15.86%
Sb 206.836†	59.3	0.0300 mg/L	0.00119	0.0300 mg/L	0.00119	3.95%
Se 196.026†	-43.1	0.0130 mg/L	0.00283	0.0130 mg/L	0.00283	21.81%
Si 251.611†	119491.3	3.52 mg/L	0.035	3.52 mg/L	0.035	0.98%
Sn 189.927†	-128.6	-0.0219 mg/L	0.00016	-0.0219 mg/L	0.00016	0.74%
Ti 334.940†	-1274.6	-0.00027 mg/L	0.000275	-0.00027 mg/L	0.000275	103.64%
Tl 190.801†	86.5	0.0266 mg/L	0.00256	0.0266 mg/L	0.00256	9.62%
V 290.880†	-1533.7	-0.00671 mg/L	0.000865	-0.00671 mg/L	0.000865	12.89%
Zn 206.200†	-15.3	-0.00263 mg/L	0.000165	-0.00263 mg/L	0.000165	6.25%
K 766.490†	12674.3	4.40 mg/L	0.018	4.40 mg/L	0.018	0.42%
Na 589.592†	1705943.2	138 mg/L	2.4	138 mg/L	2.4	1.76%
Sr 407.771†	2352088.5	1.39 mg/L	0.046	1.39 mg/L	0.046	3.29%
Li 670.784†	31894.7	0.381 mg/L	0.0065	0.381 mg/L	0.0065	1.70%

Sequence No.: 4 **Autosampler Location: 70**
Sample ID: L1012066705 DL0.5 **Date Collected: 1/7/2011 3:59:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012066705 DL0.5

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012066705 DL0.5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5263396.8						64415.62	1.22%
YRADIAL	352429.5						4124.36	1.17%
Ga 417.206	1573360.4						30457.01	1.94%
GaRADIAL	83736.9						1575.52	1.88%
Ag 328.068†	1295.4	0.00637	mg/L	0.000422	0.00637	mg/L	0.000422	6.63%
Al 396.153†	-115.8	-0.0437	mg/L	0.00096	-0.0437	mg/L	0.00096	2.19%
As 188.979†	28.7	0.0210	mg/L	0.00183	0.0210	mg/L	0.00183	8.73%
Ba 233.527†	376.4	0.00175	mg/L	0.000152	0.00175	mg/L	0.000152	8.73%
Be 234.861†	21.7	0.00003	mg/L	0.000020	0.00003	mg/L	0.000020	68.21%
B 249.677†	117218.3	2.36	mg/L	0.019	2.36	mg/L	0.019	0.79%
Ca 227.546†	16720.8	144	mg/L	1.5	144	mg/L	1.5	1.04%
Cd 228.802†	-0.7	-0.00006	mg/L	0.000058	-0.00006	mg/L	0.000058	91.70%
Co 228.616†	4.8	-0.00054	mg/L	0.000206	-0.00054	mg/L	0.000206	37.92%
Cr 267.716†	130.7	-0.00092	mg/L	0.000091	-0.00092	mg/L	0.000091	9.97%
Cu 327.393†	-288.3	-0.00099	mg/L	0.000662	-0.00099	mg/L	0.000662	66.95%
Fe 239.562†	47.6	0.0513	mg/L	0.00751	0.0513	mg/L	0.00751	14.63%
Mg 279.077†	49147.0	52.9	mg/L	0.29	52.9	mg/L	0.29	0.54%
Mn 257.610†	116009.2	0.261	mg/L	0.0022	0.261	mg/L	0.0022	0.86%
Mo 202.031†	957.3	0.0578	mg/L	0.00096	0.0578	mg/L	0.00096	1.67%
Ni 231.604†	-35.7	-0.00296	mg/L	0.000121	-0.00296	mg/L	0.000121	4.09%
Pb 220.353†	-48.9	-0.00201	mg/L	0.000578	-0.00201	mg/L	0.000578	28.82%
Sb 206.836†	57.3	0.0295	mg/L	0.00271	0.0295	mg/L	0.00271	9.18%
Se 196.026†	-47.8	0.00248	mg/L	0.000702	0.00248	mg/L	0.000702	28.27%
Si 251.611†	106052.6	3.12	mg/L	0.042	3.12	mg/L	0.042	1.34%
Sn 189.927†	-125.8	-0.0215	mg/L	0.00088	-0.0215	mg/L	0.00088	4.08%
Ti 334.940†	-2237.8	-0.00182	mg/L	0.000219	-0.00182	mg/L	0.000219	12.06%
Tl 190.801†	82.9	0.0274	mg/L	0.00527	0.0274	mg/L	0.00527	19.24%
V 290.880†	-1445.3	-0.00671	mg/L	0.001294	-0.00671	mg/L	0.001294	19.29%
Zn 206.200†	-59.4	-0.00388	mg/L	0.000205	-0.00388	mg/L	0.000205	5.29%
K 766.490†	11156.8	3.86	mg/L	0.027	3.86	mg/L	0.027	0.71%
Na 589.592†	1661323.3	134	mg/L	4.0	134	mg/L	4.0	2.99%
Sr 407.771†	2148302.2	1.27	mg/L	0.023	1.27	mg/L	0.023	1.83%
Li 670.784†	25199.6	0.301	mg/L	0.0025	0.301	mg/L	0.0025	0.83%

Sequence No.: 5 **Autosampler Location: 71**
Sample ID: L1012066708 DL0.5 **Date Collected: 1/7/2011 4:06:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1012066708 DL0.5

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012066708 DL0.5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5316166.8						74514.92	1.40%
YRADIAL	358668.0						9059.16	2.53%
Ga 417.206	1539760.9						21543.82	1.40%
GaRADIAL	83510.9						2712.98	3.25%
Ag 328.068†	-123.3	-0.00103	mg/L	0.000637	-0.00103	mg/L	0.000637	61.89%
Al 396.153†	1241.7	0.199	mg/L	0.0033	0.199	mg/L	0.0033	1.65%
As 188.979†	7.3	0.00570	mg/L	0.002536	0.00570	mg/L	0.002536	44.48%
Ba 233.527†	748.3	0.00742	mg/L	0.000249	0.00742	mg/L	0.000249	3.35%
Be 234.861†	-15.1	0.00000	mg/L	0.000032	0.00000	mg/L	0.000032	>999.9%
B 249.677†	11499.5	0.231	mg/L	0.0038	0.231	mg/L	0.0038	1.65%
Ca 227.546†	191.9	1.63	mg/L	0.067	1.63	mg/L	0.067	4.11%
Cd 228.802†	-4.3	-0.00013	mg/L	0.000053	-0.00013	mg/L	0.000053	41.78%
Co 228.616†	-1.1	-0.00084	mg/L	0.000029	-0.00084	mg/L	0.000029	3.40%
Cr 267.716†	117.8	-0.00091	mg/L	0.000205	-0.00091	mg/L	0.000205	22.56%
Cu 327.393†	-220.4	-0.00043	mg/L	0.000399	-0.00043	mg/L	0.000399	93.08%
Fe 239.562†	148.3	0.205	mg/L	0.0112	0.205	mg/L	0.0112	5.47%
Mg 279.077†	250.6	0.221	mg/L	0.0049	0.221	mg/L	0.0049	2.22%
Mn 257.610†	2233.8	0.00558	mg/L	0.000102	0.00558	mg/L	0.000102	1.83%
Mo 202.031†	1949.8	0.121	mg/L	0.0023	0.121	mg/L	0.0023	1.91%
Ni 231.604†	-1.6	-0.00203	mg/L	0.000177	-0.00203	mg/L	0.000177	8.70%
Pb 220.353†	-10.7	-0.00292	mg/L	0.000954	-0.00292	mg/L	0.000954	32.69%
Sb 206.836†	-1.4	-0.00091	mg/L	0.001674	-0.00091	mg/L	0.001674	183.48%
Se 196.026†	-1.6	-0.00417	mg/L	0.000880	-0.00417	mg/L	0.000880	21.11%
Si 251.611†	73093.5	2.15	mg/L	0.035	2.15	mg/L	0.035	1.61%
Sn 189.927†	-14.2	-0.00423	mg/L	0.000671	-0.00423	mg/L	0.000671	15.87%
Ti 334.940†	3348.7	0.00402	mg/L	0.000129	0.00402	mg/L	0.000129	3.21%
Tl 190.801†	0.8	-0.00407	mg/L	0.002814	-0.00407	mg/L	0.002814	69.09%
V 290.880†	65.4	-0.00007	mg/L	0.000643	-0.00007	mg/L	0.000643	941.40%
Zn 206.200†	-74.0	-0.00432	mg/L	0.000169	-0.00432	mg/L	0.000169	3.92%
K 766.490†	1102.0	0.243	mg/L	0.0360	0.243	mg/L	0.0360	14.79%
Na 589.592†	2039061.8	167	mg/L	4.8	167	mg/L	4.8	2.85%
Sr 407.771†	129880.2	0.0735	mg/L	0.00087	0.0735	mg/L	0.00087	1.18%
Li 670.784†	413.2	0.00302	mg/L	0.000946	0.00302	mg/L	0.000946	31.28%

Sequence No.: 6
Sample ID: L1012066709 DL0.5
Analyst: PDM
Initial Sample Wt:
Dilution:
Autosampler Location: 72
Date Collected: 1/7/2011 4:13:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012066709 DL0.5

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012066709 DL0.5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5351692.2						41224.65	0.77%
YRADIAL	349193.1						5808.53	1.66%
Ga 417.206	1552573.6						14068.31	0.91%
GaRADIAL	81033.7						1042.80	1.29%
Ag 328.068†	-62.8	-0.00071	mg/L	0.000361	-0.00071	mg/L	0.000361	50.69%
Al 396.153†	112.5	-0.00352	mg/L	0.010371	-0.00352	mg/L	0.010371	294.53%
As 188.979†	8.7	0.00691	mg/L	0.004600	0.00691	mg/L	0.004600	66.54%
Ba 233.527†	633.7	0.00569	mg/L	0.000048	0.00569	mg/L	0.000048	0.84%
Be 234.861†	-55.6	-0.00002	mg/L	0.000010	-0.00002	mg/L	0.000010	58.36%
B 249.677†	11287.5	0.226	mg/L	0.0010	0.226	mg/L	0.0010	0.42%
Ca 227.546†	171.8	1.46	mg/L	0.070	1.46	mg/L	0.070	4.83%
Cd 228.802†	-0.9	0.00004	mg/L	0.000079	0.00004	mg/L	0.000079	224.54%
Co 228.616†	0.1	-0.00077	mg/L	0.000097	-0.00077	mg/L	0.000097	12.52%

Approved: January 10, 2011

Cr 267.716†	31.6	-0.00166	mg/L	0.000110	-0.00166	mg/L	0.000110	6.63%
Cu 327.393†	-246.0	-0.00063	mg/L	0.000792	-0.00063	mg/L	0.000792	125.23%
Fe 239.562†	15.1	0.00390	mg/L	0.002303	0.00390	mg/L	0.002303	59.01%
Mg 279.077†	224.2	0.192	mg/L	0.0017	0.192	mg/L	0.0017	0.89%
Mn 257.610†	237.3	0.00103	mg/L	0.000021	0.00103	mg/L	0.000021	2.08%
Mo 202.031†	1929.8	0.119	mg/L	0.0010	0.119	mg/L	0.0010	0.81%
Ni 231.604†	-25.3	-0.00266	mg/L	0.000221	-0.00266	mg/L	0.000221	8.33%
Pb 220.353†	-9.7	-0.00279	mg/L	0.001746	-0.00279	mg/L	0.001746	62.47%
Sb 206.836†	-6.0	-0.00342	mg/L	0.002133	-0.00342	mg/L	0.002133	62.30%
Se 196.026†	-0.5	-0.00355	mg/L	0.004443	-0.00355	mg/L	0.004443	125.19%
Si 251.611†	61404.3	1.80	mg/L	0.008	1.80	mg/L	0.008	0.44%
Sn 189.927†	-17.1	-0.00469	mg/L	0.000306	-0.00469	mg/L	0.000306	6.54%
Ti 334.940†	113.8	-0.00018	mg/L	0.000195	-0.00018	mg/L	0.000195	106.66%
Tl 190.801†	-2.0	-0.00561	mg/L	0.000421	-0.00561	mg/L	0.000421	7.50%
V 290.880†	-66.4	-0.00092	mg/L	0.000206	-0.00092	mg/L	0.000206	22.45%
Zn 206.200†	-141.8	-0.00623	mg/L	0.000178	-0.00623	mg/L	0.000178	2.85%
K 766.490†	1018.6	0.212	mg/L	0.0096	0.212	mg/L	0.0096	4.53%
Na 589.592†	2063642.3	169	mg/L	2.5	169	mg/L	2.5	1.47%
Sr 407.771†	122710.7	0.0693	mg/L	0.00074	0.0693	mg/L	0.00074	1.07%
Li 670.784†	274.7	0.00136	mg/L	0.000420	0.00136	mg/L	0.000420	30.89%

==========

Sequence No.: 7 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 4:19:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5281791.5						15680.40	0.30%
YRADIAL	344932.4						5158.12	1.50%
Ga 417.206	1505458.4						10446.35	0.69%
GaRADIAL	79695.9						1559.86	1.96%
Ag 328.068†	76638.1	0.417	mg/L	0.0040	0.417	mg/L	0.0040	0.97%
QC value within limits for Ag 328.068 Recovery = 104.13%								
Al 396.153†	58827.6	10.5	mg/L	0.02	10.5	mg/L	0.02	0.20%
QC value within limits for Al 396.153 Recovery = 105.37%								
As 188.979†	492.6	0.404	mg/L	0.0038	0.404	mg/L	0.0038	0.95%
QC value within limits for As 188.979 Recovery = 101.10%								
Ba 233.527†	70046.3	1.06	mg/L	0.009	1.06	mg/L	0.009	0.80%
QC value within limits for Ba 233.527 Recovery = 105.78%								
Be 234.861†	34397.6	0.0527	mg/L	0.00043	0.0527	mg/L	0.00043	0.82%
QC value within limits for Be 234.861 Recovery = 105.33%								
B 249.677†	27230.9	0.554	mg/L	0.0051	0.554	mg/L	0.0051	0.92%
QC value greater than the upper limit for B 249.677 Recovery = 110.87%								
Ca 227.546†	1213.6	11.0	mg/L	0.17	11.0	mg/L	0.17	1.53%
QC value within limits for Ca 227.546 Recovery = 109.93%								
Cd 228.802†	1004.0	0.0499	mg/L	0.00075	0.0499	mg/L	0.00075	1.51%
QC value within limits for Cd 228.802 Recovery = 99.81%								
Co 228.616†	4336.8	0.207	mg/L	0.0019	0.207	mg/L	0.0019	0.93%
QC value within limits for Co 228.616 Recovery = 103.67%								
Cr 267.716†	60835.8	0.526	mg/L	0.0039	0.526	mg/L	0.0039	0.74%
QC value within limits for Cr 267.716 Recovery = 105.27%								
Cu 327.393†	71923.3	0.522	mg/L	0.0058	0.522	mg/L	0.0058	1.12%
QC value within limits for Cu 327.393 Recovery = 104.33%								
Fe 239.562†	2776.9	4.17	mg/L	0.057	4.17	mg/L	0.057	1.36%
QC value within limits for Fe 239.562 Recovery = 104.36%								
Mg 279.077†	9683.8	10.4	mg/L	0.13	10.4	mg/L	0.13	1.24%
QC value within limits for Mg 279.077 Recovery = 103.95%								
Mn 257.610†	235420.6	0.531	mg/L	0.0039	0.531	mg/L	0.0039	0.74%
QC value within limits for Mn 257.610 Recovery = 106.24%								
Mo 202.031†	16691.3	1.06	mg/L	0.008	1.06	mg/L	0.008	0.71%
QC value within limits for Mo 202.031 Recovery = 105.69%								
Ni 231.604†	20073.3	0.528	mg/L	0.0045	0.528	mg/L	0.0045	0.86%
QC value within limits for Ni 231.604 Recovery = 105.54%								

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```
Pb 220.353†            3600.0       0.527 mg/L        0.0023       0.527 mg/L        0.0023   0.44%
   QC value within limits for Pb 220.353  Recovery = 105.37%
Sb 206.836†            2312.9        1.28 mg/L         0.017        1.28 mg/L         0.017   1.30%
   QC value within limits for Sb 206.836  Recovery = 106.72%
Se 196.026†             676.3       0.420 mg/L        0.0041       0.420 mg/L        0.0041   0.97%
   QC value within limits for Se 196.026  Recovery = 104.91%
Si 251.611†          177273.8        5.20 mg/L         0.047        5.20 mg/L         0.047   0.91%
   QC value within limits for Si 251.611  Recovery = 104.07%
Sn 189.927†            6795.9        1.05 mg/L         0.008        1.05 mg/L         0.008   0.80%
   QC value within limits for Sn 189.927  Recovery = 104.96%
Ti 334.940†          798342.5        1.04 mg/L         0.002        1.04 mg/L         0.002   0.23%
   QC value within limits for Ti 334.940  Recovery = 103.71%
Tl 190.801†             979.1       0.531 mg/L        0.0087       0.531 mg/L        0.0087   1.65%
   QC value within limits for Tl 190.801  Recovery = 106.11%
V 290.880†           159961.0        1.04 mg/L         0.006        1.04 mg/L         0.006   0.55%
   QC value within limits for V 290.880  Recovery = 104.15%
Zn 206.200†           36969.3        1.05 mg/L         0.010        1.05 mg/L         0.010   1.00%
   QC value within limits for Zn 206.200  Recovery = 104.54%
K 766.490†           143041.1        51.7 mg/L          0.32        51.7 mg/L          0.32   0.62%
   QC value within limits for K 766.490  Recovery = 103.32%
Na 589.592†          660716.7        51.6 mg/L          0.74        51.6 mg/L          0.74   1.43%
   QC value within limits for Na 589.592  Recovery = 103.24%
Sr 407.771†         1779719.5        1.05 mg/L         0.010        1.05 mg/L         0.010   0.96%
   QC value within limits for Sr 407.771  Recovery = 105.12%
Li 670.784†           87592.8        1.05 mg/L         0.011        1.05 mg/L         0.011   1.04%
   QC value within limits for Li 670.784  Recovery = 104.99%
QC Failed.  Continue with analysis.
```

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Sequence No.: 8 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 4:26:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: CCB

```
                    Mean Corrected          Calib.                          Sample
Analyte                Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5548235.4                                                        80915.89   1.46%
YRADIAL               356767.4                                                         4414.10   1.24%
Ga 417.206           1530613.1                                                        35318.89   2.31%
GaRADIAL               81820.8                                                         1765.09   2.16%
Ag 328.068†              -75.9    -0.00076 mg/L      0.000784    -0.00076 mg/L      0.000784 103.15%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              -91.0     -0.0385 mg/L       0.01758     -0.0385 mg/L       0.01758  45.71%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -3.4    -0.00236 mg/L      0.000425    -0.00236 mg/L      0.000425  17.97%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              -14.9    -0.00418 mg/L      0.000041    -0.00418 mg/L      0.000041   0.99%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†               -6.1    -0.00012 mg/L      0.000030    -0.00012 mg/L      0.000030  25.13%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               1276.5      0.0240 mg/L       0.00098      0.0240 mg/L       0.00098   4.10%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               -3.9     -0.0493 mg/L       0.04625     -0.0493 mg/L       0.04625  93.84%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†               -3.3    -0.00002 mg/L      0.000138    -0.00002 mg/L      0.000138 682.41%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                3.0    -0.00064 mg/L      0.000130    -0.00064 mg/L      0.000130  20.19%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -13.1    -0.00205 mg/L      0.000074    -0.00205 mg/L      0.000074   3.59%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†             -297.9    -0.00102 mg/L      0.000461    -0.00102 mg/L      0.000461  45.21%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               -3.3     -0.0238 mg/L       0.00242     -0.0238 mg/L       0.00242  10.15%
   QC value less than the lower limit for Fe 239.562  Recovery = Not calculated
Mg 279.077†               -3.5     -0.0537 mg/L       0.00399     -0.0537 mg/L       0.00399   7.43%
```

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   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†            -162.3    -0.00184 mg/L      0.000020    -0.00184 mg/L      0.000020   1.11%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -6.5    -0.00346 mg/L      0.000261    -0.00346 mg/L      0.000261   7.56%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -17.6    -0.00245 mg/L      0.000095    -0.00245 mg/L      0.000095   3.88%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -8.0    -0.00324 mg/L      0.001708    -0.00324 mg/L      0.001708  52.65%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -2.3    -0.00383 mg/L      0.001641    -0.00383 mg/L      0.001641  42.84%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               2.2    -0.00219 mg/L      0.002685    -0.00219 mg/L      0.002685 122.55%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -43.2    -0.00559 mg/L      0.001325    -0.00559 mg/L      0.001325  23.71%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -11.0    -0.00373 mg/L      0.000562    -0.00373 mg/L      0.000562  15.05%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -89.2    -0.00046 mg/L      0.000062    -0.00046 mg/L      0.000062  13.40%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               0.8    -0.00382 mg/L      0.000901    -0.00382 mg/L      0.000901  23.59%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -185.3    -0.00163 mg/L      0.000940    -0.00163 mg/L      0.000940  57.54%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†            -242.9    -0.00907 mg/L      0.000167    -0.00907 mg/L      0.000167   1.84%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†             -125.1     -0.0265 mg/L       0.01216     -0.0265 mg/L       0.01216  45.85%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            -308.4     -0.0184 mg/L       0.01237     -0.0184 mg/L       0.01237  67.38%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            -565.8    -0.00376 mg/L      0.000069    -0.00376 mg/L      0.000069   1.83%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†            -202.2    -0.00437 mg/L      0.000337    -0.00437 mg/L      0.000337   7.73%
   QC value within limits for Li 670.784  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

==========

Sequence No.: 9 **Autosampler Location: 73**
Sample ID: PBW 31 WG352673-02 **Date Collected: 1/7/2011 4:33:10 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 31 WG352673-02

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: PBW 31 WG352673-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5698321.2						45514.18	0.80%
YRADIAL	367431.7						4638.28	1.26%
Ga 417.206	1571604.0						17065.79	1.09%
GaRADIAL	84296.0						1137.45	1.35%
Ag 328.068†	-30.6	-0.00051	mg/L	0.000204	-0.00051	mg/L	0.000204	39.75%
Al 396.153†	-102.5	-0.0405	mg/L	0.00940	-0.0405	mg/L	0.00940	23.20%
As 188.979†	-0.8	-0.00021	mg/L	0.003185	-0.00021	mg/L	0.003185	>999.9%
Ba 233.527†	-8.6	-0.00409	mg/L	0.000032	-0.00409	mg/L	0.000032	0.79%
Be 234.861†	6.8	-0.00010	mg/L	0.000016	-0.00010	mg/L	0.000016	16.09%
B 249.677†	1283.9	0.0242	mg/L	0.00083	0.0242	mg/L	0.00083	3.44%
Ca 227.546†	3.8	0.0164	mg/L	0.05269	0.0164	mg/L	0.05269	321.39%
Cd 228.802†	-2.8	-0.00001	mg/L	0.000081	-0.00001	mg/L	0.000081	891.96%
Co 228.616†	-1.1	-0.00084	mg/L	0.000281	-0.00084	mg/L	0.000281	33.41%
Cr 267.716†	-15.1	-0.00207	mg/L	0.000053	-0.00207	mg/L	0.000053	2.57%
Cu 327.393†	-375.6	-0.00158	mg/L	0.000677	-0.00158	mg/L	0.000677	42.89%
Fe 239.562†	-1.0	-0.0204	mg/L	0.00440	-0.0204	mg/L	0.00440	21.56%
Mg 279.077†	-0.1	-0.0500	mg/L	0.00753	-0.0500	mg/L	0.00753	15.04%
Mn 257.610†	-46.0	-0.00158	mg/L	0.000015	-0.00158	mg/L	0.000015	0.98%
Mo 202.031†	-2.9	-0.00322	mg/L	0.000292	-0.00322	mg/L	0.000292	9.07%
Ni 231.604†	-24.6	-0.00264	mg/L	0.000185	-0.00264	mg/L	0.000185	7.01%
Pb 220.353†	-12.5	-0.00389	mg/L	0.000993	-0.00389	mg/L	0.000993	25.53%
Sb 206.836†	-3.7	-0.00462	mg/L	0.001985	-0.00462	mg/L	0.001985	42.93%

Approved: January 10, 2011

Se 196.026†	1.4	-0.00265 mg/L	0.001548	-0.00265 mg/L	0.001548	58.42%
Si 251.611†	-34.6	-0.00534 mg/L	0.000088	-0.00534 mg/L	0.000088	1.64%
Sn 189.927†	-11.2	-0.00377 mg/L	0.000785	-0.00377 mg/L	0.000785	20.81%
Ti 334.940†	-73.4	-0.00044 mg/L	0.000118	-0.00044 mg/L	0.000118	26.83%
Tl 190.801†	2.1	-0.00314 mg/L	0.001289	-0.00314 mg/L	0.001289	41.05%
V 290.880†	-189.2	-0.00166 mg/L	0.000538	-0.00166 mg/L	0.000538	32.45%
Zn 206.200†	-204.2	-0.00798 mg/L	0.000191	-0.00798 mg/L	0.000191	2.40%
K 766.490†	-199.4	-0.0529 mg/L	0.00953	-0.0529 mg/L	0.00953	18.01%
Na 589.592†	-755.1	-0.0526 mg/L	0.01244	-0.0526 mg/L	0.01244	23.66%
Sr 407.771†	-696.2	-0.00384 mg/L	0.000120	-0.00384 mg/L	0.000120	3.12%
Li 670.784†	-233.1	-0.00474 mg/L	0.001384	-0.00474 mg/L	0.001384	29.22%

Sequence No.: 10 **Autosampler Location: 74**
Sample ID: LCSW 31 WG352673-03 **Date Collected: 1/7/2011 4:39:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 31 WG352673-03

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: LCSW 31 WG352673-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5507030.5						26907.87	0.49%
YRADIAL	357078.2						7545.20	2.11%
Ga 417.206	1573115.0						5836.46	0.37%
GaRADIAL	82726.1						1007.46	1.22%
Ag 328.068†	37071.7	0.201	mg/L	0.0028	0.201	mg/L	0.0028	1.38%
Al 396.153†	28234.5	5.05	mg/L	0.015	5.05	mg/L	0.015	0.29%
As 188.979†	231.4	0.190	mg/L	0.0015	0.190	mg/L	0.0015	0.79%
Ba 233.527†	33071.9	0.497	mg/L	0.0073	0.497	mg/L	0.0073	1.47%
Be 234.861†	16256.3	0.0248	mg/L	0.00025	0.0248	mg/L	0.00025	1.02%
B 249.677†	51324.8	1.04	mg/L	0.011	1.04	mg/L	0.011	1.08%
Ca 227.546†	574.7	5.20	mg/L	0.049	5.20	mg/L	0.049	0.95%
Cd 228.802†	476.3	0.0238	mg/L	0.00020	0.0238	mg/L	0.00020	0.84%
Co 228.616†	2064.0	0.0982	mg/L	0.00071	0.0982	mg/L	0.00071	0.73%
Cr 267.716†	28579.9	0.246	mg/L	0.0019	0.246	mg/L	0.0019	0.76%
Cu 327.393†	34145.1	0.248	mg/L	0.0039	0.248	mg/L	0.0039	1.59%
Fe 239.562†	1322.4	1.98	mg/L	0.027	1.98	mg/L	0.027	1.37%
Mg 279.077†	4669.6	4.99	mg/L	0.086	4.99	mg/L	0.086	1.72%
Mn 257.610†	111559.3	0.251	mg/L	0.0030	0.251	mg/L	0.0030	1.21%
Mo 202.031†	7853.5	0.496	mg/L	0.0049	0.496	mg/L	0.0049	0.99%
Ni 231.604†	9499.4	0.249	mg/L	0.0028	0.249	mg/L	0.0028	1.14%
Pb 220.353†	1693.0	0.247	mg/L	0.0009	0.247	mg/L	0.0009	0.36%
Sb 206.836†	1090.1	0.602	mg/L	0.0030	0.602	mg/L	0.0030	0.49%
Se 196.026†	323.3	0.199	mg/L	0.0023	0.199	mg/L	0.0023	1.15%
Si 251.611†	86237.0	2.53	mg/L	0.033	2.53	mg/L	0.033	1.31%
Sn 189.927†	3286.2	0.506	mg/L	0.0021	0.506	mg/L	0.0021	0.41%
Ti 334.940†	384948.8	0.500	mg/L	0.0059	0.500	mg/L	0.0059	1.18%
Tl 190.801†	473.6	0.254	mg/L	0.0012	0.254	mg/L	0.0012	0.47%
V 290.880†	75208.3	0.489	mg/L	0.0053	0.489	mg/L	0.0053	1.08%
Zn 206.200†	16973.6	0.479	mg/L	0.0062	0.479	mg/L	0.0062	1.29%
K 766.490†	68493.9	24.5	mg/L	0.17	24.5	mg/L	0.17	0.69%
Na 589.592†	343767.9	26.6	mg/L	0.59	26.6	mg/L	0.59	2.22%
Sr 407.771†	874820.7	0.515	mg/L	0.0180	0.515	mg/L	0.0180	3.49%
Li 670.784†	42554.5	0.509	mg/L	0.0092	0.509	mg/L	0.0092	1.80%

Sequence No.: 11 **Autosampler Location: 75**
Sample ID: L1012071402 **Date Collected: 1/7/2011 4:46:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071402

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Approved: January 10, 2011

Mean Data: L1012071402

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5662519.5						69263.29	1.22%
YRADIAL	364989.2						12902.60	3.54%
Ga 417.206	1594420.0						16623.51	1.04%
GaRADIAL	84679.3						2009.16	2.37%
Ag 328.068†	-116.3	-0.00096	mg/L	0.000408	-0.00096	mg/L	0.000408	42.53%
Al 396.153†	1814.0	0.304	mg/L	0.0149	0.304	mg/L	0.0149	4.91%
As 188.979†	1.0	0.00134	mg/L	0.006401	0.00134	mg/L	0.006401	479.29%
Ba 233.527†	1748.7	0.0225	mg/L	0.00029	0.0225	mg/L	0.00029	1.29%
Be 234.861†	158.9	0.00003	mg/L	0.000081	0.00003	mg/L	0.000081	246.49%
B 249.677†	1336.3	0.0268	mg/L	0.00050	0.0268	mg/L	0.00050	1.86%
Ca 227.546†	45.3	0.367	mg/L	0.0322	0.367	mg/L	0.0322	8.79%
Cd 228.802†	-3.8	-0.00004	mg/L	0.000157	-0.00004	mg/L	0.000157	373.97%
Co 228.616†	50.3	0.00163	mg/L	0.000204	0.00163	mg/L	0.000204	12.55%
Cr 267.716†	278.2	0.00047	mg/L	0.000114	0.00047	mg/L	0.000114	24.29%
Cu 327.393†	-258.7	-0.00070	mg/L	0.000430	-0.00070	mg/L	0.000430	61.42%
Fe 239.562†	285.9	0.413	mg/L	0.0142	0.413	mg/L	0.0142	3.45%
Mg 279.077†	354.7	0.332	mg/L	0.0051	0.332	mg/L	0.0051	1.54%
Mn 257.610†	26514.0	0.0588	mg/L	0.00139	0.0588	mg/L	0.00139	2.36%
Mo 202.031†	0.5	-0.00297	mg/L	0.000470	-0.00297	mg/L	0.000470	15.80%
Ni 231.604†	77.4	0.00006	mg/L	0.000154	0.00006	mg/L	0.000154	277.67%
Pb 220.353†	-7.0	-0.00306	mg/L	0.000436	-0.00306	mg/L	0.000436	14.22%
Sb 206.836†	-3.5	-0.00453	mg/L	0.000612	-0.00453	mg/L	0.000612	13.53%
Se 196.026†	-0.1	-0.00348	mg/L	0.002014	-0.00348	mg/L	0.002014	57.94%
Si 251.611†	148201.5	4.36	mg/L	0.096	4.36	mg/L	0.096	2.20%
Sn 189.927†	-12.8	-0.00401	mg/L	0.001127	-0.00401	mg/L	0.001127	28.10%
Ti 334.940†	2916.6	0.00345	mg/L	0.000091	0.00345	mg/L	0.000091	2.63%
Tl 190.801†	1.6	-0.00332	mg/L	0.001631	-0.00332	mg/L	0.001631	49.15%
V 290.880†	-139.6	-0.00133	mg/L	0.000920	-0.00133	mg/L	0.000920	68.93%
Zn 206.200†	-91.9	-0.00480	mg/L	0.000096	-0.00480	mg/L	0.000096	1.99%
K 766.490†	1584.8	0.580	mg/L	0.0510	0.580	mg/L	0.0510	8.78%
Na 589.592†	26383.2	2.03	mg/L	0.032	2.03	mg/L	0.032	1.56%
Sr 407.771†	6767.0	0.00054	mg/L	0.000072	0.00054	mg/L	0.000072	13.17%
Li 670.784†	-215.9	-0.00453	mg/L	0.000605	-0.00453	mg/L	0.000605	13.35%

Sequence No.: 12
Sample ID: L1012071405 WG352673-01
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 1/7/2011 4:53:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012071405 WG352673-01

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012071405 WG352673-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5668372.3						43448.01	0.77%
YRADIAL	370010.0						6191.53	1.67%
Ga 417.206	1598667.8						6295.82	0.39%
GaRADIAL	85769.6						2215.32	2.58%
Ag 328.068†	-94.9	-0.00083	mg/L	0.000552	-0.00083	mg/L	0.000552	66.81%
Al 396.153†	2958.2	0.510	mg/L	0.0127	0.510	mg/L	0.0127	2.50%
As 188.979†	0.1	0.00062	mg/L	0.001379	0.00062	mg/L	0.001379	223.83%
Ba 233.527†	2044.2	0.0269	mg/L	0.00033	0.0269	mg/L	0.00033	1.23%
Be 234.861†	158.7	-0.00002	mg/L	0.000058	-0.00002	mg/L	0.000058	252.98%
B 249.677†	1350.9	0.0279	mg/L	0.00172	0.0279	mg/L	0.00172	6.18%
Ca 227.546†	74.9	0.623	mg/L	0.0742	0.623	mg/L	0.0742	11.92%
Cd 228.802†	-5.7	-0.00016	mg/L	0.000102	-0.00016	mg/L	0.000102	66.05%
Co 228.616†	9.0	-0.00039	mg/L	0.000209	-0.00039	mg/L	0.000209	53.63%
Cr 267.716†	430.5	0.00181	mg/L	0.000030	0.00181	mg/L	0.000030	1.67%
Cu 327.393†	-192.7	-0.00020	mg/L	0.000544	-0.00020	mg/L	0.000544	265.68%
Fe 239.562†	425.3	0.623	mg/L	0.0151	0.623	mg/L	0.0151	2.43%
Mg 279.077†	491.6	0.480	mg/L	0.0154	0.480	mg/L	0.0154	3.22%
Mn 257.610†	9084.0	0.0198	mg/L	0.00026	0.0198	mg/L	0.00026	1.30%

Approved: January 10, 2011

Mo 202.031†	4.3	-0.00273	mg/L	0.000411	-0.00273	mg/L	0.000411	15.05%
Ni 231.604†	99.1	0.00063	mg/L	0.000275	0.00063	mg/L	0.000275	43.73%
Pb 220.353†	-14.6	-0.00413	mg/L	0.000864	-0.00413	mg/L	0.000864	20.91%
Sb 206.836†	-2.8	-0.00415	mg/L	0.000765	-0.00415	mg/L	0.000765	18.44%
Se 196.026†	-5.2	-0.00655	mg/L	0.001482	-0.00655	mg/L	0.001482	22.64%
Si 251.611†	156154.1	4.60	mg/L	0.041	4.60	mg/L	0.041	0.90%
Sn 189.927†	-18.3	-0.00487	mg/L	0.000369	-0.00487	mg/L	0.000369	7.57%
Ti 334.940†	4605.3	0.00565	mg/L	0.000151	0.00565	mg/L	0.000151	2.67%
Tl 190.801†	3.6	-0.00229	mg/L	0.001540	-0.00229	mg/L	0.001540	67.17%
V 290.880†	-33.2	-0.00064	mg/L	0.001615	-0.00064	mg/L	0.001615	251.29%
Zn 206.200†	48.9	-0.00082	mg/L	0.000123	-0.00082	mg/L	0.000123	15.04%
K 766.490†	1861.5	0.679	mg/L	0.0306	0.679	mg/L	0.0306	4.50%
Na 589.592†	21649.9	1.66	mg/L	0.012	1.66	mg/L	0.012	0.74%
Sr 407.771†	10356.1	0.00265	mg/L	0.000087	0.00265	mg/L	0.000087	3.28%
Li 670.784†	-225.5	-0.00465	mg/L	0.001019	-0.00465	mg/L	0.001019	21.93%

Sequence No.: 13 **Autosampler Location: 77**
Sample ID: L1012071408S WG352673-04 **Date Collected: 1/7/2011 4:59:57 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071408S WG352673-04

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071408S WG352673-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5573502.3						31569.98	0.57%
YRADIAL	366214.4						7398.90	2.02%
Ga 417.206	1603758.0						29157.86	1.82%
GaRADIAL	83928.1						620.05	0.74%
Ag 328.068†	36742.8	0.200	mg/L	0.0034	0.200	mg/L	0.0034	1.70%
Al 396.153†	29315.1	5.24	mg/L	0.006	5.24	mg/L	0.006	0.11%
As 188.979†	230.8	0.190	mg/L	0.0027	0.190	mg/L	0.0027	1.43%
Ba 233.527†	34656.6	0.521	mg/L	0.0019	0.521	mg/L	0.0019	0.37%
Be 234.861†	16062.2	0.0245	mg/L	0.00043	0.0245	mg/L	0.00043	1.77%
B 249.677†	50008.4	1.01	mg/L	0.020	1.01	mg/L	0.020	1.99%
Ca 227.546†	638.5	5.74	mg/L	0.072	5.74	mg/L	0.072	1.26%
Cd 228.802†	463.3	0.0231	mg/L	0.00027	0.0231	mg/L	0.00027	1.19%
Co 228.616†	2052.6	0.0977	mg/L	0.00070	0.0977	mg/L	0.00070	0.71%
Cr 267.716†	29038.5	0.250	mg/L	0.0021	0.250	mg/L	0.0021	0.85%
Cu 327.393†	33748.4	0.245	mg/L	0.0044	0.245	mg/L	0.0044	1.81%
Fe 239.562†	1433.5	2.15	mg/L	0.012	2.15	mg/L	0.012	0.58%
Mg 279.077†	5088.3	5.44	mg/L	0.071	5.44	mg/L	0.071	1.31%
Mn 257.610†	117871.0	0.266	mg/L	0.0015	0.266	mg/L	0.0015	0.56%
Mo 202.031†	7881.9	0.498	mg/L	0.0038	0.498	mg/L	0.0038	0.76%
Ni 231.604†	9658.4	0.253	mg/L	0.0025	0.253	mg/L	0.0025	0.99%
Pb 220.353†	1679.0	0.245	mg/L	0.0009	0.245	mg/L	0.0009	0.38%
Sb 206.836†	1074.6	0.594	mg/L	0.0103	0.594	mg/L	0.0103	1.74%
Se 196.026†	314.3	0.193	mg/L	0.0029	0.193	mg/L	0.0029	1.48%
Si 251.611†	224329.3	6.60	mg/L	0.118	6.60	mg/L	0.118	1.79%
Sn 189.927†	3283.3	0.506	mg/L	0.0034	0.506	mg/L	0.0034	0.68%
Ti 334.940†	385551.5	0.501	mg/L	0.0023	0.501	mg/L	0.0023	0.46%
Tl 190.801†	474.7	0.255	mg/L	0.0024	0.255	mg/L	0.0024	0.94%
V 290.880†	75286.0	0.490	mg/L	0.0014	0.490	mg/L	0.0014	0.29%
Zn 206.200†	17328.2	0.489	mg/L	0.0041	0.489	mg/L	0.0041	0.83%
K 766.490†	70261.0	25.2	mg/L	0.17	25.2	mg/L	0.17	0.69%
Na 589.592†	363349.9	28.1	mg/L	0.40	28.1	mg/L	0.40	1.41%
Sr 407.771†	874150.3	0.515	mg/L	0.0054	0.515	mg/L	0.0054	1.05%
Li 670.784†	42654.9	0.510	mg/L	0.0074	0.510	mg/L	0.0074	1.44%

Sequence No.: 14 **Autosampler Location: 78**
Sample ID: L1012071411SD WG352673-05 **Date Collected: 1/7/2011 5:06:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1012071411SD WG352673-05

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071411SD WG352673-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5502174.0						60528.75	1.10%
YRADIAL	354254.4						4428.92	1.25%
Ga 417.206	1565332.2						6058.25	0.39%
GaRADIAL	81279.7						1335.53	1.64%
Ag 328.068†	37268.1	0.202	mg/L	0.0003	0.202	mg/L	0.0003	0.15%
Al 396.153†	29023.3	5.19	mg/L	0.008	5.19	mg/L	0.008	0.15%
As 188.979†	229.4	0.189	mg/L	0.0025	0.189	mg/L	0.0025	1.34%
Ba 233.527†	34725.4	0.522	mg/L	0.0009	0.522	mg/L	0.0009	0.17%
Be 234.861†	16397.6	0.0250	mg/L	0.00021	0.0250	mg/L	0.00021	0.85%
B 249.677†	50871.6	1.03	mg/L	0.004	1.03	mg/L	0.004	0.38%
Ca 227.546†	657.9	5.91	mg/L	0.046	5.91	mg/L	0.046	0.78%
Cd 228.802†	469.0	0.0234	mg/L	0.00033	0.0234	mg/L	0.00033	1.41%
Co 228.616†	2062.1	0.0981	mg/L	0.00116	0.0981	mg/L	0.00116	1.18%
Cr 267.716†	28993.8	0.250	mg/L	0.0009	0.250	mg/L	0.0009	0.37%
Cu 327.393†	34386.1	0.250	mg/L	0.0009	0.250	mg/L	0.0009	0.35%
Fe 239.562†	1474.7	2.21	mg/L	0.020	2.21	mg/L	0.020	0.90%
Mg 279.077†	5204.2	5.56	mg/L	0.048	5.56	mg/L	0.048	0.87%
Mn 257.610†	118262.0	0.267	mg/L	0.0007	0.267	mg/L	0.0007	0.24%
Mo 202.031†	7865.4	0.496	mg/L	0.0038	0.496	mg/L	0.0038	0.77%
Ni 231.604†	9697.9	0.254	mg/L	0.0006	0.254	mg/L	0.0006	0.25%
Pb 220.353†	1698.9	0.248	mg/L	0.0029	0.248	mg/L	0.0029	1.18%
Sb 206.836†	1089.7	0.602	mg/L	0.0024	0.602	mg/L	0.0024	0.40%
Se 196.026†	309.5	0.190	mg/L	0.0048	0.190	mg/L	0.0048	2.51%
Si 251.611†	227061.6	6.68	mg/L	0.033	6.68	mg/L	0.033	0.49%
Sn 189.927†	3363.1	0.518	mg/L	0.0072	0.518	mg/L	0.0072	1.40%
Ti 334.940†	386506.2	0.502	mg/L	0.0024	0.502	mg/L	0.0024	0.47%
Tl 190.801†	471.2	0.253	mg/L	0.0042	0.253	mg/L	0.0042	1.65%
V 290.880†	75468.2	0.491	mg/L	0.0025	0.491	mg/L	0.0025	0.51%
Zn 206.200†	17201.7	0.485	mg/L	0.0023	0.485	mg/L	0.0023	0.47%
K 766.490†	69617.6	25.0	mg/L	0.17	25.0	mg/L	0.17	0.68%
Na 589.592†	358850.3	27.8	mg/L	0.41	27.8	mg/L	0.41	1.49%
Sr 407.771†	859668.1	0.506	mg/L	0.0054	0.506	mg/L	0.0054	1.06%
Li 670.784†	41708.3	0.499	mg/L	0.0055	0.499	mg/L	0.0055	1.10%

Sequence No.: 15
Sample ID: L1012071414
Analyst: PDM
Initial Sample Wt:
Dilution:
Autosampler Location: 79
Date Collected: 1/7/2011 5:14:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012071414

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012071414

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5689936.6						112803.41	1.98%
YRADIAL	369838.2						3215.39	0.87%
Ga 417.206	1581935.1						52204.55	3.30%
GaRADIAL	84765.6						1314.53	1.55%
Ag 328.068†	-445.4	-0.00224	mg/L	0.000310	-0.00224	mg/L	0.000310	13.83%
Al 396.153†	14745.7	2.63	mg/L	0.014	2.63	mg/L	0.014	0.53%
As 188.979†	0.2	0.00172	mg/L	0.000954	0.00172	mg/L	0.000954	55.29%
Ba 233.527†	2557.4	0.0347	mg/L	0.00085	0.0347	mg/L	0.00085	2.45%
Be 234.861†	1712.5	0.00034	mg/L	0.000045	0.00034	mg/L	0.000045	13.23%
B 249.677†	361.3	0.0446	mg/L	0.00090	0.0446	mg/L	0.00090	2.03%
Ca 227.546†	60.9	0.575	mg/L	0.0823	0.575	mg/L	0.0823	14.32%
Cd 228.802†	-4.4	-0.00005	mg/L	0.000183	-0.00005	mg/L	0.000183	402.73%
Co 228.616†	84.5	0.00304	mg/L	0.000083	0.00304	mg/L	0.000083	2.74%
Cr 267.716†	1863.3	0.0146	mg/L	0.00078	0.0146	mg/L	0.00078	5.30%

Approved: January 10, 2011

Cu 327.393†	377.5	0.00452	mg/L	0.000103	0.00452	mg/L	0.000103	2.28%
Fe 239.562†	5974.1	9.00	mg/L	0.068	9.00	mg/L	0.068	0.75%
Mg 279.077†	836.2	0.847	mg/L	0.0117	0.847	mg/L	0.0117	1.38%
Mn 257.610†	115002.8	0.259	mg/L	0.0056	0.259	mg/L	0.0056	2.18%
Mo 202.031†	17.8	-0.00141	mg/L	0.000242	-0.00141	mg/L	0.000242	17.14%
Ni 231.604†	457.0	0.0101	mg/L	0.00048	0.0101	mg/L	0.00048	4.76%
Pb 220.353†	22.7	0.00111	mg/L	0.000795	0.00111	mg/L	0.000795	71.48%
Sb 206.836†	1.4	-0.00204	mg/L	0.002885	-0.00204	mg/L	0.002885	141.75%
Se 196.026†	-4.0	-0.00476	mg/L	0.001434	-0.00476	mg/L	0.001434	30.10%
Si 251.611†	215556.8	6.35	mg/L	0.188	6.35	mg/L	0.188	2.96%
Sn 189.927†	-14.3	-0.00425	mg/L	0.000152	-0.00425	mg/L	0.000152	3.58%
Ti 334.940†	10519.2	0.0133	mg/L	0.00033	0.0133	mg/L	0.00033	2.51%
Tl 190.801†	0.7	-0.00337	mg/L	0.003163	-0.00337	mg/L	0.003163	93.85%
V 290.880†	476.7	0.00232	mg/L	0.000765	0.00232	mg/L	0.000765	33.03%
Zn 206.200†	265.1	0.00515	mg/L	0.000366	0.00515	mg/L	0.000366	7.10%
K 766.490†	2187.6	0.796	mg/L	0.0154	0.796	mg/L	0.0154	1.94%
Na 589.592†	18320.5	1.41	mg/L	0.028	1.41	mg/L	0.028	2.02%
Sr 407.771†	10112.2	0.00174	mg/L	0.000060	0.00174	mg/L	0.000060	3.44%
Li 670.784†	167.6	0.00007	mg/L	0.000647	0.00007	mg/L	0.000647	864.40%

Sequence No.: 16 **Autosampler Location: 80**
Sample ID: L1012071414PS WG353287-01 **Date Collected: 1/7/2011 5:20:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071414PS WG353287-01

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012071414PS WG353287-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5554129.4						56544.61	1.02%
YRADIAL	360100.9						3673.36	1.02%
Ga 417.206	1562331.1						16934.33	1.08%
GaRADIAL	81158.0						305.52	0.38%
Ag 328.068†	38640.9	0.210	mg/L	0.0018	0.210	mg/L	0.0018	0.85%
Al 396.153†	42568.5	7.62	mg/L	0.037	7.62	mg/L	0.037	0.49%
As 188.979†	246.5	0.204	mg/L	0.0015	0.204	mg/L	0.0015	0.72%
Ba 233.527†	36758.8	0.553	mg/L	0.0113	0.553	mg/L	0.0113	2.04%
Be 234.861†	18590.4	0.0264	mg/L	0.00022	0.0264	mg/L	0.00022	0.83%
B 249.677†	51334.8	1.07	mg/L	0.022	1.07	mg/L	0.022	2.03%
Ca 227.546†	656.7	5.97	mg/L	0.050	5.97	mg/L	0.050	0.84%
Cd 228.802†	505.1	0.0252	mg/L	0.00041	0.0252	mg/L	0.00041	1.63%
Co 228.616†	2182.5	0.104	mg/L	0.0013	0.104	mg/L	0.0013	1.25%
Cr 267.716†	31233.7	0.270	mg/L	0.0054	0.270	mg/L	0.0054	2.01%
Cu 327.393†	36245.6	0.264	mg/L	0.0016	0.264	mg/L	0.0016	0.60%
Fe 239.562†	6815.6	10.3	mg/L	0.22	10.3	mg/L	0.22	2.16%
Mg 279.077†	5640.2	6.03	mg/L	0.156	6.03	mg/L	0.156	2.59%
Mn 257.610†	218266.6	0.492	mg/L	0.0097	0.492	mg/L	0.0097	1.97%
Mo 202.031†	8107.4	0.512	mg/L	0.0156	0.512	mg/L	0.0156	3.05%
Ni 231.604†	10292.4	0.270	mg/L	0.0060	0.270	mg/L	0.0060	2.21%
Pb 220.353†	1761.1	0.257	mg/L	0.0043	0.257	mg/L	0.0043	1.69%
Sb 206.836†	1144.4	0.626	mg/L	0.0101	0.626	mg/L	0.0101	1.61%
Se 196.026†	322.9	0.200	mg/L	0.0014	0.200	mg/L	0.0014	0.70%
Si 251.611†	284827.7	8.38	mg/L	0.124	8.38	mg/L	0.124	1.48%
Sn 189.927†	-28.3	-0.00642	mg/L	0.000141	-0.00642	mg/L	0.000141	2.19%
Ti 334.940†	405530.5	0.527	mg/L	0.0031	0.527	mg/L	0.0031	0.59%
Tl 190.801†	481.0	0.259	mg/L	0.0025	0.259	mg/L	0.0025	0.95%
V 290.880†	78784.8	0.512	mg/L	0.0081	0.512	mg/L	0.0081	1.58%
Zn 206.200†	18298.0	0.516	mg/L	0.0116	0.516	mg/L	0.0116	2.25%
K 766.490†	73094.7	26.2	mg/L	0.14	26.2	mg/L	0.14	0.53%
Na 589.592†	372540.8	28.8	mg/L	0.10	28.8	mg/L	0.10	0.33%
Sr 407.771†	890121.0	0.523	mg/L	0.0014	0.523	mg/L	0.0014	0.27%
Li 670.784†	44014.7	0.527	mg/L	0.0033	0.527	mg/L	0.0033	0.62%

Sequence No.: 17 **Autosampler Location: 81**
Sample ID: L1012071414DL WG353287-02 **Date Collected: 1/7/2011 5:26:37 PM**

Approved: January 10, 2011

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071414DL WG353287-02

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071414DL WG353287-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5692295.6						44753.86	0.79%
YRADIAL	367258.3						4695.28	1.28%
Ga 417.206	1571011.2						21836.65	1.39%
GaRADIAL	84415.7						1975.40	2.34%
Ag 328.068†	-163.5	-0.00113	mg/L	0.000770	-0.00113	mg/L	0.000770	68.19%
Al 396.153†	2881.3	0.496	mg/L	0.0081	0.496	mg/L	0.0081	1.64%
As 188.979†	1.9	0.00226	mg/L	0.002473	0.00226	mg/L	0.002473	109.62%
Ba 233.527†	504.7	0.00367	mg/L	0.000070	0.00367	mg/L	0.000070	1.91%
Be 234.861†	382.3	0.00004	mg/L	0.000078	0.00004	mg/L	0.000078	220.85%
B 249.677†	872.6	0.0237	mg/L	0.00208	0.0237	mg/L	0.00208	8.77%
Ca 227.546†	12.7	0.107	mg/L	0.0287	0.107	mg/L	0.0287	26.83%
Cd 228.802†	-5.6	-0.00015	mg/L	0.000050	-0.00015	mg/L	0.000050	32.49%
Co 228.616†	16.1	-0.00006	mg/L	0.000058	-0.00006	mg/L	0.000058	94.42%
Cr 267.716†	375.6	0.00140	mg/L	0.000117	0.00140	mg/L	0.000117	8.35%
Cu 327.393†	-106.2	0.00050	mg/L	0.000548	0.00050	mg/L	0.000548	109.50%
Fe 239.562†	1203.9	1.80	mg/L	0.029	1.80	mg/L	0.029	1.61%
Mg 279.077†	162.1	0.124	mg/L	0.0084	0.124	mg/L	0.0084	6.80%
Mn 257.610†	22960.6	0.0505	mg/L	0.00040	0.0505	mg/L	0.00040	0.80%
Mo 202.031†	-1.2	-0.00302	mg/L	0.000119	-0.00302	mg/L	0.000119	3.95%
Ni 231.604†	77.1	0.00005	mg/L	0.000199	0.00005	mg/L	0.000199	424.04%
Pb 220.353†	-7.5	-0.00319	mg/L	0.000956	-0.00319	mg/L	0.000956	30.01%
Sb 206.836†	-0.8	-0.00309	mg/L	0.000914	-0.00309	mg/L	0.000914	29.55%
Se 196.026†	-1.5	-0.00423	mg/L	0.000511	-0.00423	mg/L	0.000511	12.07%
Si 251.611†	43027.0	1.26	mg/L	0.010	1.26	mg/L	0.010	0.76%
Sn 189.927†	-13.2	-0.00409	mg/L	0.000410	-0.00409	mg/L	0.000410	10.04%
Ti 334.940†	2023.4	0.00228	mg/L	0.000202	0.00228	mg/L	0.000202	8.85%
Tl 190.801†	-0.3	-0.00434	mg/L	0.000887	-0.00434	mg/L	0.000887	20.46%
V 290.880†	-70.1	-0.00096	mg/L	0.000741	-0.00096	mg/L	0.000741	77.34%
Zn 206.200†	-115.8	-0.00550	mg/L	0.000157	-0.00550	mg/L	0.000157	2.85%
K 766.490†	307.3	0.127	mg/L	0.0146	0.127	mg/L	0.0146	11.46%
Na 589.592†	3023.0	0.237	mg/L	0.0103	0.237	mg/L	0.0103	4.34%
Sr 407.771†	1434.3	-0.00275	mg/L	0.000082	-0.00275	mg/L	0.000082	2.98%
Li 670.784†	-175.0	-0.00404	mg/L	0.001123	-0.00404	mg/L	0.001123	27.81%

Sequence No.: 18 **Autosampler Location: 82**
Sample ID: L1012071417 **Date Collected: 1/7/2011 5:33:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071417

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071417

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5643765.8						41672.07	0.74%
YRADIAL	355548.9						7294.41	2.05%
Ga 417.206	1594402.7						13281.27	0.83%
GaRADIAL	82472.8						858.19	1.04%
Ag 328.068†	-58.5	-0.00065	mg/L	0.000652	-0.00065	mg/L	0.000652	99.56%
Al 396.153†	678.9	0.0999	mg/L	0.00357	0.0999	mg/L	0.00357	3.57%
As 188.979†	1.2	0.00151	mg/L	0.000443	0.00151	mg/L	0.000443	29.41%
Ba 233.527†	414.7	0.00231	mg/L	0.000074	0.00231	mg/L	0.000074	3.19%
Be 234.861†	45.6	-0.00009	mg/L	0.000016	-0.00009	mg/L	0.000016	18.37%
B 249.677†	1025.9	0.0197	mg/L	0.00046	0.0197	mg/L	0.00046	2.31%

Approved: January 10, 2011

Ca 227.546†	105.2	0.880	mg/L	0.0507	0.880	mg/L	0.0507	5.76%
Cd 228.802†	-4.9	-0.00012	mg/L	0.000127	-0.00012	mg/L	0.000127	102.15%
Co 228.616†	-0.8	-0.00084	mg/L	0.000175	-0.00084	mg/L	0.000175	20.89%
Cr 267.716†	461.8	0.00208	mg/L	0.000143	0.00208	mg/L	0.000143	6.89%
Cu 327.393†	-228.8	-0.00050	mg/L	0.000825	-0.00050	mg/L	0.000825	163.39%
Fe 239.562†	132.1	0.181	mg/L	0.0036	0.181	mg/L	0.0036	2.01%
Mg 279.077†	776.2	0.787	mg/L	0.0093	0.787	mg/L	0.0093	1.18%
Mn 257.610†	3971.0	0.00826	mg/L	0.000029	0.00826	mg/L	0.000029	0.35%
Mo 202.031†	3.8	-0.00279	mg/L	0.000163	-0.00279	mg/L	0.000163	5.85%
Ni 231.604†	102.7	0.00072	mg/L	0.000153	0.00072	mg/L	0.000153	21.13%
Pb 220.353†	-7.0	-0.00305	mg/L	0.001706	-0.00305	mg/L	0.001706	56.02%
Sb 206.836†	-1.5	-0.00348	mg/L	0.000103	-0.00348	mg/L	0.000103	2.97%
Se 196.026†	0.8	-0.00281	mg/L	0.001240	-0.00281	mg/L	0.001240	44.15%
Si 251.611†	146012.7	4.30	mg/L	0.050	4.30	mg/L	0.050	1.16%
Sn 189.927†	-19.1	-0.00499	mg/L	0.000459	-0.00499	mg/L	0.000459	9.19%
Ti 334.940†	407.1	0.00019	mg/L	0.000111	0.00019	mg/L	0.000111	57.82%
Tl 190.801†	2.3	-0.00308	mg/L	0.002664	-0.00308	mg/L	0.002664	86.47%
V 290.880†	-98.5	-0.00103	mg/L	0.000472	-0.00103	mg/L	0.000472	45.94%
Zn 206.200†	-59.3	-0.00387	mg/L	0.000067	-0.00387	mg/L	0.000067	1.73%
K 766.490†	510.3	0.198	mg/L	0.0040	0.198	mg/L	0.0040	2.01%
Na 589.592†	22031.3	1.69	mg/L	0.020	1.69	mg/L	0.020	1.17%
Sr 407.771†	10187.3	0.00259	mg/L	0.000131	0.00259	mg/L	0.000131	5.05%
Li 670.784†	63.3	-0.00118	mg/L	0.000331	-0.00118	mg/L	0.000331	28.11%

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Sequence No.: 19 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 5:39:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	**Back Pressure**	**Flow**
All	175.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5359656.1						82452.89	1.54%
YRADIAL	346820.0						7345.14	2.12%
Ga 417.206	1531278.9						23838.08	1.56%
GaRADIAL	81173.7						1233.75	1.52%
Ag 328.068†	74483.5	0.405	mg/L	0.0090	0.405	mg/L	0.0090	2.21%
QC value within limits for Ag 328.068 Recovery = 101.20%								
Al 396.153†	58740.5	10.5	mg/L	0.01	10.5	mg/L	0.01	0.13%
QC value within limits for Al 396.153 Recovery = 105.22%								
As 188.979†	489.4	0.402	mg/L	0.0065	0.402	mg/L	0.0065	1.62%
QC value within limits for As 188.979 Recovery = 100.45%								
Ba 233.527†	68039.3	1.03	mg/L	0.019	1.03	mg/L	0.019	1.86%
QC value within limits for Ba 233.527 Recovery = 102.73%								
Be 234.861†	33442.1	0.0512	mg/L	0.00109	0.0512	mg/L	0.00109	2.14%
QC value within limits for Be 234.861 Recovery = 102.32%								
B 249.677†	25926.2	0.528	mg/L	0.0114	0.528	mg/L	0.0114	2.16%
QC value within limits for B 249.677 Recovery = 105.66%								
Ca 227.546†	1203.9	10.9	mg/L	0.18	10.9	mg/L	0.18	1.66%
QC value within limits for Ca 227.546 Recovery = 108.96%								
Cd 228.802†	994.2	0.0494	mg/L	0.00100	0.0494	mg/L	0.00100	2.02%
QC value within limits for Cd 228.802 Recovery = 98.85%								
Co 228.616†	4335.6	0.207	mg/L	0.0034	0.207	mg/L	0.0034	1.65%
QC value within limits for Co 228.616 Recovery = 103.63%								
Cr 267.716†	59378.0	0.514	mg/L	0.0122	0.514	mg/L	0.0122	2.38%
QC value within limits for Cr 267.716 Recovery = 102.74%								
Cu 327.393†	69530.2	0.504	mg/L	0.0130	0.504	mg/L	0.0130	2.58%
QC value within limits for Cu 327.393 Recovery = 100.88%								
Fe 239.562†	2816.8	4.23	mg/L	0.054	4.23	mg/L	0.054	1.27%
QC value within limits for Fe 239.562 Recovery = 105.87%								
Mg 279.077†	9794.8	10.5	mg/L	0.14	10.5	mg/L	0.14	1.34%
QC value within limits for Mg 279.077 Recovery = 105.15%								
Mn 257.610†	229220.1	0.517	mg/L	0.0101	0.517	mg/L	0.0101	1.94%
QC value within limits for Mn 257.610 Recovery = 103.46%								
Mo 202.031†	16237.3	1.03	mg/L	0.016	1.03	mg/L	0.016	1.60%

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   QC value within limits for Mo 202.031  Recovery = 102.81%
Ni 231.604†            19548.3       0.514 mg/L        0.0127       0.514 mg/L        0.0127   2.47%
   QC value within limits for Ni 231.604  Recovery = 102.77%
Pb 220.353†             3603.5       0.527 mg/L        0.0081       0.527 mg/L        0.0081   1.54%
   QC value within limits for Pb 220.353  Recovery = 105.44%
Sb 206.836†             2296.0        1.27 mg/L         0.024        1.27 mg/L         0.024   1.91%
   QC value within limits for Sb 206.836  Recovery = 105.91%
Se 196.026†              674.0       0.418 mg/L        0.0080       0.418 mg/L        0.0080   1.90%
   QC value within limits for Se 196.026  Recovery = 104.56%
Si 251.611†           172093.3        5.05 mg/L         0.105        5.05 mg/L         0.105   2.08%
   QC value within limits for Si 251.611  Recovery = 101.03%
Sn 189.927†             6803.4        1.05 mg/L         0.019        1.05 mg/L         0.019   1.76%
   QC value within limits for Sn 189.927  Recovery = 105.07%
Ti 334.940†           805057.5        1.05 mg/L         0.001        1.05 mg/L         0.001   0.08%
   QC value within limits for Ti 334.940  Recovery = 104.58%
Tl 190.801†              983.8       0.533 mg/L        0.0092       0.533 mg/L        0.0092   1.73%
   QC value within limits for Tl 190.801  Recovery = 106.63%
V 290.880†            155639.5        1.01 mg/L         0.022        1.01 mg/L         0.022   2.20%
   QC value within limits for V 290.880  Recovery = 101.34%
Zn 206.200†            36029.3        1.02 mg/L         0.021        1.02 mg/L         0.021   2.01%
   QC value within limits for Zn 206.200  Recovery = 101.88%
K 766.490†            143172.6        51.7 mg/L          0.30        51.7 mg/L          0.30   0.58%
   QC value within limits for K 766.490  Recovery = 103.42%
Na 589.592†           664933.7        52.0 mg/L          1.47        52.0 mg/L          1.47   2.83%
   QC value within limits for Na 589.592  Recovery = 103.92%
Sr 407.771†          1824187.1        1.08 mg/L         0.027        1.08 mg/L         0.027   2.49%
   QC value within limits for Sr 407.771  Recovery = 107.75%
Li 670.784†            88299.7        1.06 mg/L         0.012        1.06 mg/L         0.012   1.15%
   QC value within limits for Li 670.784  Recovery = 105.84%
All analyte(s) passed QC.

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Sequence No.: 20 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 5:46:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5511688.6						30003.34	0.54%
YRADIAL	355193.8						7101.24	2.00%
Ga 417.206	1512615.1						8219.01	0.54%
GaRADIAL	81196.2						713.81	0.88%
Ag 328.068†	-27.7	-0.00050	mg/L	0.000338	-0.00050	mg/L	0.000338	67.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-81.8	-0.0368	mg/L	0.01457	-0.0368	mg/L	0.01457	39.58%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	3.6	0.00345	mg/L	0.003197	0.00345	mg/L	0.003197	92.69%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-15.0	-0.00419	mg/L	0.000043	-0.00419	mg/L	0.000043	1.04%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-5.1	-0.00012	mg/L	0.000027	-0.00012	mg/L	0.000027	22.25%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	956.0	0.0175	mg/L	0.00141	0.0175	mg/L	0.00141	8.01%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	6.7	0.0415	mg/L	0.02144	0.0415	mg/L	0.02144	51.64%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-6.1	-0.00020	mg/L	0.000092	-0.00020	mg/L	0.000092	46.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.8	-0.00075	mg/L	0.000167	-0.00075	mg/L	0.000167	22.26%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-16.9	-0.00208	mg/L	0.000031	-0.00208	mg/L	0.000031	1.50%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-339.2	-0.00132	mg/L	0.000270	-0.00132	mg/L	0.000270	20.50%
QC value within limits for Cu 327.393 Recovery = Not calculated								

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Fe 239.562†	0.2	-0.0186	mg/L	0.00479	-0.0186	mg/L	0.00479	25.75%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-8.5	-0.0591	mg/L	0.00582	-0.0591	mg/L	0.00582	9.84%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-189.5	-0.00190	mg/L	0.000009	-0.00190	mg/L	0.000009	0.50%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.6	-0.00294	mg/L	0.000140	-0.00294	mg/L	0.000140	4.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-21.2	-0.00254	mg/L	0.000188	-0.00254	mg/L	0.000188	7.39%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-3.7	-0.00261	mg/L	0.000891	-0.00261	mg/L	0.000891	34.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.7	-0.00348	mg/L	0.001012	-0.00348	mg/L	0.001012	29.09%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.6	-0.00575	mg/L	0.001234	-0.00575	mg/L	0.001234	21.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-43.7	-0.00561	mg/L	0.000228	-0.00561	mg/L	0.000228	4.07%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-5.5	-0.00289	mg/L	0.000502	-0.00289	mg/L	0.000502	17.41%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-128.3	-0.00051	mg/L	0.000219	-0.00051	mg/L	0.000219	42.79%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-6.2	-0.00758	mg/L	0.003832	-0.00758	mg/L	0.003832	50.55%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-206.3	-0.00177	mg/L	0.000978	-0.00177	mg/L	0.000978	55.21%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-245.4	-0.00914	mg/L	0.000196	-0.00914	mg/L	0.000196	2.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	-201.5	-0.0537	mg/L	0.04615	-0.0537	mg/L	0.04615	86.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-944.7	-0.0671	mg/L	0.00396	-0.0671	mg/L	0.00396	5.90%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	-685.5	-0.00383	mg/L	0.000028	-0.00383	mg/L	0.000028	0.74%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	-162.5	-0.00389	mg/L	0.000555	-0.00389	mg/L	0.000555	14.27%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 21 **Autosampler Location: 83**
Sample ID: L1012071420 **Date Collected: 1/7/2011 5:53:15 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071420

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: L1012071420

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5648937.1						23464.10	0.42%
YRADIAL	364177.8						5752.52	1.58%
Ga 417.206	1572623.4						16435.37	1.05%
GaRADIAL	83700.5						1528.23	1.83%
Ag 328.068†	-406.5	-0.00212	mg/L	0.000236	-0.00212	mg/L	0.000236	11.16%
Al 396.153†	18599.5	3.32	mg/L	0.010	3.32	mg/L	0.010	0.31%
As 188.979†	0.7	0.00196	mg/L	0.001821	0.00196	mg/L	0.001821	92.68%
Ba 233.527†	2226.2	0.0297	mg/L	0.00041	0.0297	mg/L	0.00041	1.39%
Be 234.861†	1389.5	0.00022	mg/L	0.000143	0.00022	mg/L	0.000143	65.62%
B 249.677†	129.7	0.0320	mg/L	0.00212	0.0320	mg/L	0.00212	6.62%
Ca 227.546†	56.1	0.531	mg/L	0.0814	0.531	mg/L	0.0814	15.32%
Cd 228.802†	-4.5	-0.00004	mg/L	0.000040	-0.00004	mg/L	0.000040	107.34%
Co 228.616†	109.3	0.00430	mg/L	0.000444	0.00430	mg/L	0.000444	10.34%
Cr 267.716†	3824.1	0.0315	mg/L	0.00031	0.0315	mg/L	0.00031	0.97%
Cu 327.393†	481.2	0.00515	mg/L	0.000406	0.00515	mg/L	0.000406	7.87%
Fe 239.562†	4966.8	7.48	mg/L	0.105	7.48	mg/L	0.105	1.40%
Mg 279.077†	1198.3	1.24	mg/L	0.022	1.24	mg/L	0.022	1.74%
Mn 257.610†	95880.9	0.216	mg/L	0.0010	0.216	mg/L	0.0010	0.46%
Mo 202.031†	56.8	0.00097	mg/L	0.000111	0.00097	mg/L	0.000111	11.39%

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Ni 231.604†	958.2	0.0233	mg/L	0.00021	0.0233	mg/L	0.00021	0.91%
Pb 220.353†	4.6	-0.00135	mg/L	0.000598	-0.00135	mg/L	0.000598	44.17%
Sb 206.836†	-1.5	-0.00381	mg/L	0.000739	-0.00381	mg/L	0.000739	19.41%
Se 196.026†	-2.9	-0.00441	mg/L	0.004569	-0.00441	mg/L	0.004569	103.51%
Si 251.611†	250128.3	7.37	mg/L	0.069	7.37	mg/L	0.069	0.94%
Sn 189.927†	-14.5	-0.00428	mg/L	0.001081	-0.00428	mg/L	0.001081	25.25%
Ti 334.940†	6546.5	0.00816	mg/L	0.000187	0.00816	mg/L	0.000187	2.29%
Tl 190.801†	0.5	-0.00360	mg/L	0.002113	-0.00360	mg/L	0.002113	58.74%
V 290.880†	168.0	0.00040	mg/L	0.000780	0.00040	mg/L	0.000780	196.72%
Zn 206.200†	662.6	0.0165	mg/L	0.00025	0.0165	mg/L	0.00025	1.51%
K 766.490†	1196.0	0.442	mg/L	0.0148	0.442	mg/L	0.0148	3.34%
Na 589.592†	18071.8	1.39	mg/L	0.017	1.39	mg/L	0.017	1.21%
Sr 407.771†	8077.4	0.00067	mg/L	0.000125	0.00067	mg/L	0.000125	18.65%
Li 670.784†	675.5	0.00617	mg/L	0.000667	0.00617	mg/L	0.000667	10.81%

Sequence No.: 22 **Autosampler Location: 84**
Sample ID: L1012071423 **Date Collected: 1/7/2011 5:59:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012071423

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012071423

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5608232.0						35379.90	0.63%
YRADIAL	361631.0						2670.45	0.74%
Ga 417.206	1571667.6						7885.89	0.50%
GaRADIAL	83633.5						1505.28	1.80%
Ag 328.068†	-240.8	-0.00143	mg/L	0.000478	-0.00143	mg/L	0.000478	33.44%
Al 396.153†	11713.7	2.08	mg/L	0.009	2.08	mg/L	0.009	0.44%
As 188.979†	1.8	0.00244	mg/L	0.003825	0.00244	mg/L	0.003825	157.03%
Ba 233.527†	1450.2	0.0180	mg/L	0.00009	0.0180	mg/L	0.00009	0.48%
Be 234.861†	712.2	0.00005	mg/L	0.000156	0.00005	mg/L	0.000156	312.93%
B 249.677†	415.4	0.0223	mg/L	0.00083	0.0223	mg/L	0.00083	3.74%
Ca 227.546†	68.8	0.603	mg/L	0.0904	0.603	mg/L	0.0904	15.00%
Cd 228.802†	-0.4	0.00013	mg/L	0.000239	0.00013	mg/L	0.000239	187.49%
Co 228.616†	52.6	0.00165	mg/L	0.000208	0.00165	mg/L	0.000208	12.63%
Cr 267.716†	2317.4	0.0183	mg/L	0.00050	0.0183	mg/L	0.00050	2.75%
Cu 327.393†	228.7	0.00307	mg/L	0.000063	0.00307	mg/L	0.000063	2.07%
Fe 239.562†	2565.2	3.86	mg/L	0.066	3.86	mg/L	0.066	1.71%
Mg 279.077†	900.7	0.919	mg/L	0.0204	0.919	mg/L	0.0204	2.21%
Mn 257.610†	48586.7	0.109	mg/L	0.0012	0.109	mg/L	0.0012	1.09%
Mo 202.031†	25.7	-0.00120	mg/L	0.000416	-0.00120	mg/L	0.000416	34.72%
Ni 231.604†	544.0	0.0124	mg/L	0.00041	0.0124	mg/L	0.00041	3.31%
Pb 220.353†	-0.1	-0.00200	mg/L	0.000660	-0.00200	mg/L	0.000660	33.03%
Sb 206.836†	-3.3	-0.00462	mg/L	0.000784	-0.00462	mg/L	0.000784	16.97%
Se 196.026†	-4.4	-0.00575	mg/L	0.002194	-0.00575	mg/L	0.002194	38.13%
Si 251.611†	217806.5	6.41	mg/L	0.049	6.41	mg/L	0.049	0.77%
Sn 189.927†	-13.2	-0.00408	mg/L	0.000672	-0.00408	mg/L	0.000672	16.47%
Ti 334.940†	4797.6	0.00589	mg/L	0.000145	0.00589	mg/L	0.000145	2.47%
Tl 190.801†	-1.3	-0.00475	mg/L	0.003038	-0.00475	mg/L	0.003038	63.97%
V 290.880†	207.1	0.00080	mg/L	0.000419	0.00080	mg/L	0.000419	52.34%
Zn 206.200†	269.7	0.00541	mg/L	0.000174	0.00541	mg/L	0.000174	3.22%
K 766.490†	974.2	0.363	mg/L	0.0178	0.363	mg/L	0.0178	4.91%
Na 589.592†	18078.4	1.39	mg/L	0.010	1.39	mg/L	0.010	0.72%
Sr 407.771†	7875.2	0.00088	mg/L	0.000078	0.00088	mg/L	0.000078	8.83%
Li 670.784†	224.6	0.00076	mg/L	0.000334	0.00076	mg/L	0.000334	43.90%

Sequence No.: 23 **Autosampler Location: 85**
Sample ID: L1012071426 **Date Collected: 1/7/2011 6:06:35 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1012071426

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071426

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5648085.9						55640.53	0.99%
YRADIAL	366362.2						11538.79	3.15%
Ga 417.206	1573708.2						27420.30	1.74%
GaRADIAL	83715.3						758.69	0.91%
Ag 328.068†	-86.2	-0.00081	mg/L	0.000499	-0.00081	mg/L	0.000499	61.17%
Al 396.153†	-53.7	-0.0318	mg/L	0.01933	-0.0318	mg/L	0.01933	60.88%
As 188.979†	0.8	0.00113	mg/L	0.002369	0.00113	mg/L	0.002369	209.83%
Ba 233.527†	-20.0	-0.00426	mg/L	0.000094	-0.00426	mg/L	0.000094	2.21%
Be 234.861†	-0.8	-0.00011	mg/L	0.000022	-0.00011	mg/L	0.000022	19.13%
B 249.677†	678.2	0.0119	mg/L	0.00049	0.0119	mg/L	0.00049	4.10%
Ca 227.546†	-5.4	-0.0622	mg/L	0.09301	-0.0622	mg/L	0.09301	149.47%
Cd 228.802†	-4.3	-0.00009	mg/L	0.000098	-0.00009	mg/L	0.000098	105.18%
Co 228.616†	0.4	-0.00077	mg/L	0.000294	-0.00077	mg/L	0.000294	38.36%
Cr 267.716†	28.1	-0.00169	mg/L	0.000163	-0.00169	mg/L	0.000163	9.61%
Cu 327.393†	-247.8	-0.00066	mg/L	0.000423	-0.00066	mg/L	0.000423	64.43%
Fe 239.562†	-1.1	-0.0207	mg/L	0.00399	-0.0207	mg/L	0.00399	19.31%
Mg 279.077†	-8.7	-0.0594	mg/L	0.00545	-0.0594	mg/L	0.00545	9.18%
Mn 257.610†	-150.8	-0.00181	mg/L	0.000009	-0.00181	mg/L	0.000009	0.48%
Mo 202.031†	-3.6	-0.00327	mg/L	0.000363	-0.00327	mg/L	0.000363	11.09%
Ni 231.604†	-18.4	-0.00247	mg/L	0.000071	-0.00247	mg/L	0.000071	2.89%
Pb 220.353†	-15.3	-0.00430	mg/L	0.000575	-0.00430	mg/L	0.000575	13.36%
Sb 206.836†	-2.8	-0.00414	mg/L	0.001068	-0.00414	mg/L	0.001068	25.77%
Se 196.026†	-2.3	-0.00496	mg/L	0.000903	-0.00496	mg/L	0.000903	18.22%
Si 251.611†	53.5	-0.00274	mg/L	0.000157	-0.00274	mg/L	0.000157	5.74%
Sn 189.927†	-13.0	-0.00405	mg/L	0.000743	-0.00405	mg/L	0.000743	18.34%
Ti 334.940†	-123.2	-0.00051	mg/L	0.000108	-0.00051	mg/L	0.000108	21.28%
Tl 190.801†	0.6	-0.00394	mg/L	0.002683	-0.00394	mg/L	0.002683	68.04%
V 290.880†	-159.3	-0.00147	mg/L	0.000631	-0.00147	mg/L	0.000631	43.09%
Zn 206.200†	-198.7	-0.00782	mg/L	0.000092	-0.00782	mg/L	0.000092	1.17%
K 766.490†	-157.8	-0.0381	mg/L	0.01645	-0.0381	mg/L	0.01645	43.16%
Na 589.592†	-1165.0	-0.0839	mg/L	0.00570	-0.0839	mg/L	0.00570	6.80%
Sr 407.771†	-743.0	-0.00387	mg/L	0.000044	-0.00387	mg/L	0.000044	1.14%
Li 670.784†	-263.8	-0.00511	mg/L	0.001453	-0.00511	mg/L	0.001453	28.45%

Sequence No.: 24
Sample ID: L1012071429
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 86
Date Collected: 1/7/2011 6:13:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012071429

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012071429

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5804404.6						46597.76	0.80%
YRADIAL	372637.8						3347.97	0.90%
Ga 417.206	1615997.3						15479.13	0.96%
GaRADIAL	85349.2						1953.34	2.29%
Ag 328.068†	-106.4	-0.00092	mg/L	0.000206	-0.00092	mg/L	0.000206	22.32%
Al 396.153†	-49.2	-0.0309	mg/L	0.00380	-0.0309	mg/L	0.00380	12.29%
As 188.979†	-2.6	-0.00169	mg/L	0.002825	-0.00169	mg/L	0.002825	167.16%
Ba 233.527†	-13.3	-0.00416	mg/L	0.000069	-0.00416	mg/L	0.000069	1.66%
Be 234.861†	-4.9	-0.00012	mg/L	0.000005	-0.00012	mg/L	0.000005	4.41%
B 249.677†	599.9	0.0104	mg/L	0.00030	0.0104	mg/L	0.00030	2.87%
Ca 227.546†	1.8	-0.00011	mg/L	0.071616	-0.00011	mg/L	0.071616	>999.9%
Cd 228.802†	-5.8	-0.00015	mg/L	0.000078	-0.00015	mg/L	0.000078	52.93%
Co 228.616†	1.1	-0.00074	mg/L	0.000284	-0.00074	mg/L	0.000284	38.56%
Cr 267.716†	70.8	-0.00132	mg/L	0.000113	-0.00132	mg/L	0.000113	8.55%
Cu 327.393†	-291.1	-0.00097	mg/L	0.000299	-0.00097	mg/L	0.000299	30.90%

Approved: January 10, 2011

Fe 239.562†	0.9	-0.0176	mg/L	0.00224	-0.0176	mg/L	0.00224	12.75%
Mg 279.077†	-10.4	-0.0612	mg/L	0.00207	-0.0612	mg/L	0.00207	3.37%
Mn 257.610†	-158.7	-0.00183	mg/L	0.000012	-0.00183	mg/L	0.000012	0.63%
Mo 202.031†	-6.8	-0.00347	mg/L	0.000251	-0.00347	mg/L	0.000251	7.23%
Ni 231.604†	-8.5	-0.00221	mg/L	0.000213	-0.00221	mg/L	0.000213	9.60%
Pb 220.353†	-14.7	-0.00421	mg/L	0.000448	-0.00421	mg/L	0.000448	10.64%
Sb 206.836†	-4.2	-0.00487	mg/L	0.000957	-0.00487	mg/L	0.000957	19.65%
Se 196.026†	-3.0	-0.00543	mg/L	0.001346	-0.00543	mg/L	0.001346	24.78%
Si 251.611†	31.7	-0.00338	mg/L	0.000459	-0.00338	mg/L	0.000459	13.56%
Sn 189.927†	-12.0	-0.00389	mg/L	0.000571	-0.00389	mg/L	0.000571	14.69%
Ti 334.940†	-44.6	-0.00040	mg/L	0.000111	-0.00040	mg/L	0.000111	27.47%
Tl 190.801†	3.2	-0.00254	mg/L	0.001881	-0.00254	mg/L	0.001881	74.07%
V 290.880†	-164.6	-0.00150	mg/L	0.000259	-0.00150	mg/L	0.000259	17.27%
Zn 206.200†	-205.4	-0.00801	mg/L	0.000061	-0.00801	mg/L	0.000061	0.76%
K 766.490†	-256.4	-0.0732	mg/L	0.03747	-0.0732	mg/L	0.03747	51.20%
Na 589.592†	-1273.4	-0.0922	mg/L	0.00281	-0.0922	mg/L	0.00281	3.04%
Sr 407.771†	-759.6	-0.00388	mg/L	0.000069	-0.00388	mg/L	0.000069	1.77%
Li 670.784†	-276.8	-0.00526	mg/L	0.000932	-0.00526	mg/L	0.000932	17.71%

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Sequence No.: 25 **Autosampler Location: 87**
Sample ID: L1012081201 **Date Collected: 1/7/2011 6:19:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012081201

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012081201

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5514826.2						65958.23	1.20%
YRADIAL	357960.8						6085.97	1.70%
Ga 417.206	1619303.9						28699.72	1.77%
GaRADIAL	84175.1						1624.99	1.93%
Ag 328.068†	688.5	0.00332	mg/L	0.000733	0.00332	mg/L	0.000733	22.06%
Al 396.153†	-143.0	-0.0478	mg/L	0.00348	-0.0478	mg/L	0.00348	7.27%
As 188.979†	22.1	0.0174	mg/L	0.00154	0.0174	mg/L	0.00154	8.86%
Ba 233.527†	498.0	0.00356	mg/L	0.000089	0.00356	mg/L	0.000089	2.51%
Be 234.861†	63.0	-0.00006	mg/L	0.000015	-0.00006	mg/L	0.000015	27.31%
B 249.677†	2023.2	0.0403	mg/L	0.00094	0.0403	mg/L	0.00094	2.34%
Ca 227.546†	7964.3	68.4	mg/L	1.48	68.4	mg/L	1.48	2.16%
Cd 228.802†	-2.8	-0.00014	mg/L	0.000107	-0.00014	mg/L	0.000107	78.03%
Co 228.616†	-0.5	-0.00082	mg/L	0.000303	-0.00082	mg/L	0.000303	36.91%
Cr 267.716†	61.2	-0.00146	mg/L	0.000056	-0.00146	mg/L	0.000056	3.82%
Cu 327.393†	-317.7	-0.00114	mg/L	0.000378	-0.00114	mg/L	0.000378	33.03%
Fe 239.562†	168.0	0.234	mg/L	0.0028	0.234	mg/L	0.0028	1.21%
Mg 279.077†	19074.5	20.5	mg/L	0.23	20.5	mg/L	0.23	1.14%
Mn 257.610†	75235.1	0.168	mg/L	0.0035	0.168	mg/L	0.0035	2.10%
Mo 202.031†	-1.8	-0.00311	mg/L	0.000145	-0.00311	mg/L	0.000145	4.67%
Ni 231.604†	-14.8	-0.00240	mg/L	0.000102	-0.00240	mg/L	0.000102	4.25%
Pb 220.353†	-42.0	-0.00491	mg/L	0.001164	-0.00491	mg/L	0.001164	23.70%
Sb 206.836†	44.8	0.0215	mg/L	0.00266	0.0215	mg/L	0.00266	12.34%
Se 196.026†	-37.0	-0.00949	mg/L	0.002665	-0.00949	mg/L	0.002665	28.09%
Si 251.611†	219930.1	6.48	mg/L	0.155	6.48	mg/L	0.155	2.40%
Sn 189.927†	-116.6	-0.0201	mg/L	0.00007	-0.0201	mg/L	0.00007	0.35%
Ti 334.940†	-1116.9	-0.00111	mg/L	0.000191	-0.00111	mg/L	0.000191	17.18%
Tl 190.801†	59.3	0.0215	mg/L	0.00581	0.0215	mg/L	0.00581	27.03%
V 290.880†	-1128.4	-0.00656	mg/L	0.000305	-0.00656	mg/L	0.000305	4.65%
Zn 206.200†	-20.6	-0.00278	mg/L	0.000054	-0.00278	mg/L	0.000054	1.96%
K 766.490†	4120.3	1.47	mg/L	0.023	1.47	mg/L	0.023	1.55%
Na 589.592†	196350.7	15.1	mg/L	0.14	15.1	mg/L	0.14	0.90%
Sr 407.771†	362389.7	0.211	mg/L	0.0017	0.211	mg/L	0.0017	0.81%
Li 670.784†	-284.5	-0.00535	mg/L	0.000346	-0.00535	mg/L	0.000346	6.46%

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Sequence No.: 26 **Autosampler Location: 88**
Sample ID: L1012081301 **Date Collected: 1/7/2011 6:26:39 PM**
Analyst: PDM **Data Type: Original**

Approved: January 10, 2011

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012081301

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012081301

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5479362.0						49717.69	0.91%
YRADIAL	357588.2						6994.31	1.96%
Ga 417.206	1619912.6						13303.34	0.82%
GaRADIAL	83507.1						1031.92	1.24%
Ag 328.068†	498.2	0.00236	mg/L	0.000222	0.00236	mg/L	0.000222	9.42%
Al 396.153†	671.8	0.0987	mg/L	0.00239	0.0987	mg/L	0.00239	2.42%
As 188.979†	23.7	0.0189	mg/L	0.00403	0.0189	mg/L	0.00403	21.27%
Ba 233.527†	1737.4	0.0223	mg/L	0.00018	0.0223	mg/L	0.00018	0.79%
Be 234.861†	196.2	-0.00007	mg/L	0.000105	-0.00007	mg/L	0.000105	153.74%
B 249.677†	1411.8	0.0319	mg/L	0.00027	0.0319	mg/L	0.00027	0.84%
Ca 227.546†	7367.9	63.2	mg/L	0.39	63.2	mg/L	0.39	0.62%
Cd 228.802†	-5.0	-0.00025	mg/L	0.000214	-0.00025	mg/L	0.000214	84.48%
Co 228.616†	-0.1	-0.00084	mg/L	0.000465	-0.00084	mg/L	0.000465	55.22%
Cr 267.716†	150.6	-0.00063	mg/L	0.000064	-0.00063	mg/L	0.000064	10.19%
Cu 327.393†	-268.9	-0.00072	mg/L	0.000573	-0.00072	mg/L	0.000573	79.69%
Fe 239.562†	752.7	1.12	mg/L	0.012	1.12	mg/L	0.012	1.04%
Mg 279.077†	9574.1	10.3	mg/L	0.13	10.3	mg/L	0.13	1.24%
Mn 257.610†	70696.9	0.158	mg/L	0.0012	0.158	mg/L	0.0012	0.77%
Mo 202.031†	-3.9	-0.00320	mg/L	0.000653	-0.00320	mg/L	0.000653	20.42%
Ni 231.604†	-9.9	-0.00227	mg/L	0.000233	-0.00227	mg/L	0.000233	10.30%
Pb 220.353†	-31.8	-0.00371	mg/L	0.000214	-0.00371	mg/L	0.000214	5.76%
Sb 206.836†	44.9	0.0216	mg/L	0.00104	0.0216	mg/L	0.00104	4.83%
Se 196.026†	-34.2	-0.00891	mg/L	0.003784	-0.00891	mg/L	0.003784	42.49%
Si 251.611†	149189.6	4.39	mg/L	0.054	4.39	mg/L	0.054	1.24%
Sn 189.927†	-111.9	-0.0193	mg/L	0.00034	-0.0193	mg/L	0.00034	1.75%
Ti 334.940†	3084.9	0.00430	mg/L	0.000204	0.00430	mg/L	0.000204	4.74%
Tl 190.801†	57.9	0.0213	mg/L	0.00587	0.0213	mg/L	0.00587	27.59%
V 290.880†	-520.7	-0.00326	mg/L	0.001322	-0.00326	mg/L	0.001322	40.58%
Zn 206.200†	109.4	0.00088	mg/L	0.000084	0.00088	mg/L	0.000084	9.51%
K 766.490†	7505.9	2.69	mg/L	0.025	2.69	mg/L	0.025	0.94%
Na 589.592†	85953.4	6.60	mg/L	0.086	6.60	mg/L	0.086	1.30%
Sr 407.771†	348427.2	0.203	mg/L	0.0026	0.203	mg/L	0.0026	1.29%
Li 670.784†	-321.1	-0.00579	mg/L	0.000589	-0.00579	mg/L	0.000589	10.17%

Sequence No.: 27 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 6:33:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5247317.2						39329.85	0.75%
YRADIAL	342571.3						11324.52	3.31%
Ga 417.206	1493020.9						2401.00	0.16%
GaRADIAL	79128.8						3649.27	4.61%
Ag 328.068†	77491.2	0.421	mg/L	0.0028	0.421	mg/L	0.0028	0.68%
QC value within limits for Ag 328.068 Recovery = 105.29%								
Al 396.153†	60532.0	10.8	mg/L	0.02	10.8	mg/L	0.02	0.15%
QC value within limits for Al 396.153 Recovery = 108.44%								
As 188.979†	500.3	0.411	mg/L	0.0048	0.411	mg/L	0.0048	1.18%
QC value within limits for As 188.979 Recovery = 102.68%								
Ba 233.527†	70247.1	1.06	mg/L	0.004	1.06	mg/L	0.004	0.35%

Approved: January 10, 2011

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   QC value within limits for Ba 233.527  Recovery = 106.08%
Be 234.861†            34739.2      0.0532 mg/L       0.00051      0.0532 mg/L       0.00051   0.96%
   QC value within limits for Be 234.861  Recovery = 106.35%
B 249.677†             26400.8       0.538 mg/L        0.0033       0.538 mg/L        0.0033   0.61%
   QC value within limits for B 249.677  Recovery = 107.54%
Ca 227.546†             1241.6        11.2 mg/L          0.06        11.2 mg/L          0.06   0.58%
   QC value greater than the upper limit for Ca 227.546  Recovery = 112.37%
Cd 228.802†             1026.4      0.0510 mg/L       0.00032      0.0510 mg/L       0.00032   0.63%
   QC value within limits for Cd 228.802  Recovery = 102.04%
Co 228.616†             4412.5       0.211 mg/L        0.0013       0.211 mg/L        0.0013   0.61%
   QC value within limits for Co 228.616  Recovery = 105.48%
Cr 267.716†            61323.3       0.531 mg/L        0.0029       0.531 mg/L        0.0029   0.54%
   QC value within limits for Cr 267.716  Recovery = 106.11%
Cu 327.393†            72891.5       0.529 mg/L        0.0049       0.529 mg/L        0.0049   0.93%
   QC value within limits for Cu 327.393  Recovery = 105.73%
Fe 239.562†             2845.5        4.28 mg/L         0.193        4.28 mg/L         0.193   4.51%
   QC value within limits for Fe 239.562  Recovery = 106.95%
Mg 279.077†             9908.1        10.6 mg/L          0.44        10.6 mg/L          0.44   4.17%
   QC value within limits for Mg 279.077  Recovery = 106.37%
Mn 257.610†           236938.5       0.535 mg/L        0.0020       0.535 mg/L        0.0020   0.37%
   QC value within limits for Mn 257.610  Recovery = 106.95%
Mo 202.031†            16840.8        1.07 mg/L         0.008        1.07 mg/L         0.008   0.72%
   QC value within limits for Mo 202.031  Recovery = 106.64%
Ni 231.604†            20156.0       0.530 mg/L        0.0029       0.530 mg/L        0.0029   0.54%
   QC value within limits for Ni 231.604  Recovery = 105.98%
Pb 220.353†             3651.4       0.534 mg/L        0.0044       0.534 mg/L        0.0044   0.83%
   QC value within limits for Pb 220.353  Recovery = 106.88%
Sb 206.836†             2363.0        1.31 mg/L         0.006        1.31 mg/L         0.006   0.42%
   QC value within limits for Sb 206.836  Recovery = 109.01%
Se 196.026†              687.6       0.427 mg/L        0.0061       0.427 mg/L        0.0061   1.43%
   QC value within limits for Se 196.026  Recovery = 106.68%
Si 251.611†           179175.6        5.26 mg/L         0.044        5.26 mg/L         0.044   0.84%
   QC value within limits for Si 251.611  Recovery = 105.19%
Sn 189.927†             6908.1        1.07 mg/L         0.006        1.07 mg/L         0.006   0.55%
   QC value within limits for Sn 189.927  Recovery = 106.69%
Ti 334.940†           818386.9        1.06 mg/L         0.003        1.06 mg/L         0.003   0.28%
   QC value within limits for Ti 334.940  Recovery = 106.32%
Tl 190.801†              995.9       0.540 mg/L        0.0042       0.540 mg/L        0.0042   0.78%
   QC value within limits for Tl 190.801  Recovery = 107.96%
V 290.880†            161215.9        1.05 mg/L         0.005        1.05 mg/L         0.005   0.43%
   QC value within limits for V 290.880  Recovery = 104.97%
Zn 206.200†            37098.1        1.05 mg/L         0.008        1.05 mg/L         0.008   0.78%
   QC value within limits for Zn 206.200  Recovery = 104.91%
K 766.490†            145996.6        52.7 mg/L          0.39        52.7 mg/L          0.39   0.74%
   QC value within limits for K 766.490  Recovery = 105.49%
Na 589.592†           677844.2        53.0 mg/L          0.70        53.0 mg/L          0.70   1.32%
   QC value within limits for Na 589.592  Recovery = 105.98%
Sr 407.771†          1832415.2        1.08 mg/L         0.014        1.08 mg/L         0.014   1.29%
   QC value within limits for Sr 407.771  Recovery = 108.24%
Li 670.784†            90155.7        1.08 mg/L         0.011        1.08 mg/L         0.011   1.01%
   QC value within limits for Li 670.784  Recovery = 108.07%
QC Failed.  Continue with analysis.
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Sequence No.: 28 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 6:39:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	175.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5550490.9						53865.27	0.97%
YRADIAL	365217.9						13373.10	3.66%
Ga 417.206	1526425.4						19789.63	1.30%
GaRADIAL	83419.8						1253.52	1.50%

Approved: January 10, 2011

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Ag 328.068†              -82.2    -0.00079 mg/L      0.000311    -0.00079 mg/L      0.000311  39.23%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              -93.6     -0.0389 mg/L       0.00916     -0.0389 mg/L       0.00916  23.55%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†                1.1     0.00141 mg/L      0.005068     0.00141 mg/L      0.005068 360.34%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              -13.7    -0.00416 mg/L      0.000077    -0.00416 mg/L      0.000077   1.85%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              -17.1    -0.00014 mg/L      0.000020    -0.00014 mg/L      0.000020  14.92%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               363.9     0.00559 mg/L      0.000337     0.00559 mg/L      0.000337   6.03%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†                4.7      0.0243 mg/L       0.01918      0.0243 mg/L       0.01918  78.99%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†               -2.8    -0.00002 mg/L      0.000153    -0.00002 mg/L      0.000153 621.48%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               -5.5    -0.00105 mg/L      0.000207    -0.00105 mg/L      0.000207  19.61%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -26.2    -0.00216 mg/L      0.000027    -0.00216 mg/L      0.000027   1.24%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†             -307.6    -0.00109 mg/L      0.000395    -0.00109 mg/L      0.000395  36.31%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               -1.9     -0.0218 mg/L       0.00315     -0.0218 mg/L       0.00315  14.45%
   QC value less than the lower limit for Fe 239.562  Recovery = Not calculated
Mg 279.077†               -8.6     -0.0592 mg/L       0.00127     -0.0592 mg/L       0.00127   2.15%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              -191.5    -0.00191 mg/L      0.000030    -0.00191 mg/L      0.000030   1.58%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -1.6    -0.00314 mg/L      0.000264    -0.00314 mg/L      0.000264   8.41%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -20.1    -0.00252 mg/L      0.000163    -0.00252 mg/L      0.000163   6.46%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -14.9    -0.00423 mg/L      0.000519    -0.00423 mg/L      0.000519  12.27%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -3.2    -0.00433 mg/L      0.003444    -0.00433 mg/L      0.003444  79.52%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.5    -0.00573 mg/L      0.000485    -0.00573 mg/L      0.000485   8.48%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -69.7    -0.00638 mg/L      0.000308    -0.00638 mg/L      0.000308   4.84%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -12.6    -0.00398 mg/L      0.000242    -0.00398 mg/L      0.000242   6.07%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -147.0    -0.00054 mg/L      0.000099    -0.00054 mg/L      0.000099  18.58%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -2.8    -0.00576 mg/L      0.001860    -0.00576 mg/L      0.001860  32.28%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -107.5    -0.00113 mg/L      0.000507    -0.00113 mg/L      0.000507  44.94%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             -249.6    -0.00926 mg/L      0.000146    -0.00926 mg/L      0.000146   1.58%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               -44.8     0.00213 mg/L      0.014644     0.00213 mg/L      0.014644 688.91%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -955.4     -0.0679 mg/L       0.02407     -0.0679 mg/L       0.02407  35.45%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             -634.5    -0.00380 mg/L      0.000170    -0.00380 mg/L      0.000170   4.47%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -176.0    -0.00405 mg/L      0.001539    -0.00405 mg/L      0.001539  38.00%
   QC value within limits for Li 670.784  Recovery = Not calculated
QC Failed.  Continue with analysis.

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**Sequence No.: 29**                                **Autosampler Location: 89**
**Sample ID: PBW 88 WG352575-01**                   **Date Collected: 1/7/2011 6:46:35 PM**
**Analyst: PDM**                                    **Data Type: Original**
**Initial Sample Wt:**                              **Initial Sample Vol:**
**Dilution:**                                       **Sample Prep Vol:**

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**Nebulizer Parameters: PBW 88 WG352575-01**
**Analyte**                **Back Pressure**    **Flow**
All                      174.0 kPa          0.50 L/min

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Approved: January 10, 2011

Mean Data: PBW 88 WG352575-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5531816.8						20003.78	0.36%
YRADIAL	360327.7						5127.84	1.42%
Ga 417.206	1539013.6						22636.64	1.47%
GaRADIAL	82357.3						1482.70	1.80%
Ag 328.068†	-47.2	-0.00060	mg/L	0.000306	-0.00060	mg/L	0.000306	50.73%
Al 396.153†	-114.8	-0.0427	mg/L	0.00582	-0.0427	mg/L	0.00582	13.61%
As 188.979†	2.0	0.00214	mg/L	0.002544	0.00214	mg/L	0.002544	118.94%
Ba 233.527†	-10.7	-0.00412	mg/L	0.000043	-0.00412	mg/L	0.000043	1.06%
Be 234.861†	-13.4	-0.00013	mg/L	0.000019	-0.00013	mg/L	0.000019	14.73%
B 249.677†	285.3	0.00401	mg/L	0.000424	0.00401	mg/L	0.000424	10.58%
Ca 227.546†	2.8	0.00823	mg/L	0.011215	0.00823	mg/L	0.011215	136.30%
Cd 228.802†	-2.0	0.00002	mg/L	0.000013	0.00002	mg/L	0.000013	85.30%
Co 228.616†	-2.4	-0.00090	mg/L	0.000168	-0.00090	mg/L	0.000168	18.52%
Cr 267.716†	-19.7	-0.00211	mg/L	0.000025	-0.00211	mg/L	0.000025	1.19%
Cu 327.393†	-301.0	-0.00104	mg/L	0.000284	-0.00104	mg/L	0.000284	27.26%
Fe 239.562†	-1.9	-0.0218	mg/L	0.00243	-0.0218	mg/L	0.00243	11.13%
Mg 279.077†	-7.0	-0.0575	mg/L	0.00246	-0.0575	mg/L	0.00246	4.28%
Mn 257.610†	-163.3	-0.00184	mg/L	0.000077	-0.00184	mg/L	0.000077	4.17%
Mo 202.031†	-6.7	-0.00346	mg/L	0.000234	-0.00346	mg/L	0.000234	6.74%
Ni 231.604†	-22.1	-0.00257	mg/L	0.000214	-0.00257	mg/L	0.000214	8.31%
Pb 220.353†	-9.3	-0.00342	mg/L	0.000716	-0.00342	mg/L	0.000716	20.92%
Sb 206.836†	-2.7	-0.00405	mg/L	0.000997	-0.00405	mg/L	0.000997	24.65%
Se 196.026†	-4.3	-0.00624	mg/L	0.001767	-0.00624	mg/L	0.001767	28.30%
Si 251.611†	-2.9	-0.00440	mg/L	0.000313	-0.00440	mg/L	0.000313	7.12%
Sn 189.927†	-14.7	-0.00430	mg/L	0.000387	-0.00430	mg/L	0.000387	9.00%
Ti 334.940†	-155.9	-0.00055	mg/L	0.000264	-0.00055	mg/L	0.000264	48.25%
Tl 190.801†	3.6	-0.00233	mg/L	0.003102	-0.00233	mg/L	0.003102	133.08%
V 290.880†	-182.1	-0.00161	mg/L	0.001330	-0.00161	mg/L	0.001330	82.44%
Zn 206.200†	-199.0	-0.00783	mg/L	0.000120	-0.00783	mg/L	0.000120	1.54%
K 766.490†	-162.9	-0.0399	mg/L	0.02640	-0.0399	mg/L	0.02640	66.17%
Na 589.592†	-1159.4	-0.0835	mg/L	0.00356	-0.0835	mg/L	0.00356	4.27%
Sr 407.771†	-734.8	-0.00386	mg/L	0.000122	-0.00386	mg/L	0.000122	3.15%
Li 670.784†	-272.3	-0.00521	mg/L	0.000531	-0.00521	mg/L	0.000531	10.19%

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Sequence No.: 30 **Autosampler Location: 90**
Sample ID: LCSW 88 WG352575-02 **Date Collected: 1/7/2011 6:53:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 88 WG352575-02

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: LCSW 88 WG352575-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5488303.3						23487.75	0.43%
YRADIAL	362519.7						7567.93	2.09%
Ga 417.206	1571665.7						9500.31	0.60%
GaRADIAL	83736.2						614.11	0.73%
Ag 328.068†	38314.7	0.208	mg/L	0.0015	0.208	mg/L	0.0015	0.72%
Al 396.153†	29079.5	5.20	mg/L	0.025	5.20	mg/L	0.025	0.48%
As 188.979†	240.3	0.197	mg/L	0.0035	0.197	mg/L	0.0035	1.77%
Ba 233.527†	34230.0	0.515	mg/L	0.0022	0.515	mg/L	0.0022	0.42%
Be 234.861†	16734.1	0.0256	mg/L	0.00017	0.0256	mg/L	0.00017	0.68%
B 249.677†	51128.0	1.03	mg/L	0.007	1.03	mg/L	0.007	0.64%
Ca 227.546†	586.8	5.31	mg/L	0.033	5.31	mg/L	0.033	0.62%
Cd 228.802†	483.0	0.0241	mg/L	0.00001	0.0241	mg/L	0.00001	0.06%
Co 228.616†	2131.9	0.102	mg/L	0.0007	0.102	mg/L	0.0007	0.66%
Cr 267.716†	29665.1	0.256	mg/L	0.0011	0.256	mg/L	0.0011	0.44%
Cu 327.393†	35056.5	0.255	mg/L	0.0020	0.255	mg/L	0.0020	0.78%
Fe 239.562†	1345.4	2.01	mg/L	0.026	2.01	mg/L	0.026	1.30%
Mg 279.077†	4740.5	5.06	mg/L	0.075	5.06	mg/L	0.075	1.47%
Mn 257.610†	115493.7	0.260	mg/L	0.0007	0.260	mg/L	0.0007	0.27%
Mo 202.031†	8166.0	0.516	mg/L	0.0041	0.516	mg/L	0.0041	0.79%
Ni 231.604†	9812.3	0.257	mg/L	0.0017	0.257	mg/L	0.0017	0.66%

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Pb 220.353†	1750.0	0.255 mg/L	0.0016	0.255 mg/L	0.0016	0.63%
Sb 206.836†	1137.3	0.623 mg/L	0.0065	0.623 mg/L	0.0065	1.05%
Se 196.026†	326.7	0.201 mg/L	0.0036	0.201 mg/L	0.0036	1.77%
Si 251.611†	89125.2	2.61 mg/L	0.014	2.61 mg/L	0.014	0.55%
Sn 189.927†	-29.5	-0.00660 mg/L	0.000532	-0.00660 mg/L	0.000532	8.06%
Ti 334.940†	398125.5	0.517 mg/L	0.0008	0.517 mg/L	0.0008	0.16%
Tl 190.801†	487.4	0.262 mg/L	0.0010	0.262 mg/L	0.0010	0.39%
V 290.880†	77727.7	0.506 mg/L	0.0017	0.506 mg/L	0.0017	0.35%
Zn 206.200†	17678.1	0.499 mg/L	0.0055	0.499 mg/L	0.0055	1.10%
K 766.490†	70844.5	25.4 mg/L	0.11	25.4 mg/L	0.11	0.45%
Na 589.592†	353906.8	27.4 mg/L	0.15	27.4 mg/L	0.15	0.56%
Sr 407.771†	900207.4	0.530 mg/L	0.0147	0.530 mg/L	0.0147	2.77%
Li 670.784†	44341.7	0.531 mg/L	0.0052	0.531 mg/L	0.0052	0.98%

Sequence No.: 31 **Autosampler Location: 91**
Sample ID: LCSW DUP WG352575-03 **Date Collected: 1/7/2011 6:59:57 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW DUP WG352575-03

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: LCSW DUP WG352575-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5479628.3						60438.73	1.10%
YRADIAL	361307.4						4178.79	1.16%
Ga 417.206	1571949.1						25500.55	1.62%
GaRADIAL	83467.6						1432.20	1.72%
Ag 328.068†	38428.7	0.209	mg/L	0.0035	0.209	mg/L	0.0035	1.69%
Al 396.153†	28834.2	5.15	mg/L	0.024	5.15	mg/L	0.024	0.46%
As 188.979†	236.5	0.194	mg/L	0.0038	0.194	mg/L	0.0038	1.94%
Ba 233.527†	34203.8	0.514	mg/L	0.0069	0.514	mg/L	0.0069	1.34%
Be 234.861†	16768.9	0.0256	mg/L	0.00048	0.0256	mg/L	0.00048	1.86%
B 249.677†	51742.8	1.05	mg/L	0.019	1.05	mg/L	0.019	1.81%
Ca 227.546†	591.4	5.35	mg/L	0.055	5.35	mg/L	0.055	1.03%
Cd 228.802†	483.1	0.0241	mg/L	0.00039	0.0241	mg/L	0.00039	1.63%
Co 228.616†	2130.4	0.101	mg/L	0.0010	0.101	mg/L	0.0010	0.94%
Cr 267.716†	29563.7	0.255	mg/L	0.0023	0.255	mg/L	0.0023	0.89%
Cu 327.393†	35669.3	0.259	mg/L	0.0048	0.259	mg/L	0.0048	1.85%
Fe 239.562†	1363.3	2.04	mg/L	0.020	2.04	mg/L	0.020	0.96%
Mg 279.077†	4800.1	5.13	mg/L	0.045	5.13	mg/L	0.045	0.88%
Mn 257.610†	115484.1	0.260	mg/L	0.0032	0.260	mg/L	0.0032	1.23%
Mo 202.031†	8149.2	0.514	mg/L	0.0061	0.514	mg/L	0.0061	1.19%
Ni 231.604†	9925.4	0.260	mg/L	0.0026	0.260	mg/L	0.0026	0.99%
Pb 220.353†	1758.6	0.256	mg/L	0.0021	0.256	mg/L	0.0021	0.83%
Sb 206.836†	1135.1	0.622	mg/L	0.0096	0.622	mg/L	0.0096	1.55%
Se 196.026†	329.5	0.203	mg/L	0.0061	0.203	mg/L	0.0061	3.00%
Si 251.611†	89485.0	2.62	mg/L	0.049	2.62	mg/L	0.049	1.86%
Sn 189.927†	-35.4	-0.00752	mg/L	0.000359	-0.00752	mg/L	0.000359	4.77%
Ti 334.940†	399937.5	0.519	mg/L	0.0064	0.519	mg/L	0.0064	1.24%
Tl 190.801†	485.8	0.261	mg/L	0.0044	0.261	mg/L	0.0044	1.70%
V 290.880†	78090.3	0.508	mg/L	0.0073	0.508	mg/L	0.0073	1.43%
Zn 206.200†	17422.4	0.492	mg/L	0.0037	0.492	mg/L	0.0037	0.75%
K 766.490†	70412.6	25.2	mg/L	0.10	25.2	mg/L	0.10	0.39%
Na 589.592†	347040.6	26.9	mg/L	0.69	26.9	mg/L	0.69	2.57%
Sr 407.771†	881863.2	0.519	mg/L	0.0112	0.519	mg/L	0.0112	2.16%
Li 670.784†	43806.3	0.524	mg/L	0.0018	0.524	mg/L	0.0018	0.35%

Sequence No.: 32 **Autosampler Location: 92**
Sample ID: L1012078509 **Date Collected: 1/7/2011 7:06:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078509

Approved: January 10, 2011

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078509

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5687367.6						34059.34	0.60%
YRADIAL	368942.7						16838.84	4.56%
Ga 417.206	1565211.5						10023.87	0.64%
GaRADIAL	84768.3						1630.96	1.92%
Ag 328.068†	-101.7	-0.00090	mg/L	0.000056	-0.00090	mg/L	0.000056	6.22%
Al 396.153†	-98.5	-0.0398	mg/L	0.00435	-0.0398	mg/L	0.00435	10.93%
As 188.979†	-3.3	-0.00229	mg/L	0.003934	-0.00229	mg/L	0.003934	171.63%
Ba 233.527†	-13.7	-0.00416	mg/L	0.000065	-0.00416	mg/L	0.000065	1.55%
Be 234.861†	-4.6	-0.00012	mg/L	0.000011	-0.00012	mg/L	0.000011	9.56%
B 249.677†	460.1	0.00754	mg/L	0.000316	0.00754	mg/L	0.000316	4.19%
Ca 227.546†	3.7	0.0166	mg/L	0.02071	0.0166	mg/L	0.02071	125.02%
Cd 228.802†	-5.5	-0.00013	mg/L	0.000031	-0.00013	mg/L	0.000031	23.98%
Co 228.616†	-1.5	-0.00086	mg/L	0.000227	-0.00086	mg/L	0.000227	26.27%
Cr 267.716†	48.6	-0.00152	mg/L	0.000118	-0.00152	mg/L	0.000118	7.78%
Cu 327.393†	-302.9	-0.00105	mg/L	0.000544	-0.00105	mg/L	0.000544	51.58%
Fe 239.562†	-1.1	-0.0206	mg/L	0.00154	-0.0206	mg/L	0.00154	7.48%
Mg 279.077†	-7.7	-0.0583	mg/L	0.00088	-0.0583	mg/L	0.00088	1.52%
Mn 257.610†	-146.9	-0.00181	mg/L	0.000032	-0.00181	mg/L	0.000032	1.75%
Mo 202.031†	-0.3	-0.00306	mg/L	0.000435	-0.00306	mg/L	0.000435	14.22%
Ni 231.604†	-2.6	-0.00206	mg/L	0.000132	-0.00206	mg/L	0.000132	6.42%
Pb 220.353†	-20.7	-0.00508	mg/L	0.000182	-0.00508	mg/L	0.000182	3.58%
Sb 206.836†	-3.3	-0.00437	mg/L	0.000071	-0.00437	mg/L	0.000071	1.63%
Se 196.026†	0.7	-0.00307	mg/L	0.002435	-0.00307	mg/L	0.002435	79.20%
Si 251.611†	72.1	-0.00220	mg/L	0.000589	-0.00220	mg/L	0.000589	26.80%
Sn 189.927†	-12.2	-0.00392	mg/L	0.000614	-0.00392	mg/L	0.000614	15.65%
Ti 334.940†	-83.7	-0.00045	mg/L	0.000097	-0.00045	mg/L	0.000097	21.41%
Tl 190.801†	3.1	-0.00261	mg/L	0.004007	-0.00261	mg/L	0.004007	153.39%
V 290.880†	-131.3	-0.00128	mg/L	0.000169	-0.00128	mg/L	0.000169	13.16%
Zn 206.200†	-191.7	-0.00762	mg/L	0.000168	-0.00762	mg/L	0.000168	2.20%
K 766.490†	-162.4	-0.0397	mg/L	0.01694	-0.0397	mg/L	0.01694	42.62%
Na 589.592†	-1052.5	-0.0753	mg/L	0.00638	-0.0753	mg/L	0.00638	8.47%
Sr 407.771†	-699.1	-0.00384	mg/L	0.000100	-0.00384	mg/L	0.000100	2.61%
Li 670.784†	-175.3	-0.00404	mg/L	0.000477	-0.00404	mg/L	0.000477	11.80%

Sequence No.: 33 **Autosampler Location: 93**
Sample ID: L1012078509PS WG353283-01 **Date Collected: 1/7/2011 7:13:19 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078509PS WG353283-01

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078509PS WG353283-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5593271.0						38863.88	0.69%
YRADIAL	353492.7						10309.17	2.92%
Ga 417.206	1599631.4						11531.20	0.72%
GaRADIAL	82416.6						1952.46	2.37%
Ag 328.068†	37463.8	0.203	mg/L	0.0026	0.203	mg/L	0.0026	1.25%
Al 396.153†	28421.0	5.08	mg/L	0.010	5.08	mg/L	0.010	0.20%
As 188.979†	232.2	0.191	mg/L	0.0013	0.191	mg/L	0.0013	0.71%
Ba 233.527†	33483.6	0.504	mg/L	0.0048	0.504	mg/L	0.0048	0.95%
Be 234.861†	16382.7	0.0250	mg/L	0.00030	0.0250	mg/L	0.00030	1.21%
B 249.677†	50384.3	1.02	mg/L	0.014	1.02	mg/L	0.014	1.42%
Ca 227.546†	579.3	5.24	mg/L	0.069	5.24	mg/L	0.069	1.32%
Cd 228.802†	471.2	0.0235	mg/L	0.00035	0.0235	mg/L	0.00035	1.49%
Co 228.616†	2087.4	0.0994	mg/L	0.00022	0.0994	mg/L	0.00022	0.22%
Cr 267.716†	28955.5	0.250	mg/L	0.0030	0.250	mg/L	0.0030	1.19%
Cu 327.393†	34538.2	0.251	mg/L	0.0052	0.251	mg/L	0.0052	2.06%
Fe 239.562†	1359.6	2.03	mg/L	0.047	2.03	mg/L	0.047	2.29%

Approved: January 10, 2011

Mg 279.077†	4817.5	5.15	mg/L	0.123	5.15	mg/L	0.123	2.38%
Mn 257.610†	113307.4	0.255	mg/L	0.0028	0.255	mg/L	0.0028	1.11%
Mo 202.031†	7977.8	0.504	mg/L	0.0050	0.504	mg/L	0.0050	1.00%
Ni 231.604†	9642.8	0.252	mg/L	0.0019	0.252	mg/L	0.0019	0.77%
Pb 220.353†	1712.2	0.250	mg/L	0.0012	0.250	mg/L	0.0012	0.49%
Sb 206.836†	1111.9	0.609	mg/L	0.0023	0.609	mg/L	0.0023	0.39%
Se 196.026†	320.6	0.197	mg/L	0.0033	0.197	mg/L	0.0033	1.66%
Si 251.611†	86996.4	2.55	mg/L	0.029	2.55	mg/L	0.029	1.15%
Sn 189.927†	-29.1	-0.00653	mg/L	0.000694	-0.00653	mg/L	0.000694	10.62%
Ti 334.940†	390535.1	0.507	mg/L	0.0073	0.507	mg/L	0.0073	1.43%
Tl 190.801†	474.1	0.255	mg/L	0.0016	0.255	mg/L	0.0016	0.63%
V 290.880†	76303.8	0.497	mg/L	0.0068	0.497	mg/L	0.0068	1.37%
Zn 206.200†	17351.7	0.490	mg/L	0.0073	0.490	mg/L	0.0073	1.48%
K 766.490†	69381.5	24.9	mg/L	0.08	24.9	mg/L	0.08	0.31%
Na 589.592†	348830.1	27.0	mg/L	0.41	27.0	mg/L	0.41	1.52%
Sr 407.771†	891359.8	0.525	mg/L	0.0074	0.525	mg/L	0.0074	1.41%
Li 670.784†	42667.2	0.510	mg/L	0.0041	0.510	mg/L	0.0041	0.80%

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Sequence No.: 34 **Autosampler Location: 94**
Sample ID: L1012078509DL WG353283-02 **Date Collected: 1/7/2011 7:20:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078509DL WG353283-02

Analyte	**Back Pressure**	**Flow**
All	175.0 kPa	0.50 L/min

Mean Data: L1012078509DL WG353283-02

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5603245.3						8845.85	0.16%
YRADIAL	368662.7						3499.14	0.95%
Ga 417.206	1548170.5						20729.03	1.34%
GaRADIAL	84067.9						1681.35	2.00%
Ag 328.068†	-10.4	-0.00040	mg/L	0.000198	-0.00040	mg/L	0.000198	48.96%
Al 396.153†	-45.6	-0.0303	mg/L	0.01435	-0.0303	mg/L	0.01435	47.38%
As 188.979†	0.9	0.00118	mg/L	0.001376	0.00118	mg/L	0.001376	116.77%
Ba 233.527†	-16.3	-0.00420	mg/L	0.000067	-0.00420	mg/L	0.000067	1.60%
Be 234.861†	-15.2	-0.00013	mg/L	0.000023	-0.00013	mg/L	0.000023	16.89%
B 249.677†	430.9	0.00693	mg/L	0.000156	0.00693	mg/L	0.000156	2.26%
Ca 227.546†	2.8	0.00795	mg/L	0.038233	0.00795	mg/L	0.038233	481.02%
Cd 228.802†	-2.7	-0.00001	mg/L	0.000214	-0.00001	mg/L	0.000214	>999.9%
Co 228.616†	1.1	-0.00073	mg/L	0.000128	-0.00073	mg/L	0.000128	17.51%
Cr 267.716†	0.3	-0.00193	mg/L	0.000013	-0.00193	mg/L	0.000013	0.66%
Cu 327.393†	-236.6	-0.00058	mg/L	0.000490	-0.00058	mg/L	0.000490	84.97%
Fe 239.562†	-2.4	-0.0225	mg/L	0.00164	-0.0225	mg/L	0.00164	7.29%
Mg 279.077†	-13.6	-0.0646	mg/L	0.00580	-0.0646	mg/L	0.00580	8.97%
Mn 257.610†	-157.7	-0.00183	mg/L	0.000043	-0.00183	mg/L	0.000043	2.34%
Mo 202.031†	-4.5	-0.00333	mg/L	0.000335	-0.00333	mg/L	0.000335	10.08%
Ni 231.604†	-15.1	-0.00239	mg/L	0.000213	-0.00239	mg/L	0.000213	8.93%
Pb 220.353†	-7.1	-0.00311	mg/L	0.001621	-0.00311	mg/L	0.001621	52.12%
Sb 206.836†	-5.0	-0.00532	mg/L	0.001050	-0.00532	mg/L	0.001050	19.75%
Se 196.026†	-0.2	-0.00367	mg/L	0.002911	-0.00367	mg/L	0.002911	79.34%
Si 251.611†	19.9	-0.00373	mg/L	0.000201	-0.00373	mg/L	0.000201	5.39%
Sn 189.927†	-9.6	-0.00353	mg/L	0.000135	-0.00353	mg/L	0.000135	3.84%
Ti 334.940†	-166.4	-0.00056	mg/L	0.000036	-0.00056	mg/L	0.000036	6.43%
Tl 190.801†	4.4	-0.00189	mg/L	0.002211	-0.00189	mg/L	0.002211	117.23%
V 290.880†	-123.1	-0.00123	mg/L	0.000503	-0.00123	mg/L	0.000503	40.91%
Zn 206.200†	-207.7	-0.00807	mg/L	0.000120	-0.00807	mg/L	0.000120	1.48%
K 766.490†	-142.5	-0.0327	mg/L	0.03386	-0.0327	mg/L	0.03386	103.67%
Na 589.592†	-993.9	-0.0708	mg/L	0.01163	-0.0708	mg/L	0.01163	16.42%
Sr 407.771†	-806.5	-0.00391	mg/L	0.000193	-0.00391	mg/L	0.000193	4.95%
Li 670.784†	-221.3	-0.00460	mg/L	0.000825	-0.00460	mg/L	0.000825	17.94%

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Sequence No.: 35 **Autosampler Location: 95**
Sample ID: L1012078510 **Date Collected: 1/7/2011 7:26:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Approved: January 10, 2011

Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078510

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078510

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5662475.7						54151.60	0.96%
YRADIAL	363610.7						7316.28	2.01%
Ga 417.206	1571710.1						14706.93	0.94%
GaRADIAL	83646.1						1029.75	1.23%
Ag 328.068†	-90.0	-0.00084	mg/L	0.000173	-0.00084	mg/L	0.000173	20.71%
Al 396.153†	-90.4	-0.0383	mg/L	0.00369	-0.0383	mg/L	0.00369	9.61%
As 188.979†	-0.0	0.00044	mg/L	0.004297	0.00044	mg/L	0.004297	984.62%
Ba 233.527†	-12.1	-0.00414	mg/L	0.000085	-0.00414	mg/L	0.000085	2.06%
Be 234.861†	-5.8	-0.00012	mg/L	0.000021	-0.00012	mg/L	0.000021	17.66%
B 249.677†	561.0	0.00958	mg/L	0.000092	0.00958	mg/L	0.000092	0.96%
Ca 227.546†	-5.5	-0.0628	mg/L	0.03273	-0.0628	mg/L	0.03273	52.13%
Cd 228.802†	-5.8	-0.00016	mg/L	0.000118	-0.00016	mg/L	0.000118	74.15%
Co 228.616†	3.9	-0.00060	mg/L	0.000262	-0.00060	mg/L	0.000262	43.86%
Cr 267.716†	30.7	-0.00167	mg/L	0.000081	-0.00167	mg/L	0.000081	4.87%
Cu 327.393†	-303.5	-0.00106	mg/L	0.000634	-0.00106	mg/L	0.000634	59.83%
Fe 239.562†	-0.1	-0.0191	mg/L	0.00254	-0.0191	mg/L	0.00254	13.34%
Mg 279.077†	-6.2	-0.0567	mg/L	0.00076	-0.0567	mg/L	0.00076	1.34%
Mn 257.610†	-173.1	-0.00186	mg/L	0.000017	-0.00186	mg/L	0.000017	0.90%
Mo 202.031†	-6.1	-0.00343	mg/L	0.000155	-0.00343	mg/L	0.000155	4.51%
Ni 231.604†	-10.1	-0.00225	mg/L	0.000191	-0.00225	mg/L	0.000191	8.46%
Pb 220.353†	-8.8	-0.00336	mg/L	0.000598	-0.00336	mg/L	0.000598	17.80%
Sb 206.836†	-6.1	-0.00594	mg/L	0.000227	-0.00594	mg/L	0.000227	3.82%
Se 196.026†	2.7	-0.00189	mg/L	0.002820	-0.00189	mg/L	0.002820	148.90%
Si 251.611†	104.4	-0.00124	mg/L	0.000322	-0.00124	mg/L	0.000322	26.00%
Sn 189.927†	-7.9	-0.00326	mg/L	0.000279	-0.00326	mg/L	0.000279	8.56%
Ti 334.940†	59.1	-0.00027	mg/L	0.000118	-0.00027	mg/L	0.000118	43.76%
Tl 190.801†	-3.0	-0.00584	mg/L	0.003680	-0.00584	mg/L	0.003680	63.04%
V 290.880†	-283.5	-0.00227	mg/L	0.000242	-0.00227	mg/L	0.000242	10.65%
Zn 206.200†	-190.1	-0.00757	mg/L	0.000044	-0.00757	mg/L	0.000044	0.58%
K 766.490†	-185.1	-0.0478	mg/L	0.02679	-0.0478	mg/L	0.02679	56.02%
Na 589.592†	-1047.8	-0.0750	mg/L	0.01807	-0.0750	mg/L	0.01807	24.10%
Sr 407.771†	-781.5	-0.00389	mg/L	0.000049	-0.00389	mg/L	0.000049	1.27%
Li 670.784†	-225.1	-0.00464	mg/L	0.001739	-0.00464	mg/L	0.001739	37.47%

Sequence No.: 36 **Autosampler Location: 96**
Sample ID: L1012078511 **Date Collected: 1/7/2011 7:33:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078511

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078511

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5652958.6						92575.48	1.64%
YRADIAL	364449.9						7239.83	1.99%
Ga 417.206	1569558.5						31046.04	1.98%
GaRADIAL	83762.0						248.62	0.30%
Ag 328.068†	-111.2	-0.00095	mg/L	0.000311	-0.00095	mg/L	0.000311	32.76%
Al 396.153†	-90.1	-0.0383	mg/L	0.00318	-0.0383	mg/L	0.00318	8.31%
As 188.979†	-1.2	-0.00049	mg/L	0.000879	-0.00049	mg/L	0.000879	178.03%
Ba 233.527†	-14.5	-0.00418	mg/L	0.000145	-0.00418	mg/L	0.000145	3.47%
Be 234.861†	-12.8	-0.00013	mg/L	0.000009	-0.00013	mg/L	0.000009	6.54%
B 249.677†	485.1	0.00808	mg/L	0.000245	0.00808	mg/L	0.000245	3.04%
Ca 227.546†	6.7	0.0419	mg/L	0.03847	0.0419	mg/L	0.03847	91.79%
Cd 228.802†	-5.0	-0.00012	mg/L	0.000121	-0.00012	mg/L	0.000121	99.98%

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Co 228.616†	-5.5	-0.00105	mg/L	0.000123	-0.00105	mg/L	0.000123	11.63%
Cr 267.716†	127.6	-0.00083	mg/L	0.000114	-0.00083	mg/L	0.000114	13.78%
Cu 327.393†	-258.4	-0.00073	mg/L	0.000224	-0.00073	mg/L	0.000224	30.49%
Fe 239.562†	4.1	-0.0127	mg/L	0.00218	-0.0127	mg/L	0.00218	17.18%
Mg 279.077†	-7.9	-0.0585	mg/L	0.00516	-0.0585	mg/L	0.00516	8.82%
Mn 257.610†	-138.1	-0.00179	mg/L	0.000004	-0.00179	mg/L	0.000004	0.22%
Mo 202.031†	-4.1	-0.00330	mg/L	0.000352	-0.00330	mg/L	0.000352	10.66%
Ni 231.604†	-2.1	-0.00204	mg/L	0.000187	-0.00204	mg/L	0.000187	9.17%
Pb 220.353†	-15.1	-0.00427	mg/L	0.000118	-0.00427	mg/L	0.000118	2.76%
Sb 206.836†	-4.5	-0.00506	mg/L	0.002094	-0.00506	mg/L	0.002094	41.34%
Se 196.026†	0.9	-0.00294	mg/L	0.002109	-0.00294	mg/L	0.002109	71.82%
Si 251.611†	86.5	-0.00177	mg/L	0.000979	-0.00177	mg/L	0.000979	55.30%
Sn 189.927†	-11.0	-0.00374	mg/L	0.000548	-0.00374	mg/L	0.000548	14.66%
Ti 334.940†	-195.9	-0.00060	mg/L	0.000088	-0.00060	mg/L	0.000088	14.65%
Tl 190.801†	1.3	-0.00354	mg/L	0.002474	-0.00354	mg/L	0.002474	69.93%
V 290.880†	-188.3	-0.00165	mg/L	0.001790	-0.00165	mg/L	0.001790	108.21%
Zn 206.200†	-199.2	-0.00783	mg/L	0.000184	-0.00783	mg/L	0.000184	2.35%
K 766.490†	-271.8	-0.0787	mg/L	0.01684	-0.0787	mg/L	0.01684	21.40%
Na 589.592†	-1121.3	-0.0806	mg/L	0.00229	-0.0806	mg/L	0.00229	2.84%
Sr 407.771†	-647.8	-0.00381	mg/L	0.000119	-0.00381	mg/L	0.000119	3.12%
Li 670.784†	-197.3	-0.00431	mg/L	0.000279	-0.00431	mg/L	0.000279	6.48%

Sequence No.: 37
Sample ID: L1012078512
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 1/7/2011 7:40:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012078512

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012078512

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5676688.7						27229.73	0.48%
YRADIAL	367427.2						7334.36	2.00%
Ga 417.206	1582411.7						3282.22	0.21%
GaRADIAL	83935.7						997.98	1.19%
Ag 328.068†	-36.6	-0.00054	mg/L	0.000280	-0.00054	mg/L	0.000280	51.75%
Al 396.153†	361.0	0.0428	mg/L	0.00782	0.0428	mg/L	0.00782	18.28%
As 188.979†	0.7	0.00105	mg/L	0.000805	0.00105	mg/L	0.000805	76.86%
Ba 233.527†	64.6	-0.00298	mg/L	0.000110	-0.00298	mg/L	0.000110	3.69%
Be 234.861†	26.3	-0.00010	mg/L	0.000005	-0.00010	mg/L	0.000005	5.17%
B 249.677†	358.2	0.00594	mg/L	0.000373	0.00594	mg/L	0.000373	6.29%
Ca 227.546†	35.1	0.286	mg/L	0.0243	0.286	mg/L	0.0243	8.50%
Cd 228.802†	-4.3	-0.00009	mg/L	0.000241	-0.00009	mg/L	0.000241	262.43%
Co 228.616†	2.6	-0.00067	mg/L	0.000157	-0.00067	mg/L	0.000157	23.34%
Cr 267.716†	59.9	-0.00141	mg/L	0.000068	-0.00141	mg/L	0.000068	4.83%
Cu 327.393†	2061.8	0.0160	mg/L	0.00022	0.0160	mg/L	0.00022	1.40%
Fe 239.562†	77.0	0.0974	mg/L	0.00335	0.0974	mg/L	0.00335	3.44%
Mg 279.077†	40.4	-0.00644	mg/L	0.006192	-0.00644	mg/L	0.006192	96.10%
Mn 257.610†	1013.5	0.00085	mg/L	0.000038	0.00085	mg/L	0.000038	4.47%
Mo 202.031†	-0.9	-0.00309	mg/L	0.000384	-0.00309	mg/L	0.000384	12.42%
Ni 231.604†	5.5	-0.00184	mg/L	0.000178	-0.00184	mg/L	0.000178	9.64%
Pb 220.353†	-7.6	-0.00317	mg/L	0.000148	-0.00317	mg/L	0.000148	4.67%
Sb 206.836†	-2.0	-0.00369	mg/L	0.001690	-0.00369	mg/L	0.001690	45.87%
Se 196.026†	-4.0	-0.00595	mg/L	0.003976	-0.00595	mg/L	0.003976	66.88%
Si 251.611†	6157.7	0.177	mg/L	0.0002	0.177	mg/L	0.0002	0.12%
Sn 189.927†	-12.6	-0.00399	mg/L	0.000299	-0.00399	mg/L	0.000299	7.49%
Ti 334.940†	2340.7	0.00270	mg/L	0.000114	0.00270	mg/L	0.000114	4.24%
Tl 190.801†	4.9	-0.00161	mg/L	0.000620	-0.00161	mg/L	0.000620	38.50%
V 290.880†	-162.8	-0.00149	mg/L	0.000736	-0.00149	mg/L	0.000736	49.41%
Zn 206.200†	-60.9	-0.00392	mg/L	0.000138	-0.00392	mg/L	0.000138	3.52%
K 766.490†	352.3	0.143	mg/L	0.0175	0.143	mg/L	0.0175	12.19%
Na 589.592†	2420.1	0.191	mg/L	0.0149	0.191	mg/L	0.0149	7.83%
Sr 407.771†	1378.9	-0.00262	mg/L	0.000096	-0.00262	mg/L	0.000096	3.66%
Li 670.784†	-265.6	-0.00513	mg/L	0.000977	-0.00513	mg/L	0.000977	19.05%

Approved: January 10, 2011

Sequence No.: 38
Sample ID: L1012078513
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 1/7/2011 7:46:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012078513

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078513

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5697102.5						66251.50	1.16%
YRADIAL	363903.3						4886.90	1.34%
Ga 417.206	1580673.0						23744.27	1.50%
GaRADIAL	83905.7						1157.83	1.38%
Ag 328.068†	-69.6	-0.00073	mg/L	0.000308	-0.00073	mg/L	0.000308	42.47%
Al 396.153†	-172.0	-0.0530	mg/L	0.00890	-0.0530	mg/L	0.00890	16.80%
As 188.979†	1.3	0.00154	mg/L	0.001516	0.00154	mg/L	0.001516	98.25%
Ba 233.527†	-16.4	-0.00421	mg/L	0.000123	-0.00421	mg/L	0.000123	2.94%
Be 234.861†	-1.3	-0.00012	mg/L	0.000028	-0.00012	mg/L	0.000028	24.48%
B 249.677†	385.9	0.00609	mg/L	0.000384	0.00609	mg/L	0.000384	6.30%
Ca 227.546†	-4.5	-0.0539	mg/L	0.03521	-0.0539	mg/L	0.03521	65.31%
Cd 228.802†	-5.6	-0.00016	mg/L	0.000170	-0.00016	mg/L	0.000170	105.30%
Co 228.616†	0.8	-0.00075	mg/L	0.000090	-0.00075	mg/L	0.000090	12.07%
Cr 267.716†	37.6	-0.00161	mg/L	0.000029	-0.00161	mg/L	0.000029	1.78%
Cu 327.393†	-323.2	-0.00120	mg/L	0.000346	-0.00120	mg/L	0.000346	28.87%
Fe 239.562†	3.6	-0.0134	mg/L	0.00184	-0.0134	mg/L	0.00184	13.74%
Mg 279.077†	-8.1	-0.0587	mg/L	0.00503	-0.0587	mg/L	0.00503	8.58%
Mn 257.610†	-132.8	-0.00177	mg/L	0.000016	-0.00177	mg/L	0.000016	0.91%
Mo 202.031†	-5.5	-0.00339	mg/L	0.000225	-0.00339	mg/L	0.000225	6.64%
Ni 231.604†	-2.6	-0.00205	mg/L	0.000091	-0.00205	mg/L	0.000091	4.44%
Pb 220.353†	-18.0	-0.00469	mg/L	0.001095	-0.00469	mg/L	0.001095	23.33%
Sb 206.836†	-4.0	-0.00477	mg/L	0.001464	-0.00477	mg/L	0.001464	30.68%
Se 196.026†	3.6	-0.00130	mg/L	0.005317	-0.00130	mg/L	0.005317	407.72%
Si 251.611†	38.2	-0.00319	mg/L	0.000063	-0.00319	mg/L	0.000063	1.98%
Sn 189.927†	-7.7	-0.00323	mg/L	0.000677	-0.00323	mg/L	0.000677	20.94%
Ti 334.940†	-17.9	-0.00037	mg/L	0.000194	-0.00037	mg/L	0.000194	52.66%
Tl 190.801†	-3.6	-0.00617	mg/L	0.001097	-0.00617	mg/L	0.001097	17.79%
V 290.880†	-206.5	-0.00177	mg/L	0.000376	-0.00177	mg/L	0.000376	21.22%
Zn 206.200†	-208.7	-0.00810	mg/L	0.000170	-0.00810	mg/L	0.000170	2.10%
K 766.490†	-254.2	-0.0724	mg/L	0.05162	-0.0724	mg/L	0.05162	71.30%
Na 589.592†	-1171.4	-0.0844	mg/L	0.01241	-0.0844	mg/L	0.01241	14.70%
Sr 407.771†	1048.1	-0.00281	mg/L	0.000058	-0.00281	mg/L	0.000058	2.07%
Li 670.784†	-262.6	-0.00509	mg/L	0.000223	-0.00509	mg/L	0.000223	4.38%

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Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/7/2011 7:53:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5358362.5						55639.69	1.04%
YRADIAL	341662.6						7305.44	2.14%
Ga 417.206	1514159.7						11834.37	0.78%
GaRADIAL	79460.1						192.94	0.24%
Ag 328.068†	76735.7	0.417	mg/L	0.0038	0.417	mg/L	0.0038	0.92%
QC value within limits for Ag 328.068 Recovery = 104.26%								
Al 396.153†	59239.4	10.6	mg/L	0.02	10.6	mg/L	0.02	0.23%
QC value within limits for Al 396.153 Recovery = 106.12%								

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As 188.979†	492.0	0.404 mg/L	0.0023	0.404 mg/L	0.0023	0.56%
QC value within limits for As 188.979 Recovery = 100.98%						
Ba 233.527†	68850.7	1.04 mg/L	0.011	1.04 mg/L	0.011	1.05%
QC value within limits for Ba 233.527 Recovery = 103.96%						
Be 234.861†	34326.3	0.0525 mg/L	0.00034	0.0525 mg/L	0.00034	0.64%
QC value within limits for Be 234.861 Recovery = 105.05%						
B 249.677†	26080.1	0.531 mg/L	0.0063	0.531 mg/L	0.0063	1.19%
QC value within limits for B 249.677 Recovery = 106.26%						
Ca 227.546†	1214.4	11.0 mg/L	0.11	11.0 mg/L	0.11	1.04%
QC value within limits for Ca 227.546 Recovery = 109.94%						
Cd 228.802†	1006.3	0.0500 mg/L	0.00080	0.0500 mg/L	0.00080	1.60%
QC value within limits for Cd 228.802 Recovery = 100.02%						
Co 228.616†	4312.0	0.206 mg/L	0.0031	0.206 mg/L	0.0031	1.50%
QC value within limits for Co 228.616 Recovery = 103.06%						
Cr 267.716†	60348.0	0.522 mg/L	0.0060	0.522 mg/L	0.0060	1.15%
QC value within limits for Cr 267.716 Recovery = 104.42%						
Cu 327.393†	72046.9	0.523 mg/L	0.0044	0.523 mg/L	0.0044	0.83%
QC value within limits for Cu 327.393 Recovery = 104.51%						
Fe 239.562†	2814.3	4.23 mg/L	0.020	4.23 mg/L	0.020	0.48%
QC value within limits for Fe 239.562 Recovery = 105.77%						
Mg 279.077†	9800.5	10.5 mg/L	0.06	10.5 mg/L	0.06	0.60%
QC value within limits for Mg 279.077 Recovery = 105.21%						
Mn 257.610†	232144.5	0.524 mg/L	0.0062	0.524 mg/L	0.0062	1.18%
QC value within limits for Mn 257.610 Recovery = 104.78%						
Mo 202.031†	16475.4	1.04 mg/L	0.014	1.04 mg/L	0.014	1.30%
QC value within limits for Mo 202.031 Recovery = 104.32%						
Ni 231.604†	19831.0	0.521 mg/L	0.0063	0.521 mg/L	0.0063	1.22%
QC value within limits for Ni 231.604 Recovery = 104.26%						
Pb 220.353†	3563.4	0.521 mg/L	0.0048	0.521 mg/L	0.0048	0.93%
QC value within limits for Pb 220.353 Recovery = 104.29%						
Sb 206.836†	2316.5	1.28 mg/L	0.013	1.28 mg/L	0.013	0.98%
QC value within limits for Sb 206.836 Recovery = 106.85%						
Se 196.026†	682.2	0.423 mg/L	0.0020	0.423 mg/L	0.0020	0.46%
QC value within limits for Se 196.026 Recovery = 105.83%						
Si 251.611†	176688.1	5.19 mg/L	0.037	5.19 mg/L	0.037	0.71%
QC value within limits for Si 251.611 Recovery = 103.73%						
Sn 189.927†	6738.2	1.04 mg/L	0.014	1.04 mg/L	0.014	1.34%
QC value within limits for Sn 189.927 Recovery = 104.06%						
Ti 334.940†	800374.6	1.04 mg/L	0.002	1.04 mg/L	0.002	0.19%
QC value within limits for Ti 334.940 Recovery = 103.98%						
Tl 190.801†	977.8	0.530 mg/L	0.0081	0.530 mg/L	0.0081	1.52%
QC value within limits for Tl 190.801 Recovery = 105.97%						
V 290.880†	157837.9	1.03 mg/L	0.012	1.03 mg/L	0.012	1.17%
QC value within limits for V 290.880 Recovery = 102.77%						
Zn 206.200†	36403.1	1.03 mg/L	0.014	1.03 mg/L	0.014	1.36%
QC value within limits for Zn 206.200 Recovery = 102.94%						
K 766.490†	143590.5	51.9 mg/L	0.09	51.9 mg/L	0.09	0.17%
QC value within limits for K 766.490 Recovery = 103.72%						
Na 589.592†	660402.0	51.6 mg/L	0.43	51.6 mg/L	0.43	0.83%
QC value within limits for Na 589.592 Recovery = 103.19%						
Sr 407.771†	1795698.6	1.06 mg/L	0.010	1.06 mg/L	0.010	0.90%
QC value within limits for Sr 407.771 Recovery = 106.07%						
Li 670.784†	87516.3	1.05 mg/L	0.011	1.05 mg/L	0.011	1.01%
QC value within limits for Li 670.784 Recovery = 104.90%						

All analyte(s) passed QC.

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Sequence No.: 40 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 8:00:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5524055.8						70835.19	1.28%

Approved: January 10, 2011

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YRADIAL              355935.1                                                    6906.49   1.94%
Ga 417.206          1517250.9                                                   24417.02   1.61%
GaRADIAL              81126.0                                                    1190.29   1.47%
Ag 328.068†             -87.1    -0.00082 mg/L      0.000592    -0.00082 mg/L      0.000592  72.17%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†            -102.3     -0.0405 mg/L       0.00734     -0.0405 mg/L       0.00734  18.15%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†              1.3     0.00156 mg/L      0.002261     0.00156 mg/L      0.002261 145.28%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†             -14.8    -0.00418 mg/L      0.000107    -0.00418 mg/L      0.000107   2.57%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†             -11.4    -0.00013 mg/L      0.000021    -0.00013 mg/L      0.000021  16.55%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              360.5     0.00554 mg/L      0.000436     0.00554 mg/L      0.000436   7.87%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               3.8      0.0170 mg/L       0.02716      0.0170 mg/L       0.02716 159.50%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†              -6.6    -0.00021 mg/L      0.000127    -0.00021 mg/L      0.000127  60.19%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              -0.1    -0.00079 mg/L      0.000279    -0.00079 mg/L      0.000279  35.12%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -12.1    -0.00204 mg/L      0.000133    -0.00204 mg/L      0.000133   6.52%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†             -388.9    -0.00167 mg/L      0.000373    -0.00167 mg/L      0.000373  22.26%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†              -0.3     -0.0194 mg/L       0.00264     -0.0194 mg/L       0.00264  13.63%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†              -7.2     -0.0578 mg/L       0.00479     -0.0578 mg/L       0.00479   8.30%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -200.3    -0.00193 mg/L      0.000012    -0.00193 mg/L      0.000012   0.60%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -6.3    -0.00344 mg/L      0.000147    -0.00344 mg/L      0.000147   4.28%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -11.2    -0.00228 mg/L      0.000181    -0.00228 mg/L      0.000181   7.94%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -10.8    -0.00364 mg/L      0.000867    -0.00364 mg/L      0.000867  23.83%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -2.1    -0.00372 mg/L      0.000334    -0.00372 mg/L      0.000334   8.97%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.2    -0.00427 mg/L      0.001572    -0.00427 mg/L      0.001572  36.80%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -48.2    -0.00574 mg/L      0.000623    -0.00574 mg/L      0.000623  10.85%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -10.1    -0.00360 mg/L      0.000365    -0.00360 mg/L      0.000365  10.15%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -32.0    -0.00039 mg/L      0.000263    -0.00039 mg/L      0.000263  68.10%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -4.0    -0.00640 mg/L      0.001961    -0.00640 mg/L      0.001961  30.64%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -132.8    -0.00129 mg/L      0.001345    -0.00129 mg/L      0.001345 104.03%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             -249.6    -0.00926 mg/L      0.000108    -0.00926 mg/L      0.000108   1.17%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               -68.3    -0.00626 mg/L      0.032611    -0.00626 mg/L      0.032611 520.58%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -967.2     -0.0688 mg/L       0.00705     -0.0688 mg/L       0.00705  10.25%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             -603.0    -0.00379 mg/L      0.000124    -0.00379 mg/L      0.000124   3.27%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -217.4    -0.00455 mg/L      0.001278    -0.00455 mg/L      0.001278  28.09%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 41 **Autosampler Location: 99**
Sample ID: L1012078514 **Date Collected: 1/7/2011 8:06:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078514

Analyte	**Back Pressure**	**Flow**

Approved: January 10, 2011

All 174.0 kPa 0.50 L/min

Mean Data: L1012078514

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5648771.4						19287.93	0.34%
YRADIAL	365902.9						5669.08	1.55%
Ga 417.206	1549060.2						13278.26	0.86%
GaRADIAL	84074.4						2946.98	3.51%
Ag 328.068†	-115.4	-0.00097	mg/L	0.000575	-0.00097	mg/L	0.000575	59.13%
Al 396.153†	-80.8	-0.0366	mg/L	0.00762	-0.0366	mg/L	0.00762	20.81%
As 188.979†	-1.8	-0.00101	mg/L	0.001865	-0.00101	mg/L	0.001865	185.06%
Ba 233.527†	-18.0	-0.00423	mg/L	0.000049	-0.00423	mg/L	0.000049	1.15%
Be 234.861†	-18.9	-0.00014	mg/L	0.000024	-0.00014	mg/L	0.000024	16.91%
B 249.677†	352.7	0.00539	mg/L	0.000165	0.00539	mg/L	0.000165	3.06%
Ca 227.546†	-1.5	-0.0286	mg/L	0.04188	-0.0286	mg/L	0.04188	146.45%
Cd 228.802†	-3.0	-0.00001	mg/L	0.000052	-0.00001	mg/L	0.000052	451.20%
Co 228.616†	0.6	-0.00076	mg/L	0.000047	-0.00076	mg/L	0.000047	6.22%
Cr 267.716†	40.9	-0.00158	mg/L	0.000179	-0.00158	mg/L	0.000179	11.34%
Cu 327.393†	-320.9	-0.00118	mg/L	0.000281	-0.00118	mg/L	0.000281	23.75%
Fe 239.562†	2.0	-0.0159	mg/L	0.00336	-0.0159	mg/L	0.00336	21.11%
Mg 279.077†	-7.6	-0.0581	mg/L	0.00178	-0.0581	mg/L	0.00178	3.06%
Mn 257.610†	-163.7	-0.00184	mg/L	0.000028	-0.00184	mg/L	0.000028	1.52%
Mo 202.031†	-5.4	-0.00339	mg/L	0.000068	-0.00339	mg/L	0.000068	2.02%
Ni 231.604†	-7.6	-0.00219	mg/L	0.000166	-0.00219	mg/L	0.000166	7.57%
Pb 220.353†	-10.7	-0.00362	mg/L	0.000372	-0.00362	mg/L	0.000372	10.26%
Sb 206.836†	-2.3	-0.00385	mg/L	0.003019	-0.00385	mg/L	0.003019	78.43%
Se 196.026†	-3.7	-0.00586	mg/L	0.000964	-0.00586	mg/L	0.000964	16.44%
Si 251.611†	102.4	-0.00130	mg/L	0.000065	-0.00130	mg/L	0.000065	5.00%
Sn 189.927†	-12.1	-0.00390	mg/L	0.000352	-0.00390	mg/L	0.000352	9.02%
Ti 334.940†	-71.2	-0.00044	mg/L	0.000101	-0.00044	mg/L	0.000101	22.99%
Tl 190.801†	2.1	-0.00311	mg/L	0.002292	-0.00311	mg/L	0.002292	73.68%
V 290.880†	-65.3	-0.00085	mg/L	0.000170	-0.00085	mg/L	0.000170	19.96%
Zn 206.200†	-191.8	-0.00762	mg/L	0.000130	-0.00762	mg/L	0.000130	1.71%
K 766.490†	-135.9	-0.0303	mg/L	0.05321	-0.0303	mg/L	0.05321	175.59%
Na 589.592†	-1189.5	-0.0858	mg/L	0.00670	-0.0858	mg/L	0.00670	7.81%
Sr 407.771†	-373.1	-0.00365	mg/L	0.000313	-0.00365	mg/L	0.000313	8.57%
Li 670.784†	-201.2	-0.00435	mg/L	0.000852	-0.00435	mg/L	0.000852	19.56%

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Sequence No.: 42 **Autosampler Location: 100**
Sample ID: L1012078515 **Date Collected: 1/7/2011 8:13:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078515

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078515

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5615805.0						36536.89	0.65%
YRADIAL	369692.3						10561.39	2.86%
Ga 417.206	1560253.0						38282.89	2.45%
GaRADIAL	84858.4						414.08	0.49%
Ag 328.068†	-31.3	-0.00052	mg/L	0.000122	-0.00052	mg/L	0.000122	23.58%
Al 396.153†	-35.5	-0.0285	mg/L	0.00297	-0.0285	mg/L	0.00297	10.43%
As 188.979†	-1.7	-0.00093	mg/L	0.000866	-0.00093	mg/L	0.000866	92.68%
Ba 233.527†	-12.4	-0.00414	mg/L	0.000080	-0.00414	mg/L	0.000080	1.93%
Be 234.861†	-0.1	-0.00011	mg/L	0.000025	-0.00011	mg/L	0.000025	22.69%
B 249.677†	355.3	0.00542	mg/L	0.000431	0.00542	mg/L	0.000431	7.96%
Ca 227.546†	5.4	0.0306	mg/L	0.02165	0.0306	mg/L	0.02165	70.70%
Cd 228.802†	-6.5	-0.00019	mg/L	0.000105	-0.00019	mg/L	0.000105	55.59%
Co 228.616†	-0.1	-0.00079	mg/L	0.000286	-0.00079	mg/L	0.000286	36.10%
Cr 267.716†	25.5	-0.00172	mg/L	0.000067	-0.00172	mg/L	0.000067	3.91%
Cu 327.393†	-345.1	-0.00136	mg/L	0.000210	-0.00136	mg/L	0.000210	15.43%
Fe 239.562†	-0.5	-0.0197	mg/L	0.00533	-0.0197	mg/L	0.00533	27.00%
Mg 279.077†	-5.5	-0.0559	mg/L	0.00493	-0.0559	mg/L	0.00493	8.82%

Approved: January 10, 2011

Mn 257.610†	-155.8	-0.00182	mg/L	0.000005	-0.00182	mg/L	0.000005	0.26%
Mo 202.031†	-3.7	-0.00328	mg/L	0.000068	-0.00328	mg/L	0.000068	2.07%
Ni 231.604†	-8.4	-0.00221	mg/L	0.000136	-0.00221	mg/L	0.000136	6.14%
Pb 220.353†	-14.2	-0.00414	mg/L	0.000467	-0.00414	mg/L	0.000467	11.28%
Sb 206.836†	-2.7	-0.00405	mg/L	0.002413	-0.00405	mg/L	0.002413	59.51%
Se 196.026†	-2.6	-0.00516	mg/L	0.003326	-0.00516	mg/L	0.003326	64.42%
Si 251.611†	187.8	0.00121	mg/L	0.000467	0.00121	mg/L	0.000467	38.46%
Sn 189.927†	-9.0	-0.00342	mg/L	0.000565	-0.00342	mg/L	0.000565	16.51%
Ti 334.940†	13.0	-0.00033	mg/L	0.000123	-0.00033	mg/L	0.000123	37.62%
Tl 190.801†	2.0	-0.00316	mg/L	0.000797	-0.00316	mg/L	0.000797	25.21%
V 290.880†	-150.1	-0.00140	mg/L	0.001351	-0.00140	mg/L	0.001351	96.19%
Zn 206.200†	-207.9	-0.00808	mg/L	0.000107	-0.00808	mg/L	0.000107	1.32%
K 766.490†	-156.0	-0.0375	mg/L	0.01429	-0.0375	mg/L	0.01429	38.15%
Na 589.592†	-986.5	-0.0703	mg/L	0.01651	-0.0703	mg/L	0.01651	23.50%
Sr 407.771†	-676.3	-0.00383	mg/L	0.000161	-0.00383	mg/L	0.000161	4.20%
Li 670.784†	-166.7	-0.00394	mg/L	0.000731	-0.00394	mg/L	0.000731	18.55%

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Sequence No.: 43 **Autosampler Location: 101**
Sample ID: L1012078516 **Date Collected: 1/7/2011 8:20:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078516

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: L1012078516

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5697866.3						37307.61	0.65%
YRADIAL	371625.8						11550.73	3.11%
Ga 417.206	1566684.6						16482.35	1.05%
GaRADIAL	84898.5						1878.40	2.21%
Ag 328.068†	-4.1	-0.00037	mg/L	0.000819	-0.00037	mg/L	0.000819	221.79%
Al 396.153†	-36.2	-0.0286	mg/L	0.00655	-0.0286	mg/L	0.00655	22.89%
As 188.979†	0.3	0.00068	mg/L	0.001684	0.00068	mg/L	0.001684	248.01%
Ba 233.527†	-5.8	-0.00405	mg/L	0.000084	-0.00405	mg/L	0.000084	2.08%
Be 234.861†	-9.6	-0.00013	mg/L	0.000015	-0.00013	mg/L	0.000015	11.20%
B 249.677†	257.8	0.00352	mg/L	0.000216	0.00352	mg/L	0.000216	6.15%
Ca 227.546†	6.3	0.0384	mg/L	0.03612	0.0384	mg/L	0.03612	94.01%
Cd 228.802†	-2.8	-0.00002	mg/L	0.000110	-0.00002	mg/L	0.000110	645.94%
Co 228.616†	-1.6	-0.00087	mg/L	0.000106	-0.00087	mg/L	0.000106	12.27%
Cr 267.716†	48.7	-0.00151	mg/L	0.000053	-0.00151	mg/L	0.000053	3.53%
Cu 327.393†	-296.5	-0.00101	mg/L	0.000424	-0.00101	mg/L	0.000424	42.08%
Fe 239.562†	9.4	-0.00479	mg/L	0.001660	-0.00479	mg/L	0.001660	34.64%
Mg 279.077†	-3.4	-0.0536	mg/L	0.00190	-0.0536	mg/L	0.00190	3.55%
Mn 257.610†	-139.3	-0.00178	mg/L	0.000017	-0.00178	mg/L	0.000017	0.97%
Mo 202.031†	-7.2	-0.00350	mg/L	0.000088	-0.00350	mg/L	0.000088	2.52%
Ni 231.604†	2.1	-0.00193	mg/L	0.000191	-0.00193	mg/L	0.000191	9.89%
Pb 220.353†	-17.0	-0.00455	mg/L	0.000162	-0.00455	mg/L	0.000162	3.57%
Sb 206.836†	-4.0	-0.00476	mg/L	0.001437	-0.00476	mg/L	0.001437	30.19%
Se 196.026†	-0.3	-0.00373	mg/L	0.001881	-0.00373	mg/L	0.001881	50.45%
Si 251.611†	754.0	0.0179	mg/L	0.00050	0.0179	mg/L	0.00050	2.78%
Sn 189.927†	-9.1	-0.00345	mg/L	0.000690	-0.00345	mg/L	0.000690	20.03%
Ti 334.940†	81.6	-0.00024	mg/L	0.000086	-0.00024	mg/L	0.000086	35.94%
Tl 190.801†	-1.8	-0.00520	mg/L	0.002367	-0.00520	mg/L	0.002367	45.54%
V 290.880†	-164.0	-0.00150	mg/L	0.000527	-0.00150	mg/L	0.000527	35.24%
Zn 206.200†	-200.1	-0.00786	mg/L	0.000026	-0.00786	mg/L	0.000026	0.34%
K 766.490†	-271.8	-0.0787	mg/L	0.01553	-0.0787	mg/L	0.01553	19.74%
Na 589.592†	-1253.4	-0.0907	mg/L	0.01246	-0.0907	mg/L	0.01246	13.73%
Sr 407.771†	-686.5	-0.00384	mg/L	0.000070	-0.00384	mg/L	0.000070	1.81%
Li 670.784†	-277.8	-0.00527	mg/L	0.001493	-0.00527	mg/L	0.001493	28.31%

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Sequence No.: 44 **Autosampler Location: 102**
Sample ID: L1012078517 **Date Collected: 1/7/2011 8:26:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1012078517

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078517

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5700853.3						25975.46	0.46%
YRADIAL	360866.9						725.11	0.20%
Ga 417.206	1577524.7						19950.57	1.26%
GaRADIAL	82904.8						1990.92	2.40%
Ag 328.068†	-178.5	-0.00130	mg/L	0.000122	-0.00130	mg/L	0.000122	9.34%
Al 396.153†	82.0	-0.00733	mg/L	0.003764	-0.00733	mg/L	0.003764	51.37%
As 188.979†	-4.1	-0.00290	mg/L	0.001278	-0.00290	mg/L	0.001278	44.01%
Ba 233.527†	26.8	-0.00355	mg/L	0.000078	-0.00355	mg/L	0.000078	2.19%
Be 234.861†	40.9	-0.00011	mg/L	0.000012	-0.00011	mg/L	0.000012	10.69%
B 249.677†	231.8	0.00409	mg/L	0.000338	0.00409	mg/L	0.000338	8.25%
Ca 227.546†	37.5	0.310	mg/L	0.0297	0.310	mg/L	0.0297	9.59%
Cd 228.802†	-3.6	-0.00003	mg/L	0.000074	-0.00003	mg/L	0.000074	252.78%
Co 228.616†	4.6	-0.00058	mg/L	0.000214	-0.00058	mg/L	0.000214	37.24%
Cr 267.716†	211.4	-0.00009	mg/L	0.000051	-0.00009	mg/L	0.000051	58.61%
Cu 327.393†	1473.8	0.0118	mg/L	0.00075	0.0118	mg/L	0.00075	6.38%
Fe 239.562†	169.5	0.237	mg/L	0.0029	0.237	mg/L	0.0029	1.22%
Mg 279.077†	24.8	-0.0234	mg/L	0.00225	-0.0234	mg/L	0.00225	9.62%
Mn 257.610†	938.5	0.00068	mg/L	0.000020	0.00068	mg/L	0.000020	2.89%
Mo 202.031†	-1.8	-0.00314	mg/L	0.000338	-0.00314	mg/L	0.000338	10.77%
Ni 231.604†	35.5	-0.00105	mg/L	0.000106	-0.00105	mg/L	0.000106	10.08%
Pb 220.353†	-6.3	-0.00300	mg/L	0.000896	-0.00300	mg/L	0.000896	29.91%
Sb 206.836†	-3.2	-0.00437	mg/L	0.001292	-0.00437	mg/L	0.001292	29.56%
Se 196.026†	-3.4	-0.00553	mg/L	0.000917	-0.00553	mg/L	0.000917	16.59%
Si 251.611†	2920.3	0.0817	mg/L	0.00145	0.0817	mg/L	0.00145	1.77%
Sn 189.927†	-13.8	-0.00417	mg/L	0.000559	-0.00417	mg/L	0.000559	13.38%
Ti 334.940†	848.3	0.00076	mg/L	0.000033	0.00076	mg/L	0.000033	4.32%
Tl 190.801†	2.9	-0.00270	mg/L	0.000775	-0.00270	mg/L	0.000775	28.71%
V 290.880†	-183.0	-0.00163	mg/L	0.000946	-0.00163	mg/L	0.000946	58.07%
Zn 206.200†	-28.9	-0.00301	mg/L	0.000107	-0.00301	mg/L	0.000107	3.55%
K 766.490†	440.0	0.174	mg/L	0.0201	0.174	mg/L	0.0201	11.52%
Na 589.592†	2684.4	0.211	mg/L	0.0122	0.211	mg/L	0.0122	5.78%
Sr 407.771†	1375.6	-0.00264	mg/L	0.000046	-0.00264	mg/L	0.000046	1.74%
Li 670.784†	-245.1	-0.00488	mg/L	0.000576	-0.00488	mg/L	0.000576	11.80%

Sequence No.: 45
Sample ID: L1012078518
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 1/7/2011 8:33:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012078518

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078518

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5610527.2						101302.87	1.81%
YRADIAL	361480.3						12761.13	3.53%
Ga 417.206	1559284.9						25169.88	1.61%
GaRADIAL	82659.2						903.96	1.09%
Ag 328.068†	-95.7	-0.00086	mg/L	0.000634	-0.00086	mg/L	0.000634	73.34%
Al 396.153†	62.3	-0.0109	mg/L	0.00373	-0.0109	mg/L	0.00373	34.30%
As 188.979†	-0.0	0.00044	mg/L	0.001457	0.00044	mg/L	0.001457	332.07%
Ba 233.527†	15.8	-0.00372	mg/L	0.000060	-0.00372	mg/L	0.000060	1.62%
Be 234.861†	-5.3	-0.00013	mg/L	0.000016	-0.00013	mg/L	0.000016	12.51%
B 249.677†	247.8	0.00335	mg/L	0.000294	0.00335	mg/L	0.000294	8.79%
Ca 227.546†	15.9	0.121	mg/L	0.0189	0.121	mg/L	0.0189	15.57%
Cd 228.802†	-3.2	-0.00003	mg/L	0.000203	-0.00003	mg/L	0.000203	624.18%
Co 228.616†	-0.6	-0.00082	mg/L	0.000314	-0.00082	mg/L	0.000314	38.27%

Approved: January 10, 2011

Cr 267.716†	111.2	-0.00097	mg/L	0.000045	-0.00097	mg/L	0.000045	4.63%
Cu 327.393†	1094.3	0.00903	mg/L	0.000067	0.00903	mg/L	0.000067	0.74%
Fe 239.562†	17.5	0.00749	mg/L	0.004979	0.00749	mg/L	0.004979	66.50%
Mg 279.077†	14.5	-0.0343	mg/L	0.00482	-0.0343	mg/L	0.00482	14.04%
Mn 257.610†	148.4	-0.00112	mg/L	0.000024	-0.00112	mg/L	0.000024	2.10%
Mo 202.031†	-9.2	-0.00363	mg/L	0.000365	-0.00363	mg/L	0.000365	10.07%
Ni 231.604†	16.3	-0.00156	mg/L	0.000109	-0.00156	mg/L	0.000109	6.97%
Pb 220.353†	-14.4	-0.00417	mg/L	0.000908	-0.00417	mg/L	0.000908	21.76%
Sb 206.836†	-0.6	-0.00294	mg/L	0.001548	-0.00294	mg/L	0.001548	52.73%
Se 196.026†	-1.7	-0.00455	mg/L	0.003570	-0.00455	mg/L	0.003570	78.45%
Si 251.611†	2202.3	0.0606	mg/L	0.00158	0.0606	mg/L	0.00158	2.61%
Sn 189.927†	-13.7	-0.00416	mg/L	0.000479	-0.00416	mg/L	0.000479	11.52%
Ti 334.940†	917.2	0.00085	mg/L	0.000137	0.00085	mg/L	0.000137	16.20%
Tl 190.801†	-2.3	-0.00548	mg/L	0.001216	-0.00548	mg/L	0.001216	22.18%
V 290.880†	-89.8	-0.00101	mg/L	0.000589	-0.00101	mg/L	0.000589	58.16%
Zn 206.200†	187.2	0.00310	mg/L	0.000303	0.00310	mg/L	0.000303	9.77%
K 766.490†	305.4	0.127	mg/L	0.0259	0.127	mg/L	0.0259	20.49%
Na 589.592†	2648.0	0.208	mg/L	0.0111	0.208	mg/L	0.0111	5.32%
Sr 407.771†	647.9	-0.00305	mg/L	0.000051	-0.00305	mg/L	0.000051	1.68%
Li 670.784†	-168.8	-0.00396	mg/L	0.000782	-0.00396	mg/L	0.000782	19.73%

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Sequence No.: 46 **Autosampler Location: 104**
Sample ID: L1012078519 **Date Collected: 1/7/2011 8:40:13 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078519

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078519

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5695303.9						79264.17	1.39%
YRADIAL	370313.1						7299.49	1.97%
Ga 417.206	1574242.0						23492.63	1.49%
GaRADIAL	84352.9						590.84	0.70%
Ag 328.068†	-88.0	-0.00082	mg/L	0.000209	-0.00082	mg/L	0.000209	25.29%
Al 396.153†	-103.3	-0.0407	mg/L	0.00264	-0.0407	mg/L	0.00264	6.49%
As 188.979†	-0.4	0.00010	mg/L	0.004370	0.00010	mg/L	0.004370	>999.9%
Ba 233.527†	-17.2	-0.00422	mg/L	0.000031	-0.00422	mg/L	0.000031	0.73%
Be 234.861†	-6.7	-0.00012	mg/L	0.000008	-0.00012	mg/L	0.000008	6.88%
B 249.677†	134.6	0.00099	mg/L	0.000184	0.00099	mg/L	0.000184	18.65%
Ca 227.546†	10.4	0.0736	mg/L	0.04674	0.0736	mg/L	0.04674	63.53%
Cd 228.802†	-4.3	-0.00009	mg/L	0.000084	-0.00009	mg/L	0.000084	98.40%
Co 228.616†	-0.4	-0.00081	mg/L	0.000078	-0.00081	mg/L	0.000078	9.72%
Cr 267.716†	26.9	-0.00170	mg/L	0.000015	-0.00170	mg/L	0.000015	0.87%
Cu 327.393†	-283.2	-0.00091	mg/L	0.000699	-0.00091	mg/L	0.000699	76.73%
Fe 239.562†	1.2	-0.0171	mg/L	0.00187	-0.0171	mg/L	0.00187	10.90%
Mg 279.077†	2.9	-0.0468	mg/L	0.00393	-0.0468	mg/L	0.00393	8.41%
Mn 257.610†	-195.3	-0.00191	mg/L	0.000022	-0.00191	mg/L	0.000022	1.16%
Mo 202.031†	-5.1	-0.00337	mg/L	0.000426	-0.00337	mg/L	0.000426	12.67%
Ni 231.604†	-5.3	-0.00213	mg/L	0.000229	-0.00213	mg/L	0.000229	10.78%
Pb 220.353†	-15.9	-0.00439	mg/L	0.001115	-0.00439	mg/L	0.001115	25.40%
Sb 206.836†	-1.8	-0.00357	mg/L	0.001197	-0.00357	mg/L	0.001197	33.57%
Se 196.026†	-2.1	-0.00484	mg/L	0.001914	-0.00484	mg/L	0.001914	39.53%
Si 251.611†	34.1	-0.00331	mg/L	0.000295	-0.00331	mg/L	0.000295	8.89%
Sn 189.927†	-14.8	-0.00432	mg/L	0.000556	-0.00432	mg/L	0.000556	12.88%
Ti 334.940†	-68.9	-0.00043	mg/L	0.000095	-0.00043	mg/L	0.000095	21.95%
Tl 190.801†	1.5	-0.00344	mg/L	0.001131	-0.00344	mg/L	0.001131	32.88%
V 290.880†	-135.3	-0.00131	mg/L	0.000622	-0.00131	mg/L	0.000622	47.56%
Zn 206.200†	-168.3	-0.00696	mg/L	0.000035	-0.00696	mg/L	0.000035	0.51%
K 766.490†	-161.8	-0.0398	mg/L	0.02123	-0.0398	mg/L	0.02123	53.38%
Na 589.592†	2299.2	0.181	mg/L	0.4249	0.181	mg/L	0.4249	234.29%
Sr 407.771†	-222.6	-0.00356	mg/L	0.000450	-0.00356	mg/L	0.000450	12.65%
Li 670.784†	-195.4	-0.00428	mg/L	0.000691	-0.00428	mg/L	0.000691	16.13%

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Sequence No.: 47 **Autosampler Location: 105**

Approved: January 10, 2011

Sample ID: L1012078520 **Date Collected: 1/7/2011 8:46:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078520

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078520

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5742438.5						47038.56	0.82%
YRADIAL	362137.9						9657.57	2.67%
Ga 417.206	1595354.7						24004.75	1.50%
GaRADIAL	83203.0						790.14	0.95%
Ag 328.068†	-147.7	-0.00114	mg/L	0.001117	-0.00114	mg/L	0.001117	97.94%
Al 396.153†	531.9	0.0735	mg/L	0.01041	0.0735	mg/L	0.01041	14.16%
As 188.979†	-1.3	-0.00056	mg/L	0.002965	-0.00056	mg/L	0.002965	527.67%
Ba 233.527†	44.7	-0.00328	mg/L	0.000046	-0.00328	mg/L	0.000046	1.40%
Be 234.861†	28.6	-0.00010	mg/L	0.000018	-0.00010	mg/L	0.000018	17.47%
B 249.677†	213.1	0.00314	mg/L	0.000267	0.00314	mg/L	0.000267	8.50%
Ca 227.546†	43.0	0.355	mg/L	0.0241	0.355	mg/L	0.0241	6.79%
Cd 228.802†	-5.8	-0.00016	mg/L	0.000147	-0.00016	mg/L	0.000147	92.90%
Co 228.616†	0.5	-0.00077	mg/L	0.000277	-0.00077	mg/L	0.000277	35.83%
Cr 267.716†	277.6	0.00048	mg/L	0.000053	0.00048	mg/L	0.000053	11.16%
Cu 327.393†	571.8	0.00527	mg/L	0.000384	0.00527	mg/L	0.000384	7.28%
Fe 239.562†	100.8	0.133	mg/L	0.0017	0.133	mg/L	0.0017	1.30%
Mg 279.077†	37.6	-0.00945	mg/L	0.002643	-0.00945	mg/L	0.002643	27.97%
Mn 257.610†	588.5	-0.00008	mg/L	0.000012	-0.00008	mg/L	0.000012	13.86%
Mo 202.031†	-1.5	-0.00313	mg/L	0.000269	-0.00313	mg/L	0.000269	8.59%
Ni 231.604†	29.3	-0.00121	mg/L	0.000134	-0.00121	mg/L	0.000134	11.05%
Pb 220.353†	-14.3	-0.00413	mg/L	0.000678	-0.00413	mg/L	0.000678	16.42%
Sb 206.836†	1.2	-0.00199	mg/L	0.000815	-0.00199	mg/L	0.000815	41.03%
Se 196.026†	-3.7	-0.00574	mg/L	0.003639	-0.00574	mg/L	0.003639	63.35%
Si 251.611†	9050.9	0.262	mg/L	0.0014	0.262	mg/L	0.0014	0.55%
Sn 189.927†	-17.5	-0.00475	mg/L	0.000318	-0.00475	mg/L	0.000318	6.70%
Ti 334.940†	1897.3	0.00212	mg/L	0.000457	0.00212	mg/L	0.000457	21.52%
Tl 190.801†	0.4	-0.00402	mg/L	0.001479	-0.00402	mg/L	0.001479	36.77%
V 290.880†	-197.4	-0.00172	mg/L	0.000363	-0.00172	mg/L	0.000363	21.16%
Zn 206.200†	-87.1	-0.00466	mg/L	0.000097	-0.00466	mg/L	0.000097	2.09%
K 766.490†	81.6	0.0471	mg/L	0.03477	0.0471	mg/L	0.03477	73.88%
Na 589.592†	-65.1	0.00027	mg/L	0.002619	0.00027	mg/L	0.002619	961.32%
Sr 407.771†	994.6	-0.00285	mg/L	0.000105	-0.00285	mg/L	0.000105	3.68%
Li 670.784†	-136.2	-0.00357	mg/L	0.000745	-0.00357	mg/L	0.000745	20.86%

Sequence No.: 48 **Autosampler Location: 106**
Sample ID: L1012078521 **Date Collected: 1/7/2011 8:53:32 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078521

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012078521

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5675061.3						65809.78	1.16%
YRADIAL	369645.8						6399.78	1.73%
Ga 417.206	1573191.5						22510.96	1.43%
GaRADIAL	84933.5						3302.74	3.89%
Ag 328.068†	-116.4	-0.00098	mg/L	0.000246	-0.00098	mg/L	0.000246	25.18%
Al 396.153†	-74.7	-0.0355	mg/L	0.00148	-0.0355	mg/L	0.00148	4.18%
As 188.979†	-2.2	-0.00135	mg/L	0.001643	-0.00135	mg/L	0.001643	122.01%
Ba 233.527†	-12.8	-0.00415	mg/L	0.000027	-0.00415	mg/L	0.000027	0.65%
Be 234.861†	-7.3	-0.00012	mg/L	0.000013	-0.00012	mg/L	0.000013	10.21%

Approved: January 10, 2011

B 249.677†	184.8	0.00200	mg/L	0.000359	0.00200	mg/L	0.000359	17.96%
Ca 227.546†	0.5	-0.0111	mg/L	0.01873	-0.0111	mg/L	0.01873	169.49%
Cd 228.802†	-1.7	0.00005	mg/L	0.000299	0.00005	mg/L	0.000299	571.78%
Co 228.616†	-0.6	-0.00082	mg/L	0.000301	-0.00082	mg/L	0.000301	36.79%
Cr 267.716†	30.0	-0.00168	mg/L	0.000165	-0.00168	mg/L	0.000165	9.82%
Cu 327.393†	-209.7	-0.00038	mg/L	0.000258	-0.00038	mg/L	0.000258	67.68%
Fe 239.562†	2.2	-0.0156	mg/L	0.00171	-0.0156	mg/L	0.00171	10.98%
Mg 279.077†	-8.8	-0.0595	mg/L	0.00770	-0.0595	mg/L	0.00770	12.94%
Mn 257.610†	-194.8	-0.00191	mg/L	0.000008	-0.00191	mg/L	0.000008	0.42%
Mo 202.031†	-2.8	-0.00322	mg/L	0.000034	-0.00322	mg/L	0.000034	1.07%
Ni 231.604†	-2.8	-0.00206	mg/L	0.000143	-0.00206	mg/L	0.000143	6.96%
Pb 220.353†	-18.6	-0.00478	mg/L	0.001477	-0.00478	mg/L	0.001477	30.88%
Sb 206.836†	-3.5	-0.00451	mg/L	0.005325	-0.00451	mg/L	0.005325	118.10%
Se 196.026†	1.6	-0.00251	mg/L	0.004006	-0.00251	mg/L	0.004006	159.32%
Si 251.611†	148.3	0.00005	mg/L	0.000449	0.00005	mg/L	0.000449	897.49%
Sn 189.927†	-11.2	-0.00377	mg/L	0.000254	-0.00377	mg/L	0.000254	6.73%
Ti 334.940†	-36.0	-0.00039	mg/L	0.000113	-0.00039	mg/L	0.000113	28.75%
Tl 190.801†	-0.7	-0.00460	mg/L	0.001598	-0.00460	mg/L	0.001598	34.77%
V 290.880†	-57.3	-0.00080	mg/L	0.000986	-0.00080	mg/L	0.000986	123.15%
Zn 206.200†	-199.7	-0.00785	mg/L	0.000229	-0.00785	mg/L	0.000229	2.92%
K 766.490†	-248.2	-0.0703	mg/L	0.01409	-0.0703	mg/L	0.01409	20.05%
Na 589.592†	-1083.7	-0.0777	mg/L	0.00440	-0.0777	mg/L	0.00440	5.66%
Sr 407.771†	-718.7	-0.00385	mg/L	0.000119	-0.00385	mg/L	0.000119	3.10%
Li 670.784†	-165.0	-0.00392	mg/L	0.000480	-0.00392	mg/L	0.000480	12.24%

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Sequence No.: 49
Sample ID: L1012078522
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 1/7/2011 9:00:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012078522

Analyte	**Back Pressure**	**Flow**
All	174.0 kPa	0.50 L/min

Mean Data: L1012078522

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5689748.2						54802.70	0.96%
YRADIAL	372762.0						5040.29	1.35%
Ga 417.206	1577199.8						4295.23	0.27%
GaRADIAL	85181.3						740.40	0.87%
Ag 328.068†	-43.9	-0.00058	mg/L	0.000788	-0.00058	mg/L	0.000788	134.94%
Al 396.153†	-41.0	-0.0295	mg/L	0.01028	-0.0295	mg/L	0.01028	34.90%
As 188.979†	1.7	0.00183	mg/L	0.002382	0.00183	mg/L	0.002382	130.17%
Ba 233.527†	-11.7	-0.00413	mg/L	0.000068	-0.00413	mg/L	0.000068	1.66%
Be 234.861†	8.7	-0.00010	mg/L	0.000014	-0.00010	mg/L	0.000014	13.37%
B 249.677†	29.7	-0.00111	mg/L	0.000218	-0.00111	mg/L	0.000218	19.69%
Ca 227.546†	-3.1	-0.0425	mg/L	0.03910	-0.0425	mg/L	0.03910	91.96%
Cd 228.802†	-3.1	-0.00004	mg/L	0.000254	-0.00004	mg/L	0.000254	638.18%
Co 228.616†	-0.1	-0.00079	mg/L	0.000222	-0.00079	mg/L	0.000222	27.97%
Cr 267.716†	29.0	-0.00168	mg/L	0.000019	-0.00168	mg/L	0.000019	1.16%
Cu 327.393†	-337.6	-0.00130	mg/L	0.000479	-0.00130	mg/L	0.000479	36.76%
Fe 239.562†	6.2	-0.00949	mg/L	0.003859	-0.00949	mg/L	0.003859	40.64%
Mg 279.077†	-11.5	-0.0623	mg/L	0.00376	-0.0623	mg/L	0.00376	6.03%
Mn 257.610†	-146.9	-0.00180	mg/L	0.000020	-0.00180	mg/L	0.000020	1.09%
Mo 202.031†	-5.2	-0.00337	mg/L	0.000173	-0.00337	mg/L	0.000173	5.15%
Ni 231.604†	-10.2	-0.00226	mg/L	0.000241	-0.00226	mg/L	0.000241	10.69%
Pb 220.353†	-10.3	-0.00358	mg/L	0.000871	-0.00358	mg/L	0.000871	24.33%
Sb 206.836†	-5.6	-0.00562	mg/L	0.003025	-0.00562	mg/L	0.003025	53.83%
Se 196.026†	-1.1	-0.00425	mg/L	0.001376	-0.00425	mg/L	0.001376	32.35%
Si 251.611†	345.4	0.00586	mg/L	0.000246	0.00586	mg/L	0.000246	4.20%
Sn 189.927†	-10.9	-0.00372	mg/L	0.000187	-0.00372	mg/L	0.000187	5.03%
Ti 334.940†	24.9	-0.00031	mg/L	0.000142	-0.00031	mg/L	0.000142	45.43%
Tl 190.801†	-3.1	-0.00592	mg/L	0.002933	-0.00592	mg/L	0.002933	49.54%
V 290.880†	-76.3	-0.00093	mg/L	0.000277	-0.00093	mg/L	0.000277	29.93%
Zn 206.200†	-74.5	-0.00431	mg/L	0.000108	-0.00431	mg/L	0.000108	2.50%
K 766.490†	-287.7	-0.0843	mg/L	0.03005	-0.0843	mg/L	0.03005	35.64%
Na 589.592†	-1367.9	-0.0995	mg/L	0.00290	-0.0995	mg/L	0.00290	2.92%
Sr 407.771†	-685.5	-0.00384	mg/L	0.000056	-0.00384	mg/L	0.000056	1.47%

Approved: January 10, 2011

Li 670.784†	-256.0	-0.00501 mg/L	0.000724	-0.00501 mg/L	0.000724	14.45%

Sequence No.: 50 **Autosampler Location: 108**
Sample ID: L1012078523 **Date Collected: 1/7/2011 9:06:52 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078523

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078523

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5681479.8						36019.42	0.63%
YRADIAL	363708.2						6349.60	1.75%
Ga 417.206	1558837.1						8598.53	0.55%
GaRADIAL	83135.8						655.95	0.79%
Ag 328.068†	-67.3	-0.00071	mg/L	0.000347	-0.00071	mg/L	0.000347	49.00%
Al 396.153†	180.1	0.0103	mg/L	0.01002	0.0103	mg/L	0.01002	97.53%
As 188.979†	0.7	0.00107	mg/L	0.002631	0.00107	mg/L	0.002631	245.46%
Ba 233.527†	22.8	-0.00361	mg/L	0.000044	-0.00361	mg/L	0.000044	1.23%
Be 234.861†	0.9	-0.00013	mg/L	0.000012	-0.00013	mg/L	0.000012	9.28%
B 249.677†	125.9	0.00103	mg/L	0.000079	0.00103	mg/L	0.000079	7.61%
Ca 227.546†	22.3	0.177	mg/L	0.0516	0.177	mg/L	0.0516	29.20%
Cd 228.802†	-1.3	0.00006	mg/L	0.000033	0.00006	mg/L	0.000033	57.34%
Co 228.616†	4.1	-0.00059	mg/L	0.000110	-0.00059	mg/L	0.000110	18.59%
Cr 267.716†	106.2	-0.00101	mg/L	0.000036	-0.00101	mg/L	0.000036	3.53%
Cu 327.393†	1675.2	0.0132	mg/L	0.00037	0.0132	mg/L	0.00037	2.80%
Fe 239.562†	41.3	0.0435	mg/L	0.00097	0.0435	mg/L	0.00097	2.23%
Mg 279.077†	21.5	-0.0268	mg/L	0.00864	-0.0268	mg/L	0.00864	32.28%
Mn 257.610†	475.2	-0.00038	mg/L	0.000016	-0.00038	mg/L	0.000016	4.32%
Mo 202.031†	-2.0	-0.00317	mg/L	0.000079	-0.00317	mg/L	0.000079	2.48%
Ni 231.604†	4.6	-0.00187	mg/L	0.000188	-0.00187	mg/L	0.000188	10.08%
Pb 220.353†	-14.3	-0.00415	mg/L	0.000551	-0.00415	mg/L	0.000551	13.28%
Sb 206.836†	-4.8	-0.00520	mg/L	0.000781	-0.00520	mg/L	0.000781	15.01%
Se 196.026†	3.0	-0.00164	mg/L	0.001608	-0.00164	mg/L	0.001608	98.24%
Si 251.611†	3787.0	0.107	mg/L	0.0051	0.107	mg/L	0.0051	4.79%
Sn 189.927†	-11.3	-0.00378	mg/L	0.000231	-0.00378	mg/L	0.000231	6.12%
Ti 334.940†	1355.2	0.00142	mg/L	0.000130	0.00142	mg/L	0.000130	9.17%
Tl 190.801†	2.5	-0.00290	mg/L	0.001188	-0.00290	mg/L	0.001188	40.97%
V 290.880†	-29.2	-0.00062	mg/L	0.000753	-0.00062	mg/L	0.000753	121.74%
Zn 206.200†	0.4	-0.00219	mg/L	0.000310	-0.00219	mg/L	0.000310	14.18%
K 766.490†	264.7	0.112	mg/L	0.0223	0.112	mg/L	0.0223	19.88%
Na 589.592†	2022.4	0.160	mg/L	0.0050	0.160	mg/L	0.0050	3.14%
Sr 407.771†	133.2	-0.00336	mg/L	0.000036	-0.00336	mg/L	0.000036	1.07%
Li 670.784†	-109.7	-0.00326	mg/L	0.000951	-0.00326	mg/L	0.000951	29.23%

Sequence No.: 51 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 9:13:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5353259.9						50284.51	0.94%
YRADIAL	342138.9						8126.18	2.38%
Ga 417.206	1524146.7						18684.53	1.23%
GaRADIAL	79104.8						283.42	0.36%
Ag 328.068†	75679.8	0.411	mg/L	0.0026	0.411	mg/L	0.0026	0.63%

Approved: January 10, 2011

```
   QC value within limits for Ag 328.068  Recovery = 102.83%
Al 396.153†            58866.4        10.5 mg/L          0.01        10.5 mg/L          0.01   0.09%
   QC value within limits for Al 396.153  Recovery = 105.45%
As 188.979†              492.4       0.404 mg/L        0.0016       0.404 mg/L        0.0016   0.40%
   QC value within limits for As 188.979  Recovery = 101.07%
Ba 233.527†            68946.4        1.04 mg/L         0.009        1.04 mg/L         0.009   0.89%
   QC value within limits for Ba 233.527  Recovery = 104.11%
Be 234.861†            33925.7      0.0519 mg/L       0.00013      0.0519 mg/L       0.00013   0.26%
   QC value within limits for Be 234.861  Recovery = 103.84%
B 249.677†             25468.6       0.519 mg/L        0.0045       0.519 mg/L        0.0045   0.86%
   QC value within limits for B 249.677  Recovery = 103.80%
Ca 227.546†             1199.7        10.9 mg/L          0.11        10.9 mg/L          0.11   0.98%
   QC value within limits for Ca 227.546  Recovery = 108.67%
Cd 228.802†             1002.1      0.0498 mg/L       0.00014      0.0498 mg/L       0.00014   0.27%
   QC value within limits for Cd 228.802  Recovery = 99.59%
Co 228.616†             4309.6       0.206 mg/L        0.0017       0.206 mg/L        0.0017   0.83%
   QC value within limits for Co 228.616  Recovery = 103.01%
Cr 267.716†            60250.3       0.521 mg/L        0.0044       0.521 mg/L        0.0044   0.84%
   QC value within limits for Cr 267.716  Recovery = 104.25%
Cu 327.393†            71011.2       0.515 mg/L        0.0053       0.515 mg/L        0.0053   1.04%
   QC value within limits for Cu 327.393  Recovery = 103.01%
Fe 239.562†             2806.8        4.22 mg/L         0.031        4.22 mg/L         0.031   0.72%
   QC value within limits for Fe 239.562  Recovery = 105.49%
Mg 279.077†             9798.6        10.5 mg/L          0.13        10.5 mg/L          0.13   1.27%
   QC value within limits for Mg 279.077  Recovery = 105.19%
Mn 257.610†           231686.4       0.523 mg/L        0.0043       0.523 mg/L        0.0043   0.82%
   QC value within limits for Mn 257.610  Recovery = 104.57%
Mo 202.031†            16454.2        1.04 mg/L         0.009        1.04 mg/L         0.009   0.83%
   QC value within limits for Mo 202.031  Recovery = 104.19%
Ni 231.604†            19811.9       0.521 mg/L        0.0041       0.521 mg/L        0.0041   0.79%
   QC value within limits for Ni 231.604  Recovery = 104.16%
Pb 220.353†             3578.2       0.524 mg/L        0.0035       0.524 mg/L        0.0035   0.67%
   QC value within limits for Pb 220.353  Recovery = 104.72%
Sb 206.836†             2300.1        1.27 mg/L         0.018        1.27 mg/L         0.018   1.40%
   QC value within limits for Sb 206.836  Recovery = 106.11%
Se 196.026†              671.4       0.417 mg/L        0.0033       0.417 mg/L        0.0033   0.80%
   QC value within limits for Se 196.026  Recovery = 104.14%
Si 251.611†           174981.3        5.14 mg/L         0.021        5.14 mg/L         0.021   0.40%
   QC value within limits for Si 251.611  Recovery = 102.73%
Sn 189.927†             6758.7        1.04 mg/L         0.009        1.04 mg/L         0.009   0.89%
   QC value within limits for Sn 189.927  Recovery = 104.38%
Ti 334.940†           799979.0        1.04 mg/L         0.001        1.04 mg/L         0.001   0.08%
   QC value within limits for Ti 334.940  Recovery = 103.92%
Tl 190.801†              970.6       0.526 mg/L        0.0021       0.526 mg/L        0.0021   0.40%
   QC value within limits for Tl 190.801  Recovery = 105.20%
V 290.880†            157436.3        1.03 mg/L         0.010        1.03 mg/L         0.010   0.96%
   QC value within limits for V 290.880  Recovery = 102.51%
Zn 206.200†            36688.9        1.04 mg/L         0.010        1.04 mg/L         0.010   0.96%
   QC value within limits for Zn 206.200  Recovery = 103.75%
K 766.490†            142909.7        51.6 mg/L          0.22        51.6 mg/L          0.22   0.43%
   QC value within limits for K 766.490  Recovery = 103.22%
Na 589.592†           659909.6        51.6 mg/L          0.70        51.6 mg/L          0.70   1.37%
   QC value within limits for Na 589.592  Recovery = 103.11%
Sr 407.771†          1778989.4        1.05 mg/L         0.011        1.05 mg/L         0.011   1.04%
   QC value within limits for Sr 407.771  Recovery = 105.08%
Li 670.784†            86910.4        1.04 mg/L         0.008        1.04 mg/L         0.008   0.74%
   QC value within limits for Li 670.784  Recovery = 104.17%
All analyte(s) passed QC.
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Sequence No.: 52 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 9:20:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Approved: January 10, 2011

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5543168.6						54242.87	0.98%
YRADIAL	351422.0						12164.70	3.46%
Ga 417.206	1516264.8						31863.50	2.10%
GaRADIAL	80402.4						755.07	0.94%
Ag 328.068†	-65.8	-0.00070	mg/L	0.000356	-0.00070	mg/L	0.000356	50.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-103.8	-0.0408	mg/L	0.00754	-0.0408	mg/L	0.00754	18.50%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.6	0.00177	mg/L	0.002201	0.00177	mg/L	0.002201	124.38%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-19.2	-0.00425	mg/L	0.000168	-0.00425	mg/L	0.000168	3.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-5.9	-0.00012	mg/L	0.000031	-0.00012	mg/L	0.000031	25.70%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	16.8	-0.00143	mg/L	0.000445	-0.00143	mg/L	0.000445	31.18%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-3.4	-0.0456	mg/L	0.02467	-0.0456	mg/L	0.02467	54.11%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-1.0	0.00007	mg/L	0.000062	0.00007	mg/L	0.000062	88.46%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.8	-0.00065	mg/L	0.000392	-0.00065	mg/L	0.000392	60.06%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-7.9	-0.00201	mg/L	0.000112	-0.00201	mg/L	0.000112	5.60%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-361.9	-0.00148	mg/L	0.000403	-0.00148	mg/L	0.000403	27.23%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-3.7	-0.0246	mg/L	0.00493	-0.0246	mg/L	0.00493	20.09%
QC value less than the lower limit for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-8.4	-0.0590	mg/L	0.00377	-0.0590	mg/L	0.00377	6.39%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-211.3	-0.00195	mg/L	0.000013	-0.00195	mg/L	0.000013	0.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.0	-0.00323	mg/L	0.000223	-0.00323	mg/L	0.000223	6.91%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-15.6	-0.00240	mg/L	0.000172	-0.00240	mg/L	0.000172	7.15%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.3	-0.00299	mg/L	0.001097	-0.00299	mg/L	0.001097	36.65%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.6	-0.00291	mg/L	0.000918	-0.00291	mg/L	0.000918	31.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.2	-0.00681	mg/L	0.001214	-0.00681	mg/L	0.001214	17.82%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-63.2	-0.00618	mg/L	0.000251	-0.00618	mg/L	0.000251	4.05%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-6.3	-0.00301	mg/L	0.000628	-0.00301	mg/L	0.000628	20.85%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-62.6	-0.00043	mg/L	0.000123	-0.00043	mg/L	0.000123	28.93%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-1.7	-0.00515	mg/L	0.004570	-0.00515	mg/L	0.004570	88.71%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-154.7	-0.00144	mg/L	0.000483	-0.00144	mg/L	0.000483	33.65%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-243.4	-0.00908	mg/L	0.000084	-0.00908	mg/L	0.000084	0.93%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	-120.1	-0.0247	mg/L	0.01172	-0.0247	mg/L	0.01172	47.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-970.6	-0.0691	mg/L	0.01652	-0.0691	mg/L	0.01652	23.92%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	-568.0	-0.00376	mg/L	0.000055	-0.00376	mg/L	0.000055	1.47%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	-163.3	-0.00390	mg/L	0.002285	-0.00390	mg/L	0.002285	58.61%
QC value within limits for Li 670.784 Recovery = Not calculated								

QC Failed. Continue with analysis.

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Sequence No.: 53
Sample ID: L1012078524
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 1/7/2011 9:26:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Approved: January 10, 2011

Nebulizer Parameters: L1012078524

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012078524

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5726844.0						73384.25	1.28%
YRADIAL	365387.2						14807.10	4.05%
Ga 417.206	1584159.9						20780.46	1.31%
GaRADIAL	83905.4						3672.39	4.38%
Ag 328.068†	-86.6	-0.00082	mg/L	0.001005	-0.00082	mg/L	0.001005	123.03%
Al 396.153†	-79.6	-0.0364	mg/L	0.00450	-0.0364	mg/L	0.00450	12.37%
As 188.979†	-3.2	-0.00216	mg/L	0.002820	-0.00216	mg/L	0.002820	130.36%
Ba 233.527†	-3.9	-0.00402	mg/L	0.000083	-0.00402	mg/L	0.000083	2.06%
Be 234.861†	0.8	-0.00011	mg/L	0.000004	-0.00011	mg/L	0.000004	3.36%
B 249.677†	96.7	0.00024	mg/L	0.000151	0.00024	mg/L	0.000151	64.13%
Ca 227.546†	-1.7	-0.0304	mg/L	0.05359	-0.0304	mg/L	0.05359	176.44%
Cd 228.802†	-2.9	0.00000	mg/L	0.000179	0.00000	mg/L	0.000179	>999.9%
Co 228.616†	2.3	-0.00068	mg/L	0.000379	-0.00068	mg/L	0.000379	55.84%
Cr 267.716†	29.1	-0.00168	mg/L	0.000093	-0.00168	mg/L	0.000093	5.51%
Cu 327.393†	-313.4	-0.00113	mg/L	0.000308	-0.00113	mg/L	0.000308	27.32%
Fe 239.562†	3.9	-0.0131	mg/L	0.00146	-0.0131	mg/L	0.00146	11.21%
Mg 279.077†	-7.1	-0.0576	mg/L	0.00509	-0.0576	mg/L	0.00509	8.84%
Mn 257.610†	-170.4	-0.00186	mg/L	0.000003	-0.00186	mg/L	0.000003	0.18%
Mo 202.031†	-4.7	-0.00334	mg/L	0.000248	-0.00334	mg/L	0.000248	7.42%
Ni 231.604†	-8.8	-0.00222	mg/L	0.000110	-0.00222	mg/L	0.000110	4.94%
Pb 220.353†	-13.9	-0.00410	mg/L	0.001037	-0.00410	mg/L	0.001037	25.29%
Sb 206.836†	-2.5	-0.00398	mg/L	0.002459	-0.00398	mg/L	0.002459	61.73%
Se 196.026†	-2.0	-0.00476	mg/L	0.003716	-0.00476	mg/L	0.003716	78.02%
Si 251.611†	158.4	0.00035	mg/L	0.000584	0.00035	mg/L	0.000584	166.95%
Sn 189.927†	-10.4	-0.00364	mg/L	0.000732	-0.00364	mg/L	0.000732	20.09%
Ti 334.940†	-27.5	-0.00038	mg/L	0.000029	-0.00038	mg/L	0.000029	7.59%
Tl 190.801†	-1.2	-0.00490	mg/L	0.000395	-0.00490	mg/L	0.000395	8.06%
V 290.880†	-178.0	-0.00159	mg/L	0.000661	-0.00159	mg/L	0.000661	41.66%
Zn 206.200†	-165.0	-0.00687	mg/L	0.000039	-0.00687	mg/L	0.000039	0.56%
K 766.490†	-174.7	-0.0442	mg/L	0.02216	-0.0442	mg/L	0.02216	50.18%
Na 589.592†	-775.6	-0.0541	mg/L	0.01511	-0.0541	mg/L	0.01511	27.93%
Sr 407.771†	-806.1	-0.00391	mg/L	0.000045	-0.00391	mg/L	0.000045	1.15%
Li 670.784†	-243.0	-0.00486	mg/L	0.001458	-0.00486	mg/L	0.001458	30.03%

Sequence No.: 54
Sample ID: L1012078525
Analyst: PDM
Initial Sample Wt:
Dilution:
Autosampler Location: 110
Date Collected: 1/7/2011 9:33:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012078525

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012078525

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5671836.1						45460.40	0.80%
YRADIAL	365762.5						1538.12	0.42%
Ga 417.206	1552986.0						14007.62	0.90%
GaRADIAL	84400.7						1988.59	2.36%
Ag 328.068†	-140.8	-0.00111	mg/L	0.000370	-0.00111	mg/L	0.000370	33.31%
Al 396.153†	-50.9	-0.0312	mg/L	0.01015	-0.0312	mg/L	0.01015	32.50%
As 188.979†	0.2	0.00067	mg/L	0.005877	0.00067	mg/L	0.005877	882.81%
Ba 233.527†	-9.0	-0.00409	mg/L	0.000108	-0.00409	mg/L	0.000108	2.63%
Be 234.861†	-4.7	-0.00012	mg/L	0.000023	-0.00012	mg/L	0.000023	19.44%
B 249.677†	137.8	0.00105	mg/L	0.000148	0.00105	mg/L	0.000148	14.10%
Ca 227.546†	-1.7	-0.0298	mg/L	0.05662	-0.0298	mg/L	0.05662	189.70%
Cd 228.802†	-2.2	0.00001	mg/L	0.000062	0.00001	mg/L	0.000062	428.30%
Co 228.616†	0.7	-0.00075	mg/L	0.000242	-0.00075	mg/L	0.000242	32.04%
Cr 267.716†	76.5	-0.00127	mg/L	0.000094	-0.00127	mg/L	0.000094	7.37%

Approved: January 10, 2011

Cu 327.393†	-301.2	-0.00104	mg/L	0.000092	-0.00104	mg/L	0.000092	8.85%
Fe 239.562†	2.5	-0.0151	mg/L	0.00334	-0.0151	mg/L	0.00334	22.06%
Mg 279.077†	-9.0	-0.0596	mg/L	0.00604	-0.0596	mg/L	0.00604	10.14%
Mn 257.610†	-167.8	-0.00185	mg/L	0.000004	-0.00185	mg/L	0.000004	0.20%
Mo 202.031†	-6.2	-0.00344	mg/L	0.000275	-0.00344	mg/L	0.000275	7.99%
Ni 231.604†	-1.5	-0.00203	mg/L	0.000136	-0.00203	mg/L	0.000136	6.71%
Pb 220.353†	-10.4	-0.00358	mg/L	0.000641	-0.00358	mg/L	0.000641	17.90%
Sb 206.836†	-3.3	-0.00439	mg/L	0.000584	-0.00439	mg/L	0.000584	13.28%
Se 196.026†	-0.2	-0.00365	mg/L	0.003845	-0.00365	mg/L	0.003845	105.41%
Si 251.611†	133.4	-0.00039	mg/L	0.000442	-0.00039	mg/L	0.000442	114.42%
Sn 189.927†	-8.2	-0.00331	mg/L	0.000085	-0.00331	mg/L	0.000085	2.58%
Ti 334.940†	-120.5	-0.00050	mg/L	0.000207	-0.00050	mg/L	0.000207	41.22%
Tl 190.801†	0.3	-0.00411	mg/L	0.001040	-0.00411	mg/L	0.001040	25.27%
V 290.880†	-199.7	-0.00173	mg/L	0.000804	-0.00173	mg/L	0.000804	46.50%
Zn 206.200†	-200.8	-0.00788	mg/L	0.000193	-0.00788	mg/L	0.000193	2.46%
K 766.490†	-157.8	-0.0381	mg/L	0.00886	-0.0381	mg/L	0.00886	23.26%
Na 589.592†	-1044.6	-0.0747	mg/L	0.01224	-0.0747	mg/L	0.01224	16.38%
Sr 407.771†	-646.4	-0.00381	mg/L	0.000037	-0.00381	mg/L	0.000037	0.97%
Li 670.784†	-195.3	-0.00428	mg/L	0.000301	-0.00428	mg/L	0.000301	7.03%

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Sequence No.: 55 **Autosampler Location: 111**
Sample ID: L1012078526 **Date Collected: 1/7/2011 9:40:13 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012078526

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012078526

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5641533.7						30095.76	0.53%
YRADIAL	364644.9						8342.87	2.29%
Ga 417.206	1556827.1						3445.15	0.22%
GaRADIAL	83275.3						294.94	0.35%
Ag 328.068†	-112.1	-0.00095	mg/L	0.000315	-0.00095	mg/L	0.000315	33.00%
Al 396.153†	37.9	-0.0153	mg/L	0.00311	-0.0153	mg/L	0.00311	20.33%
As 188.979†	2.6	0.00261	mg/L	0.005257	0.00261	mg/L	0.005257	201.41%
Ba 233.527†	17.1	-0.00370	mg/L	0.000049	-0.00370	mg/L	0.000049	1.34%
Be 234.861†	-2.2	-0.00012	mg/L	0.000018	-0.00012	mg/L	0.000018	15.31%
B 249.677†	105.7	0.00046	mg/L	0.000164	0.00046	mg/L	0.000164	35.74%
Ca 227.546†	20.1	0.156	mg/L	0.0301	0.156	mg/L	0.0301	19.24%
Cd 228.802†	-4.1	-0.00009	mg/L	0.000050	-0.00009	mg/L	0.000050	53.25%
Co 228.616†	0.6	-0.00076	mg/L	0.000092	-0.00076	mg/L	0.000092	12.08%
Cr 267.716†	32.5	-0.00165	mg/L	0.000042	-0.00165	mg/L	0.000042	2.51%
Cu 327.393†	2500.7	0.0192	mg/L	0.00032	0.0192	mg/L	0.00032	1.69%
Fe 239.562†	12.9	0.00062	mg/L	0.002605	0.00062	mg/L	0.002605	421.77%
Mg 279.077†	1.3	-0.0485	mg/L	0.00215	-0.0485	mg/L	0.00215	4.43%
Mn 257.610†	44.3	-0.00136	mg/L	0.000006	-0.00136	mg/L	0.000006	0.43%
Mo 202.031†	-7.5	-0.00352	mg/L	0.000311	-0.00352	mg/L	0.000311	8.83%
Ni 231.604†	-16.5	-0.00242	mg/L	0.000054	-0.00242	mg/L	0.000054	2.25%
Pb 220.353†	-2.3	-0.00242	mg/L	0.001101	-0.00242	mg/L	0.001101	45.58%
Sb 206.836†	-3.3	-0.00439	mg/L	0.001998	-0.00439	mg/L	0.001998	45.49%
Se 196.026†	1.5	-0.00255	mg/L	0.004841	-0.00255	mg/L	0.004841	189.67%
Si 251.611†	2327.9	0.0643	mg/L	0.00020	0.0643	mg/L	0.00020	0.32%
Sn 189.927†	-8.8	-0.00340	mg/L	0.000172	-0.00340	mg/L	0.000172	5.07%
Ti 334.940†	527.7	0.00034	mg/L	0.000137	0.00034	mg/L	0.000137	40.12%
Tl 190.801†	0.5	-0.00398	mg/L	0.002895	-0.00398	mg/L	0.002895	72.68%
V 290.880†	-41.0	-0.00070	mg/L	0.001225	-0.00070	mg/L	0.001225	176.22%
Zn 206.200†	-89.5	-0.00473	mg/L	0.000033	-0.00473	mg/L	0.000033	0.71%
K 766.490†	62.8	0.0404	mg/L	0.02998	0.0404	mg/L	0.02998	74.30%
Na 589.592†	-42.6	0.00199	mg/L	0.013368	0.00199	mg/L	0.013368	670.62%
Sr 407.771†	335.9	-0.00323	mg/L	0.000041	-0.00323	mg/L	0.000041	1.27%
Li 670.784†	-202.8	-0.00437	mg/L	0.001024	-0.00437	mg/L	0.001024	23.41%

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Sequence No.: 56 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/7/2011 9:46:53 PM**

Approved: January 10, 2011

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5284420.6						20729.01	0.39%
YRADIAL	344698.7						6208.25	1.80%
Ga 417.206	1503010.3						5817.95	0.39%
GaRADIAL	79627.3						576.07	0.72%
Ag 328.068†	76788.0	0.417	mg/L	0.0026	0.417	mg/L	0.0026	0.63%
QC value within limits for Ag 328.068 Recovery = 104.33%								
Al 396.153†	59618.6	10.7	mg/L	0.03	10.7	mg/L	0.03	0.31%
QC value within limits for Al 396.153 Recovery = 106.80%								
As 188.979†	498.7	0.409	mg/L	0.0006	0.409	mg/L	0.0006	0.14%
QC value within limits for As 188.979 Recovery = 102.35%								
Ba 233.527†	69623.6	1.05	mg/L	0.004	1.05	mg/L	0.004	0.40%
QC value within limits for Ba 233.527 Recovery = 105.14%								
Be 234.861†	34431.4	0.0527	mg/L	0.00013	0.0527	mg/L	0.00013	0.24%
QC value within limits for Be 234.861 Recovery = 105.42%								
B 249.677†	25717.3	0.524	mg/L	0.0041	0.524	mg/L	0.0041	0.79%
QC value within limits for B 249.677 Recovery = 104.76%								
Ca 227.546†	1226.9	11.1	mg/L	0.05	11.1	mg/L	0.05	0.47%
QC value greater than the upper limit for Ca 227.546 Recovery = 111.08%								
Cd 228.802†	1016.0	0.0505	mg/L	0.00043	0.0505	mg/L	0.00043	0.86%
QC value within limits for Cd 228.802 Recovery = 101.00%								
Co 228.616†	4387.8	0.210	mg/L	0.0010	0.210	mg/L	0.0010	0.49%
QC value within limits for Co 228.616 Recovery = 104.89%								
Cr 267.716†	60739.5	0.526	mg/L	0.0012	0.526	mg/L	0.0012	0.23%
QC value within limits for Cr 267.716 Recovery = 105.10%								
Cu 327.393†	72192.0	0.524	mg/L	0.0059	0.524	mg/L	0.0059	1.12%
QC value within limits for Cu 327.393 Recovery = 104.72%								
Fe 239.562†	2801.6	4.21	mg/L	0.038	4.21	mg/L	0.038	0.91%
QC value within limits for Fe 239.562 Recovery = 105.29%								
Mg 279.077†	9780.1	10.5	mg/L	0.12	10.5	mg/L	0.12	1.19%
QC value within limits for Mg 279.077 Recovery = 104.99%								
Mn 257.610†	234500.8	0.529	mg/L	0.0031	0.529	mg/L	0.0031	0.58%
QC value within limits for Mn 257.610 Recovery = 105.84%								
Mo 202.031†	16686.8	1.06	mg/L	0.002	1.06	mg/L	0.002	0.20%
QC value within limits for Mo 202.031 Recovery = 105.66%								
Ni 231.604†	20099.7	0.528	mg/L	0.0025	0.528	mg/L	0.0025	0.46%
QC value within limits for Ni 231.604 Recovery = 105.68%								
Pb 220.353†	3623.9	0.530	mg/L	0.0028	0.530	mg/L	0.0028	0.53%
QC value within limits for Pb 220.353 Recovery = 106.06%								
Sb 206.836†	2334.6	1.29	mg/L	0.010	1.29	mg/L	0.010	0.79%
QC value within limits for Sb 206.836 Recovery = 107.71%								
Se 196.026†	679.7	0.422	mg/L	0.0011	0.422	mg/L	0.0011	0.27%
QC value within limits for Se 196.026 Recovery = 105.45%								
Si 251.611†	177291.6	5.20	mg/L	0.035	5.20	mg/L	0.035	0.67%
QC value within limits for Si 251.611 Recovery = 104.08%								
Sn 189.927†	6868.2	1.06	mg/L	0.006	1.06	mg/L	0.006	0.58%
QC value within limits for Sn 189.927 Recovery = 106.07%								
Ti 334.940†	808063.2	1.05	mg/L	0.004	1.05	mg/L	0.004	0.35%
QC value within limits for Ti 334.940 Recovery = 104.98%								
Tl 190.801†	984.8	0.534	mg/L	0.0017	0.534	mg/L	0.0017	0.32%
QC value within limits for Tl 190.801 Recovery = 106.74%								
V 290.880†	159144.9	1.04	mg/L	0.007	1.04	mg/L	0.007	0.67%
QC value within limits for V 290.880 Recovery = 103.62%								
Zn 206.200†	36954.5	1.05	mg/L	0.004	1.05	mg/L	0.004	0.36%
QC value within limits for Zn 206.200 Recovery = 104.50%								
K 766.490†	145418.8	52.5	mg/L	0.31	52.5	mg/L	0.31	0.59%
QC value within limits for K 766.490 Recovery = 105.06%								
Na 589.592†	667926.4	52.2	mg/L	0.78	52.2	mg/L	0.78	1.50%
QC value within limits for Na 589.592 Recovery = 104.39%								
Sr 407.771†	1802436.1	1.06	mg/L	0.009	1.06	mg/L	0.009	0.86%
QC value within limits for Sr 407.771 Recovery = 106.47%								

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Li 670.784† 88312.2 1.06 mg/L 0.019 1.06 mg/L 0.019 1.80%
QC value within limits for Li 670.784 Recovery = 105.86%
QC Failed. Continue with analysis.

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Sequence No.: 57 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/7/2011 9:53:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5546441.9						72154.90	1.30%
YRADIAL	348430.0						8014.65	2.30%
Ga 417.206	1525816.8						20000.08	1.31%
GaRADIAL	80201.0						357.54	0.45%
Ag 328.068†	-186.5	-0.00136	mg/L	0.000294	-0.00136	mg/L	0.000294	21.66%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-125.1	-0.0446	mg/L	0.01497	-0.0446	mg/L	0.01497	33.58%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-4.3	-0.00310	mg/L	0.001738	-0.00310	mg/L	0.001738	56.11%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-13.8	-0.00417	mg/L	0.000088	-0.00417	mg/L	0.000088	2.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-15.6	-0.00013	mg/L	0.000013	-0.00013	mg/L	0.000013	9.48%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	0.8	-0.00173	mg/L	0.000409	-0.00173	mg/L	0.000409	23.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-5.9	-0.0663	mg/L	0.02219	-0.0663	mg/L	0.02219	33.45%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-4.2	-0.00006	mg/L	0.000031	-0.00006	mg/L	0.000031	49.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.7	-0.00075	mg/L	0.000427	-0.00075	mg/L	0.000427	56.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-13.8	-0.00206	mg/L	0.000064	-0.00206	mg/L	0.000064	3.13%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-279.2	-0.00088	mg/L	0.000634	-0.00088	mg/L	0.000634	71.82%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-1.6	-0.0214	mg/L	0.00274	-0.0214	mg/L	0.00274	12.78%
QC value less than the lower limit for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-2.0	-0.0521	mg/L	0.00449	-0.0521	mg/L	0.00449	8.61%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-203.3	-0.00193	mg/L	0.000030	-0.00193	mg/L	0.000030	1.53%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.3	-0.00319	mg/L	0.000329	-0.00319	mg/L	0.000329	10.31%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-19.6	-0.00250	mg/L	0.000369	-0.00250	mg/L	0.000369	14.75%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-12.4	-0.00388	mg/L	0.000377	-0.00388	mg/L	0.000377	9.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.7	-0.00350	mg/L	0.000703	-0.00350	mg/L	0.000703	20.05%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.3	-0.00336	mg/L	0.001258	-0.00336	mg/L	0.001258	37.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-82.1	-0.00674	mg/L	0.000175	-0.00674	mg/L	0.000175	2.60%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-9.0	-0.00343	mg/L	0.000824	-0.00343	mg/L	0.000824	24.02%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-40.3	-0.00040	mg/L	0.000097	-0.00040	mg/L	0.000097	24.42%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.1	-0.00257	mg/L	0.001484	-0.00257	mg/L	0.001484	57.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-130.8	-0.00128	mg/L	0.000877	-0.00128	mg/L	0.000877	68.60%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-244.0	-0.00910	mg/L	0.000116	-0.00910	mg/L	0.000116	1.27%

Approved: January 10, 2011

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490†	-207.9	-0.0559 mg/L	0.01857	-0.0559 mg/L	0.01857	33.19%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592†	-988.6	-0.0704 mg/L	0.00877	-0.0704 mg/L	0.00877	12.45%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771†	-665.4	-0.00382 mg/L	0.000049	-0.00382 mg/L	0.000049	1.29%

QC value within limits for Sr 407.771 Recovery = Not calculated

Li 670.784†	-218.0	-0.00456 mg/L	0.001628	-0.00456 mg/L	0.001628	35.74%

QC value within limits for Li 670.784 Recovery = Not calculated

QC Failed. Continue with analysis.

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Sequence No.: 58 **Autosampler Location: 112**
Sample ID: PBW 1T WG353353-02 **Date Collected: 1/7/2011 10:00:10 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 1T WG353353-02

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: PBW 1T WG353353-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5664552.2						43930.50	0.78%
YRADIAL	358603.2						2162.79	0.60%
Ga 417.206	1560572.5						13044.19	0.84%
GaRADIAL	83085.6						1778.39	2.14%
Ag 328.068†	-85.1	-0.00081	mg/L	0.000835	-0.00081	mg/L	0.000835	103.28%
Al 396.153†	-102.2	-0.0405	mg/L	0.00218	-0.0405	mg/L	0.00218	5.39%
As 188.979†	-1.9	-0.00115	mg/L	0.005509	-0.00115	mg/L	0.005509	479.32%
Ba 233.527†	-11.1	-0.00412	mg/L	0.000078	-0.00412	mg/L	0.000078	1.89%
Be 234.861†	1.4	-0.00011	mg/L	0.000013	-0.00011	mg/L	0.000013	11.38%
B 249.677†	-81.9	-0.00337	mg/L	0.000171	-0.00337	mg/L	0.000171	5.06%
Ca 227.546†	0.1	-0.0151	mg/L	0.03801	-0.0151	mg/L	0.03801	250.95%
Cd 228.802†	-5.2	-0.00012	mg/L	0.000267	-0.00012	mg/L	0.000267	218.46%
Co 228.616†	-1.4	-0.00086	mg/L	0.000122	-0.00086	mg/L	0.000122	14.25%
Cr 267.716†	-9.9	-0.00202	mg/L	0.000092	-0.00202	mg/L	0.000092	4.56%
Cu 327.393†	-263.1	-0.00077	mg/L	0.000207	-0.00077	mg/L	0.000207	27.03%
Fe 239.562†	1.7	-0.0164	mg/L	0.00214	-0.0164	mg/L	0.00214	13.06%
Mg 279.077†	-9.5	-0.0602	mg/L	0.00455	-0.0602	mg/L	0.00455	7.56%
Mn 257.610†	-85.2	-0.00167	mg/L	0.000022	-0.00167	mg/L	0.000022	1.30%
Mo 202.031†	-6.8	-0.00347	mg/L	0.000301	-0.00347	mg/L	0.000301	8.68%
Ni 231.604†	-22.0	-0.00257	mg/L	0.000190	-0.00257	mg/L	0.000190	7.42%
Pb 220.353†	-10.9	-0.00367	mg/L	0.000966	-0.00367	mg/L	0.000966	26.33%
Sb 206.836†	-2.5	-0.00396	mg/L	0.001582	-0.00396	mg/L	0.001582	39.89%
Se 196.026†	-0.3	-0.00374	mg/L	0.003472	-0.00374	mg/L	0.003472	92.94%
Si 251.611†	-6.1	-0.00450	mg/L	0.000081	-0.00450	mg/L	0.000081	1.80%
Sn 189.927†	-7.3	-0.00316	mg/L	0.000669	-0.00316	mg/L	0.000669	21.15%
Ti 334.940†	-108.0	-0.00049	mg/L	0.000126	-0.00049	mg/L	0.000126	25.94%
Tl 190.801†	-1.5	-0.00507	mg/L	0.001891	-0.00507	mg/L	0.001891	37.27%
V 290.880†	-128.8	-0.00127	mg/L	0.001641	-0.00127	mg/L	0.001641	129.58%
Zn 206.200†	-196.7	-0.00776	mg/L	0.000210	-0.00776	mg/L	0.000210	2.71%
K 766.490†	-172.4	-0.0433	mg/L	0.00763	-0.0433	mg/L	0.00763	17.63%
Na 589.592†	-1191.7	-0.0860	mg/L	0.01205	-0.0860	mg/L	0.01205	14.02%
Sr 407.771†	-425.3	-0.00368	mg/L	0.000032	-0.00368	mg/L	0.000032	0.87%
Li 670.784†	-258.9	-0.00505	mg/L	0.000411	-0.00505	mg/L	0.000411	8.15%

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Sequence No.: 59 **Autosampler Location: 113**
Sample ID: LCSW 1T WG353353-03 **Date Collected: 1/7/2011 10:06:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 1T WG353353-03

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Approved: January 10, 2011

Mean Data: LCSW 1T WG353353-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5452899.7						1457.71	0.03%
YRADIAL	354553.9						5386.12	1.52%
Ga 417.206	1562210.6						6936.69	0.44%
GaRADIAL	82167.9						1022.43	1.24%
Ag 328.068†	37927.0	0.206	mg/L	0.0025	0.206	mg/L	0.0025	1.23%
Al 396.153†	28724.2	5.13	mg/L	0.027	5.13	mg/L	0.027	0.53%
As 188.979†	239.4	0.197	mg/L	0.0040	0.197	mg/L	0.0040	2.05%
Ba 233.527†	33999.9	0.511	mg/L	0.0081	0.511	mg/L	0.0081	1.59%
Be 234.861†	16720.7	0.0255	mg/L	0.00043	0.0255	mg/L	0.00043	1.68%
B 249.677†	50507.8	1.02	mg/L	0.015	1.02	mg/L	0.015	1.46%
Ca 227.546†	579.7	5.25	mg/L	0.063	5.25	mg/L	0.063	1.19%
Cd 228.802†	485.1	0.0242	mg/L	0.00024	0.0242	mg/L	0.00024	1.00%
Co 228.616†	2123.1	0.101	mg/L	0.0002	0.101	mg/L	0.0002	0.22%
Cr 267.716†	29549.2	0.255	mg/L	0.0036	0.255	mg/L	0.0036	1.43%
Cu 327.393†	34767.1	0.253	mg/L	0.0036	0.253	mg/L	0.0036	1.42%
Fe 239.562†	1350.1	2.02	mg/L	0.014	2.02	mg/L	0.014	0.68%
Mg 279.077†	4789.1	5.12	mg/L	0.017	5.12	mg/L	0.017	0.34%
Mn 257.610†	114794.7	0.258	mg/L	0.0033	0.258	mg/L	0.0033	1.29%
Mo 202.031†	8126.2	0.513	mg/L	0.0055	0.513	mg/L	0.0055	1.07%
Ni 231.604†	9802.0	0.257	mg/L	0.0047	0.257	mg/L	0.0047	1.84%
Pb 220.353†	1754.3	0.256	mg/L	0.0006	0.256	mg/L	0.0006	0.23%
Sb 206.836†	1121.0	0.620	mg/L	0.0018	0.620	mg/L	0.0018	0.29%
Se 196.026†	324.5	0.199	mg/L	0.0040	0.199	mg/L	0.0040	2.00%
Si 251.611†	88364.7	2.59	mg/L	0.036	2.59	mg/L	0.036	1.38%
Sn 189.927†	3498.6	0.539	mg/L	0.0008	0.539	mg/L	0.0008	0.14%
Ti 334.940†	394429.4	0.512	mg/L	0.0076	0.512	mg/L	0.0076	1.48%
Tl 190.801†	488.0	0.262	mg/L	0.0007	0.262	mg/L	0.0007	0.28%
V 290.880†	77316.8	0.503	mg/L	0.0068	0.503	mg/L	0.0068	1.35%
Zn 206.200†	17809.9	0.503	mg/L	0.0044	0.503	mg/L	0.0044	0.88%
K 766.490†	69950.7	25.1	mg/L	0.14	25.1	mg/L	0.14	0.58%
Na 589.592†	346697.0	26.8	mg/L	0.14	26.8	mg/L	0.14	0.51%
Sr 407.771†	882784.5	0.520	mg/L	0.0098	0.520	mg/L	0.0098	1.89%
Li 670.784†	43223.1	0.517	mg/L	0.0059	0.517	mg/L	0.0059	1.14%

Sequence No.: 60
Sample ID: FBLK WG353207-01
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 114
Date Collected: 1/7/2011 10:13:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: FBLK WG353207-01

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: FBLK WG353207-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5716006.9						28945.60	0.51%
YRADIAL	369232.4						3191.97	0.86%
Ga 417.206	1586833.3						14239.31	0.90%
GaRADIAL	84608.6						1299.86	1.54%
Ag 328.068†	-99.6	-0.00089	mg/L	0.000339	-0.00089	mg/L	0.000339	38.12%
Al 396.153†	-93.6	-0.0389	mg/L	0.00670	-0.0389	mg/L	0.00670	17.20%
As 188.979†	-0.0	0.00043	mg/L	0.000276	0.00043	mg/L	0.000276	64.00%
Ba 233.527†	3.1	-0.00391	mg/L	0.000043	-0.00391	mg/L	0.000043	1.10%
Be 234.861†	-6.1	-0.00012	mg/L	0.000014	-0.00012	mg/L	0.000014	11.79%
B 249.677†	71.6	-0.00030	mg/L	0.000236	-0.00030	mg/L	0.000236	78.29%
Ca 227.546†	10.8	0.0767	mg/L	0.03192	0.0767	mg/L	0.03192	41.60%
Cd 228.802†	-4.9	-0.00012	mg/L	0.000137	-0.00012	mg/L	0.000137	112.79%
Co 228.616†	-3.2	-0.00094	mg/L	0.000125	-0.00094	mg/L	0.000125	13.25%
Cr 267.716†	-4.2	-0.00197	mg/L	0.000061	-0.00197	mg/L	0.000061	3.11%
Cu 327.393†	-205.7	-0.00035	mg/L	0.000068	-0.00035	mg/L	0.000068	19.32%
Fe 239.562†	-1.8	-0.0216	mg/L	0.00288	-0.0216	mg/L	0.00288	13.33%
Mg 279.077†	-10.0	-0.0608	mg/L	0.00436	-0.0608	mg/L	0.00436	7.17%
Mn 257.610†	-208.0	-0.00194	mg/L	0.000010	-0.00194	mg/L	0.000010	0.54%
Mo 202.031†	0.7	-0.00299	mg/L	0.000211	-0.00299	mg/L	0.000211	7.06%

Approved: January 10, 2011

Ni 231.604†	-15.3	-0.00239	mg/L	0.000041	-0.00239	mg/L	0.000041	1.70%
Pb 220.353†	-17.5	-0.00461	mg/L	0.000838	-0.00461	mg/L	0.000838	18.18%
Sb 206.836†	-1.4	-0.00333	mg/L	0.001280	-0.00333	mg/L	0.001280	38.45%
Se 196.026†	-1.4	-0.00438	mg/L	0.003071	-0.00438	mg/L	0.003071	70.18%
Si 251.611†	-38.6	-0.00546	mg/L	0.000347	-0.00546	mg/L	0.000347	6.36%
Sn 189.927†	-9.2	-0.00346	mg/L	0.000255	-0.00346	mg/L	0.000255	7.38%
Ti 334.940†	-145.5	-0.00053	mg/L	0.000199	-0.00053	mg/L	0.000199	37.34%
Tl 190.801†	2.6	-0.00288	mg/L	0.001588	-0.00288	mg/L	0.001588	55.11%
V 290.880†	-73.8	-0.00091	mg/L	0.000756	-0.00091	mg/L	0.000756	83.25%
Zn 206.200†	-118.8	-0.00556	mg/L	0.000084	-0.00556	mg/L	0.000084	1.52%
K 766.490†	-69.5	-0.00684	mg/L	0.011793	-0.00684	mg/L	0.011793	172.30%
Na 589.592†	1442.9	0.116	mg/L	0.0076	0.116	mg/L	0.0076	6.60%
Sr 407.771†	14358.1	0.00508	mg/L	0.000094	0.00508	mg/L	0.000094	1.85%
Li 670.784†	-169.9	-0.00398	mg/L	0.001398	-0.00398	mg/L	0.001398	35.14%

Sequence No.: 61 **Autosampler Location: 115**
Sample ID: L1101005002 **Date Collected: 1/7/2011 10:20:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101005002

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1101005002

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5376760.3						30179.20	0.56%
YRADIAL	353453.8						7192.07	2.03%
Ga 417.206	1601963.8						19072.66	1.19%
GaRADIAL	83564.1						696.48	0.83%
Ag 328.068†	1405.7	0.00724	mg/L	0.000126	0.00724	mg/L	0.000126	1.74%
Al 396.153†	951.8	0.149	mg/L	0.0085	0.149	mg/L	0.0085	5.72%
As 188.979†	31.4	0.0236	mg/L	0.00061	0.0236	mg/L	0.00061	2.61%
Ba 233.527†	1270.8	0.0152	mg/L	0.00014	0.0152	mg/L	0.00014	0.92%
Be 234.861†	81.5	-0.00004	mg/L	0.000020	-0.00004	mg/L	0.000020	53.96%
B 249.677†	7737.0	0.155	mg/L	0.0023	0.155	mg/L	0.0023	1.51%
Ca 227.546†	16758.2	144	mg/L	0.7	144	mg/L	0.7	0.49%
Cd 228.802†	-6.2	-0.00036	mg/L	0.000009	-0.00036	mg/L	0.000009	2.58%
Co 228.616†	-1.2	-0.00086	mg/L	0.000229	-0.00086	mg/L	0.000229	26.70%
Cr 267.716†	239.8	0.00015	mg/L	0.000074	0.00015	mg/L	0.000074	50.11%
Cu 327.393†	1378.9	0.0111	mg/L	0.00017	0.0111	mg/L	0.00017	1.57%
Fe 239.562†	138.9	0.191	mg/L	0.0062	0.191	mg/L	0.0062	3.27%
Mg 279.077†	4333.1	4.62	mg/L	0.039	4.62	mg/L	0.039	0.84%
Mn 257.610†	2528.9	0.00528	mg/L	0.000049	0.00528	mg/L	0.000049	0.93%
Mo 202.031†	8.8	-0.00247	mg/L	0.000398	-0.00247	mg/L	0.000398	16.13%
Ni 231.604†	-35.5	-0.00295	mg/L	0.000245	-0.00295	mg/L	0.000245	8.30%
Pb 220.353†	-53.9	-0.00299	mg/L	0.000949	-0.00299	mg/L	0.000949	31.72%
Sb 206.836†	61.3	0.0305	mg/L	0.00177	0.0305	mg/L	0.00177	5.79%
Se 196.026†	-44.6	0.00470	mg/L	0.002248	0.00470	mg/L	0.002248	47.87%
Si 251.611†	85394.4	2.51	mg/L	0.026	2.51	mg/L	0.026	1.03%
Sn 189.927†	-132.4	-0.0225	mg/L	0.00080	-0.0225	mg/L	0.00080	3.57%
Ti 334.940†	329.6	0.00152	mg/L	0.000412	0.00152	mg/L	0.000412	27.08%
Tl 190.801†	76.7	0.0238	mg/L	0.00147	0.0238	mg/L	0.00147	6.17%
V 290.880†	-332.3	-0.00233	mg/L	0.000799	-0.00233	mg/L	0.000799	34.33%
Zn 206.200†	-13.4	-0.00257	mg/L	0.000089	-0.00257	mg/L	0.000089	3.47%
K 766.490†	4336.1	1.51	mg/L	0.046	1.51	mg/L	0.046	3.08%
Na 589.592†	681363.6	53.3	mg/L	0.55	53.3	mg/L	0.55	1.04%
Sr 407.771†	323652.4	0.188	mg/L	0.0020	0.188	mg/L	0.0020	1.05%
Li 670.784†	-137.7	-0.00359	mg/L	0.001006	-0.00359	mg/L	0.001006	28.01%

Sequence No.: 62 **Autosampler Location: 116**
Sample ID: L1101005002PS WG353432-01 **Date Collected: 1/7/2011 10:27:01 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1101005002PS WG353432-01

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1101005002PS WG353432-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5390769.0						25338.18	0.47%
YRADIAL	347508.0						8679.39	2.50%
Ga 417.206	1602457.8						7689.56	0.48%
GaRADIAL	81788.6						73.94	0.09%
Ag 328.068†	37358.0	0.203	mg/L	0.0001	0.203	mg/L	0.0001	0.07%
Al 396.153†	29105.3	5.20	mg/L	0.035	5.20	mg/L	0.035	0.68%
As 188.979†	260.9	0.212	mg/L	0.0044	0.212	mg/L	0.0044	2.08%
Ba 233.527†	33982.0	0.511	mg/L	0.0048	0.511	mg/L	0.0048	0.93%
Be 234.861†	16150.9	0.0246	mg/L	0.00012	0.0246	mg/L	0.00012	0.49%
B 249.677†	55874.6	1.13	mg/L	0.006	1.13	mg/L	0.006	0.56%
Ca 227.546†	15551.2	134	mg/L	0.7	134	mg/L	0.7	0.50%
Cd 228.802†	457.4	0.0227	mg/L	0.00012	0.0227	mg/L	0.00012	0.54%
Co 228.616†	2080.6	0.0990	mg/L	0.00027	0.0990	mg/L	0.00027	0.27%
Cr 267.716†	29017.6	0.250	mg/L	0.0022	0.250	mg/L	0.0022	0.89%
Cu 327.393†	34733.5	0.253	mg/L	0.0008	0.253	mg/L	0.0008	0.32%
Fe 239.562†	1486.6	2.23	mg/L	0.020	2.23	mg/L	0.020	0.91%
Mg 279.077†	8676.9	9.31	mg/L	0.084	9.31	mg/L	0.084	0.90%
Mn 257.610†	115341.1	0.260	mg/L	0.0027	0.260	mg/L	0.0027	1.03%
Mo 202.031†	8163.7	0.515	mg/L	0.0021	0.515	mg/L	0.0021	0.40%
Ni 231.604†	9673.1	0.253	mg/L	0.0013	0.253	mg/L	0.0013	0.53%
Pb 220.353†	1669.3	0.250	mg/L	0.0023	0.250	mg/L	0.0023	0.91%
Sb 206.836†	1157.5	0.634	mg/L	0.0014	0.634	mg/L	0.0014	0.23%
Se 196.026†	271.8	0.199	mg/L	0.0033	0.199	mg/L	0.0033	1.66%
Si 251.611†	159467.2	4.69	mg/L	0.027	4.69	mg/L	0.027	0.57%
Sn 189.927†	-127.7	-0.0218	mg/L	0.00152	-0.0218	mg/L	0.00152	6.99%
Ti 334.940†	389938.4	0.508	mg/L	0.0058	0.508	mg/L	0.0058	1.14%
Tl 190.801†	536.9	0.277	mg/L	0.0063	0.277	mg/L	0.0063	2.26%
V 290.880†	76750.7	0.500	mg/L	0.0056	0.500	mg/L	0.0056	1.12%
Zn 206.200†	17331.0	0.489	mg/L	0.0066	0.489	mg/L	0.0066	1.35%
K 766.490†	73215.6	26.2	mg/L	0.25	26.2	mg/L	0.25	0.95%
Na 589.592†	941468.4	74.2	mg/L	1.16	74.2	mg/L	1.16	1.57%
Sr 407.771†	1150128.0	0.678	mg/L	0.0052	0.678	mg/L	0.0052	0.77%
Li 670.784†	42124.8	0.504	mg/L	0.0085	0.504	mg/L	0.0085	1.69%

Sequence No.: 63
Sample ID: L1101005002DL WG353432-02
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 117
Date Collected: 1/7/2011 10:33:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101005002DL WG353432-02

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1101005002DL WG353432-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5527977.4						54284.42	0.98%
YRADIAL	353529.8						5064.44	1.43%
Ga 417.206	1594334.4						32659.53	2.05%
GaRADIAL	82484.3						1352.13	1.64%
Ag 328.068†	229.6	0.00089	mg/L	0.000327	0.00089	mg/L	0.000327	36.67%
Al 396.153†	105.3	-0.00318	mg/L	0.010852	-0.00318	mg/L	0.010852	341.67%
As 188.979†	14.7	0.0121	mg/L	0.00290	0.0121	mg/L	0.00290	23.97%
Ba 233.527†	244.3	-0.00026	mg/L	0.000159	-0.00026	mg/L	0.000159	60.14%
Be 234.861†	37.5	-0.00006	mg/L	0.000017	-0.00006	mg/L	0.000017	25.84%
B 249.677†	1680.8	0.0323	mg/L	0.00129	0.0323	mg/L	0.00129	3.99%
Ca 227.546†	3264.1	28.0	mg/L	0.57	28.0	mg/L	0.57	2.02%
Cd 228.802†	-5.8	-0.00025	mg/L	0.000173	-0.00025	mg/L	0.000173	69.97%
Co 228.616†	-2.5	-0.00091	mg/L	0.000075	-0.00091	mg/L	0.000075	8.26%
Cr 267.716†	34.9	-0.00163	mg/L	0.000040	-0.00163	mg/L	0.000040	2.46%
Cu 327.393†	41.8	0.00144	mg/L	0.000417	0.00144	mg/L	0.000417	29.01%

Approved: January 10, 2011

Fe 239.562†	27.5	0.0226 mg/L	0.00392	0.0226 mg/L	0.00392	17.34%
Mg 279.077†	876.2	0.895 mg/L	0.0152	0.895 mg/L	0.0152	1.70%
Mn 257.610†	422.1	-0.00031 mg/L	0.000027	-0.00031 mg/L	0.000027	8.80%
Mo 202.031†	-1.7	-0.00315 mg/L	0.000271	-0.00315 mg/L	0.000271	8.62%
Ni 231.604†	-32.3	-0.00285 mg/L	0.000063	-0.00285 mg/L	0.000063	2.21%
Pb 220.353†	-32.6	-0.00546 mg/L	0.000821	-0.00546 mg/L	0.000821	15.03%
Sb 206.836†	28.2	0.0126 mg/L	0.00154	0.0126 mg/L	0.00154	12.22%
Se 196.026†	-18.8	-0.00820 mg/L	0.002387	-0.00820 mg/L	0.002387	29.10%
Si 251.611†	17334.3	0.506 mg/L	0.0109	0.506 mg/L	0.0109	2.16%
Sn 189.927†	-78.7	-0.0142 mg/L	0.00062	-0.0142 mg/L	0.00062	4.38%
Ti 334.940†	102.0	0.00007 mg/L	0.000289	0.00007 mg/L	0.000289	426.76%
Tl 190.801†	36.6	0.0128 mg/L	0.00355	0.0128 mg/L	0.00355	27.79%
V 290.880†	-135.0	-0.00125 mg/L	0.000184	-0.00125 mg/L	0.000184	14.68%
Zn 206.200†	-128.2	-0.00582 mg/L	0.000257	-0.00582 mg/L	0.000257	4.42%
K 766.490†	703.3	0.258 mg/L	0.0298	0.258 mg/L	0.0298	11.56%
Na 589.592†	136804.2	10.5 mg/L	0.17	10.5 mg/L	0.17	1.60%
Sr 407.771†	63399.1	0.0342 mg/L	0.00025	0.0342 mg/L	0.00025	0.74%
Li 670.784†	-176.6	-0.00406 mg/L	0.001596	-0.00406 mg/L	0.001596	39.34%

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Sequence No.: 64 **Autosampler Location: 118**
Sample ID: L1101005004 **Date Collected: 1/7/2011 10:40:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101005004

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1101005004

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5559432.8						5675.81	0.10%
YRADIAL	356431.5						4578.75	1.28%
Ga 417.206	1634512.9						10337.61	0.63%
GaRADIAL	84308.4						576.48	0.68%
Ag 328.068†	258.3	0.00107	mg/L	0.000238	0.00107	mg/L	0.000238	22.33%
Al 396.153†	3484.2	0.604	mg/L	0.0009	0.604	mg/L	0.0009	0.16%
As 188.979†	45.7	0.0376	mg/L	0.00327	0.0376	mg/L	0.00327	8.69%
Ba 233.527†	1164.1	0.0136	mg/L	0.00014	0.0136	mg/L	0.00014	1.02%
Be 234.861†	161.3	0.00001	mg/L	0.000113	0.00001	mg/L	0.000113	970.73%
B 249.677†	3736.9	0.0754	mg/L	0.00205	0.0754	mg/L	0.00205	2.71%
Ca 227.546†	4273.1	36.7	mg/L	0.38	36.7	mg/L	0.38	1.05%
Cd 228.802†	-7.6	-0.00050	mg/L	0.000178	-0.00050	mg/L	0.000178	35.27%
Co 228.616†	-0.2	-0.00085	mg/L	0.000082	-0.00085	mg/L	0.000082	9.65%
Cr 267.716†	1074.8	0.00740	mg/L	0.000113	0.00740	mg/L	0.000113	1.53%
Cu 327.393†	3769.2	0.0284	mg/L	0.00114	0.0284	mg/L	0.00114	4.01%
Fe 239.562†	346.5	0.504	mg/L	0.0023	0.504	mg/L	0.0023	0.46%
Mg 279.077†	3069.0	3.26	mg/L	0.006	3.26	mg/L	0.006	0.18%
Mn 257.610†	7165.5	0.0157	mg/L	0.00022	0.0157	mg/L	0.00022	1.39%
Mo 202.031†	26.2	-0.00135	mg/L	0.000164	-0.00135	mg/L	0.000164	12.12%
Ni 231.604†	-5.5	-0.00215	mg/L	0.000159	-0.00215	mg/L	0.000159	7.41%
Pb 220.353†	-1.7	-0.00053	mg/L	0.001075	-0.00053	mg/L	0.001075	203.95%
Sb 206.836†	35.2	0.0163	mg/L	0.00154	0.0163	mg/L	0.00154	9.44%
Se 196.026†	-24.8	-0.00978	mg/L	0.003242	-0.00978	mg/L	0.003242	33.13%
Si 251.611†	133499.6	3.93	mg/L	0.079	3.93	mg/L	0.079	2.01%
Sn 189.927†	-90.3	-0.0160	mg/L	0.00054	-0.0160	mg/L	0.00054	3.40%
Ti 334.940†	11910.4	0.0155	mg/L	0.00030	0.0155	mg/L	0.00030	1.92%
Tl 190.801†	46.9	0.0177	mg/L	0.00216	0.0177	mg/L	0.00216	12.20%
V 290.880†	98.0	0.00038	mg/L	0.000543	0.00038	mg/L	0.000543	144.00%
Zn 206.200†	599.6	0.0148	mg/L	0.00017	0.0148	mg/L	0.00017	1.13%
K 766.490†	9259.1	3.30	mg/L	0.008	3.30	mg/L	0.008	0.25%
Na 589.592†	262965.9	20.3	mg/L	0.22	20.3	mg/L	0.22	1.10%
Sr 407.771†	141533.1	0.0804	mg/L	0.00057	0.0804	mg/L	0.00057	0.71%
Li 670.784†	69.7	-0.00110	mg/L	0.001087	-0.00110	mg/L	0.001087	98.68%

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Sequence No.: 65 **Autosampler Location: 119**
Sample ID: L1101010801 **Date Collected: 1/7/2011 10:47:02 PM**
Analyst: PDM **Data Type: Original**

Approved: January 10, 2011

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101010801

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1101010801

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5668417.5						67944.30	1.20%
YRADIAL	364879.6						1082.51	0.30%
Ga 417.206	1568008.1						29335.08	1.87%
GaRADIAL	83402.4						2003.43	2.40%
Ag 328.068†	-25.2	-0.00048	mg/L	0.000352	-0.00048	mg/L	0.000352	72.67%
Al 396.153†	-94.8	-0.0391	mg/L	0.00655	-0.0391	mg/L	0.00655	16.74%
As 188.979†	-2.4	-0.00152	mg/L	0.001923	-0.00152	mg/L	0.001923	126.64%
Ba 233.527†	-12.5	-0.00415	mg/L	0.000088	-0.00415	mg/L	0.000088	2.13%
Be 234.861†	-13.7	-0.00013	mg/L	0.000029	-0.00013	mg/L	0.000029	21.78%
B 249.677†	146.2	0.00120	mg/L	0.000140	0.00120	mg/L	0.000140	11.58%
Ca 227.546†	1.3	-0.00450	mg/L	0.095657	-0.00450	mg/L	0.095657	>999.9%
Cd 228.802†	-3.3	-0.00002	mg/L	0.000190	-0.00002	mg/L	0.000190	861.05%
Co 228.616†	2.7	-0.00066	mg/L	0.000285	-0.00066	mg/L	0.000285	43.25%
Cr 267.716†	40.1	-0.00159	mg/L	0.000107	-0.00159	mg/L	0.000107	6.75%
Cu 327.393†	-286.9	-0.00094	mg/L	0.000927	-0.00094	mg/L	0.000927	98.77%
Fe 239.562†	-0.9	-0.0202	mg/L	0.00174	-0.0202	mg/L	0.00174	8.58%
Mg 279.077†	-8.1	-0.0587	mg/L	0.00232	-0.0587	mg/L	0.00232	3.95%
Mn 257.610†	-205.9	-0.00194	mg/L	0.000010	-0.00194	mg/L	0.000010	0.52%
Mo 202.031†	-4.3	-0.00331	mg/L	0.000194	-0.00331	mg/L	0.000194	5.86%
Ni 231.604†	-13.1	-0.00233	mg/L	0.000205	-0.00233	mg/L	0.000205	8.79%
Pb 220.353†	-11.5	-0.00375	mg/L	0.000511	-0.00375	mg/L	0.000511	13.63%
Sb 206.836†	-3.4	-0.00443	mg/L	0.002776	-0.00443	mg/L	0.002776	62.60%
Se 196.026†	0.7	-0.00311	mg/L	0.001096	-0.00311	mg/L	0.001096	35.26%
Si 251.611†	62.5	-0.00248	mg/L	0.000533	-0.00248	mg/L	0.000533	21.52%
Sn 189.927†	-11.5	-0.00381	mg/L	0.000351	-0.00381	mg/L	0.000351	9.21%
Ti 334.940†	25.5	-0.00031	mg/L	0.000047	-0.00031	mg/L	0.000047	15.17%
Tl 190.801†	-2.1	-0.00536	mg/L	0.004132	-0.00536	mg/L	0.004132	77.13%
V 290.880†	-133.9	-0.00130	mg/L	0.001228	-0.00130	mg/L	0.001228	94.49%
Zn 206.200†	-198.4	-0.00781	mg/L	0.000142	-0.00781	mg/L	0.000142	1.81%
K 766.490†	-209.2	-0.0565	mg/L	0.05434	-0.0565	mg/L	0.05434	96.22%
Na 589.592†	-156.8	-0.00675	mg/L	0.009646	-0.00675	mg/L	0.009646	142.95%
Sr 407.771†	3329.5	-0.00145	mg/L	0.000101	-0.00145	mg/L	0.000101	6.92%
Li 670.784†	-277.8	-0.00527	mg/L	0.000159	-0.00527	mg/L	0.000159	3.01%

Sequence No.: 66 **Autosampler Location: 120**
Sample ID: L1101011201 WG353353-01 **Date Collected: 1/7/2011 10:53:42 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201 WG353353-01

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: L1101011201 WG353353-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5473811.2						29146.86	0.53%
YRADIAL	346173.8						3909.75	1.13%
Ga 417.206	1596025.4						6228.61	0.39%
GaRADIAL	81556.5						1716.84	2.11%
Ag 328.068†	177.5	0.00040	mg/L	0.000316	0.00040	mg/L	0.000316	79.65%
Al 396.153†	453.4	0.0595	mg/L	0.01597	0.0595	mg/L	0.01597	26.85%
As 188.979†	12.2	0.0102	mg/L	0.00125	0.0102	mg/L	0.00125	12.31%
Ba 233.527†	5912.4	0.0854	mg/L	0.00024	0.0854	mg/L	0.00024	0.28%
Be 234.861†	112.3	0.00010	mg/L	0.000080	0.00010	mg/L	0.000080	81.23%
B 249.677†	729.4	0.0167	mg/L	0.00135	0.0167	mg/L	0.00135	8.06%
Ca 227.546†	2942.0	25.2	mg/L	0.17	25.2	mg/L	0.17	0.67%

Approved: January 10, 2011

Cd 228.802†	-2.2	-0.00004	mg/L	0.000063	-0.00004	mg/L	0.000063	168.96%
Co 228.616†	24.2	0.00034	mg/L	0.000108	0.00034	mg/L	0.000108	32.16%
Cr 267.716†	123.6	-0.00161	mg/L	0.000067	-0.00161	mg/L	0.000067	4.16%
Cu 327.393†	-221.8	-0.00041	mg/L	0.000389	-0.00041	mg/L	0.000389	94.90%
Fe 239.562†	547.0	0.806	mg/L	0.0171	0.806	mg/L	0.0171	2.12%
Mg 279.077†	10020.2	10.8	mg/L	0.41	10.8	mg/L	0.41	3.82%
Mn 257.610†	820510.1	1.84	mg/L	0.006	1.84	mg/L	0.006	0.30%
Mo 202.031†	-9.9	-0.00324	mg/L	0.000329	-0.00324	mg/L	0.000329	10.15%
Ni 231.604†	86.2	0.00028	mg/L	0.000337	0.00028	mg/L	0.000337	121.01%
Pb 220.353†	-27.2	-0.00502	mg/L	0.001146	-0.00502	mg/L	0.001146	22.84%
Sb 206.836†	24.6	0.0106	mg/L	0.00117	0.0106	mg/L	0.00117	11.03%
Se 196.026†	-11.5	-0.00507	mg/L	0.001056	-0.00507	mg/L	0.001056	20.81%
Si 251.611†	343977.1	10.1	mg/L	0.02	10.1	mg/L	0.02	0.22%
Sn 189.927†	-84.6	-0.0151	mg/L	0.00066	-0.0151	mg/L	0.00066	4.35%
Ti 334.940†	-269.8	-0.00044	mg/L	0.000048	-0.00044	mg/L	0.000048	10.73%
Tl 190.801†	34.7	0.0148	mg/L	0.00032	0.0148	mg/L	0.00032	2.15%
V 290.880†	-601.8	-0.00374	mg/L	0.001136	-0.00374	mg/L	0.001136	30.35%
Zn 206.200†	-8.8	-0.00246	mg/L	0.000122	-0.00246	mg/L	0.000122	4.94%
K 766.490†	6450.5	2.29	mg/L	0.117	2.29	mg/L	0.117	5.13%
Na 589.592†	351352.0	27.2	mg/L	0.22	27.2	mg/L	0.22	0.82%
Sr 407.771†	199902.3	0.115	mg/L	0.0005	0.115	mg/L	0.0005	0.47%
Li 670.784†	-268.0	-0.00516	mg/L	0.001947	-0.00516	mg/L	0.001947	37.77%

Sequence No.: 67
Sample ID: L1101011201S WG353353-04
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 121
Date Collected: 1/7/2011 11:00:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101011201S WG353353-04

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1101011201S WG353353-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5423117.7						30741.47	0.57%
YRADIAL	354982.7						5493.72	1.55%
Ga 417.206	1587810.2						7263.91	0.46%
GaRADIAL	82894.3						2404.80	2.90%
Ag 328.068†	37267.1	0.202	mg/L	0.0020	0.202	mg/L	0.0020	0.98%
Al 396.153†	28949.5	5.17	mg/L	0.025	5.17	mg/L	0.025	0.48%
As 188.979†	249.9	0.205	mg/L	0.0050	0.205	mg/L	0.0050	2.45%
Ba 233.527†	39531.8	0.595	mg/L	0.0041	0.595	mg/L	0.0041	0.69%
Be 234.861†	16572.1	0.0254	mg/L	0.00010	0.0254	mg/L	0.00010	0.38%
B 249.677†	50482.4	1.02	mg/L	0.005	1.02	mg/L	0.005	0.51%
Ca 227.546†	3507.4	30.4	mg/L	0.12	30.4	mg/L	0.12	0.40%
Cd 228.802†	474.2	0.0236	mg/L	0.00016	0.0236	mg/L	0.00016	0.68%
Co 228.616†	2120.9	0.101	mg/L	0.0006	0.101	mg/L	0.0006	0.58%
Cr 267.716†	29383.6	0.252	mg/L	0.0012	0.252	mg/L	0.0012	0.49%
Cu 327.393†	33807.3	0.246	mg/L	0.0022	0.246	mg/L	0.0022	0.91%
Fe 239.562†	1894.0	2.84	mg/L	0.081	2.84	mg/L	0.081	2.85%
Mg 279.077†	14415.5	15.5	mg/L	0.39	15.5	mg/L	0.39	2.55%
Mn 257.610†	918982.1	2.06	mg/L	0.004	2.06	mg/L	0.004	0.20%
Mo 202.031†	8225.5	0.520	mg/L	0.0029	0.520	mg/L	0.0029	0.56%
Ni 231.604†	9844.7	0.258	mg/L	0.0009	0.258	mg/L	0.0009	0.36%
Pb 220.353†	1732.4	0.254	mg/L	0.0021	0.254	mg/L	0.0021	0.82%
Sb 206.836†	1142.4	0.631	mg/L	0.0035	0.631	mg/L	0.0035	0.55%
Se 196.026†	307.0	0.194	mg/L	0.0023	0.194	mg/L	0.0023	1.17%
Si 251.611†	425641.2	12.5	mg/L	0.04	12.5	mg/L	0.04	0.31%
Sn 189.927†	3488.4	0.538	mg/L	0.0034	0.538	mg/L	0.0034	0.64%
Ti 334.940†	395394.0	0.514	mg/L	0.0025	0.514	mg/L	0.0025	0.49%
Tl 190.801†	510.2	0.275	mg/L	0.0062	0.275	mg/L	0.0062	2.26%
V 290.880†	77321.4	0.504	mg/L	0.0027	0.504	mg/L	0.0027	0.54%
Zn 206.200†	17685.1	0.499	mg/L	0.0042	0.499	mg/L	0.0042	0.84%
K 766.490†	76094.0	27.3	mg/L	0.23	27.3	mg/L	0.23	0.85%
Na 589.592†	686902.0	53.7	mg/L	0.74	53.7	mg/L	0.74	1.38%
Sr 407.771†	1067720.5	0.629	mg/L	0.0047	0.629	mg/L	0.0047	0.75%
Li 670.784†	42165.9	0.504	mg/L	0.0040	0.504	mg/L	0.0040	0.79%

Approved: January 10, 2011

Sequence No.: 68 | **Autosampler Location: 4**
Sample ID: CCV | **Date Collected: 1/7/2011 11:07:11 PM**
Analyst: PDM | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5318933.5						31048.38	0.58%
YRADIAL	344175.1						11071.50	3.22%
Ga 417.206	1502545.3						12927.83	0.86%
GaRADIAL	79513.9						941.58	1.18%
Ag 328.068†	78353.5	0.426	mg/L	0.0037	0.426	mg/L	0.0037	0.87%
Al 396.153†	59444.0	10.6	mg/L	0.01	10.6	mg/L	0.01	0.08%
As 188.979†	500.2	0.411	mg/L	0.0032	0.411	mg/L	0.0032	0.78%
Ba 233.527†	70347.0	1.06	mg/L	0.009	1.06	mg/L	0.009	0.82%
Be 234.861†	35094.6	0.0537	mg/L	0.00071	0.0537	mg/L	0.00071	1.32%
B 249.677†	26629.5	0.542	mg/L	0.0060	0.542	mg/L	0.0060	1.11%
Ca 227.546†	1222.4	11.1	mg/L	0.11	11.1	mg/L	0.11	1.00%
Cd 228.802†	1016.5	0.0505	mg/L	0.00067	0.0505	mg/L	0.00067	1.33%
Co 228.616†	4357.9	0.208	mg/L	0.0012	0.208	mg/L	0.0012	0.55%
Cr 267.716†	61752.9	0.534	mg/L	0.0025	0.534	mg/L	0.0025	0.46%
Cu 327.393†	73239.1	0.531	mg/L	0.0068	0.531	mg/L	0.0068	1.28%
Fe 239.562†	2795.9	4.20	mg/L	0.072	4.20	mg/L	0.072	1.70%
Mg 279.077†	9746.8	10.5	mg/L	0.23	10.5	mg/L	0.23	2.21%
Mn 257.610†	237217.6	0.535	mg/L	0.0043	0.535	mg/L	0.0043	0.80%
Mo 202.031†	16861.3	1.07	mg/L	0.006	1.07	mg/L	0.006	0.52%
Ni 231.604†	20226.1	0.532	mg/L	0.0056	0.532	mg/L	0.0056	1.06%
Pb 220.353†	3611.0	0.529	mg/L	0.0019	0.529	mg/L	0.0019	0.35%
Sb 206.836†	2331.9	1.29	mg/L	0.011	1.29	mg/L	0.011	0.84%
Se 196.026†	677.2	0.420	mg/L	0.0042	0.420	mg/L	0.0042	0.99%
Si 251.611†	180302.8	5.29	mg/L	0.061	5.29	mg/L	0.061	1.15%
Sn 189.927†	6825.8	1.05	mg/L	0.005	1.05	mg/L	0.005	0.49%
Ti 334.940†	805280.5	1.05	mg/L	0.003	1.05	mg/L	0.003	0.27%
Tl 190.801†	980.1	0.531	mg/L	0.0046	0.531	mg/L	0.0046	0.87%
V 290.880†	161194.1	1.05	mg/L	0.009	1.05	mg/L	0.009	0.87%
Zn 206.200†	37417.6	1.06	mg/L	0.004	1.06	mg/L	0.004	0.39%
K 766.490†	144249.2	52.1	mg/L	0.27	52.1	mg/L	0.27	0.51%
Na 589.592†	667728.1	52.2	mg/L	0.71	52.2	mg/L	0.71	1.36%
Sr 407.771†	1799461.1	1.06	mg/L	0.014	1.06	mg/L	0.014	1.28%
Li 670.784†	88144.5	1.06	mg/L	0.014	1.06	mg/L	0.014	1.33%

Sequence No.: 69 | **Autosampler Location: 5**
Sample ID: CCB | **Date Collected: 1/7/2011 11:14:48 PM**
Analyst: PDM | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5530758.1						83699.77	1.51%
YRADIAL	347904.6						4713.12	1.35%
Ga 417.206	1522788.1						23122.90	1.52%
GaRADIAL	79863.4						1188.47	1.49%
Ag 328.068†	-100.6	-0.00089	mg/L	0.000571	-0.00089	mg/L	0.000571	63.90%
Al 396.153†	-69.0	-0.0345	mg/L	0.00327	-0.0345	mg/L	0.00327	9.48%
As 188.979†	0.9	0.00118	mg/L	0.002544	0.00118	mg/L	0.002544	215.17%

Approved: January 10, 2011

Ba 233.527†	-15.9	-0.00420	mg/L	0.000086	-0.00420	mg/L	0.000086	2.06%
Be 234.861†	-4.9	-0.00012	mg/L	0.000018	-0.00012	mg/L	0.000018	15.47%
B 249.677†	343.9	0.00519	mg/L	0.000242	0.00519	mg/L	0.000242	4.67%
Ca 227.546†	3.0	0.00962	mg/L	0.015605	0.00962	mg/L	0.015605	162.14%
Cd 228.802†	-4.6	-0.00011	mg/L	0.000139	-0.00011	mg/L	0.000139	131.20%
Co 228.616†	1.4	-0.00072	mg/L	0.000197	-0.00072	mg/L	0.000197	27.41%
Cr 267.716†	-14.2	-0.00206	mg/L	0.000192	-0.00206	mg/L	0.000192	9.34%
Cu 327.393†	-366.7	-0.00151	mg/L	0.000601	-0.00151	mg/L	0.000601	39.71%
Fe 239.562†	-1.3	-0.0208	mg/L	0.00286	-0.0208	mg/L	0.00286	13.73%
Mg 279.077†	-5.5	-0.0559	mg/L	0.00608	-0.0559	mg/L	0.00608	10.88%
Mn 257.610†	-161.0	-0.00184	mg/L	0.000023	-0.00184	mg/L	0.000023	1.27%
Mo 202.031†	0.8	-0.00299	mg/L	0.000245	-0.00299	mg/L	0.000245	8.20%
Ni 231.604†	-24.1	-0.00262	mg/L	0.000067	-0.00262	mg/L	0.000067	2.57%
Pb 220.353†	-8.7	-0.00334	mg/L	0.000644	-0.00334	mg/L	0.000644	19.27%
Sb 206.836†	-3.2	-0.00435	mg/L	0.001701	-0.00435	mg/L	0.001701	39.11%
Se 196.026†	0.2	-0.00341	mg/L	0.000609	-0.00341	mg/L	0.000609	17.85%
Si 251.611†	-54.1	-0.00592	mg/L	0.000205	-0.00592	mg/L	0.000205	3.47%
Sn 189.927†	-12.9	-0.00404	mg/L	0.000391	-0.00404	mg/L	0.000391	9.69%
Ti 334.940†	21.3	-0.00032	mg/L	0.000072	-0.00032	mg/L	0.000072	22.65%
Tl 190.801†	0.0	-0.00425	mg/L	0.001790	-0.00425	mg/L	0.001790	42.11%
V 290.880†	-145.6	-0.00138	mg/L	0.001091	-0.00138	mg/L	0.001091	79.27%
Zn 206.200†	-252.4	-0.00934	mg/L	0.000046	-0.00934	mg/L	0.000046	0.49%
K 766.490†	-185.5	-0.0480	mg/L	0.01680	-0.0480	mg/L	0.01680	35.02%
Na 589.592†	-808.0	-0.0566	mg/L	0.00803	-0.0566	mg/L	0.00803	14.18%
Sr 407.771†	-524.9	-0.00374	mg/L	0.000117	-0.00374	mg/L	0.000117	3.14%
Li 670.784†	-290.9	-0.00543	mg/L	0.000650	-0.00543	mg/L	0.000650	11.97%

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Sequence No.: 70 **Autosampler Location: 122**
Sample ID: L1101011201SD WG353353-05 **Date Collected: 1/7/2011 11:21:27 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201SD WG353353-05

Analyte	**Back Pressure**	**Flow**
All	173.0 kPa	0.50 L/min

Mean Data: L1101011201SD WG353353-05

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5445899.1						12594.48	0.23%
YRADIAL	356211.2						6497.30	1.82%
Ga 417.206	1585709.5						18520.07	1.17%
GaRADIAL	83239.0						1260.98	1.51%
Ag 328.068†	37372.6	0.203	mg/L	0.0031	0.203	mg/L	0.0031	1.55%
Al 396.153†	29022.1	5.19	mg/L	0.017	5.19	mg/L	0.017	0.32%
As 188.979†	249.8	0.205	mg/L	0.0023	0.205	mg/L	0.0023	1.12%
Ba 233.527†	39309.8	0.592	mg/L	0.0056	0.592	mg/L	0.0056	0.95%
Be 234.861†	16608.3	0.0254	mg/L	0.00039	0.0254	mg/L	0.00039	1.53%
B 249.677†	50818.3	1.03	mg/L	0.018	1.03	mg/L	0.018	1.70%
Ca 227.546†	3460.0	30.0	mg/L	0.53	30.0	mg/L	0.53	1.77%
Cd 228.802†	475.4	0.0237	mg/L	0.00048	0.0237	mg/L	0.00048	2.02%
Co 228.616†	2132.2	0.101	mg/L	0.0004	0.101	mg/L	0.0004	0.38%
Cr 267.716†	29347.7	0.252	mg/L	0.0014	0.252	mg/L	0.0014	0.54%
Cu 327.393†	33927.4	0.247	mg/L	0.0044	0.247	mg/L	0.0044	1.79%
Fe 239.562†	1876.9	2.81	mg/L	0.029	2.81	mg/L	0.029	1.05%
Mg 279.077†	14159.8	15.2	mg/L	0.19	15.2	mg/L	0.19	1.23%
Mn 257.610†	905751.4	2.03	mg/L	0.019	2.03	mg/L	0.019	0.93%
Mo 202.031†	8239.9	0.521	mg/L	0.0024	0.521	mg/L	0.0024	0.47%
Ni 231.604†	9866.5	0.258	mg/L	0.0009	0.258	mg/L	0.0009	0.34%
Pb 220.353†	1726.4	0.253	mg/L	0.0009	0.253	mg/L	0.0009	0.37%
Sb 206.836†	1145.9	0.633	mg/L	0.0114	0.633	mg/L	0.0114	1.80%
Se 196.026†	311.7	0.197	mg/L	0.0075	0.197	mg/L	0.0075	3.79%
Si 251.611†	421459.4	12.4	mg/L	0.19	12.4	mg/L	0.19	1.49%
Sn 189.927†	3534.1	0.545	mg/L	0.0020	0.545	mg/L	0.0020	0.37%
Ti 334.940†	394182.5	0.512	mg/L	0.0045	0.512	mg/L	0.0045	0.87%
Tl 190.801†	512.3	0.276	mg/L	0.0032	0.276	mg/L	0.0032	1.16%
V 290.880†	77122.3	0.502	mg/L	0.0035	0.502	mg/L	0.0035	0.69%
Zn 206.200†	17632.2	0.497	mg/L	0.0021	0.497	mg/L	0.0021	0.42%
K 766.490†	76205.8	27.3	mg/L	0.23	27.3	mg/L	0.23	0.86%

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Na 589.592†	682246.8	53.3	mg/L	0.58	53.3	mg/L	0.58	1.09%
Sr 407.771†	1068290.6	0.630	mg/L	0.0067	0.630	mg/L	0.0067	1.07%
Li 670.784†	42486.2	0.508	mg/L	0.0037	0.508	mg/L	0.0037	0.74%

Sequence No.: 71 **Autosampler Location: 123**
Sample ID: L1101011601 **Date Collected: 1/7/2011 11:28:09 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011601

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1101011601

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5190833.4						19576.74	0.38%
YRADIAL	344344.4						2556.45	0.74%
Ga 417.206	1538891.6						12593.49	0.82%
GaRADIAL	81742.5						1588.98	1.94%
Ag 328.068†	926.4	0.00466	mg/L	0.000190	0.00466	mg/L	0.000190	4.08%
Al 396.153†	332.9	0.0376	mg/L	0.00222	0.0376	mg/L	0.00222	5.89%
As 188.979†	28.2	0.0218	mg/L	0.00552	0.0218	mg/L	0.00552	25.37%
Ba 233.527†	2075.9	0.0274	mg/L	0.00005	0.0274	mg/L	0.00005	0.19%
Be 234.861†	241.8	0.00005	mg/L	0.000035	0.00005	mg/L	0.000035	76.37%
B 249.677†	60176.7	1.22	mg/L	0.024	1.22	mg/L	0.024	2.01%
Ca 227.546†	12298.1	106	mg/L	0.8	106	mg/L	0.8	0.72%
Cd 228.802†	-5.5	-0.00029	mg/L	0.000149	-0.00029	mg/L	0.000149	51.97%
Co 228.616†	26.3	0.00045	mg/L	0.000214	0.00045	mg/L	0.000214	47.37%
Cr 267.716†	159.6	-0.00054	mg/L	0.000067	-0.00054	mg/L	0.000067	12.50%
Cu 327.393†	-109.9	0.00041	mg/L	0.000544	0.00041	mg/L	0.000544	131.62%
Fe 239.562†	668.5	0.990	mg/L	0.0151	0.990	mg/L	0.0151	1.52%
Mg 279.077†	24067.9	25.9	mg/L	0.18	25.9	mg/L	0.18	0.69%
Mn 257.610†	52804.1	0.120	mg/L	0.0019	0.120	mg/L	0.0019	1.57%
Mo 202.031†	203.9	0.00997	mg/L	0.000450	0.00997	mg/L	0.000450	4.52%
Ni 231.604†	24.4	-0.00137	mg/L	0.000115	-0.00137	mg/L	0.000115	8.42%
Pb 220.353†	-44.3	-0.00342	mg/L	0.001483	-0.00342	mg/L	0.001483	43.35%
Sb 206.836†	58.5	0.0292	mg/L	0.00084	0.0292	mg/L	0.00084	2.88%
Se 196.026†	-34.1	0.00173	mg/L	0.004443	0.00173	mg/L	0.004443	257.56%
Si 251.611†	382344.3	11.3	mg/L	0.05	11.3	mg/L	0.05	0.42%
Sn 189.927†	-128.7	-0.0219	mg/L	0.00129	-0.0219	mg/L	0.00129	5.88%
Ti 334.940†	-130.4	0.00054	mg/L	0.000053	0.00054	mg/L	0.000053	9.81%
Tl 190.801†	75.6	0.0268	mg/L	0.00184	0.0268	mg/L	0.00184	6.88%
V 290.880†	-891.0	-0.00474	mg/L	0.000477	-0.00474	mg/L	0.000477	10.08%
Zn 206.200†	1715.2	0.0463	mg/L	0.00048	0.0463	mg/L	0.00048	1.04%
K 766.490†	60489.5	21.6	mg/L	0.09	21.6	mg/L	0.09	0.40%
Na 589.592†	1131454.2	89.7	mg/L	2.32	89.7	mg/L	2.32	2.59%
Sr 407.771†	453724.6	0.265	mg/L	0.0084	0.265	mg/L	0.0084	3.17%
Li 670.784†	1409.7	0.0150	mg/L	0.00117	0.0150	mg/L	0.00117	7.84%

Sequence No.: 72 **Autosampler Location: 124**
Sample ID: L1101012001 DL0.1 **Date Collected: 1/7/2011 11:34:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101012001 DL0.1

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1101012001 DL0.1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4130815.2						46947.35	1.14%
YRADIAL	302399.1						6732.37	2.23%
Ga 417.206	1241213.4						17025.77	1.37%

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GaRADIAL	73655.3						1020.93	1.39%
Ag 328.068†	18075.2	0.0982	mg/L	0.00112	0.0982	mg/L	0.00112	1.14%
Al 396.153†	462.0	0.0618	mg/L	0.01033	0.0618	mg/L	0.01033	16.72%
As 188.979†	20.6	-0.0618	mg/L	0.00611	-0.0618	mg/L	0.00611	9.90%
Ba 233.527†	425674.3	6.43	mg/L	0.254	6.43	mg/L	0.254	3.96%
Be 234.861†	1535.2	-0.00027	mg/L	0.000107	-0.00027	mg/L	0.000107	39.90%
B 249.677†	692242.1	14.0	mg/L	0.50	14.0	mg/L	0.50	3.59%
Ca 227.546†	470246.1	4040	mg/L	195.4	4040	mg/L	195.4	4.84%
Cd 228.802†	-6.1	-0.00033	mg/L	0.000344	-0.00033	mg/L	0.000344	103.28%
Co 228.616†	-79.5	-0.00694	mg/L	0.000118	-0.00694	mg/L	0.000118	1.70%
Cr 267.716†	837.3	0.00589	mg/L	0.000137	0.00589	mg/L	0.000137	2.32%
Cu 327.393†	-2824.4	-0.0220	mg/L	0.00056	-0.0220	mg/L	0.00056	2.54%
Fe 239.562†	6911.8	10.4	mg/L	0.23	10.4	mg/L	0.23	2.17%
Mg 279.077†	313753.2	338	mg/L	0.7	338	mg/L	0.7	0.22%
Mn 257.610†	140850.6	0.341	mg/L	0.0140	0.341	mg/L	0.0140	4.10%
Mo 202.031†	-19.7	-0.00371	mg/L	0.000500	-0.00371	mg/L	0.000500	13.47%
Ni 231.604†	25.1	-0.00137	mg/L	0.001013	-0.00137	mg/L	0.001013	73.69%
Pb 220.353†	-283.6	0.150	mg/L	0.0059	0.150	mg/L	0.0059	3.91%
Sb 206.836†	65.5	0.0323	mg/L	0.00501	0.0323	mg/L	0.00501	15.51%
Se 196.026†	-57.7	0.972	mg/L	0.0446	0.972	mg/L	0.0446	4.59%
Si 251.611†	20801.7	0.609	mg/L	0.0270	0.609	mg/L	0.0270	4.44%
Sn 189.927†	-323.3	-0.0521	mg/L	0.00111	-0.0521	mg/L	0.00111	2.14%
Ti 334.940†	-54540.4	-0.0308	mg/L	0.00277	-0.0308	mg/L	0.00277	8.98%
Tl 190.801†	149.3	-0.288	mg/L	0.0145	-0.288	mg/L	0.0145	5.03%
V 290.880†	-1814.9	0.00731	mg/L	0.001994	0.00731	mg/L	0.001994	27.30%
Zn 206.200†	1193.4	0.0313	mg/L	0.00168	0.0313	mg/L	0.00168	5.35%
K 766.490†	1217048.7	508	mg/L	3.1	508	mg/L	3.1	0.61%
Na 589.592†	Saturated2							
Sr 407.771†	Saturated3							
Li 670.784†	1871235.3	22.5	mg/L	0.23	22.5	mg/L	0.23	1.01%

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Sequence No.: 73 **Autosampler Location: 125**
Sample ID: L1101012002 **Date Collected: 1/7/2011 11:40:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101012002

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1101012002

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3486914.0						6731.94	0.19%
YRADIAL	278097.7						1704.23	0.61%
Ga 417.206	1154602.8						22713.91	1.97%
GaRADIAL	68591.7						796.22	1.16%
Ag 328.068†	14177.0	0.0778	mg/L	0.00398	0.0778	mg/L	0.00398	5.12%
Al 396.153†	3967.6	0.693	mg/L	0.0056	0.693	mg/L	0.0056	0.81%
As 188.979†	18.4	-0.0540	mg/L	0.00554	-0.0540	mg/L	0.00554	10.26%
Ba 233.527†	2565185.5	38.8	mg/L	0.28	38.8	mg/L	0.28	0.73%
Be 234.861†	3876.6	-0.00052	mg/L	0.000021	-0.00052	mg/L	0.000021	4.03%
B 249.677†	433559.7	8.87	mg/L	0.106	8.87	mg/L	0.106	1.19%
Ca 227.546†	426867.5	3670	mg/L	48.2	3670	mg/L	48.2	1.31%
Cd 228.802†	-2.6	-0.00048	mg/L	0.000457	-0.00048	mg/L	0.000457	96.01%
Co 228.616†	-727.5	-0.0498	mg/L	0.00169	-0.0498	mg/L	0.00169	3.40%
Cr 267.716†	2690.5	0.0220	mg/L	0.00007	0.0220	mg/L	0.00007	0.34%
Cu 327.393†	1424.0	0.00913	mg/L	0.000900	0.00913	mg/L	0.000900	9.85%
Fe 239.562†	18553.8	28.0	mg/L	0.28	28.0	mg/L	0.28	1.00%
Mg 279.077†	240671.3	259	mg/L	1.4	259	mg/L	1.4	0.53%
Mn 257.610†	1377291.9	3.12	mg/L	0.020	3.12	mg/L	0.020	0.63%
Mo 202.031†	808.0	0.0503	mg/L	0.00084	0.0503	mg/L	0.00084	1.67%
Ni 231.604†	937.4	0.0227	mg/L	0.00054	0.0227	mg/L	0.00054	2.40%
Pb 220.353†	90.9	0.186	mg/L	0.0007	0.186	mg/L	0.0007	0.35%
Sb 206.836†	80.2	0.0410	mg/L	0.00261	0.0410	mg/L	0.00261	6.37%
Se 196.026†	-55.0	0.882	mg/L	0.0163	0.882	mg/L	0.0163	1.85%
Si 251.611†	510773.9	15.0	mg/L	0.27	15.0	mg/L	0.27	1.79%
Sn 189.927†	-338.4	-0.0544	mg/L	0.00209	-0.0544	mg/L	0.00209	3.83%
Ti 334.940†	-47727.2	-0.0257	mg/L	0.00177	-0.0257	mg/L	0.00177	6.88%

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Tl 190.801†	148.9	-0.251 mg/L	0.0014	-0.251 mg/L	0.0014	0.58%
V 290.880†	-705.5	0.00767 mg/L	0.001613	0.00767 mg/L	0.001613	21.02%
Zn 206.200†	2566.4	0.0698 mg/L	0.00082	0.0698 mg/L	0.00082	1.18%
K 766.490†	454318.4	170 mg/L	1.6	170 mg/L	1.6	0.92%
Na 589.592†	Saturated2					
Sr 407.771†	Saturated3					
Li 670.784†	2304380.1	27.7 mg/L	0.29	27.7 mg/L	0.29	1.05%

Sequence No.: 74 **Autosampler Location: 126**
Sample ID: SF BLK **Date Collected: 1/7/2011 11:46:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: SF BLK

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: SF BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5654695.6						23896.23	0.42%
YRADIAL	363294.2						3226.69	0.89%
Ga 417.206	1572437.2						14976.93	0.95%
GaRADIAL	83642.9						1852.03	2.21%
Ag 328.068†	-134.9	-0.00108	mg/L	0.000855	-0.00108	mg/L	0.000855	79.29%
Al 396.153†	-81.8	-0.0368	mg/L	0.01347	-0.0368	mg/L	0.01347	36.62%
As 188.979†	0.6	0.00093	mg/L	0.000671	0.00093	mg/L	0.000671	72.01%
Ba 233.527†	93.5	-0.00254	mg/L	0.000213	-0.00254	mg/L	0.000213	8.40%
Be 234.861†	10.8	-0.00010	mg/L	0.000008	-0.00010	mg/L	0.000008	8.22%
B 249.677†	1980.1	0.0382	mg/L	0.00101	0.0382	mg/L	0.00101	2.63%
Ca 227.546†	13.4	0.0991	mg/L	0.09015	0.0991	mg/L	0.09015	90.95%
Cd 228.802†	-3.1	-0.00003	mg/L	0.000095	-0.00003	mg/L	0.000095	313.29%
Co 228.616†	1.8	-0.00070	mg/L	0.000212	-0.00070	mg/L	0.000212	30.18%
Cr 267.716†	7.1	-0.00187	mg/L	0.000106	-0.00187	mg/L	0.000106	5.64%
Cu 327.393†	-390.7	-0.00169	mg/L	0.001060	-0.00169	mg/L	0.001060	62.86%
Fe 239.562†	1.9	-0.0160	mg/L	0.00486	-0.0160	mg/L	0.00486	30.36%
Mg 279.077†	6.0	-0.0434	mg/L	0.00294	-0.0434	mg/L	0.00294	6.76%
Mn 257.610†	40.9	-0.00134	mg/L	0.000014	-0.00134	mg/L	0.000014	1.02%
Mo 202.031†	-6.2	-0.00343	mg/L	0.000162	-0.00343	mg/L	0.000162	4.73%
Ni 231.604†	-9.8	-0.00225	mg/L	0.000084	-0.00225	mg/L	0.000084	3.75%
Pb 220.353†	-5.8	-0.00292	mg/L	0.002026	-0.00292	mg/L	0.002026	69.49%
Sb 206.836†	-2.0	-0.00369	mg/L	0.002400	-0.00369	mg/L	0.002400	65.05%
Se 196.026†	-3.8	-0.00591	mg/L	0.002866	-0.00591	mg/L	0.002866	48.51%
Si 251.611†	319.1	0.00509	mg/L	0.000632	0.00509	mg/L	0.000632	12.42%
Sn 189.927†	-15.4	-0.00443	mg/L	0.000540	-0.00443	mg/L	0.000540	12.19%
Ti 334.940†	-44.5	-0.00040	mg/L	0.000124	-0.00040	mg/L	0.000124	30.95%
Tl 190.801†	0.7	-0.00388	mg/L	0.002563	-0.00388	mg/L	0.002563	65.99%
V 290.880†	5.7	-0.00039	mg/L	0.000349	-0.00039	mg/L	0.000349	89.66%
Zn 206.200†	231.8	0.00435	mg/L	0.000088	0.00435	mg/L	0.000088	2.02%
K 766.490†	856.6	0.321	mg/L	0.0068	0.321	mg/L	0.0068	2.13%
Na 589.592†	26792.5	2.06	mg/L	0.183	2.06	mg/L	0.183	8.91%
Sr 407.771†	11378.4	0.00332	mg/L	0.001344	0.00332	mg/L	0.001344	40.54%
Li 670.784†	159.2	-0.00003	mg/L	0.001304	-0.00003	mg/L	0.001304	>999.9%

Sequence No.: 75 **Autosampler Location: 127**
Sample ID: FBLK **Date Collected: 1/7/2011 11:53:03 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: FBLK

Mean Corrected Calib. Sample

Approved: January 10, 2011

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5566442.3						34187.56	0.61%
YRADIAL	364167.4						4605.88	1.26%
Ga 417.206	1570146.5						7660.59	0.49%
GaRADIAL	84052.0						2170.96	2.58%
Ag 328.068†	37.8	-0.00014	mg/L	0.000673	-0.00014	mg/L	0.000673	476.00%
Al 396.153†	-155.8	-0.0501	mg/L	0.01408	-0.0501	mg/L	0.01408	28.10%
As 188.979†	1.1	0.00136	mg/L	0.003004	0.00136	mg/L	0.003004	221.54%
Ba 233.527†	-9.8	-0.00410	mg/L	0.000012	-0.00410	mg/L	0.000012	0.30%
Be 234.861†	28.7	-0.00007	mg/L	0.000007	-0.00007	mg/L	0.000007	10.31%
B 249.677†	1608.9	0.0307	mg/L	0.00233	0.0307	mg/L	0.00233	7.60%
Ca 227.546†	0.6	-0.0129	mg/L	0.04040	-0.0129	mg/L	0.04040	314.33%
Cd 228.802†	-2.0	0.00002	mg/L	0.000103	0.00002	mg/L	0.000103	613.24%
Co 228.616†	-2.0	-0.00089	mg/L	0.000184	-0.00089	mg/L	0.000184	20.77%
Cr 267.716†	-40.3	-0.00229	mg/L	0.000053	-0.00229	mg/L	0.000053	2.31%
Cu 327.393†	-281.3	-0.00090	mg/L	0.000467	-0.00090	mg/L	0.000467	51.96%
Fe 239.562†	-3.0	-0.0234	mg/L	0.00243	-0.0234	mg/L	0.00243	10.37%
Mg 279.077†	-6.0	-0.0564	mg/L	0.00702	-0.0564	mg/L	0.00702	12.45%
Mn 257.610†	-164.8	-0.00171	mg/L	0.000014	-0.00171	mg/L	0.000014	0.81%
Mo 202.031†	-8.3	-0.00357	mg/L	0.000194	-0.00357	mg/L	0.000194	5.44%
Ni 231.604†	-17.9	-0.00246	mg/L	0.000090	-0.00246	mg/L	0.000090	3.68%
Pb 220.353†	-5.1	-0.00282	mg/L	0.001210	-0.00282	mg/L	0.001210	42.82%
Sb 206.836†	-1.9	-0.00365	mg/L	0.000988	-0.00365	mg/L	0.000988	27.06%
Se 196.026†	-1.2	-0.00430	mg/L	0.001500	-0.00430	mg/L	0.001500	34.84%
Si 251.611†	21255.3	0.622	mg/L	0.0054	0.622	mg/L	0.0054	0.87%
Sn 189.927†	-14.2	-0.00424	mg/L	0.000744	-0.00424	mg/L	0.000744	17.55%
Ti 334.940†	-109.4	-0.00049	mg/L	0.000077	-0.00049	mg/L	0.000077	15.73%
Tl 190.801†	2.1	-0.00313	mg/L	0.002450	-0.00313	mg/L	0.002450	78.35%
V 290.880†	42.0	-0.00015	mg/L	0.000663	-0.00015	mg/L	0.000663	432.45%
Zn 206.200†	-246.7	-0.00918	mg/L	0.000226	-0.00918	mg/L	0.000226	2.46%
K 766.490†	546.8	0.212	mg/L	0.0105	0.212	mg/L	0.0105	4.96%
Na 589.592†	12907.7	0.994	mg/L	0.0131	0.994	mg/L	0.0131	1.32%
Sr 407.771†	4389.3	-0.00083	mg/L	0.001359	-0.00083	mg/L	0.001359	164.53%
Li 670.784†	-98.8	-0.00312	mg/L	0.000797	-0.00312	mg/L	0.000797	25.51%

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Sequence No.: 76 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 1/7/2011 11:59:48 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5280348.2						49314.41	0.93%
YRADIAL	344812.3						13800.93	4.00%
Ga 417.206	1500284.5						17134.80	1.14%
GaRADIAL	80471.2						1401.19	1.74%
Ag 328.068†	79368.4	0.431	mg/L	0.0113	0.431	mg/L	0.0113	2.63%
Al 396.153†	59916.8	10.7	mg/L	0.04	10.7	mg/L	0.04	0.41%
As 188.979†	510.0	0.419	mg/L	0.0086	0.419	mg/L	0.0086	2.06%
Ba 233.527†	71946.2	1.09	mg/L	0.023	1.09	mg/L	0.023	2.16%
Be 234.861†	35669.9	0.0546	mg/L	0.00136	0.0546	mg/L	0.00136	2.49%
B 249.677†	29137.4	0.593	mg/L	0.0147	0.593	mg/L	0.0147	2.47%
Ca 227.546†	1253.7	11.4	mg/L	0.25	11.4	mg/L	0.25	2.16%
Cd 228.802†	1034.7	0.0514	mg/L	0.00105	0.0514	mg/L	0.00105	2.05%
Co 228.616†	4458.9	0.213	mg/L	0.0026	0.213	mg/L	0.0026	1.23%
Cr 267.716†	62715.5	0.543	mg/L	0.0115	0.543	mg/L	0.0115	2.11%
Cu 327.393†	74431.7	0.540	mg/L	0.0162	0.540	mg/L	0.0162	3.00%
Fe 239.562†	2862.0	4.30	mg/L	0.142	4.30	mg/L	0.142	3.30%
Mg 279.077†	9985.2	10.7	mg/L	0.39	10.7	mg/L	0.39	3.65%
Mn 257.610†	242597.3	0.547	mg/L	0.0125	0.547	mg/L	0.0125	2.28%
Mo 202.031†	17189.9	1.09	mg/L	0.020	1.09	mg/L	0.020	1.84%
Ni 231.604†	20671.9	0.544	mg/L	0.0089	0.544	mg/L	0.0089	1.64%
Pb 220.353†	3699.0	0.541	mg/L	0.0056	0.541	mg/L	0.0056	1.03%
Sb 206.836†	2377.6	1.32	mg/L	0.023	1.32	mg/L	0.023	1.78%

Approved: January 10, 2011

Se 196.026†	693.8	0.431 mg/L	0.0085	0.431 mg/L	0.0085	1.98%
Si 251.611†	183860.6	5.40 mg/L	0.136	5.40 mg/L	0.136	2.52%
Sn 189.927†	6989.3	1.08 mg/L	0.013	1.08 mg/L	0.013	1.25%
Ti 334.940†	822356.6	1.07 mg/L	0.008	1.07 mg/L	0.008	0.73%
Tl 190.801†	1008.9	0.547 mg/L	0.0049	0.547 mg/L	0.0049	0.90%
V 290.880†	164731.6	1.07 mg/L	0.024	1.07 mg/L	0.024	2.26%
Zn 206.200†	38304.8	1.08 mg/L	0.018	1.08 mg/L	0.018	1.70%
K 766.490†	146022.2	52.8 mg/L	0.09	52.8 mg/L	0.09	0.17%
Na 589.592†	682708.9	53.4 mg/L	1.01	53.4 mg/L	1.01	1.89%
Sr 407.771†	1858702.4	1.10 mg/L	0.049	1.10 mg/L	0.049	4.50%
Li 670.784†	89823.6	1.08 mg/L	0.013	1.08 mg/L	0.013	1.17%

Sequence No.: 77
Sample ID: CCB
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/8/2011 12:06:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5588301.5						26704.95	0.48%
YRADIAL	352235.9						7760.38	2.20%
Ga 417.206	1531225.2						9460.63	0.62%
GaRADIAL	80748.2						1051.86	1.30%
Ag 328.068†	24.0	-0.00022	mg/L	0.000489	-0.00022	mg/L	0.000489	223.18%
Al 396.153†	-84.6	-0.0373	mg/L	0.00630	-0.0373	mg/L	0.00630	16.89%
As 188.979†	1.6	0.00177	mg/L	0.003637	0.00177	mg/L	0.003637	205.14%
Ba 233.527†	2.7	-0.00392	mg/L	0.000159	-0.00392	mg/L	0.000159	4.06%
Be 234.861†	2.2	-0.00011	mg/L	0.000015	-0.00011	mg/L	0.000015	13.50%
B 249.677†	2218.0	0.0430	mg/L	0.00030	0.0430	mg/L	0.00030	0.71%
Ca 227.546†	0.8	-0.00916	mg/L	0.027266	-0.00916	mg/L	0.027266	297.60%
Cd 228.802†	-2.3	0.00000	mg/L	0.000120	0.00000	mg/L	0.000120	>999.9%
Co 228.616†	1.4	-0.00072	mg/L	0.000068	-0.00072	mg/L	0.000068	9.49%
Cr 267.716†	-17.8	-0.00209	mg/L	0.000029	-0.00209	mg/L	0.000029	1.38%
Cu 327.393†	-246.3	-0.00065	mg/L	0.000515	-0.00065	mg/L	0.000515	79.57%
Fe 239.562†	-2.0	-0.0219	mg/L	0.00091	-0.0219	mg/L	0.00091	4.16%
Mg 279.077†	-6.7	-0.0572	mg/L	0.00278	-0.0572	mg/L	0.00278	4.86%
Mn 257.610†	-150.2	-0.00180	mg/L	0.000007	-0.00180	mg/L	0.000007	0.40%
Mo 202.031†	-0.3	-0.00306	mg/L	0.000276	-0.00306	mg/L	0.000276	9.02%
Ni 231.604†	-17.9	-0.00246	mg/L	0.000284	-0.00246	mg/L	0.000284	11.56%
Pb 220.353†	-3.7	-0.00262	mg/L	0.000784	-0.00262	mg/L	0.000784	29.93%
Sb 206.836†	-3.4	-0.00441	mg/L	0.001430	-0.00441	mg/L	0.001430	32.43%
Se 196.026†	0.2	-0.00340	mg/L	0.001856	-0.00340	mg/L	0.001856	54.62%
Si 251.611†	14.4	-0.00390	mg/L	0.000270	-0.00390	mg/L	0.000270	6.93%
Sn 189.927†	-11.2	-0.00377	mg/L	0.000559	-0.00377	mg/L	0.000559	14.84%
Ti 334.940†	-142.5	-0.00053	mg/L	0.000118	-0.00053	mg/L	0.000118	22.21%
Tl 190.801†	-4.6	-0.00672	mg/L	0.001069	-0.00672	mg/L	0.001069	15.91%
V 290.880†	-162.7	-0.00149	mg/L	0.001042	-0.00149	mg/L	0.001042	70.04%
Zn 206.200†	-256.6	-0.00946	mg/L	0.000060	-0.00946	mg/L	0.000060	0.63%
K 766.490†	146.5	0.0698	mg/L	0.02775	0.0698	mg/L	0.02775	39.76%
Na 589.592†	4789.1	0.372	mg/L	0.0153	0.372	mg/L	0.0153	4.12%
Sr 407.771†	6789.8	0.00060	mg/L	0.001942	0.00060	mg/L	0.001942	325.43%
Li 670.784†	-21.9	-0.00220	mg/L	0.000693	-0.00220	mg/L	0.000693	31.51%

Sequence No.: 78
Sample ID: L1012084901 DL0.01
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 1/8/2011 12:13:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012084901 DL0.01

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Approved: January 10, 2011

Mean Data: L1012084901 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5579642.5						24927.12	0.45%
YRADIAL	352944.0						2699.22	0.76%
Ga 417.206	1578185.4						9579.02	0.61%
GaRADIAL	82302.2						1911.99	2.32%
Ag 328.068†	-6.7	-0.00040	mg/L	0.000487	-0.00040	mg/L	0.000487	120.27%
Al 396.153†	-116.5	-0.0430	mg/L	0.00901	-0.0430	mg/L	0.00901	20.94%
As 188.979†	5.6	0.00501	mg/L	0.001648	0.00501	mg/L	0.001648	32.91%
Ba 233.527†	46.9	-0.00325	mg/L	0.000810	-0.00325	mg/L	0.000810	24.91%
Be 234.861†	31.0	-0.00006	mg/L	0.000017	-0.00006	mg/L	0.000017	27.41%
B 249.677†	3087.2	0.0605	mg/L	0.00087	0.0605	mg/L	0.00087	1.44%
Ca 227.546†	600.7	5.14	mg/L	0.099	5.14	mg/L	0.099	1.92%
Cd 228.802†	-2.8	-0.00005	mg/L	0.000040	-0.00005	mg/L	0.000040	86.58%
Co 228.616†	2.0	-0.00069	mg/L	0.000185	-0.00069	mg/L	0.000185	26.75%
Cr 267.716†	-7.3	-0.00200	mg/L	0.000109	-0.00200	mg/L	0.000109	5.45%
Cu 327.393†	-285.8	-0.00093	mg/L	0.000526	-0.00093	mg/L	0.000526	56.39%
Fe 239.562†	-0.3	-0.0195	mg/L	0.00165	-0.0195	mg/L	0.00165	8.43%
Mg 279.077†	3295.4	3.50	mg/L	0.037	3.50	mg/L	0.037	1.06%
Mn 257.610†	3527.1	0.00655	mg/L	0.000077	0.00655	mg/L	0.000077	1.17%
Mo 202.031†	0.2	-0.00303	mg/L	0.000385	-0.00303	mg/L	0.000385	12.72%
Ni 231.604†	-18.7	-0.00248	mg/L	0.000304	-0.00248	mg/L	0.000304	12.24%
Pb 220.353†	-17.2	-0.00433	mg/L	0.000609	-0.00433	mg/L	0.000609	14.08%
Sb 206.836†	8.5	0.00200	mg/L	0.003790	0.00200	mg/L	0.003790	189.31%
Se 196.026†	-2.4	-0.00374	mg/L	0.003700	-0.00374	mg/L	0.003700	99.03%
Si 251.611†	1868.1	0.0507	mg/L	0.00057	0.0507	mg/L	0.00057	1.12%
Sn 189.927†	-31.9	-0.00697	mg/L	0.000811	-0.00697	mg/L	0.000811	11.65%
Ti 334.940†	-137.2	-0.00047	mg/L	0.000041	-0.00047	mg/L	0.000041	8.74%
Tl 190.801†	3.3	-0.00292	mg/L	0.004193	-0.00292	mg/L	0.004193	143.68%
V 290.880†	-352.6	-0.00251	mg/L	0.000642	-0.00251	mg/L	0.000642	25.55%
Zn 206.200†	-188.3	-0.00752	mg/L	0.000100	-0.00752	mg/L	0.000100	1.32%
K 766.490†	426.4	0.160	mg/L	0.0012	0.160	mg/L	0.0012	0.75%
Na 589.592†	131428.1	10.1	mg/L	0.06	10.1	mg/L	0.06	0.62%
Sr 407.771†	146696.2	0.0835	mg/L	0.00154	0.0835	mg/L	0.00154	1.84%
Li 670.784†	467.6	0.00368	mg/L	0.001796	0.00368	mg/L	0.001796	48.85%

Sequence No.: 79
Sample ID: L1012084901PS WG353068-01
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 129
Date Collected: 1/8/2011 12:19:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1012084901PS WG353068-01

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012084901PS WG353068-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5424123.0						28902.58	0.53%
YRADIAL	346421.5						8603.81	2.48%
Ga 417.206	1565776.4						11689.55	0.75%
GaRADIAL	80848.1						654.40	0.81%
Ag 328.068†	37531.1	0.204	mg/L	0.0031	0.204	mg/L	0.0031	1.55%
Al 396.153†	28252.5	5.05	mg/L	0.012	5.05	mg/L	0.012	0.24%
As 188.979†	240.6	0.198	mg/L	0.0034	0.198	mg/L	0.0034	1.72%
Ba 233.527†	33906.2	0.510	mg/L	0.0045	0.510	mg/L	0.0045	0.89%
Be 234.861†	16681.2	0.0255	mg/L	0.00037	0.0255	mg/L	0.00037	1.47%
B 249.677†	53638.6	1.08	mg/L	0.025	1.08	mg/L	0.025	2.26%
Ca 227.546†	1181.2	10.4	mg/L	0.11	10.4	mg/L	0.11	1.07%
Cd 228.802†	481.4	0.0240	mg/L	0.00030	0.0240	mg/L	0.00030	1.25%
Co 228.616†	2122.2	0.101	mg/L	0.0006	0.101	mg/L	0.0006	0.64%
Cr 267.716†	29410.2	0.253	mg/L	0.0022	0.253	mg/L	0.0022	0.88%
Cu 327.393†	34103.2	0.248	mg/L	0.0047	0.248	mg/L	0.0047	1.89%
Fe 239.562†	1382.9	2.07	mg/L	0.021	2.07	mg/L	0.021	1.00%
Mg 279.077†	8064.0	8.65	mg/L	0.132	8.65	mg/L	0.132	1.52%
Mn 257.610†	119627.0	0.269	mg/L	0.0031	0.269	mg/L	0.0031	1.16%

Approved: January 10, 2011

Mo 202.031†	8111.8	0.512 mg/L	0.0054	0.512 mg/L	0.0054	1.06%
Ni 231.604†	9731.4	0.255 mg/L	0.0033	0.255 mg/L	0.0033	1.31%
Pb 220.353†	1759.1	0.257 mg/L	0.0010	0.257 mg/L	0.0010	0.40%
Sb 206.836†	1138.8	0.624 mg/L	0.0066	0.624 mg/L	0.0066	1.05%
Se 196.026†	325.3	0.201 mg/L	0.0024	0.201 mg/L	0.0024	1.21%
Si 251.611†	89332.6	2.62 mg/L	0.042	2.62 mg/L	0.042	1.61%
Sn 189.927†	-40.2	-0.00825 mg/L	0.000928	-0.00825 mg/L	0.000928	11.25%
Ti 334.940†	393349.8	0.511 mg/L	0.0059	0.511 mg/L	0.0059	1.16%
Tl 190.801†	493.0	0.264 mg/L	0.0026	0.264 mg/L	0.0026	0.98%
V 290.880†	77278.2	0.503 mg/L	0.0057	0.503 mg/L	0.0057	1.14%
Zn 206.200†	18021.1	0.508 mg/L	0.0022	0.508 mg/L	0.0022	0.43%
K 766.490†	69734.9	25.0 mg/L	0.09	25.0 mg/L	0.09	0.34%
Na 589.592†	476628.9	37.0 mg/L	0.40	37.0 mg/L	0.40	1.07%
Sr 407.771†	1030313.2	0.607 mg/L	0.0155	0.607 mg/L	0.0155	2.56%
Li 670.784†	42759.8	0.512 mg/L	0.0061	0.512 mg/L	0.0061	1.20%

Sequence No.: 80 **Autosampler Location: 130**
Sample ID: L1012084901DL WG353068-02 **Date Collected: 1/8/2011 12:26:36 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1012084901DL WG353068-02

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1012084901DL WG353068-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5591156.5						20183.49	0.36%
YRADIAL	343758.9						7130.78	2.07%
Ga 417.206	1551640.9						9297.94	0.60%
GaRADIAL	79437.5						641.53	0.81%
Ag 328.068†	-65.9	-0.00071	mg/L	0.000612	-0.00071	mg/L	0.000612	86.11%
Al 396.153†	-100.7	-0.0402	mg/L	0.01096	-0.0402	mg/L	0.01096	27.27%
As 188.979†	3.3	0.00314	mg/L	0.003604	0.00314	mg/L	0.003604	114.92%
Ba 233.527†	3.0	-0.00391	mg/L	0.000055	-0.00391	mg/L	0.000055	1.42%
Be 234.861†	8.8	-0.00010	mg/L	0.000011	-0.00010	mg/L	0.000011	11.39%
B 249.677†	2328.8	0.0452	mg/L	0.00150	0.0452	mg/L	0.00150	3.32%
Ca 227.546†	132.0	1.12	mg/L	0.037	1.12	mg/L	0.037	3.31%
Cd 228.802†	-5.3	-0.00016	mg/L	0.000139	-0.00016	mg/L	0.000139	87.78%
Co 228.616†	1.1	-0.00073	mg/L	0.000118	-0.00073	mg/L	0.000118	16.01%
Cr 267.716†	-21.9	-0.00213	mg/L	0.000042	-0.00213	mg/L	0.000042	1.97%
Cu 327.393†	-298.3	-0.00102	mg/L	0.000391	-0.00102	mg/L	0.000391	38.27%
Fe 239.562†	0.2	-0.0186	mg/L	0.00185	-0.0186	mg/L	0.00185	9.95%
Mg 279.077†	700.5	0.705	mg/L	0.0033	0.705	mg/L	0.0033	0.46%
Mn 257.610†	583.5	-0.00014	mg/L	0.000012	-0.00014	mg/L	0.000012	9.08%
Mo 202.031†	-5.4	-0.00338	mg/L	0.000073	-0.00338	mg/L	0.000073	2.17%
Ni 231.604†	-16.8	-0.00243	mg/L	0.000199	-0.00243	mg/L	0.000199	8.21%
Pb 220.353†	-7.8	-0.00315	mg/L	0.001108	-0.00315	mg/L	0.001108	35.16%
Sb 206.836†	-0.8	-0.00303	mg/L	0.000633	-0.00303	mg/L	0.000633	20.87%
Se 196.026†	-0.4	-0.00348	mg/L	0.001447	-0.00348	mg/L	0.001447	41.59%
Si 251.611†	352.6	0.00607	mg/L	0.000405	0.00607	mg/L	0.000405	6.67%
Sn 189.927†	-14.1	-0.00422	mg/L	0.000473	-0.00422	mg/L	0.000473	11.21%
Ti 334.940†	-44.9	-0.00039	mg/L	0.000171	-0.00039	mg/L	0.000171	43.52%
Tl 190.801†	1.6	-0.00352	mg/L	0.001439	-0.00352	mg/L	0.001439	40.92%
V 290.880†	-270.5	-0.00214	mg/L	0.000264	-0.00214	mg/L	0.000264	12.32%
Zn 206.200†	-187.4	-0.00750	mg/L	0.000130	-0.00750	mg/L	0.000130	1.74%
K 766.490†	63.1	0.0382	mg/L	0.01748	0.0382	mg/L	0.01748	45.76%
Na 589.592†	29722.4	2.28	mg/L	0.043	2.28	mg/L	0.043	1.89%
Sr 407.771†	32405.3	0.0158	mg/L	0.00067	0.0158	mg/L	0.00067	4.25%
Li 670.784†	36.7	-0.00150	mg/L	0.001884	-0.00150	mg/L	0.001884	125.82%

Sequence No.: 81 **Autosampler Location: 131**
Sample ID: L1012087601 DL0.01 **Date Collected: 1/8/2011 12:33:15 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 10, 2011

Nebulizer Parameters: L1012087601 DL0.01

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: L1012087601 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5512898.7						26957.70	0.49%
YRADIAL	356544.1						9678.01	2.71%
Ga 417.206	1556918.0						11555.55	0.74%
GaRADIAL	83212.9						258.22	0.31%
Ag 328.068†	-24.8	-0.00050	mg/L	0.000758	-0.00050	mg/L	0.000758	151.44%
Al 396.153†	-140.0	-0.0473	mg/L	0.00941	-0.0473	mg/L	0.00941	19.91%
As 188.979†	0.0	0.00037	mg/L	0.003447	0.00037	mg/L	0.003447	937.62%
Ba 233.527†	5.1	-0.00388	mg/L	0.000048	-0.00388	mg/L	0.000048	1.24%
Be 234.861†	24.2	-0.00007	mg/L	0.000018	-0.00007	mg/L	0.000018	23.98%
B 249.677†	2915.5	0.0571	mg/L	0.00158	0.0571	mg/L	0.00158	2.77%
Ca 227.546†	582.6	4.99	mg/L	0.050	4.99	mg/L	0.050	1.00%
Cd 228.802†	-6.3	-0.00019	mg/L	0.000066	-0.00019	mg/L	0.000066	34.91%
Co 228.616†	4.0	-0.00059	mg/L	0.000309	-0.00059	mg/L	0.000309	52.11%
Cr 267.716†	3.1	-0.00191	mg/L	0.000041	-0.00191	mg/L	0.000041	2.15%
Cu 327.393†	-381.6	-0.00162	mg/L	0.000999	-0.00162	mg/L	0.000999	61.54%
Fe 239.562†	-1.2	-0.0208	mg/L	0.00111	-0.0208	mg/L	0.00111	5.32%
Mg 279.077†	3123.9	3.32	mg/L	0.044	3.32	mg/L	0.044	1.34%
Mn 257.610†	3999.9	0.00760	mg/L	0.000074	0.00760	mg/L	0.000074	0.97%
Mo 202.031†	-6.6	-0.00346	mg/L	0.000252	-0.00346	mg/L	0.000252	7.30%
Ni 231.604†	-22.4	-0.00258	mg/L	0.000388	-0.00258	mg/L	0.000388	15.03%
Pb 220.353†	-16.1	-0.00417	mg/L	0.000163	-0.00417	mg/L	0.000163	3.91%
Sb 206.836†	5.1	0.00015	mg/L	0.001870	0.00015	mg/L	0.001870	>999.9%
Se 196.026†	-4.3	-0.00495	mg/L	0.000191	-0.00495	mg/L	0.000191	3.86%
Si 251.611†	1806.0	0.0489	mg/L	0.00056	0.0489	mg/L	0.00056	1.14%
Sn 189.927†	-31.5	-0.00691	mg/L	0.001118	-0.00691	mg/L	0.001118	16.20%
Ti 334.940†	-194.5	-0.00055	mg/L	0.000273	-0.00055	mg/L	0.000273	49.83%
Tl 190.801†	7.8	-0.00051	mg/L	0.004320	-0.00051	mg/L	0.004320	847.09%
V 290.880†	-225.9	-0.00170	mg/L	0.000472	-0.00170	mg/L	0.000472	27.80%
Zn 206.200†	-206.1	-0.00803	mg/L	0.000201	-0.00803	mg/L	0.000201	2.50%
K 766.490†	251.4	0.0978	mg/L	0.00716	0.0978	mg/L	0.00716	7.32%
Na 589.592†	125867.6	9.68	mg/L	0.101	9.68	mg/L	0.101	1.05%
Sr 407.771†	136982.3	0.0778	mg/L	0.00091	0.0778	mg/L	0.00091	1.18%
Li 670.784†	405.0	0.00293	mg/L	0.000780	0.00293	mg/L	0.000780	26.66%

Sequence No.: 82
Sample ID: L1101001801 DL0.002
Analyst: PDM
Initial Sample Wt:
Dilution:

Autosampler Location: 132
Date Collected: 1/8/2011 12:39:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101001801 DL0.002

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: L1101001801 DL0.002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5105648.6						54171.17	1.06%
YRADIAL	335264.8						3171.88	0.95%
Ga 417.206	1473277.5						9364.01	0.64%
GaRADIAL	78234.2						1606.78	2.05%
Ag 328.068†	1783.1	0.00936	mg/L	0.000551	0.00936	mg/L	0.000551	5.89%
Al 396.153†	-125.1	-0.0445	mg/L	0.01185	-0.0445	mg/L	0.01185	26.63%
As 188.979†	50.9	0.0389	mg/L	0.00790	0.0389	mg/L	0.00790	20.30%
Ba 233.527†	142277.3	2.15	mg/L	0.032	2.15	mg/L	0.032	1.47%
Be 234.861†	227.7	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	>999.9%
B 249.677†	21808.2	0.443	mg/L	0.0037	0.443	mg/L	0.0037	0.82%
Ca 227.546†	22457.1	193	mg/L	2.3	193	mg/L	2.3	1.17%
Cd 228.802†	-7.6	-0.00056	mg/L	0.000085	-0.00056	mg/L	0.000085	15.15%
Co 228.616†	-41.9	-0.00357	mg/L	0.000223	-0.00357	mg/L	0.000223	6.24%
Cr 267.716†	28.7	-0.00166	mg/L	0.000069	-0.00166	mg/L	0.000069	4.13%

Approved: January 10, 2011

Cu 327.393†	-525.9	-0.00267	mg/L	0.000714	-0.00267	mg/L	0.000714	26.74%
Fe 239.562†	682.8	1.01	mg/L	0.018	1.01	mg/L	0.018	1.73%
Mg 279.077†	20147.8	21.7	mg/L	0.10	21.7	mg/L	0.10	0.45%
Mn 257.610†	41954.2	0.0962	mg/L	0.00152	0.0962	mg/L	0.00152	1.58%
Mo 202.031†	8.5	-0.00243	mg/L	0.000235	-0.00243	mg/L	0.000235	9.66%
Ni 231.604†	-33.5	-0.00290	mg/L	0.000486	-0.00290	mg/L	0.000486	16.74%
Pb 220.353†	-69.8	-0.00300	mg/L	0.000542	-0.00300	mg/L	0.000542	18.04%
Sb 206.836†	76.7	0.0388	mg/L	0.00305	0.0388	mg/L	0.00305	7.87%
Se 196.026†	-47.6	0.0152	mg/L	0.00328	0.0152	mg/L	0.00328	21.57%
Si 251.611†	2000.1	0.0546	mg/L	0.00066	0.0546	mg/L	0.00066	1.20%
Sn 189.927†	-146.3	-0.0247	mg/L	0.00131	-0.0247	mg/L	0.00131	5.29%
Ti 334.940†	-2749.4	-0.00199	mg/L	0.000111	-0.00199	mg/L	0.000111	5.58%
Tl 190.801†	94.3	0.0289	mg/L	0.00285	0.0289	mg/L	0.00285	9.87%
V 290.880†	-972.2	-0.00560	mg/L	0.001611	-0.00560	mg/L	0.001611	28.77%
Zn 206.200†	57.4	-0.00059	mg/L	0.000219	-0.00059	mg/L	0.000219	37.27%
K 766.490†	26367.1	9.13	mg/L	0.062	9.13	mg/L	0.062	0.68%
Na 589.592†	3442806.3	298	mg/L	6.2	298	mg/L	6.2	2.07%
Sr 407.771†	Saturated2							
Li 670.784†	44490.1	0.532	mg/L	0.0036	0.532	mg/L	0.0036	0.67%

Sequence No.: 83 **Autosampler Location: 133**
Sample ID: L1101001901 DL0.002 **Date Collected: 1/8/2011 12:46:42 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101001901 DL0.002

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: L1101001901 DL0.002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5340117.5						37092.96	0.69%
YRADIAL	339549.5						5787.83	1.70%
Ga 417.206	1545095.1						10200.23	0.66%
GaRADIAL	78919.0						1204.57	1.53%
Ag 328.068†	388.2	0.00176	mg/L	0.000239	0.00176	mg/L	0.000239	13.55%
Al 396.153†	-137.4	-0.0468	mg/L	0.01663	-0.0468	mg/L	0.01663	35.55%
As 188.979†	15.2	0.0121	mg/L	0.00273	0.0121	mg/L	0.00273	22.46%
Ba 233.527†	5521.6	0.0795	mg/L	0.00074	0.0795	mg/L	0.00074	0.94%
Be 234.861†	73.2	-0.00004	mg/L	0.000021	-0.00004	mg/L	0.000021	48.10%
B 249.677†	12721.9	0.256	mg/L	0.0022	0.256	mg/L	0.0022	0.85%
Ca 227.546†	5275.1	45.3	mg/L	0.46	45.3	mg/L	0.46	1.02%
Cd 228.802†	-7.3	-0.00033	mg/L	0.000082	-0.00033	mg/L	0.000082	25.05%
Co 228.616†	-3.8	-0.00100	mg/L	0.000235	-0.00100	mg/L	0.000235	23.45%
Cr 267.716†	-29.4	-0.00218	mg/L	0.000061	-0.00218	mg/L	0.000061	2.79%
Cu 327.393†	-478.8	-0.00233	mg/L	0.000262	-0.00233	mg/L	0.000262	11.24%
Fe 239.562†	116.0	0.156	mg/L	0.0036	0.156	mg/L	0.0036	2.31%
Mg 279.077†	4523.1	4.83	mg/L	0.031	4.83	mg/L	0.031	0.64%
Mn 257.610†	2395.0	0.00454	mg/L	0.000047	0.00454	mg/L	0.000047	1.03%
Mo 202.031†	-10.5	-0.00370	mg/L	0.000318	-0.00370	mg/L	0.000318	8.59%
Ni 231.604†	-47.2	-0.00325	mg/L	0.000239	-0.00325	mg/L	0.000239	7.35%
Pb 220.353†	-26.9	-0.00382	mg/L	0.001502	-0.00382	mg/L	0.001502	39.30%
Sb 206.836†	33.0	0.0152	mg/L	0.00149	0.0152	mg/L	0.00149	9.82%
Se 196.026†	-27.2	-0.00910	mg/L	0.000608	-0.00910	mg/L	0.000608	6.68%
Si 251.611†	194.3	0.00141	mg/L	0.000579	0.00141	mg/L	0.000579	40.95%
Sn 189.927†	-95.0	-0.0167	mg/L	0.00029	-0.0167	mg/L	0.00029	1.71%
Ti 334.940†	-940.7	-0.00111	mg/L	0.000217	-0.00111	mg/L	0.000217	19.48%
Tl 190.801†	45.8	0.0161	mg/L	0.00181	0.0161	mg/L	0.00181	11.18%
V 290.880†	-301.2	-0.00211	mg/L	0.000983	-0.00211	mg/L	0.000983	46.58%
Zn 206.200†	-170.7	-0.00703	mg/L	0.000317	-0.00703	mg/L	0.000317	4.51%
K 766.490†	14261.1	5.05	mg/L	0.108	5.05	mg/L	0.108	2.14%
Na 589.592†	607904.4	47.4	mg/L	0.56	47.4	mg/L	0.56	1.19%
Sr 407.771†	Saturated2							
Li 670.784†	12526.5	0.148	mg/L	0.0049	0.148	mg/L	0.0049	3.27%

Sequence No.: 84 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/8/2011 12:53:25 AM**

Approved: January 10, 2011

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5392162.4						60302.02	1.12%
YRADIAL	350935.4						9857.24	2.81%
Ga 417.206	1540401.2						35179.20	2.28%
GaRADIAL	80867.6						383.11	0.47%
Ag 328.068†	76457.9	0.416	mg/L	0.0105	0.416	mg/L	0.0105	2.53%
QC value within limits for Ag 328.068 Recovery = 103.88%								
Al 396.153†	59183.0	10.6	mg/L	0.08	10.6	mg/L	0.08	0.73%
QC value within limits for Al 396.153 Recovery = 106.01%								
As 188.979†	497.0	0.408	mg/L	0.0117	0.408	mg/L	0.0117	2.87%
QC value within limits for As 188.979 Recovery = 102.00%								
Ba 233.527†	69757.8	1.05	mg/L	0.018	1.05	mg/L	0.018	1.71%
QC value within limits for Ba 233.527 Recovery = 105.34%								
Be 234.861†	34511.0	0.0528	mg/L	0.00115	0.0528	mg/L	0.00115	2.17%
QC value within limits for Be 234.861 Recovery = 105.67%								
B 249.677†	27477.4	0.559	mg/L	0.0141	0.559	mg/L	0.0141	2.52%
QC value greater than the upper limit for B 249.677 Recovery = 111.87%								
Ca 227.546†	1209.5	11.0	mg/L	0.29	11.0	mg/L	0.29	2.65%
QC value within limits for Ca 227.546 Recovery = 109.60%								
Cd 228.802†	1004.8	0.0499	mg/L	0.00142	0.0499	mg/L	0.00142	2.85%
QC value within limits for Cd 228.802 Recovery = 99.87%								
Co 228.616†	4359.5	0.208	mg/L	0.0024	0.208	mg/L	0.0024	1.17%
QC value within limits for Co 228.616 Recovery = 104.21%								
Cr 267.716†	60745.1	0.526	mg/L	0.0067	0.526	mg/L	0.0067	1.28%
QC value within limits for Cr 267.716 Recovery = 105.11%								
Cu 327.393†	71618.0	0.519	mg/L	0.0135	0.519	mg/L	0.0135	2.60%
QC value within limits for Cu 327.393 Recovery = 103.89%								
Fe 239.562†	2791.5	4.20	mg/L	0.050	4.20	mg/L	0.050	1.19%
QC value within limits for Fe 239.562 Recovery = 104.91%								
Mg 279.077†	9769.6	10.5	mg/L	0.15	10.5	mg/L	0.15	1.43%
QC value within limits for Mg 279.077 Recovery = 104.88%								
Mn 257.610†	235011.7	0.530	mg/L	0.0084	0.530	mg/L	0.0084	1.59%
QC value within limits for Mn 257.610 Recovery = 106.07%								
Mo 202.031†	16715.8	1.06	mg/L	0.021	1.06	mg/L	0.021	1.99%
QC value within limits for Mo 202.031 Recovery = 105.85%								
Ni 231.604†	20168.6	0.530	mg/L	0.0085	0.530	mg/L	0.0085	1.59%
QC value within limits for Ni 231.604 Recovery = 106.05%								
Pb 220.353†	3623.8	0.530	mg/L	0.0069	0.530	mg/L	0.0069	1.29%
QC value within limits for Pb 220.353 Recovery = 106.06%								
Sb 206.836†	2317.0	1.28	mg/L	0.028	1.28	mg/L	0.028	2.21%
QC value within limits for Sb 206.836 Recovery = 106.91%								
Se 196.026†	674.3	0.418	mg/L	0.0069	0.418	mg/L	0.0069	1.66%
QC value within limits for Se 196.026 Recovery = 104.59%								
Si 251.611†	177018.3	5.20	mg/L	0.132	5.20	mg/L	0.132	2.53%
QC value within limits for Si 251.611 Recovery = 103.92%								
Sn 189.927†	6851.9	1.06	mg/L	0.013	1.06	mg/L	0.013	1.25%
QC value within limits for Sn 189.927 Recovery = 105.82%								
Ti 334.940†	803972.3	1.04	mg/L	0.003	1.04	mg/L	0.003	0.26%
QC value within limits for Ti 334.940 Recovery = 104.44%								
Tl 190.801†	980.4	0.531	mg/L	0.0052	0.531	mg/L	0.0052	0.97%
QC value within limits for Tl 190.801 Recovery = 106.27%								
V 290.880†	159138.0	1.04	mg/L	0.017	1.04	mg/L	0.017	1.63%
QC value within limits for V 290.880 Recovery = 103.62%								
Zn 206.200†	37240.2	1.05	mg/L	0.011	1.05	mg/L	0.011	1.09%
QC value within limits for Zn 206.200 Recovery = 105.31%								
K 766.490†	144174.9	52.1	mg/L	0.26	52.1	mg/L	0.26	0.49%
QC value within limits for K 766.490 Recovery = 104.15%								
Na 589.592†	668119.2	52.2	mg/L	0.59	52.2	mg/L	0.59	1.13%
QC value within limits for Na 589.592 Recovery = 104.42%								
Sr 407.771†	1793464.7	1.06	mg/L	0.011	1.06	mg/L	0.011	1.08%
QC value within limits for Sr 407.771 Recovery = 105.93%								

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```
Li 670.784†            88102.1        1.06 mg/L         0.014        1.06 mg/L         0.014   1.33%
   QC value within limits for Li 670.784  Recovery = 105.61%
QC Failed.  Continue with analysis.
```

Sequence No.: 85 | **Autosampler Location: 1**
Sample ID: CCB | **Date Collected: 1/8/2011 1:00:03 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5542926.9						90606.46	1.63%
YRADIAL	351804.3						5333.81	1.52%
Ga 417.206	1513378.2						28889.09	1.91%
GaRADIAL	81305.2						1096.90	1.35%
Ag 328.068†	-124.6	-0.00102	mg/L	0.000400	-0.00102	mg/L	0.000400	39.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-138.0	-0.0469	mg/L	0.00343	-0.0469	mg/L	0.00343	7.30%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	3.3	0.00320	mg/L	0.003043	0.00320	mg/L	0.003043	95.13%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-4.0	-0.00402	mg/L	0.000057	-0.00402	mg/L	0.000057	1.42%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-6.3	-0.00012	mg/L	0.000036	-0.00012	mg/L	0.000036	29.83%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	1759.5	0.0338	mg/L	0.00143	0.0338	mg/L	0.00143	4.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	0.4	-0.0130	mg/L	0.03222	-0.0130	mg/L	0.03222	247.91%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-4.5	-0.00012	mg/L	0.000172	-0.00012	mg/L	0.000172	144.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.6	-0.00082	mg/L	0.000183	-0.00082	mg/L	0.000183	22.47%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-9.7	-0.00202	mg/L	0.000061	-0.00202	mg/L	0.000061	3.02%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-234.8	-0.00056	mg/L	0.000458	-0.00056	mg/L	0.000458	81.54%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.1	-0.0188	mg/L	0.00048	-0.0188	mg/L	0.00048	2.54%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-2.3	-0.0524	mg/L	0.00324	-0.0524	mg/L	0.00324	6.19%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-181.0	-0.00188	mg/L	0.000022	-0.00188	mg/L	0.000022	1.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.8	-0.00299	mg/L	0.000378	-0.00299	mg/L	0.000378	12.63%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-19.0	-0.00249	mg/L	0.000146	-0.00249	mg/L	0.000146	5.88%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-13.6	-0.00406	mg/L	0.000449	-0.00406	mg/L	0.000449	11.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.1	-0.00371	mg/L	0.000506	-0.00371	mg/L	0.000506	13.64%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.9	-0.00298	mg/L	0.000773	-0.00298	mg/L	0.000773	25.92%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-29.8	-0.00520	mg/L	0.000322	-0.00520	mg/L	0.000322	6.18%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-11.4	-0.00380	mg/L	0.000965	-0.00380	mg/L	0.000965	25.40%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	26.3	-0.00031	mg/L	0.000162	-0.00031	mg/L	0.000162	52.11%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-4.0	-0.00637	mg/L	0.002391	-0.00637	mg/L	0.002391	37.53%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-55.3	-0.00079	mg/L	0.000707	-0.00079	mg/L	0.000707	89.74%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-247.4	-0.00920	mg/L	0.000068	-0.00920	mg/L	0.000068	0.74%

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```
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              -11.8      0.0137 mg/L       0.01140      0.0137 mg/L       0.01140  83.30%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            1382.4       0.111 mg/L        0.0088       0.111 mg/L        0.0088   7.88%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            1818.9    -0.00235 mg/L      0.000445    -0.00235 mg/L      0.000445  18.92%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†            -278.6    -0.00528 mg/L      0.001734    -0.00528 mg/L      0.001734  32.83%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

Approved: January 10, 2011

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Reprocessing Begun
Logged In Analyst: peicp2 **Technique: ICP Continuous**

Results Data Set (original): 011211H
Results Library (original): C:\pe\peicp2\Results\Results.mdb
Results Data Set (reprocessed): 011211HR2
Results Library (reprocessed): C:\pe\peicp2\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 1/12/2011 10:32:35 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:17 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4930043.7	23225.61	0.47%		
YRADIAL	291666.1	5269.18	1.81%		
Ga 417.206	1633465.3	14689.29	0.90%		
GaRADIAL	78210.6	326.13	0.42%		
Ag 328.068†	434.3	45.07	10.38%	[0.00]	mg/L
Al 396.153†	-60.2	10.30	17.10%	[0.00]	mg/L
As 188.979†	-8.8	1.07	12.19%	[0.00]	mg/L
Ba 233.527†	-53.6	3.80	7.08%	[0.00]	mg/L
Be 234.861†	-528.2	16.03	3.04%	[0.00]	mg/L
B 249.677†	272.5	13.28	4.87%	[0.00]	mg/L
Ca 227.546†	13.6	2.00	14.64%	[0.00]	mg/L
Cd 228.802†	20.9	1.98	9.47%	[0.00]	mg/L
Co 228.616†	8.8	2.48	28.19%	[0.00]	mg/L
Cr 267.716†	86.7	5.05	5.82%	[0.00]	mg/L
Cu 327.393†	-488.2	53.40	10.94%	[0.00]	mg/L
Fe 239.562†	0.3	0.56	219.06%	[0.00]	mg/L
Mg 279.077†	6.1	6.12	100.64%	[0.00]	mg/L
Mn 257.610†	405.0	19.50	4.81%	[0.00]	mg/L
Mo 202.031†	3.1	7.96	260.52%	[0.00]	mg/L
Ni 231.604†	-131.1	12.14	9.26%	[0.00]	mg/L
Pb 220.353†	25.5	5.21	20.45%	[0.00]	mg/L
Sb 206.836†	23.5	2.98	12.69%	[0.00]	mg/L
Se 196.026†	33.8	5.35	15.82%	[0.00]	mg/L
Si 251.611†	907.0	23.80	2.62%	[0.00]	mg/L
Sn 189.927†	-0.7	2.38	329.08%	[0.00]	mg/L
Ti 334.940†	359.2	17.20	4.79%	[0.00]	mg/L
Tl 190.801†	-43.4	1.68	3.86%	[0.00]	mg/L
V 290.880†	1979.8	136.67	6.90%	[0.00]	mg/L
Zn 206.200†	33.1	5.65	17.06%	[0.00]	mg/L
K 766.490†	-225.8	77.97	34.53%	[0.00]	mg/L
Na 589.592†	973.7	19.66	2.02%	[0.00]	mg/L
Sr 407.771†	-57.9	87.70	151.54%	[0.00]	mg/L
Li 670.784†	200.4	94.78	47.30%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S1 **Date Collected: 1/12/2011 10:39:11 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:19 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

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Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4899478.9	30112.94	0.61%		
YRADIAL	287454.8	10714.97	3.73%		
Ga 417.206	1614090.7	9544.48	0.59%		
GaRADIAL	76967.0	1569.78	2.04%		
Ag 328.068†	933.7	92.73	9.93%	[0.0040]	mg/L
Al 396.153†	586.9	28.69	4.89%	[0.10]	mg/L
Ba 233.527†	726.6	19.06	2.62%	[0.010]	mg/L
Be 234.861†	384.0	8.93	2.33%	[0.0005]	mg/L
Ca 227.546†	12.8	8.15	63.44%	[0.10]	mg/L
Cd 228.802†	12.2	5.34	43.78%	[0.00050]	mg/L
Co 228.616†	49.3	1.68	3.40%	[0.0020]	mg/L
Cr 267.716†	624.9	19.43	3.11%	[0.0050]	mg/L
Cu 327.393†	846.7	16.05	1.90%	[0.0050]	mg/L
Fe 239.562†	26.7	0.81	3.03%	[0.040]	mg/L
Mg 279.077†	100.2	5.55	5.54%	[0.10]	mg/L
Mn 257.610†	2462.8	36.16	1.47%	[0.0050]	mg/L
Mo 202.031†	166.3	7.23	4.35%	[0.010]	mg/L
Ni 231.604†	215.6	9.50	4.40%	[0.0050]	mg/L
Pb 220.353†	45.8	7.36	16.06%	[0.0050]	mg/L
Sb 206.836†	19.9	1.85	9.28%	[0.012]	mg/L
Si 251.611†	1948.6	66.42	3.41%	[0.050]	mg/L
Sn 189.927†	72.2	6.11	8.46%	[0.010]	mg/L
Ti 334.940†	8046.6	166.87	2.07%	[0.010]	mg/L
V 290.880†	1622.8	160.74	9.91%	[0.010]	mg/L
Zn 206.200†	412.1	8.44	2.05%	[0.010]	mg/L
K 766.490†	1425.0	169.19	11.87%	[0.50]	mg/L
Na 589.592†	7147.4	108.86	1.52%	[0.50]	mg/L
Sr 407.771†	17854.3	472.90	2.65%	[0.010]	mg/L
Li 670.784†	927.5	59.01	6.36%	[0.010]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 1/12/2011 10:45:52 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:20 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	5069059.9	20299.12	0.40%		
YRADIAL	293537.8	7442.58	2.54%		
Ga 417.206	1681363.5	9197.17	0.55%		
GaRADIAL	78387.8	461.47	0.59%		
Ag 328.068†	1694.8	55.95	3.30%	[0.0080]	mg/L
Al 396.153†	1081.6	83.48	7.72%	[0.20]	mg/L
As 188.979†	10.4	1.55	14.92%	[0.0080]	mg/L
Ba 233.527†	1380.8	7.51	0.54%	[0.020]	mg/L
Be 234.861†	743.1	7.13	0.96%	[0.0010]	mg/L
B 249.677†	541.1	10.56	1.95%	[0.010]	mg/L
Ca 227.546†	21.9	4.20	19.17%	[0.20]	mg/L
Cd 228.802†	23.1	5.09	22.06%	[0.0010]	mg/L
Co 228.616†	88.7	4.05	4.57%	[0.0040]	mg/L
Cr 267.716†	1295.2	15.72	1.21%	[0.010]	mg/L
Cu 327.393†	1496.6	111.19	7.43%	[0.010]	mg/L
Fe 239.562†	51.6	2.01	3.90%	[0.080]	mg/L
Mg 279.077†	193.8	9.71	5.01%	[0.20]	mg/L
Mn 257.610†	4679.0	154.72	3.31%	[0.010]	mg/L
Mo 202.031†	319.8	5.60	1.75%	[0.020]	mg/L
Ni 231.604†	424.6	8.32	1.96%	[0.010]	mg/L
Pb 220.353†	78.1	7.28	9.31%	[0.010]	mg/L

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Sb 206.836†	42.3	4.93	11.67%	[0.024]	mg/L
Se 196.026†	3.6	4.76	133.77%	[0.0080]	mg/L
Si 251.611†	3454.9	81.17	2.35%	[0.10]	mg/L
Sn 189.927†	134.9	1.22	0.91%	[0.020]	mg/L
Ti 334.940†	15481.3	75.87	0.49%	[0.020]	mg/L
Tl 190.801†	19.4	5.70	29.33%	[0.010]	mg/L
V 290.880†	3027.7	183.88	6.07%	[0.020]	mg/L
Zn 206.200†	790.9	7.18	0.91%	[0.020]	mg/L
K 766.490†	2552.5	45.25	1.77%	[1.00]	mg/L
Na 589.592†	14149.3	198.05	1.40%	[1.00]	mg/L
Sr 407.771†	34616.2	347.24	1.00%	[0.020]	mg/L
Li 670.784†	1733.0	36.38	2.10%	[0.020]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 1/12/2011 10:52:31 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:21 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4683801.8	37572.55	0.80%		
YRADIAL	275508.6	3100.18	1.13%		
Ga 417.206	1522650.2	9637.51	0.63%		
GaRADIAL	74789.0	1594.05	2.13%		
Ag 328.068†	84955.8	349.67	0.41%	[0.40]	mg/L
Al 396.153†	54296.6	123.41	0.23%	[10.00]	mg/L
As 188.979†	577.0	11.04	1.91%	[0.40]	mg/L
Ba 233.527†	71685.2	311.38	0.43%	[1.00]	mg/L
Be 234.861†	38216.8	29.38	0.08%	[0.05]	mg/L
B 249.677†	29654.0	45.53	0.15%	[0.50]	mg/L
Ca 227.546†	1221.1	13.78	1.13%	[10.00]	mg/L
Cd 228.802†	1178.3	11.90	1.01%	[0.05]	mg/L
Co 228.616†	4585.0	40.48	0.88%	[0.20]	mg/L
Cr 267.716†	64827.5	289.43	0.45%	[0.50]	mg/L
Cu 327.393†	78985.0	899.57	1.14%	[0.50]	mg/L
Fe 239.562†	2764.6	74.31	2.69%	[4.00]	mg/L
Mg 279.077†	10070.7	229.52	2.28%	[10.00]	mg/L
Mn 257.610†	247586.2	811.70	0.33%	[0.50]	mg/L
Mo 202.031†	16956.4	14.04	0.08%	[1.00]	mg/L
Ni 231.604†	21312.5	57.58	0.27%	[0.50]	mg/L
Pb 220.353†	3899.3	32.75	0.84%	[0.50]	mg/L
Sb 206.836†	2517.8	18.74	0.74%	[1.20]	mg/L
Se 196.026†	754.7	11.81	1.56%	[0.40]	mg/L
Si 251.611†	194653.5	240.98	0.12%	[5.00]	mg/L
Sn 189.927†	7321.0	71.23	0.97%	[1.00]	mg/L
Ti 334.940†	814259.6	1381.81	0.17%	[1.00]	mg/L
Tl 190.801†	1027.6	14.79	1.44%	[0.50]	mg/L
V 290.880†	165376.2	883.94	0.53%	[1.00]	mg/L
Zn 206.200†	41482.6	287.83	0.69%	[1.00]	mg/L
K 766.490†	134387.5	287.76	0.21%	[50.00]	mg/L
Na 589.592†	688458.0	8189.45	1.19%	[50.00]	mg/L
Sr 407.771†	1749263.2	9128.63	0.52%	[1.00]	mg/L
Li 670.784†	83426.7	451.97	0.54%	[1.00]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S4 **Date Collected: 1/12/2011 10:59:12 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:22 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 13, 2011
Pierce Morris

Nebulizer Parameters: S4

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4610666.5	34553.35	0.75%		
YRADIAL	271728.1	4853.04	1.79%		
Ga 417.206	1495918.6	27011.03	1.81%		
GaRADIAL	73059.9	753.99	1.03%		
Ag 328.068†	169734.3	3727.88	2.20%	[0.80]	mg/L
Al 396.153†	108303.3	130.34	0.12%	[20.00]	mg/L
As 188.979†	1176.8	25.28	2.15%	[0.80]	mg/L
Ba 233.527†	142312.1	1455.74	1.02%	[2.00]	mg/L
Be 234.861†	76788.3	1488.28	1.94%	[0.10]	mg/L
B 249.677†	59108.4	952.77	1.61%	[1.00]	mg/L
Ca 227.546†	2455.9	40.99	1.67%	[20.00]	mg/L
Cd 228.802†	2433.2	92.98	3.82%	[0.10]	mg/L
Co 228.616†	9162.2	26.80	0.29%	[0.40]	mg/L
Cr 267.716†	129018.8	1269.58	0.98%	[1.00]	mg/L
Cu 327.393†	157528.3	3833.65	2.43%	[1.00]	mg/L
Fe 239.562†	5540.1	229.16	4.14%	[8.00]	mg/L
Mg 279.077†	20132.7	769.65	3.82%	[20.00]	mg/L
Mn 257.610†	496569.6	2068.21	0.42%	[1.00]	mg/L
Mo 202.031†	33831.1	267.07	0.79%	[2.00]	mg/L
Ni 231.604†	42178.0	164.80	0.39%	[1.00]	mg/L
Pb 220.353†	7777.6	36.64	0.47%	[1.00]	mg/L
Sb 206.836†	5027.9	57.63	1.15%	[2.40]	mg/L
Se 196.026†	1503.8	9.54	0.63%	[0.80]	mg/L
Si 251.611†	391533.1	7412.59	1.89%	[10.00]	mg/L
Sn 189.927†	14749.5	78.23	0.53%	[2.00]	mg/L
Ti 334.940†	1667782.6	9469.21	0.57%	[2.00]	mg/L
Tl 190.801†	2051.2	36.75	1.79%	[1.00]	mg/L
V 290.880†	333784.8	3587.41	1.07%	[2.00]	mg/L
Zn 206.200†	82976.8	329.71	0.40%	[2.00]	mg/L
K 766.490†	269533.6	622.15	0.23%	[100.00]	mg/L
Na 589.592†	1383790.2	6709.47	0.48%	[100.00]	mg/L
Sr 407.771†	3494152.0	11772.92	0.34%	[2.00]	mg/L
Li 670.784†	166983.8	912.42	0.55%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin, Calc Int	37.0	212200	0.00000	1.000000	
Al 396.153	4	Lin, Calc Int	31.9	5416	0.00000	0.999999	
As 188.979	3	Lin, Calc Int	-2.7	1469	0.00000	0.999952	
Ba 233.527	4	Lin, Calc Int	57.4	71230	0.00000	0.999993	
Be 234.861	4	Lin, Calc Int	-29.8	767500	0.00000	0.999998	
B 249.677	3	Lin, Calc Int	-4.5	59150	0.00000	0.999998	
Ca 227.546	4	Lin, Calc Int	-1.5	122.8	0.00000	0.999996	
Cd 228.802	4	Lin, Calc Int	-5.1	24240	0.00000	0.999883	
Co 228.616	4	Lin, Calc Int	0.7	22910	0.00000	1.000000	
Cr 267.716	4	Lin, Calc Int	34.8	129100	0.00000	0.999997	
Cu 327.393	4	Lin, Calc Int	21.5	157600	0.00000	0.999999	
Fe 239.562	4	Lin, Calc Int	-2.2	692.6	0.00000	1.000000	
Mg 279.077	4	Lin, Calc Int	-1.9	1007	0.00000	1.000000	
Mn 257.610	4	Lin, Calc Int	-182.8	496500	0.00000	0.999999	
Mo 202.031	4	Lin, Calc Int	-1.6	16920	0.00000	0.999999	
Ni 231.604	4	Lin, Calc Int	30.2	42230	0.00000	0.999987	
Pb 220.353	4	Lin, Calc Int	3.6	7778	0.00000	0.999999	
Sb 206.836	4	Lin, Calc Int	-3.7	2097	0.00000	0.999998	
Se 196.026	3	Lin, Calc Int	-4.7	1888	0.00000	0.999971	
Si 251.611	4	Lin, Calc Int	-285.2	39140	0.00000	0.999996	
Sn 189.927	4	Lin, Calc Int	-11.1	7371	0.00000	0.999994	
Ti 334.940	4	Lin, Calc Int	-2910.5	831700	0.00000	0.999935	
Tl 190.801	3	Lin, Calc Int	-0.1	2052	0.00000	0.999999	
V 290.880	4	Lin, Calc Int	-300.2	166800	0.00000	0.999991	
Zn 206.200	4	Lin, Calc Int	-13.7	41500	0.00000	1.000000	
K 766.490	4	Non Lin, Calc Int	-13.8	2680	0.15009	1.000000	
Na 589.592	4	Non Lin, Calc Int	249.4	13690	1.42061	1.000000	

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Sr 407.771	4	Lin, Calc Int	291.3	1747000	0.00000	1.000000
Li 670.784	4	Lin, Calc Int	40.7	83450	0.00000	1.000000

Sequence No.: 6
Sample ID: ICV 2nd Vendor
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/12/2011 11:05:04 AM
Data Type: Reprocessed on 1/13/2011 10:15:23 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4885730.0						11582.82	0.24%
YRADIAL	286450.4						4268.79	1.49%
Ga 417.206	1603842.3						12081.75	0.75%
GaRADIAL	77171.6						1558.13	2.02%
Ag 328.068†	82498.2	0.390	mg/L	0.0046	0.390	mg/L	0.0046	1.18%
QC value within limits for Ag 328.068 Recovery = 97.53%								
Al 396.153†	54332.9	10.0	mg/L	0.04	10.0	mg/L	0.04	0.43%
QC value within limits for Al 396.153 Recovery = 100.13%								
As 188.979†	573.2	0.389	mg/L	0.0052	0.389	mg/L	0.0052	1.33%
QC value within limits for As 188.979 Recovery = 97.14%								
Ba 233.527†	69188.0	0.973	mg/L	0.0028	0.973	mg/L	0.0028	0.29%
QC value within limits for Ba 233.527 Recovery = 97.32%								
Be 234.861†	36941.2	0.0487	mg/L	0.00049	0.0487	mg/L	0.00049	1.00%
QC value within limits for Be 234.861 Recovery = 97.50%								
B 249.677†	28494.8	0.488	mg/L	0.0087	0.488	mg/L	0.0087	1.79%
QC value within limits for B 249.677 Recovery = 97.58%								
Ca 227.546†	1188.1	10.2	mg/L	0.08	10.2	mg/L	0.08	0.78%
QC value within limits for Ca 227.546 Recovery = 102.33%								
Cd 228.802†	1149.6	0.0473	mg/L	0.00010	0.0473	mg/L	0.00010	0.22%
QC value less than the lower limit for Cd 228.802 Recovery = 94.52%								
Co 228.616†	4512.5	0.195	mg/L	0.0007	0.195	mg/L	0.0007	0.34%
QC value within limits for Co 228.616 Recovery = 97.25%								
Cr 267.716†	62700.7	0.486	mg/L	0.0039	0.486	mg/L	0.0039	0.79%
QC value within limits for Cr 267.716 Recovery = 97.13%								
Cu 327.393†	76351.2	0.486	mg/L	0.0079	0.486	mg/L	0.0079	1.63%
QC value within limits for Cu 327.393 Recovery = 97.20%								
Fe 239.562†	2711.9	3.92	mg/L	0.057	3.92	mg/L	0.057	1.45%
QC value within limits for Fe 239.562 Recovery = 97.94%								
Mg 279.077†	9873.1	9.81	mg/L	0.130	9.81	mg/L	0.130	1.32%
QC value within limits for Mg 279.077 Recovery = 98.11%								
Mn 257.610†	242996.8	0.495	mg/L	0.0024	0.495	mg/L	0.0024	0.48%
QC value within limits for Mn 257.610 Recovery = 98.97%								
Mo 202.031†	16185.5	0.957	mg/L	0.0057	0.957	mg/L	0.0057	0.59%
QC value within limits for Mo 202.031 Recovery = 95.69%								
Ni 231.604†	20723.2	0.490	mg/L	0.0026	0.490	mg/L	0.0026	0.53%
QC value within limits for Ni 231.604 Recovery = 97.97%								
Pb 220.353†	3793.1	0.493	mg/L	0.0013	0.493	mg/L	0.0013	0.26%
QC value within limits for Pb 220.353 Recovery = 98.58%								
Sb 206.836†	2505.2	1.22	mg/L	0.014	1.22	mg/L	0.014	1.11%
QC value within limits for Sb 206.836 Recovery = 101.85%								
Se 196.026†	737.3	0.395	mg/L	0.0042	0.395	mg/L	0.0042	1.05%
QC value within limits for Se 196.026 Recovery = 98.75%								
Si 251.611†	192836.4	4.92	mg/L	0.067	4.92	mg/L	0.067	1.37%
QC value within limits for Si 251.611 Recovery = 98.39%								
Sn 189.927†	7293.2	0.991	mg/L	0.0052	0.991	mg/L	0.0052	0.52%
QC value within limits for Sn 189.927 Recovery = 99.10%								
Ti 334.940†	826353.8	0.997	mg/L	0.0032	0.997	mg/L	0.0032	0.32%
QC value within limits for Ti 334.940 Recovery = 99.70%								
Tl 190.801†	1001.0	0.499	mg/L	0.0036	0.499	mg/L	0.0036	0.73%
QC value within limits for Tl 190.801 Recovery = 99.84%								
V 290.880†	156893.3	0.942	mg/L	0.0037	0.942	mg/L	0.0037	0.39%
QC value less than the lower limit for V 290.880 Recovery = 94.23%								
Zn 206.200†	39747.8	0.960	mg/L	0.0032	0.960	mg/L	0.0032	0.33%

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   QC value within limits for Zn 206.200  Recovery = 96.04%
K 766.490†           135971.2        50.5 mg/L          0.34        50.5 mg/L          0.34   0.68%
   QC value within limits for K 766.490  Recovery = 101.07%
Na 589.592†          730115.0        53.0 mg/L          0.48        53.0 mg/L          0.48   0.91%
   QC value greater than the upper limit for Na 589.592  Recovery = 106.02%
Sr 407.771†         1745528.5       0.998 mg/L        0.0119       0.998 mg/L        0.0119   1.19%
   QC value within limits for Sr 407.771  Recovery = 99.84%
Li 670.784†           83049.8       0.995 mg/L        0.0016       0.995 mg/L        0.0016   0.16%
   QC value within limits for Li 670.784  Recovery = 99.47%
QC Failed.  Continue with analysis.
```

Sequence No.: 7 **Autosampler Location: 9**
Sample ID: ICV 2nd Vendor **Date Collected: 1/12/2011 11:10:37 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:34 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4751766.2						13936.28	0.29%
YRADIAL	283529.7						2607.20	0.92%
Ga 417.206	1588224.7						12133.30	0.76%
GaRADIAL	76557.6						1255.97	1.64%
Ag 328.068†	83662.2	0.396	mg/L	0.0012	0.396	mg/L	0.0012	0.31%
QC value within limits for Ag 328.068 Recovery = 98.91%								
Al 396.153†	55020.7	10.1	mg/L	0.01	10.1	mg/L	0.01	0.09%
QC value within limits for Al 396.153 Recovery = 101.40%								
As 188.979†	577.8	0.392	mg/L	0.0067	0.392	mg/L	0.0067	1.72%
QC value within limits for As 188.979 Recovery = 97.90%								
Ba 233.527†	71640.7	1.01	mg/L	0.011	1.01	mg/L	0.011	1.07%
QC value within limits for Ba 233.527 Recovery = 100.77%								
Be 234.861†	37615.2	0.0497	mg/L	0.00007	0.0497	mg/L	0.00007	0.15%
QC value within limits for Be 234.861 Recovery = 99.35%								
B 249.677†	29048.4	0.497	mg/L	0.0016	0.497	mg/L	0.0016	0.33%
QC value within limits for B 249.677 Recovery = 99.46%								
Ca 227.546†	1187.5	10.2	mg/L	0.17	10.2	mg/L	0.17	1.64%
QC value within limits for Ca 227.546 Recovery = 102.48%								
Cd 228.802†	1163.4	0.0479	mg/L	0.00046	0.0479	mg/L	0.00046	0.97%
QC value within limits for Cd 228.802 Recovery = 95.74%								
Co 228.616†	4633.1	0.200	mg/L	0.0013	0.200	mg/L	0.0013	0.66%
QC value within limits for Co 228.616 Recovery = 99.85%								
Cr 267.716†	64690.4	0.501	mg/L	0.0057	0.501	mg/L	0.0057	1.14%
QC value within limits for Cr 267.716 Recovery = 100.21%								
Cu 327.393†	77485.8	0.493	mg/L	0.0015	0.493	mg/L	0.0015	0.31%
QC value within limits for Cu 327.393 Recovery = 98.65%								
Fe 239.562†	2736.0	3.95	mg/L	0.029	3.95	mg/L	0.029	0.73%
QC value within limits for Fe 239.562 Recovery = 98.81%								
Mg 279.077†	9960.2	9.90	mg/L	0.068	9.90	mg/L	0.068	0.69%
QC value within limits for Mg 279.077 Recovery = 98.97%								
Mn 257.610†	251582.0	0.512	mg/L	0.0052	0.512	mg/L	0.0052	1.01%
QC value within limits for Mn 257.610 Recovery = 102.44%								
Mo 202.031†	16766.9	0.991	mg/L	0.0112	0.991	mg/L	0.0112	1.13%
QC value within limits for Mo 202.031 Recovery = 99.13%								
Ni 231.604†	21471.1	0.508	mg/L	0.0038	0.508	mg/L	0.0038	0.74%
QC value within limits for Ni 231.604 Recovery = 101.52%								
Pb 220.353†	3902.2	0.507	mg/L	0.0033	0.507	mg/L	0.0033	0.66%
QC value within limits for Pb 220.353 Recovery = 101.42%								
Sb 206.836†	2524.9	1.23	mg/L	0.014	1.23	mg/L	0.014	1.10%
QC value within limits for Sb 206.836 Recovery = 102.71%								
Se 196.026†	748.6	0.401	mg/L	0.0048	0.401	mg/L	0.0048	1.20%
QC value within limits for Se 196.026 Recovery = 100.24%								
Si 251.611†	195879.2	5.00	mg/L	0.027	5.00	mg/L	0.027	0.54%
QC value within limits for Si 251.611 Recovery = 99.93%								
Sn 189.927†	7517.1	1.02	mg/L	0.005	1.02	mg/L	0.005	0.52%

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   QC value within limits for Sn 189.927  Recovery = 102.14%
Ti 334.940†          846248.3       1.02 mg/L        0.002        1.02 mg/L        0.002   0.21%
   QC value within limits for Ti 334.940  Recovery = 102.09%
Tl 190.801†            1024.1      0.511 mg/L       0.0046       0.511 mg/L       0.0046   0.89%
   QC value within limits for Tl 190.801  Recovery = 102.14%
V 290.880†           162529.8      0.976 mg/L       0.0107       0.976 mg/L       0.0107   1.10%
   QC value within limits for V 290.880  Recovery = 97.61%
Zn 206.200†           41315.1      0.998 mg/L       0.0103       0.998 mg/L       0.0103   1.03%
   QC value within limits for Zn 206.200  Recovery = 99.82%
K 766.490†           137260.2       51.0 mg/L         0.21        51.0 mg/L         0.21   0.41%
   QC value within limits for K 766.490  Recovery = 102.03%
Na 589.592†          737988.3       53.6 mg/L         0.83        53.6 mg/L         0.83   1.56%
   QC value greater than the upper limit for Na 589.592  Recovery = 107.16%
Sr 407.771†         1768905.7       1.01 mg/L        0.011        1.01 mg/L        0.011   1.04%
   QC value within limits for Sr 407.771  Recovery = 101.18%
Li 670.784†           83972.8       1.01 mg/L        0.012        1.01 mg/L        0.012   1.20%
   QC value within limits for Li 670.784  Recovery = 100.57%
QC Failed.  Continue with analysis.
```

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Sequence No.: 8 | **Autosampler Location: 1**
Sample ID: ICB | **Date Collected: 1/12/2011 11:17:22 AM**
Analyst: | **Data Type: Reprocessed on 1/13/2011 10:15:35 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	**Back Pressure**	**Flow**
All	179.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	4985269.2						43880.50	0.88%
YRADIAL	292341.4						13001.84	4.45%
Ga 417.206	1625924.4						38212.93	2.35%
GaRADIAL	78512.6						3771.94	4.80%
Ag 328.068†	18.3	-0.00008	mg/L	0.000744	-0.00008	mg/L	0.000744	882.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-7.3	-0.00723	mg/L	0.002569	-0.00723	mg/L	0.002569	35.52%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.3	0.00095	mg/L	0.003431	0.00095	mg/L	0.003431	359.25%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	7.5	-0.00070	mg/L	0.000101	-0.00070	mg/L	0.000101	14.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-1.5	0.00004	mg/L	0.000020	0.00004	mg/L	0.000020	53.73%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	643.1	0.0110	mg/L	0.00043	0.0110	mg/L	0.00043	3.93%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-4.4	-0.0240	mg/L	0.03097	-0.0240	mg/L	0.03097	128.82%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.9	0.00033	mg/L	0.000162	0.00033	mg/L	0.000162	49.82%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.2	-0.00003	mg/L	0.000065	-0.00003	mg/L	0.000065	236.43%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	9.8	-0.00019	mg/L	0.000057	-0.00019	mg/L	0.000057	29.56%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	115.3	0.00060	mg/L	0.000281	0.00060	mg/L	0.000281	46.83%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.1	0.00332	mg/L	0.001158	0.00332	mg/L	0.001158	34.91%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	0.4	0.00235	mg/L	0.004571	0.00235	mg/L	0.004571	194.40%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-123.2	0.00012	mg/L	0.000005	0.00012	mg/L	0.000005	4.17%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	3.4	0.00029	mg/L	0.000257	0.00029	mg/L	0.000257	88.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	11.3	-0.00045	mg/L	0.000049	-0.00045	mg/L	0.000049	10.91%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.5	-0.00066	mg/L	0.000364	-0.00066	mg/L	0.000364	55.33%

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   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                0.4     0.00199 mg/L      0.000854     0.00199 mg/L      0.000854  42.81%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.0     0.00091 mg/L      0.001894     0.00091 mg/L      0.001894 207.56%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -89.7     0.00499 mg/L      0.000956     0.00499 mg/L      0.000956  19.14%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               14.1     0.00343 mg/L      0.000332     0.00343 mg/L      0.000332   9.69%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†               53.2     0.00356 mg/L      0.000125     0.00356 mg/L      0.000125   3.51%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.6    -0.00020 mg/L      0.001140    -0.00020 mg/L      0.001140 581.59%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†                42.7     0.00206 mg/L      0.000872     0.00206 mg/L      0.000872  42.43%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               23.8     0.00090 mg/L      0.000045     0.00090 mg/L      0.000045   4.94%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                83.5      0.0363 mg/L       0.03459      0.0363 mg/L       0.03459  95.25%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              257.2     0.00058 mg/L      0.001834     0.00058 mg/L      0.001834 318.93%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              -31.7    -0.00019 mg/L      0.000058    -0.00019 mg/L      0.000058  31.16%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              127.5     0.00104 mg/L      0.001901     0.00104 mg/L      0.001901 182.68%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 9                                    Autosampler Location: 10
Sample ID: LLCCV                                   Date Collected: 1/12/2011 11:33:33 AM
Analyst:                                           Data Type: Reprocessed on 1/13/2011 10:15:36 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                 Initial Sample Vol:
Dilution:                                          Sample Prep Vol:

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Nebulizer Parameters: LLCCV
Analyte                 Back Pressure    Flow
All                    178.0 kPa         0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: LLCCV
                    Mean Corrected          Calib.                          Sample
Analyte                Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            4985753.0                                                        41979.62   0.84%
YRADIAL               289835.9                                                         4516.90   1.56%
Ga 417.206           1646957.5                                                        10990.07   0.67%
GaRADIAL               77857.9                                                          896.48   1.15%
Ag 328.068†              876.2     0.00397 mg/L      0.000395     0.00397 mg/L      0.000395   9.93%
   QC value within limits for Ag 328.068  Recovery = 99.34%
Al 396.153†              588.8       0.103 mg/L        0.0042       0.103 mg/L        0.0042   4.10%
   QC value within limits for Al 396.153  Recovery = 102.70%
As 188.979†                3.9     0.00447 mg/L      0.001186     0.00447 mg/L      0.001186  26.51%
   QC value within limits for As 188.979  Recovery = 111.86%
Ba 233.527†              712.5     0.00923 mg/L      0.000133     0.00923 mg/L      0.000133   1.44%
   QC value within limits for Ba 233.527  Recovery = 92.28%
Be 234.861†              393.5     0.00056 mg/L      0.000013     0.00056 mg/L      0.000013   2.28%
   QC value less than the lower limit for Be 234.861  Recovery = 27.86%
B 249.677†               769.3      0.0131 mg/L       0.00098      0.0131 mg/L       0.00098   7.42%
   QC value less than the lower limit for B 249.677  Recovery = 13.15%
Ca 227.546†                8.9      0.0898 mg/L       0.03696      0.0898 mg/L       0.03696  41.14%
   QC value less than the lower limit for Ca 227.546  Recovery = 44.92%
Cd 228.802†               11.8     0.00069 mg/L      0.000058     0.00069 mg/L      0.000058   8.43%
   QC value greater than the upper limit for Cd 228.802  Recovery = 137.67%
Co 228.616†               43.4     0.00183 mg/L      0.000239     0.00183 mg/L      0.000239  13.02%
   QC value within limits for Co 228.616  Recovery = 91.69%
Cr 267.716†              655.2     0.00481 mg/L      0.000069     0.00481 mg/L      0.000069   1.44%
   QC value within limits for Cr 267.716  Recovery = 96.19%
Cu 327.393†              761.4     0.00472 mg/L      0.000199     0.00472 mg/L      0.000199   4.22%
   QC value within limits for Cu 327.393  Recovery = 94.34%
Fe 239.562†               26.4      0.0413 mg/L       0.00303      0.0413 mg/L       0.00303   7.33%
   QC value less than the lower limit for Fe 239.562  Recovery = 41.29%
Mg 279.077†               99.0       0.100 mg/L        0.0077       0.100 mg/L        0.0077   7.70%
```

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   QC value less than the lower limit for Mg 279.077  Recovery = 20.06%
Mn 257.610†            2300.1     0.00505 mg/L      0.000033     0.00505 mg/L      0.000033   0.66%
   QC value within limits for Mn 257.610  Recovery = 101.08%
Mo 202.031†             165.2     0.00986 mg/L      0.000432     0.00986 mg/L      0.000432   4.38%
   QC value within limits for Mo 202.031  Recovery = 98.62%
Ni 231.604†             231.9     0.00478 mg/L      0.000129     0.00478 mg/L      0.000129   2.70%
   QC value within limits for Ni 231.604  Recovery = 95.50%
Pb 220.353†              46.3     0.00555 mg/L      0.001680     0.00555 mg/L      0.001680  30.29%
   QC value within limits for Pb 220.353  Recovery = 110.95%
Sb 206.836†              22.8      0.0129 mg/L       0.00231      0.0129 mg/L       0.00231  17.95%
   QC value within limits for Sb 206.836  Recovery = 107.38%
Se 196.026†              -0.6     0.00219 mg/L      0.003169     0.00219 mg/L      0.003169 144.78%
   QC value less than the lower limit for Se 196.026  Recovery = 54.71%
Si 251.611†            1770.7      0.0524 mg/L       0.00077      0.0524 mg/L       0.00077   1.47%
   QC value within limits for Si 251.611  Recovery = 104.75%
Sn 189.927†              67.3      0.0106 mg/L       0.00122      0.0106 mg/L       0.00122  11.51%
   QC value within limits for Sn 189.927  Recovery = 106.39%
Ti 334.940†            7766.6      0.0128 mg/L       0.00016      0.0128 mg/L       0.00016   1.28%
   QC value within limits for Ti 334.940  Recovery = 128.37%
Tl 190.801†               9.2     0.00468 mg/L      0.001621     0.00468 mg/L      0.001621  34.60%
   QC value within limits for Tl 190.801  Recovery = 93.67%
V 290.880†             1626.9      0.0116 mg/L       0.00051      0.0116 mg/L       0.00051   4.45%
   QC value within limits for V 290.880  Recovery = 115.52%
Zn 206.200†             446.4      0.0111 mg/L       0.00016      0.0111 mg/L       0.00016   1.43%
   QC value less than the lower limit for Zn 206.200  Recovery = 55.56%
K 766.490†             1442.2       0.543 mg/L        0.0254       0.543 mg/L        0.0254   4.69%
   QC value less than the lower limit for K 766.490  Recovery = 54.27%
Na 589.592†            7274.0       0.513 mg/L        0.0123       0.513 mg/L        0.0123   2.40%
   QC value within limits for Na 589.592  Recovery = 102.59%
Sr 407.771†           17629.5     0.00992 mg/L      0.000132     0.00992 mg/L      0.000132   1.33%
   QC value within limits for Sr 407.771  Recovery = 99.19%
Li 670.784†             875.3      0.0100 mg/L       0.00134      0.0100 mg/L       0.00134  13.40%
   QC value within limits for Li 670.784  Recovery = 100.01%
QC Failed.  Continue with analysis.

==========================================================================================
Sequence No.: 10                                  Autosampler Location: 7
Sample ID: ICSA                                   Date Collected: 1/12/2011 11:40:16 AM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:15:37 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

------------------------------------------------------------------------------------------
Nebulizer Parameters: ICSA
Analyte                 Back Pressure    Flow
All                     179.0 kPa        0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: ICSA
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            4436305.0                                                      26694.17   0.60%
YRADIAL               271825.6                                                       2676.13   0.98%
Ga 417.206           1489434.2                                                       5530.94   0.37%
GaRADIAL               74362.8                                                        892.01   1.20%
Ag 328.068†            -1740.5    -0.00255 mg/L      0.000222    -0.00255 mg/L      0.000222   8.70%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†          1308426.9         242 mg/L           6.0         242 mg/L           6.0   2.48%
   QC value within limits for Al 396.153  Recovery = 96.63%
As 188.979†              16.0     0.00184 mg/L      0.001820     0.00184 mg/L      0.001820  98.87%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†             228.3     0.00014 mg/L      0.000126     0.00014 mg/L      0.000126  93.06%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†           17747.1    -0.00029 mg/L      0.000936    -0.00029 mg/L      0.000936 318.26%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†            -9476.0      0.0155 mg/L       0.00855      0.0155 mg/L       0.00855  55.25%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†           34666.9         283 mg/L           1.4         283 mg/L           1.4   0.49%
   QC value within limits for Ca 227.546  Recovery = 113.30%
Cd 228.802†               1.7     0.00021 mg/L      0.000194     0.00021 mg/L      0.000194  91.80%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              30.2    -0.00122 mg/L      0.000231    -0.00122 mg/L      0.000231  18.97%
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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              605.3     0.00175 mg/L      0.000464     0.00175 mg/L      0.000464  26.49%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -1121.9    -0.00027 mg/L      0.000185    -0.00027 mg/L      0.000185  67.77%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†            66307.9        95.7 mg/L          0.46        95.7 mg/L          0.46   0.48%
   QC value within limits for Fe 239.562  Recovery = 95.74%
Mg 279.077†           248120.6         246 mg/L           1.1         246 mg/L           1.1   0.43%
   QC value within limits for Mg 279.077  Recovery = 98.55%
Mn 257.610†            -3801.3     0.00255 mg/L      0.000568     0.00255 mg/L      0.000568  22.28%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -74.9     0.00040 mg/L      0.000396     0.00040 mg/L      0.000396 100.10%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -55.8    -0.00207 mg/L      0.000266    -0.00207 mg/L      0.000266  12.85%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -284.8    -0.00238 mg/L      0.001527    -0.00238 mg/L      0.001527  64.23%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               80.2      0.0396 mg/L       0.00343      0.0396 mg/L       0.00343   8.65%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†             -119.8    -0.00110 mg/L      0.002614    -0.00110 mg/L      0.002614 237.74%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             5701.7       0.153 mg/L        0.0004       0.153 mg/L        0.0004   0.26%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -139.8     -0.0175 mg/L       0.00218     -0.0175 mg/L       0.00218  12.52%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -4163.9     0.00132 mg/L      0.000149     0.00132 mg/L      0.000149  11.33%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              116.4      0.0314 mg/L       0.00626      0.0314 mg/L       0.00626  19.96%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -1042.8     0.00593 mg/L      0.001167     0.00593 mg/L      0.001167  19.68%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              212.1     0.00326 mg/L      0.000271     0.00326 mg/L      0.000271   8.31%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                88.0      0.0380 mg/L       0.03661      0.0380 mg/L       0.03661  96.46%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              623.4      0.0273 mg/L       0.00590      0.0273 mg/L       0.00590  21.61%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            24178.6     0.00486 mg/L      0.000076     0.00486 mg/L      0.000076   1.57%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              431.6     0.00468 mg/L      0.000311     0.00468 mg/L      0.000311   6.63%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 11 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 1/12/2011 11:45:59 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:38 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	**Back Pressure**	**Flow**
All	179.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	4429216.6						47384.71	1.07%
YRADIAL	270374.2						4246.26	1.57%
Ga 417.206	1472590.0						11031.80	0.75%
GaRADIAL	73811.5						578.56	0.78%
Ag 328.068†	109493.7	0.522	mg/L	0.0077	0.522	mg/L	0.0077	1.47%
QC value within limits for Ag 328.068 Recovery = 104.45%								
Al 396.153†	1333543.7	246	mg/L	4.5	246	mg/L	4.5	1.83%
QC value within limits for Al 396.153 Recovery = 98.49%								
As 188.979†	369.8	0.244	mg/L	0.0028	0.244	mg/L	0.0028	1.14%
QC value within limits for As 188.979 Recovery = 97.62%								
Ba 233.527†	18211.1	0.253	mg/L	0.0017	0.253	mg/L	0.0017	0.68%
QC value within limits for Ba 233.527 Recovery = 101.25%								
Be 234.861†	214978.7	0.256	mg/L	0.0044	0.256	mg/L	0.0044	1.71%

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   QC value within limits for Be 234.861  Recovery = 102.47%
B 249.677†            -10588.2     -0.0118 mg/L       0.00816     -0.0118 mg/L       0.00816  69.32%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†            35079.7         287 mg/L           1.7         287 mg/L           1.7   0.60%
   QC value within limits for Ca 227.546  Recovery = 114.84%
Cd 228.802†            12312.3       0.509 mg/L        0.0077       0.509 mg/L        0.0077   1.50%
   QC value within limits for Cd 228.802  Recovery = 101.84%
Co 228.616†             5535.4       0.239 mg/L        0.0030       0.239 mg/L        0.0030   1.24%
   QC value within limits for Co 228.616  Recovery = 95.59%
Cr 267.716†            32605.6       0.250 mg/L        0.0008       0.250 mg/L        0.0008   0.30%
   QC value within limits for Cr 267.716  Recovery = 99.86%
Cu 327.393†            39579.5       0.258 mg/L        0.0048       0.258 mg/L        0.0048   1.86%
   QC value within limits for Cu 327.393  Recovery = 103.22%
Fe 239.562†            67911.5        98.1 mg/L          0.32        98.1 mg/L          0.32   0.33%
   QC value within limits for Fe 239.562  Recovery = 98.05%
Mg 279.077†           253841.4         252 mg/L           1.0         252 mg/L           1.0   0.38%
   QC value within limits for Mg 279.077  Recovery = 100.83%
Mn 257.610†           119584.5       0.252 mg/L        0.0004       0.252 mg/L        0.0004   0.16%
   QC value within limits for Mn 257.610  Recovery = 100.98%
Mo 202.031†              -70.5     0.00083 mg/L      0.000559     0.00083 mg/L      0.000559  67.09%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†            20328.3       0.480 mg/L        0.0046       0.480 mg/L        0.0046   0.97%
   QC value within limits for Ni 231.604  Recovery = 96.09%
Pb 220.353†             3545.7       0.490 mg/L        0.0061       0.490 mg/L        0.0061   1.25%
   QC value within limits for Pb 220.353  Recovery = 98.08%
Sb 206.836†             1156.2       0.550 mg/L        0.0046       0.550 mg/L        0.0046   0.84%
   QC value within limits for Sb 206.836  Recovery = 110.00%
Se 196.026†              352.3       0.250 mg/L        0.0059       0.250 mg/L        0.0059   2.35%
   QC value within limits for Se 196.026  Recovery = 99.95%
Si 251.611†               22.1     0.00791 mg/L      0.000576     0.00791 mg/L      0.000576   7.28%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -136.3     -0.0170 mg/L       0.00156     -0.0170 mg/L       0.00156   9.21%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -4131.9     0.00131 mg/L      0.000189     0.00131 mg/L      0.000189  14.39%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†             1137.3       0.528 mg/L        0.0048       0.528 mg/L        0.0048   0.91%
   QC value within limits for Tl 190.801  Recovery = 105.68%
V 290.880†             40572.4       0.256 mg/L        0.0015       0.256 mg/L        0.0015   0.58%
   QC value within limits for V 290.880  Recovery = 102.26%
Zn 206.200†            19740.8       0.475 mg/L        0.0034       0.475 mg/L        0.0034   0.71%
   QC value within limits for Zn 206.200  Recovery = 95.02%
K 766.490†             14127.9        5.27 mg/L         0.030        5.27 mg/L         0.030   0.58%
   QC value within limits for K 766.490  Recovery = 105.37%
Na 589.592†            77341.6        5.63 mg/L         0.036        5.63 mg/L         0.036   0.64%
   QC value within limits for Na 589.592  Recovery = 112.53%
Sr 407.771†            24919.1     0.00507 mg/L      0.000075     0.00507 mg/L      0.000075   1.47%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              370.8     0.00396 mg/L      0.000900     0.00396 mg/L      0.000900  22.74%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 12 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 11:51:41 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:15:39 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	**Back Pressure**	**Flow**
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	4755823.6						90337.59	1.90%
YRADIAL	276164.2						3997.13	1.45%
Ga 417.206	1577168.4						25371.66	1.61%
GaRADIAL	74590.9						1696.92	2.27%
Ag 328.068†	81556.4	0.386	mg/L	0.0108	0.386	mg/L	0.0108	2.81%

Approved: January 13, 2011

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   QC value within limits for Ag 328.068  Recovery = 96.43%
Al 396.153†            54268.8        10.0 mg/L          0.02        10.0 mg/L          0.02   0.25%
   QC value within limits for Al 396.153  Recovery = 100.01%
As 188.979†              557.7       0.378 mg/L        0.0088       0.378 mg/L        0.0088   2.34%
   QC value within limits for As 188.979  Recovery = 94.47%
Ba 233.527†            70393.2       0.990 mg/L        0.0288       0.990 mg/L        0.0288   2.91%
   QC value within limits for Ba 233.527  Recovery = 99.02%
Be 234.861†            36924.9      0.0488 mg/L       0.00115      0.0488 mg/L       0.00115   2.36%
   QC value within limits for Be 234.861  Recovery = 97.52%
B 249.677†             28587.6       0.490 mg/L        0.0135       0.490 mg/L        0.0135   2.75%
   QC value within limits for B 249.677  Recovery = 97.96%
Ca 227.546†             1173.0        10.1 mg/L          0.23        10.1 mg/L          0.23   2.29%
   QC value within limits for Ca 227.546  Recovery = 101.23%
Cd 228.802†             1144.5      0.0471 mg/L       0.00097      0.0471 mg/L       0.00097   2.05%
   QC value within limits for Cd 228.802  Recovery = 94.27%
Co 228.616†             4544.1       0.196 mg/L        0.0041       0.196 mg/L        0.0041   2.10%
   QC value within limits for Co 228.616  Recovery = 97.94%
Cr 267.716†            63815.1       0.494 mg/L        0.0127       0.494 mg/L        0.0127   2.57%
   QC value within limits for Cr 267.716  Recovery = 98.86%
Cu 327.393†            75605.0       0.481 mg/L        0.0128       0.481 mg/L        0.0128   2.65%
   QC value within limits for Cu 327.393  Recovery = 96.26%
Fe 239.562†             2753.6        3.98 mg/L         0.037        3.98 mg/L         0.037   0.93%
   QC value within limits for Fe 239.562  Recovery = 99.45%
Mg 279.077†            10046.2        9.98 mg/L         0.062        9.98 mg/L         0.062   0.62%
   QC value within limits for Mg 279.077  Recovery = 99.83%
Mn 257.610†           243361.4       0.496 mg/L        0.0141       0.496 mg/L        0.0141   2.85%
   QC value within limits for Mn 257.610  Recovery = 99.11%
Mo 202.031†            16743.7       0.990 mg/L        0.0271       0.990 mg/L        0.0271   2.74%
   QC value within limits for Mo 202.031  Recovery = 98.99%
Ni 231.604†            21177.5       0.501 mg/L        0.0145       0.501 mg/L        0.0145   2.90%
   QC value within limits for Ni 231.604  Recovery = 100.12%
Pb 220.353†             3855.1       0.501 mg/L        0.0103       0.501 mg/L        0.0103   2.06%
   QC value within limits for Pb 220.353  Recovery = 100.20%
Sb 206.836†             2446.0        1.19 mg/L         0.027        1.19 mg/L         0.027   2.26%
   QC value within limits for Sb 206.836  Recovery = 99.55%
Se 196.026†              733.0       0.393 mg/L        0.0078       0.393 mg/L        0.0078   1.98%
   QC value within limits for Se 196.026  Recovery = 98.18%
Si 251.611†           187315.2        4.78 mg/L         0.138        4.78 mg/L         0.138   2.88%
   QC value within limits for Si 251.611  Recovery = 95.56%
Sn 189.927†             7291.9       0.991 mg/L        0.0191       0.991 mg/L        0.0191   1.93%
   QC value within limits for Sn 189.927  Recovery = 99.08%
Ti 334.940†           825040.2       0.995 mg/L        0.0024       0.995 mg/L        0.0024   0.25%
   QC value within limits for Ti 334.940  Recovery = 99.54%
Tl 190.801†             1021.3       0.509 mg/L        0.0055       0.509 mg/L        0.0055   1.08%
   QC value within limits for Tl 190.801  Recovery = 101.81%
V 290.880†            162322.3       0.975 mg/L        0.0261       0.975 mg/L        0.0261   2.68%
   QC value within limits for V 290.880  Recovery = 97.49%
Zn 206.200†            41303.5       0.998 mg/L        0.0226       0.998 mg/L        0.0226   2.27%
   QC value within limits for Zn 206.200  Recovery = 99.79%
K 766.490†            134590.2        50.0 mg/L          0.28        50.0 mg/L          0.28   0.55%
   QC value within limits for K 766.490  Recovery = 100.05%
Na 589.592†           689290.6        50.1 mg/L          0.69        50.1 mg/L          0.69   1.38%
   QC value within limits for Na 589.592  Recovery = 100.12%
Sr 407.771†          1743054.6       0.997 mg/L        0.0156       0.997 mg/L        0.0156   1.57%
   QC value within limits for Sr 407.771  Recovery = 99.70%
Li 670.784†            83013.8       0.994 mg/L        0.0088       0.994 mg/L        0.0088   0.89%
   QC value within limits for Li 670.784  Recovery = 99.42%
All analyte(s) passed QC.
```

Sequence No.: 13
Sample ID: CCB
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/12/2011 11:58:18 AM
Data Type: Reprocessed on 1/13/2011 10:15:48 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**
All	180.0 kPa	0.50 L/min

Approved: January 13, 2011

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5031115.5						56250.56	1.12%
YRADIAL	289530.7						6637.26	2.29%
Ga 417.206	1663589.9						17626.93	1.06%
GaRADIAL	77907.8						929.19	1.19%
Ag 328.068†	127.4	0.00043	mg/L	0.000303	0.00043	mg/L	0.000303	70.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	72.1	0.00743	mg/L	0.014717	0.00743	mg/L	0.014717	198.02%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	2.0	0.00321	mg/L	0.001189	0.00321	mg/L	0.001189	37.09%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	7.6	-0.00070	mg/L	0.000066	-0.00070	mg/L	0.000066	9.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	9.5	0.00005	mg/L	0.000003	0.00005	mg/L	0.000003	6.07%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	381.9	0.00654	mg/L	0.000283	0.00654	mg/L	0.000283	4.33%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	4.5	0.0486	mg/L	0.06443	0.0486	mg/L	0.06443	132.43%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	5.2	0.00041	mg/L	0.000104	0.00041	mg/L	0.000104	25.61%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.9	0.00000	mg/L	0.000091	0.00000	mg/L	0.000091	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1.4	-0.00028	mg/L	0.000050	-0.00028	mg/L	0.000050	18.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	38.8	0.00012	mg/L	0.000306	0.00012	mg/L	0.000306	265.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	2.3	0.00650	mg/L	0.003437	0.00650	mg/L	0.003437	52.85%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	8.0	0.00986	mg/L	0.005844	0.00986	mg/L	0.005844	59.27%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-159.9	0.00005	mg/L	0.000023	0.00005	mg/L	0.000023	45.91%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.8	-0.00007	mg/L	0.000277	-0.00007	mg/L	0.000277	391.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	14.5	-0.00037	mg/L	0.000086	-0.00037	mg/L	0.000086	22.94%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	7.5	0.00050	mg/L	0.000610	0.00050	mg/L	0.000610	122.22%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.6	-0.00088	mg/L	0.002116	-0.00088	mg/L	0.002116	239.90%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-6.9	-0.00113	mg/L	0.002643	-0.00113	mg/L	0.002643	232.90%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-91.3	0.00496	mg/L	0.001249	0.00496	mg/L	0.001249	25.20%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	8.7	0.00269	mg/L	0.000578	0.00269	mg/L	0.000578	21.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-70.0	0.00342	mg/L	0.000137	0.00342	mg/L	0.000137	4.02%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.7	0.00092	mg/L	0.003995	0.00092	mg/L	0.003995	435.45%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	33.2	0.00200	mg/L	0.001149	0.00200	mg/L	0.001149	57.47%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	11.3	0.00060	mg/L	0.000130	0.00060	mg/L	0.000130	21.63%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	30.9	0.0167	mg/L	0.03969	0.0167	mg/L	0.03969	237.72%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	242.9	-0.00047	mg/L	0.007064	-0.00047	mg/L	0.007064	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	74.5	-0.00012	mg/L	0.000023	-0.00012	mg/L	0.000023	18.22%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	-9.9	-0.00061	mg/L	0.001381	-0.00061	mg/L	0.001381	227.74%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 14 **Autosampler Location: 40**
Sample ID: PBW 54 WG353477-01 **Date Collected: 1/12/2011 12:04:37 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:15:49 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**

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Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 54 WG353477-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: PBW 54 WG353477-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5176943.8						64138.51	1.24%
YRADIAL	301203.7						7692.83	2.55%
Ga 417.206	1640229.1						14356.01	0.88%
GaRADIAL	81191.8						1146.27	1.41%
Ag 328.068†	43.1	0.00003	mg/L	0.000287	0.00003	mg/L	0.000287	888.93%
Al 396.153†	34.1	0.00040	mg/L	0.018018	0.00040	mg/L	0.018018	>999.9%
As 188.979†	-3.0	-0.00020	mg/L	0.003052	-0.00020	mg/L	0.003052	>999.9%
Ba 233.527†	1658.5	0.0225	mg/L	0.00022	0.0225	mg/L	0.00022	0.99%
Be 234.861†	-91.0	-0.00008	mg/L	0.000014	-0.00008	mg/L	0.000014	17.68%
B 249.677†	326.3	0.00560	mg/L	0.000298	0.00560	mg/L	0.000298	5.32%
Ca 227.546†	8.3	0.0796	mg/L	0.05016	0.0796	mg/L	0.05016	62.98%
Cd 228.802†	3.0	0.00033	mg/L	0.000046	0.00033	mg/L	0.000046	13.73%
Co 228.616†	-2.8	-0.00017	mg/L	0.000153	-0.00017	mg/L	0.000153	91.04%
Cr 267.716†	11.0	-0.00018	mg/L	0.000077	-0.00018	mg/L	0.000077	41.81%
Cu 327.393†	68.2	0.00030	mg/L	0.000655	0.00030	mg/L	0.000655	216.67%
Fe 239.562†	0.6	0.00395	mg/L	0.002588	0.00395	mg/L	0.002588	65.51%
Mg 279.077†	12.6	0.0145	mg/L	0.00192	0.0145	mg/L	0.00192	13.30%
Mn 257.610†	-231.0	-0.00009	mg/L	0.000028	-0.00009	mg/L	0.000028	31.13%
Mo 202.031†	-3.4	-0.00011	mg/L	0.000452	-0.00011	mg/L	0.000452	428.38%
Ni 231.604†	7.9	-0.00053	mg/L	0.000092	-0.00053	mg/L	0.000092	17.45%
Pb 220.353†	1.6	-0.00026	mg/L	0.000906	-0.00026	mg/L	0.000906	352.53%
Sb 206.836†	1.4	0.00242	mg/L	0.000550	0.00242	mg/L	0.000550	22.73%
Se 196.026†	-1.9	0.00148	mg/L	0.002753	0.00148	mg/L	0.002753	185.82%
Si 251.611†	-118.4	0.00426	mg/L	0.000131	0.00426	mg/L	0.000131	3.06%
Sn 189.927†	-0.7	0.00141	mg/L	0.000255	0.00141	mg/L	0.000255	18.05%
Ti 334.940†	47.6	0.00356	mg/L	0.000099	0.00356	mg/L	0.000099	2.77%
Tl 190.801†	-1.4	-0.00060	mg/L	0.002222	-0.00060	mg/L	0.002222	372.56%
V 290.880†	46.7	0.00208	mg/L	0.000669	0.00208	mg/L	0.000669	32.15%
Zn 206.200†	40.4	0.00131	mg/L	0.000037	0.00131	mg/L	0.000037	2.86%
K 766.490†	-2.4	0.00428	mg/L	0.029071	0.00428	mg/L	0.029071	679.05%
Na 589.592†	297.2	0.00349	mg/L	0.017323	0.00349	mg/L	0.017323	495.86%
Sr 407.771†	1583.4	0.00074	mg/L	0.000018	0.00074	mg/L	0.000018	2.50%
Li 670.784†	-82.1	-0.00147	mg/L	0.001384	-0.00147	mg/L	0.001384	94.07%

Sequence No.: 15 **Autosampler Location: 41**
Sample ID: LCSW 54 WG353477-02 **Date Collected: 1/12/2011 12:11:17 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:15:50 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 54 WG353477-02

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: LCSW 54 WG353477-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5055810.2						27174.42	0.54%
YRADIAL	289674.4						1863.67	0.64%
Ga 417.206	1616866.0						3512.32	0.22%
GaRADIAL	77743.9						1515.64	1.95%
Ag 328.068†	40037.7	0.189	mg/L	0.0014	0.189	mg/L	0.0014	0.71%
Al 396.153†	25828.6	4.76	mg/L	0.015	4.76	mg/L	0.015	0.32%
As 188.979†	261.4	0.178	mg/L	0.0032	0.178	mg/L	0.0032	1.80%
Ba 233.527†	32932.9	0.463	mg/L	0.0064	0.463	mg/L	0.0064	1.39%
Be 234.861†	17060.1	0.0226	mg/L	0.00021	0.0226	mg/L	0.00021	0.91%
B 249.677†	53234.5	0.903	mg/L	0.0094	0.903	mg/L	0.0094	1.04%
Ca 227.546†	548.0	4.74	mg/L	0.076	4.74	mg/L	0.076	1.60%

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Pierce Morris

Cd 228.802†	545.9	0.0226 mg/L	0.00004	0.0226 mg/L	0.00004	0.20%
Co 228.616†	2136.6	0.0921 mg/L	0.00066	0.0921 mg/L	0.00066	0.72%
Cr 267.716†	30053.8	0.233 mg/L	0.0038	0.233 mg/L	0.0038	1.62%
Cu 327.393†	37031.8	0.236 mg/L	0.0025	0.236 mg/L	0.0025	1.07%
Fe 239.562†	1311.8	1.90 mg/L	0.016	1.90 mg/L	0.016	0.86%
Mg 279.077†	4799.9	4.77 mg/L	0.035	4.77 mg/L	0.035	0.73%
Mn 257.610†	113960.2	0.232 mg/L	0.0031	0.232 mg/L	0.0031	1.36%
Mo 202.031†	8086.6	0.478 mg/L	0.0040	0.478 mg/L	0.0040	0.84%
Ni 231.604†	10010.7	0.236 mg/L	0.0018	0.236 mg/L	0.0018	0.75%
Pb 220.353†	1792.2	0.233 mg/L	0.0012	0.233 mg/L	0.0012	0.53%
Sb 206.836†	1177.4	0.571 mg/L	0.0066	0.571 mg/L	0.0066	1.16%
Se 196.026†	338.2	0.183 mg/L	0.0015	0.183 mg/L	0.0015	0.83%
Si 251.611†	91572.7	2.34 mg/L	0.029	2.34 mg/L	0.029	1.22%
Sn 189.927†	-11.9	-0.00011 mg/L	0.000072	-0.00011 mg/L	0.000072	67.66%
Ti 334.940†	386765.6	0.468 mg/L	0.0020	0.468 mg/L	0.0020	0.42%
Tl 190.801†	467.7	0.233 mg/L	0.0055	0.233 mg/L	0.0055	2.35%
V 290.880†	76279.6	0.459 mg/L	0.0067	0.459 mg/L	0.0067	1.46%
Zn 206.200†	18687.7	0.452 mg/L	0.0075	0.452 mg/L	0.0075	1.65%
K 766.490†	63286.8	23.6 mg/L	0.09	23.6 mg/L	0.09	0.37%
Na 589.592†	351596.0	25.6 mg/L	0.28	25.6 mg/L	0.28	1.09%
Sr 407.771†	823463.1	0.471 mg/L	0.0046	0.471 mg/L	0.0046	0.97%
Li 670.784†	39723.4	0.476 mg/L	0.0036	0.476 mg/L	0.0036	0.76%

Sequence No.: 16 **Autosampler Location: 42**
Sample ID: LCSW DUP WG353477-03 **Date Collected: 1/12/2011 12:17:55 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:15:51 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW DUP WG353477-03

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: LCSW DUP WG353477-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4979761.0						61008.27	1.23%
YRADIAL	293273.4						6373.67	2.17%
Ga 417.206	1616621.5						22592.80	1.40%
GaRADIAL	78254.9						341.30	0.44%
Ag 328.068†	40012.3	0.189	mg/L	0.0043	0.189	mg/L	0.0043	2.29%
Al 396.153†	25569.9	4.71	mg/L	0.035	4.71	mg/L	0.035	0.74%
As 188.979†	259.1	0.176	mg/L	0.0021	0.176	mg/L	0.0021	1.17%
Ba 233.527†	33429.7	0.470	mg/L	0.0085	0.470	mg/L	0.0085	1.81%
Be 234.861†	17124.2	0.0227	mg/L	0.00040	0.0227	mg/L	0.00040	1.77%
B 249.677†	53604.2	0.909	mg/L	0.0168	0.909	mg/L	0.0168	1.85%
Ca 227.546†	541.5	4.69	mg/L	0.033	4.69	mg/L	0.033	0.71%
Cd 228.802†	536.6	0.0222	mg/L	0.00056	0.0222	mg/L	0.00056	2.51%
Co 228.616†	2139.3	0.0922	mg/L	0.00098	0.0922	mg/L	0.00098	1.06%
Cr 267.716†	30407.0	0.235	mg/L	0.0039	0.235	mg/L	0.0039	1.67%
Cu 327.393†	36865.9	0.235	mg/L	0.0052	0.235	mg/L	0.0052	2.23%
Fe 239.562†	1258.9	1.82	mg/L	0.020	1.82	mg/L	0.020	1.09%
Mg 279.077†	4689.3	4.66	mg/L	0.077	4.66	mg/L	0.077	1.66%
Mn 257.610†	115816.1	0.236	mg/L	0.0045	0.236	mg/L	0.0045	1.90%
Mo 202.031†	8100.0	0.479	mg/L	0.0036	0.479	mg/L	0.0036	0.75%
Ni 231.604†	10027.7	0.237	mg/L	0.0021	0.237	mg/L	0.0021	0.87%
Pb 220.353†	1799.8	0.234	mg/L	0.0029	0.234	mg/L	0.0029	1.23%
Sb 206.836†	1167.0	0.566	mg/L	0.0061	0.566	mg/L	0.0061	1.07%
Se 196.026†	333.8	0.180	mg/L	0.0025	0.180	mg/L	0.0025	1.39%
Si 251.611†	91726.7	2.34	mg/L	0.049	2.34	mg/L	0.049	2.08%
Sn 189.927†	-9.9	0.00017	mg/L	0.000780	0.00017	mg/L	0.000780	459.99%
Ti 334.940†	385480.8	0.467	mg/L	0.0021	0.467	mg/L	0.0021	0.46%
Tl 190.801†	471.1	0.235	mg/L	0.0028	0.235	mg/L	0.0028	1.19%
V 290.880†	77492.2	0.466	mg/L	0.0108	0.466	mg/L	0.0108	2.32%
Zn 206.200†	18955.1	0.458	mg/L	0.0069	0.458	mg/L	0.0069	1.51%
K 766.490†	62954.9	23.4	mg/L	0.12	23.4	mg/L	0.12	0.53%
Na 589.592†	348037.7	25.3	mg/L	0.22	25.3	mg/L	0.22	0.88%
Sr 407.771†	812339.2	0.465	mg/L	0.0047	0.465	mg/L	0.0047	1.01%
Li 670.784†	38586.2	0.462	mg/L	0.0020	0.462	mg/L	0.0020	0.43%

Approved: January 13, 2011

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Sequence No.: 17 **Autosampler Location: 43**
Sample ID: L1101011703 **Date Collected: 1/12/2011 12:24:38 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:15:53 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011703

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101011703

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5160324.6						56172.77	1.09%
YRADIAL	300325.1						4456.03	1.48%
Ga 417.206	1699536.4						21434.90	1.26%
GaRADIAL	80946.3						1886.49	2.33%
Ag 328.068†	7.8	-0.00003	mg/L	0.000482	-0.00003	mg/L	0.000482	>999.9%
Al 396.153†	6172.1	1.13	mg/L	0.018	1.13	mg/L	0.018	1.57%
As 188.979†	2.6	0.00369	mg/L	0.003707	0.00369	mg/L	0.003707	100.56%
Ba 233.527†	1231.7	0.0165	mg/L	0.00024	0.0165	mg/L	0.00024	1.45%
Be 234.861†	478.4	0.00012	mg/L	0.000029	0.00012	mg/L	0.000029	25.09%
B 249.677†	1052.2	0.0274	mg/L	0.00091	0.0274	mg/L	0.00091	3.30%
Ca 227.546†	881.3	7.21	mg/L	0.098	7.21	mg/L	0.098	1.36%
Cd 228.802†	13.6	0.00076	mg/L	0.000040	0.00076	mg/L	0.000040	5.30%
Co 228.616†	18.7	0.00063	mg/L	0.000271	0.00063	mg/L	0.000271	42.96%
Cr 267.716†	694.3	0.00521	mg/L	0.000034	0.00521	mg/L	0.000034	0.66%
Cu 327.393†	28469.6	0.181	mg/L	0.0035	0.181	mg/L	0.0035	1.92%
Fe 239.562†	1614.0	2.33	mg/L	0.048	2.33	mg/L	0.048	2.06%
Mg 279.077†	6610.5	6.57	mg/L	0.121	6.57	mg/L	0.121	1.85%
Mn 257.610†	74409.2	0.151	mg/L	0.0025	0.151	mg/L	0.0025	1.63%
Mo 202.031†	59.4	0.00375	mg/L	0.000388	0.00375	mg/L	0.000388	10.37%
Ni 231.604†	133.4	0.00244	mg/L	0.000358	0.00244	mg/L	0.000358	14.70%
Pb 220.353†	23.9	0.00284	mg/L	0.000592	0.00284	mg/L	0.000592	20.84%
Sb 206.836†	9.1	0.00610	mg/L	0.002729	0.00610	mg/L	0.002729	44.77%
Se 196.026†	-9.4	-0.00046	mg/L	0.002000	-0.00046	mg/L	0.002000	437.90%
Si 251.611†	74163.2	1.90	mg/L	0.020	1.90	mg/L	0.020	1.07%
Sn 189.927†	-25.6	-0.00196	mg/L	0.000338	-0.00196	mg/L	0.000338	17.25%
Ti 334.940†	31920.9	0.0419	mg/L	0.00115	0.0419	mg/L	0.00115	2.73%
Tl 190.801†	17.6	0.00872	mg/L	0.000537	0.00872	mg/L	0.000537	6.15%
V 290.880†	211.1	0.00335	mg/L	0.000305	0.00335	mg/L	0.000305	9.12%
Zn 206.200†	56014.7	1.35	mg/L	0.013	1.35	mg/L	0.013	0.94%
K 766.490†	23889.5	8.91	mg/L	0.021	8.91	mg/L	0.021	0.24%
Na 589.592†	47280.0	3.43	mg/L	0.050	3.43	mg/L	0.050	1.44%
Sr 407.771†	75212.2	0.0427	mg/L	0.00030	0.0427	mg/L	0.00030	0.71%
Li 670.784†	68.0	0.00033	mg/L	0.001505	0.00033	mg/L	0.001505	459.16%

Sequence No.: 18 **Autosampler Location: 44**
Sample ID: L1101011703PS WG353646-01 **Date Collected: 1/12/2011 12:31:15 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:15:54 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011703PS WG353646-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101011703PS WG353646-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5122244.5						59937.97	1.17%
YRADIAL	297680.4						137.04	0.05%
Ga 417.206	1700636.8						18533.54	1.09%
GaRADIAL	79787.1						1747.59	2.19%

Approved: January 13, 2011

Pierce Morris

Ag 328.068†	38728.4	0.183	mg/L	0.0010	0.183	mg/L	0.0010	0.57%
Al 396.153†	31432.4	5.79	mg/L	0.044	5.79	mg/L	0.044	0.75%
As 188.979†	259.4	0.177	mg/L	0.0008	0.177	mg/L	0.0008	0.43%
Ba 233.527†	34068.0	0.479	mg/L	0.0085	0.479	mg/L	0.0085	1.78%
Be 234.861†	17204.8	0.0223	mg/L	0.00023	0.0223	mg/L	0.00023	1.05%
B 249.677†	52402.6	0.897	mg/L	0.0083	0.897	mg/L	0.0083	0.93%
Ca 227.546†	1325.8	11.1	mg/L	0.11	11.1	mg/L	0.11	1.03%
Cd 228.802†	529.0	0.0219	mg/L	0.00031	0.0219	mg/L	0.00031	1.41%
Co 228.616†	2145.1	0.0923	mg/L	0.00118	0.0923	mg/L	0.00118	1.28%
Cr 267.716†	30709.7	0.238	mg/L	0.0035	0.238	mg/L	0.0035	1.49%
Cu 327.393†	60932.3	0.388	mg/L	0.0036	0.388	mg/L	0.0036	0.94%
Fe 239.562†	2697.0	3.90	mg/L	0.050	3.90	mg/L	0.050	1.28%
Mg 279.077†	10493.5	10.4	mg/L	0.09	10.4	mg/L	0.09	0.82%
Mn 257.610†	180565.3	0.367	mg/L	0.0066	0.367	mg/L	0.0066	1.80%
Mo 202.031†	8085.6	0.478	mg/L	0.0064	0.478	mg/L	0.0064	1.33%
Ni 231.604†	10007.7	0.236	mg/L	0.0028	0.236	mg/L	0.0028	1.20%
Pb 220.353†	1796.3	0.233	mg/L	0.0037	0.233	mg/L	0.0037	1.58%
Sb 206.836†	1140.7	0.553	mg/L	0.0058	0.553	mg/L	0.0058	1.05%
Se 196.026†	322.8	0.176	mg/L	0.0014	0.176	mg/L	0.0014	0.77%
Si 251.611†	157800.9	4.03	mg/L	0.040	4.03	mg/L	0.040	1.00%
Sn 189.927†	-36.0	-0.00337	mg/L	0.000847	-0.00337	mg/L	0.000847	25.13%
Ti 334.940†	418127.6	0.506	mg/L	0.0017	0.506	mg/L	0.0017	0.33%
Tl 190.801†	480.8	0.240	mg/L	0.0013	0.240	mg/L	0.0013	0.52%
V 290.880†	77182.3	0.465	mg/L	0.0086	0.465	mg/L	0.0086	1.86%
Zn 206.200†	68486.9	1.65	mg/L	0.024	1.65	mg/L	0.024	1.47%
K 766.490†	84654.3	31.5	mg/L	0.17	31.5	mg/L	0.17	0.55%
Na 589.592†	396588.9	28.9	mg/L	0.33	28.9	mg/L	0.33	1.14%
Sr 407.771†	895536.6	0.512	mg/L	0.0060	0.512	mg/L	0.0060	1.17%
Li 670.784†	40375.3	0.483	mg/L	0.0028	0.483	mg/L	0.0028	0.59%

Sequence No.: 19
Sample ID: L1101011703DL WG353646-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 1/12/2011 12:37:55 PM
Data Type: Reprocessed on 1/13/2011 10:16:03 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101011703DL WG353646-02

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1101011703DL WG353646-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5126959.9						42897.31	0.84%
YRADIAL	297309.1						6675.57	2.25%
Ga 417.206	1689436.8						36296.81	2.15%
GaRADIAL	79899.0						668.87	0.84%
Ag 328.068†	27.0	-0.00002	mg/L	0.000440	-0.00002	mg/L	0.000440	>999.9%
Al 396.153†	1497.7	0.271	mg/L	0.0117	0.271	mg/L	0.0117	4.31%
As 188.979†	-0.1	0.00178	mg/L	0.001554	0.00178	mg/L	0.001554	87.10%
Ba 233.527†	257.6	0.00281	mg/L	0.000154	0.00281	mg/L	0.000154	5.46%
Be 234.861†	126.4	0.00008	mg/L	0.000056	0.00008	mg/L	0.000056	69.12%
B 249.677†	852.6	0.0166	mg/L	0.00057	0.0166	mg/L	0.00057	3.46%
Ca 227.546†	178.0	1.47	mg/L	0.072	1.47	mg/L	0.072	4.89%
Cd 228.802†	3.8	0.00036	mg/L	0.000117	0.00036	mg/L	0.000117	32.59%
Co 228.616†	2.8	0.00005	mg/L	0.000327	0.00005	mg/L	0.000327	625.10%
Cr 267.716†	130.7	0.00077	mg/L	0.000162	0.00077	mg/L	0.000162	21.17%
Cu 327.393†	5814.1	0.0368	mg/L	0.00178	0.0368	mg/L	0.00178	4.82%
Fe 239.562†	358.2	0.520	mg/L	0.0088	0.520	mg/L	0.0088	1.69%
Mg 279.077†	1476.4	1.47	mg/L	0.016	1.47	mg/L	0.016	1.08%
Mn 257.610†	15109.6	0.0310	mg/L	0.00191	0.0310	mg/L	0.00191	6.15%
Mo 202.031†	9.6	0.00069	mg/L	0.000228	0.00069	mg/L	0.000228	33.05%
Ni 231.604†	39.9	0.00023	mg/L	0.000211	0.00023	mg/L	0.000211	92.32%
Pb 220.353†	1.1	-0.00027	mg/L	0.000450	-0.00027	mg/L	0.000450	166.05%
Sb 206.836†	-4.0	-0.00013	mg/L	0.001044	-0.00013	mg/L	0.001044	828.71%
Se 196.026†	-10.9	-0.00284	mg/L	0.001695	-0.00284	mg/L	0.001695	59.61%
Si 251.611†	15943.2	0.415	mg/L	0.0343	0.415	mg/L	0.0343	8.28%
Sn 189.927†	-7.3	0.00051	mg/L	0.000371	0.00051	mg/L	0.000371	72.17%
Ti 334.940†	6595.2	0.0114	mg/L	0.00105	0.0114	mg/L	0.00105	9.20%

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Tl 190.801†	6.9	0.00346 mg/L	0.002311	0.00346 mg/L	0.002311	66.80%
V 290.880†	18.4	0.00197 mg/L	0.001025	0.00197 mg/L	0.001025	51.92%
Zn 206.200†	11638.4	0.281 mg/L	0.0174	0.281 mg/L	0.0174	6.18%
K 766.490†	5467.2	2.04 mg/L	0.024	2.04 mg/L	0.024	1.17%
Na 589.592†	10989.8	0.784 mg/L	0.0178	0.784 mg/L	0.0178	2.27%
Sr 407.771†	17259.1	0.00966 mg/L	0.000061	0.00966 mg/L	0.000061	0.63%
Li 670.784†	17.6	-0.00028 mg/L	0.000961	-0.00028 mg/L	0.000961	347.58%

Sequence No.: 20
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/12/2011 12:44:35 PM
Data Type: Reprocessed on 1/13/2011 10:16:04 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4769116.0						18600.78	0.39%
YRADIAL	277791.4						6658.64	2.40%
Ga 417.206	1605082.3						17016.86	1.06%
GaRADIAL	74851.0						441.54	0.59%
Ag 328.068†	81381.8	0.385	mg/L	0.0069	0.385	mg/L	0.0069	1.78%
QC value within limits for Ag 328.068 Recovery = 96.23%								
Al 396.153†	54664.3	10.1	mg/L	0.02	10.1	mg/L	0.02	0.21%
QC value within limits for Al 396.153 Recovery = 100.74%								
As 188.979†	556.8	0.377	mg/L	0.0029	0.377	mg/L	0.0029	0.78%
QC value within limits for As 188.979 Recovery = 94.31%								
Ba 233.527†	71304.5	1.00	mg/L	0.007	1.00	mg/L	0.007	0.67%
QC value within limits for Ba 233.527 Recovery = 100.30%								
Be 234.861†	36655.7	0.0484	mg/L	0.00076	0.0484	mg/L	0.00076	1.56%
QC value within limits for Be 234.861 Recovery = 96.86%								
B 249.677†	29021.6	0.497	mg/L	0.0099	0.497	mg/L	0.0099	2.00%
QC value within limits for B 249.677 Recovery = 99.42%								
Ca 227.546†	1154.7	9.98	mg/L	0.189	9.98	mg/L	0.189	1.90%
QC value within limits for Ca 227.546 Recovery = 99.78%								
Cd 228.802†	1124.9	0.0463	mg/L	0.00068	0.0463	mg/L	0.00068	1.47%
QC value within limits for Cd 228.802 Recovery = 92.67%								
Co 228.616†	4547.2	0.196	mg/L	0.0014	0.196	mg/L	0.0014	0.69%
QC value within limits for Co 228.616 Recovery = 98.00%								
Cr 267.716†	64540.8	0.500	mg/L	0.0037	0.500	mg/L	0.0037	0.75%
QC value within limits for Cr 267.716 Recovery = 99.98%								
Cu 327.393†	75618.1	0.481	mg/L	0.0103	0.481	mg/L	0.0103	2.14%
QC value within limits for Cu 327.393 Recovery = 96.28%								
Fe 239.562†	2750.4	3.97	mg/L	0.032	3.97	mg/L	0.032	0.81%
QC value within limits for Fe 239.562 Recovery = 99.33%								
Mg 279.077†	10041.7	9.98	mg/L	0.123	9.98	mg/L	0.123	1.23%
QC value within limits for Mg 279.077 Recovery = 99.78%								
Mn 257.610†	246380.7	0.502	mg/L	0.0049	0.502	mg/L	0.0049	0.97%
QC value within limits for Mn 257.610 Recovery = 100.33%								
Mo 202.031†	16942.8	1.00	mg/L	0.011	1.00	mg/L	0.011	1.08%
QC value within limits for Mo 202.031 Recovery = 100.17%								
Ni 231.604†	21310.9	0.504	mg/L	0.0041	0.504	mg/L	0.0041	0.82%
QC value within limits for Ni 231.604 Recovery = 100.76%								
Pb 220.353†	3869.9	0.503	mg/L	0.0030	0.503	mg/L	0.0030	0.60%
QC value within limits for Pb 220.353 Recovery = 100.59%								
Sb 206.836†	2408.8	1.18	mg/L	0.018	1.18	mg/L	0.018	1.51%
QC value within limits for Sb 206.836 Recovery = 98.09%								
Se 196.026†	725.4	0.389	mg/L	0.0082	0.389	mg/L	0.0082	2.10%
QC value within limits for Se 196.026 Recovery = 97.16%								
Si 251.611†	186884.0	4.77	mg/L	0.078	4.77	mg/L	0.078	1.65%
QC value within limits for Si 251.611 Recovery = 95.33%								
Sn 189.927†	7313.3	0.994	mg/L	0.0083	0.994	mg/L	0.0083	0.84%
QC value within limits for Sn 189.927 Recovery = 99.37%								
Ti 334.940†	829617.7	1.00	mg/L	0.003	1.00	mg/L	0.003	0.31%
QC value within limits for Ti 334.940 Recovery = 100.09%								

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Tl 190.801†            1017.4       0.507 mg/L        0.0069       0.507 mg/L        0.0069   1.35%
   QC value within limits for Tl 190.801  Recovery = 101.45%
V 290.880†           164800.8       0.990 mg/L        0.0095       0.990 mg/L        0.0095   0.96%
   QC value within limits for V 290.880  Recovery = 98.97%
Zn 206.200†           41628.1        1.01 mg/L         0.005        1.01 mg/L         0.005   0.53%
   QC value within limits for Zn 206.200  Recovery = 100.58%
K 766.490†           135419.8        50.3 mg/L          0.20        50.3 mg/L          0.20   0.40%
   QC value within limits for K 766.490  Recovery = 100.67%
Na 589.592†          695010.9        50.5 mg/L          0.67        50.5 mg/L          0.67   1.32%
   QC value within limits for Na 589.592  Recovery = 100.95%
Sr 407.771†         1751011.0        1.00 mg/L         0.008        1.00 mg/L         0.008   0.84%
   QC value within limits for Sr 407.771  Recovery = 100.16%
Li 670.784†           83918.3        1.01 mg/L         0.012        1.01 mg/L         0.012   1.21%
   QC value within limits for Li 670.784  Recovery = 100.51%
All analyte(s) passed QC.

==========================================================================================
Sequence No.: 21                                  Autosampler Location: 1
Sample ID: CCB                                    Date Collected: 1/12/2011 12:51:16 PM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:16:05 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: CCB
Analyte                 Back Pressure    Flow
All                     179.0 kPa        0.50 L/min

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Mean Data: CCB
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5018523.0                                                     79347.21   1.58%
YRADIAL               288766.1                                                      5733.09   1.99%
Ga 417.206           1680171.3                                                     40736.03   2.42%
GaRADIAL               77786.1                                                      2506.19   3.22%
Ag 328.068†               96.6     0.00029 mg/L      0.000418     0.00029 mg/L      0.000418 146.62%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†               18.5    -0.00247 mg/L      0.009137    -0.00247 mg/L      0.009137 369.69%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -0.6     0.00141 mg/L      0.002286     0.00141 mg/L      0.002286 162.60%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†                8.8    -0.00068 mg/L      0.000015    -0.00068 mg/L      0.000015   2.23%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†               11.8     0.00005 mg/L      0.000015     0.00005 mg/L      0.000015  28.06%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               893.6      0.0152 mg/L       0.00049      0.0152 mg/L       0.00049   3.20%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               -2.9     -0.0112 mg/L       0.02598     -0.0112 mg/L       0.02598 231.07%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†                0.8     0.00024 mg/L      0.000222     0.00024 mg/L      0.000222  93.62%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                1.1     0.00001 mg/L      0.000284     0.00001 mg/L      0.000284 >999.9%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -0.9    -0.00027 mg/L      0.000086    -0.00027 mg/L      0.000086  31.44%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†               77.3     0.00036 mg/L      0.000413     0.00036 mg/L      0.000413 114.50%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                0.7     0.00419 mg/L      0.003189     0.00419 mg/L      0.003189  76.02%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†                1.5     0.00342 mg/L      0.006957     0.00342 mg/L      0.006957 203.56%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -246.2    -0.00012 mg/L      0.000014    -0.00012 mg/L      0.000014  10.89%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                2.8     0.00026 mg/L      0.000423     0.00026 mg/L      0.000423 164.04%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               15.2    -0.00036 mg/L      0.000028    -0.00036 mg/L      0.000028   7.93%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                0.4    -0.00042 mg/L      0.001138    -0.00042 mg/L      0.001138 272.99%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -1.9     0.00087 mg/L      0.002635     0.00087 mg/L      0.002635 302.14%
   QC value within limits for Sb 206.836  Recovery = Not calculated
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Se 196.026†              -7.1    -0.00126 mg/L      0.001793    -0.00126 mg/L      0.001793 142.18%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -56.7     0.00584 mg/L      0.000844     0.00584 mg/L      0.000844  14.46%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               8.7     0.00269 mg/L      0.000675     0.00269 mg/L      0.000675  25.09%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              15.9     0.00352 mg/L      0.000244     0.00352 mg/L      0.000244   6.94%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               0.6     0.00041 mg/L      0.001889     0.00041 mg/L      0.001889 464.09%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               55.9     0.00213 mg/L      0.001394     0.00213 mg/L      0.001394  65.31%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              18.2     0.00077 mg/L      0.000129     0.00077 mg/L      0.000129  16.82%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               33.9      0.0178 mg/L       0.06900      0.0178 mg/L       0.06900 387.57%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             257.6     0.00060 mg/L      0.000869     0.00060 mg/L      0.000869 144.64%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              84.5    -0.00012 mg/L      0.000028    -0.00012 mg/L      0.000028  23.71%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -30.6    -0.00085 mg/L      0.001290    -0.00085 mg/L      0.001290 151.13%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 22                                  Autosampler Location: 10
Sample ID: LLCCV                                  Date Collected: 1/12/2011 12:57:53 PM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:16:06 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: LLCCV
Analyte                 Back Pressure    Flow
All                     180.0 kPa        0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: LLCCV
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5007984.5                                                      14762.39   0.29%
YRADIAL               290866.4                                                       7766.15   2.67%
Ga 417.206           1641287.1                                                      10403.20   0.63%
GaRADIAL               78175.0                                                        481.77   0.62%
Ag 328.068†              946.8     0.00431 mg/L      0.000213     0.00431 mg/L      0.000213   4.94%
   QC value within limits for Ag 328.068  Recovery = 107.66%
Al 396.153†              556.5      0.0967 mg/L       0.00699      0.0967 mg/L       0.00699   7.23%
   QC value within limits for Al 396.153  Recovery = 96.72%
As 188.979†                2.8     0.00369 mg/L      0.002544     0.00369 mg/L      0.002544  68.96%
   QC value within limits for As 188.979  Recovery = 92.21%
Ba 233.527†              727.0     0.00943 mg/L      0.000105     0.00943 mg/L      0.000105   1.12%
   QC value within limits for Ba 233.527  Recovery = 94.31%
Be 234.861†              392.1     0.00055 mg/L      0.000022     0.00055 mg/L      0.000022   3.93%
   QC value less than the lower limit for Be 234.861  Recovery = 27.68%
B 249.677†               984.0      0.0168 mg/L       0.00089      0.0168 mg/L       0.00089   5.31%
   QC value less than the lower limit for B 249.677  Recovery = 16.82%
Ca 227.546†                5.0      0.0586 mg/L       0.01478      0.0586 mg/L       0.01478  25.22%
   QC value less than the lower limit for Ca 227.546  Recovery = 29.29%
Cd 228.802†               10.5     0.00064 mg/L      0.000126     0.00064 mg/L      0.000126  19.63%
   QC value within limits for Cd 228.802  Recovery = 128.51%
Co 228.616†               47.3     0.00201 mg/L      0.000124     0.00201 mg/L      0.000124   6.20%
   QC value within limits for Co 228.616  Recovery = 100.32%
Cr 267.716†              663.9     0.00488 mg/L      0.000127     0.00488 mg/L      0.000127   2.60%
   QC value within limits for Cr 267.716  Recovery = 97.54%
Cu 327.393†              856.0     0.00532 mg/L      0.000678     0.00532 mg/L      0.000678  12.74%
   QC value within limits for Cu 327.393  Recovery = 106.36%
Fe 239.562†               31.4      0.0485 mg/L       0.00309      0.0485 mg/L       0.00309   6.37%
   QC value less than the lower limit for Fe 239.562  Recovery = 48.48%
Mg 279.077†              105.1       0.106 mg/L        0.0073       0.106 mg/L        0.0073   6.86%
   QC value less than the lower limit for Mg 279.077  Recovery = 21.27%
Mn 257.610†             2287.4     0.00503 mg/L      0.000041     0.00503 mg/L      0.000041   0.81%
   QC value within limits for Mn 257.610  Recovery = 100.59%
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Approved: January 13, 2011

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Mo 202.031†              166.0     0.00991 mg/L      0.000210     0.00991 mg/L      0.000210   2.12%
   QC value within limits for Mo 202.031  Recovery = 99.05%
Ni 231.604†              226.4     0.00464 mg/L      0.000168     0.00464 mg/L      0.000168   3.62%
   QC value within limits for Ni 231.604  Recovery = 92.87%
Pb 220.353†               37.9     0.00447 mg/L      0.000451     0.00447 mg/L      0.000451  10.10%
   QC value within limits for Pb 220.353  Recovery = 89.39%
Sb 206.836†               21.1      0.0121 mg/L       0.00069      0.0121 mg/L       0.00069   5.66%
   QC value within limits for Sb 206.836  Recovery = 100.95%
Se 196.026†               -3.8     0.00049 mg/L      0.002922     0.00049 mg/L      0.002922 593.72%
   QC value less than the lower limit for Se 196.026  Recovery = 12.31%
Si 251.611†             1881.6      0.0552 mg/L       0.00128      0.0552 mg/L       0.00128   2.31%
   QC value within limits for Si 251.611  Recovery = 110.41%
Sn 189.927†               71.5      0.0112 mg/L       0.00093      0.0112 mg/L       0.00093   8.26%
   QC value within limits for Sn 189.927  Recovery = 112.09%
Ti 334.940†             7895.3      0.0130 mg/L       0.00006      0.0130 mg/L       0.00006   0.42%
   QC value within limits for Ti 334.940  Recovery = 129.91%
Tl 190.801†                8.9     0.00458 mg/L      0.000912     0.00458 mg/L      0.000912  19.90%
   QC value within limits for Tl 190.801  Recovery = 91.67%
V 290.880†              1616.4      0.0115 mg/L       0.00029      0.0115 mg/L       0.00029   2.57%
   QC value within limits for V 290.880  Recovery = 114.89%
Zn 206.200†              458.4      0.0114 mg/L       0.00013      0.0114 mg/L       0.00013   1.14%
   QC value less than the lower limit for Zn 206.200  Recovery = 56.99%
K 766.490†              1367.5       0.515 mg/L        0.0408       0.515 mg/L        0.0408   7.93%
   QC value less than the lower limit for K 766.490  Recovery = 51.48%
Na 589.592†             7508.2       0.530 mg/L        0.0131       0.530 mg/L        0.0131   2.48%
   QC value within limits for Na 589.592  Recovery = 106.01%
Sr 407.771†            17910.4      0.0101 mg/L       0.00009      0.0101 mg/L       0.00009   0.85%
   QC value within limits for Sr 407.771  Recovery = 100.79%
Li 670.784†              833.5     0.00950 mg/L      0.001329     0.00950 mg/L      0.001329  13.99%
   QC value within limits for Li 670.784  Recovery = 95.00%
QC Failed.  Continue with analysis.

==========================================================================================
Sequence No.: 23                                  Autosampler Location: 38
Sample ID: Ca 500 ppm                             Date Collected: 1/12/2011 1:04:33 PM
Analyst: PDM                                      Data Type: Reprocessed on 1/13/2011 10:16:07 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

------------------------------------------------------------------------------------------
Nebulizer Parameters: Ca 500 ppm
Analyte                 Back Pressure    Flow
All                    179.0 kPa         0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: Ca 500 ppm
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            4449583.4                                                      25992.23   0.58%
YRADIAL               269952.1                                                       8429.51   3.12%
Ga 417.206           1492990.1                                                       6232.48   0.42%
GaRADIAL               73789.3                                                       2279.07   3.09%
Ag 328.068†             5957.8      0.0279 mg/L       0.00065      0.0279 mg/L       0.00065   2.34%
Al 396.153†               16.5    -0.00284 mg/L      0.026820    -0.00284 mg/L      0.026820 943.30%
As 188.979†               32.2      0.0123 mg/L       0.00189      0.0123 mg/L       0.00189  15.41%
Ba 233.527†              107.2     0.00071 mg/L      0.001052     0.00071 mg/L      0.001052 148.55%
Be 234.861†               54.4     0.00008 mg/L      0.000016     0.00008 mg/L      0.000016  19.19%
B 249.677†               746.5      0.0132 mg/L       0.00028      0.0132 mg/L       0.00028   2.09%
Ca 227.546†            70549.0         575 mg/L          12.1         575 mg/L          12.1   2.10%
Cd 228.802†                4.0     0.00022 mg/L      0.000137     0.00022 mg/L      0.000137  63.01%
Co 228.616†                1.0     0.00003 mg/L      0.000329     0.00003 mg/L      0.000329 >999.9%
Cr 267.716†              -48.0    -0.00063 mg/L      0.000038    -0.00063 mg/L      0.000038   6.02%
Cu 327.393†             -565.1    -0.00371 mg/L      0.000519    -0.00371 mg/L      0.000519  14.00%
Fe 239.562†               76.5       0.114 mg/L        0.0047       0.114 mg/L        0.0047   4.12%
Mg 279.077†              -11.5    -0.00953 mg/L      0.002238    -0.00953 mg/L      0.002238  23.47%
Mn 257.610†              -58.3     0.00030 mg/L      0.000022     0.00030 mg/L      0.000022   7.28%
Mo 202.031†                3.6     0.00031 mg/L      0.000866     0.00031 mg/L      0.000866 277.33%
Ni 231.604†               -6.8    -0.00091 mg/L      0.000143    -0.00091 mg/L      0.000143  15.68%
Pb 220.353†              -75.1      0.0175 mg/L       0.00197      0.0175 mg/L       0.00197  11.29%
Sb 206.836†               82.1      0.0407 mg/L       0.00329      0.0407 mg/L       0.00329   8.08%
Se 196.026†              -66.9       0.111 mg/L        0.0024       0.111 mg/L        0.0024   2.14%
Si 251.611†              287.3      0.0146 mg/L       0.00032      0.0146 mg/L       0.00032   2.19%
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Sn 189.927†	-174.1	-0.0221 mg/L	0.00060	-0.0221 mg/L	0.00060	2.70%
Ti 334.940†	-8843.7	-0.00139 mg/L	0.000144	-0.00139 mg/L	0.000144	10.38%
Tl 190.801†	127.6	0.0105 mg/L	0.00737	0.0105 mg/L	0.00737	70.49%
V 290.880†	357.9	0.00394 mg/L	0.000836	0.00394 mg/L	0.000836	21.23%
Zn 206.200†	525.1	0.0130 mg/L	0.00008	0.0130 mg/L	0.00008	0.62%
K 766.490†	-52.5	-0.0144 mg/L	0.01998	-0.0144 mg/L	0.01998	138.47%
Na 589.592†	569.9	0.0234 mg/L	0.01095	0.0234 mg/L	0.01095	46.77%
Sr 407.771†	47940.1	0.0273 mg/L	0.00047	0.0273 mg/L	0.00047	1.73%
Li 670.784†	73.6	0.00039 mg/L	0.000852	0.00039 mg/L	0.000852	216.15%

Sequence No.: 24 **Autosampler Location: 39**
Sample ID: Ag 10 ppm **Date Collected: 1/12/2011 1:11:12 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:13 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Ag 10 ppm

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: Ag 10 ppm

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4969863.0						57927.31	1.17%
YRADIAL	287876.3						1796.66	0.62%
Ga 417.206	1655185.9						19580.81	1.18%
GaRADIAL	77548.7						1749.07	2.26%
Ag 328.068†	1984590.9	9.35	mg/L	0.031	9.35	mg/L	0.031	0.33%
Al 396.153†	12.8	-0.00353	mg/L	0.006024	-0.00353	mg/L	0.006024	170.53%
As 188.979†	4.2	0.00471	mg/L	0.001408	0.00471	mg/L	0.001408	29.91%
Ba 233.527†	13.3	-0.00062	mg/L	0.000068	-0.00062	mg/L	0.000068	11.06%
Be 234.861†	99.3	0.00017	mg/L	0.000008	0.00017	mg/L	0.000008	4.89%
B 249.677†	562.4	0.00961	mg/L	0.000175	0.00961	mg/L	0.000175	1.83%
Ca 227.546†	2.1	0.0295	mg/L	0.05743	0.0295	mg/L	0.05743	194.87%
Cd 228.802†	-3.1	0.00005	mg/L	0.000155	0.00005	mg/L	0.000155	286.92%
Co 228.616†	6.0	0.00023	mg/L	0.000004	0.00023	mg/L	0.000004	1.59%
Cr 267.716†	-19.6	-0.00042	mg/L	0.000052	-0.00042	mg/L	0.000052	12.43%
Cu 327.393†	362.4	0.00217	mg/L	0.000791	0.00217	mg/L	0.000791	36.48%
Fe 239.562†	1.4	0.00518	mg/L	0.002782	0.00518	mg/L	0.002782	53.67%
Mg 279.077†	7.0	0.00884	mg/L	0.004669	0.00884	mg/L	0.004669	52.80%
Mn 257.610†	-108.1	0.00189	mg/L	0.000037	0.00189	mg/L	0.000037	1.97%
Mo 202.031†	-1.7	0.00000	mg/L	0.000236	0.00000	mg/L	0.000236	>999.9%
Ni 231.604†	19.6	-0.00025	mg/L	0.000094	-0.00025	mg/L	0.000094	37.73%
Pb 220.353†	-2.3	-0.00076	mg/L	0.001438	-0.00076	mg/L	0.001438	188.72%
Sb 206.836†	-2.8	0.00047	mg/L	0.002140	0.00047	mg/L	0.002140	455.70%
Se 196.026†	-6.9	-0.00117	mg/L	0.001973	-0.00117	mg/L	0.001973	168.10%
Si 251.611†	559.0	0.0216	mg/L	0.00022	0.0216	mg/L	0.00022	1.01%
Sn 189.927†	1.7	0.00174	mg/L	0.000460	0.00174	mg/L	0.000460	26.44%
Ti 334.940†	-59.8	0.00343	mg/L	0.000148	0.00343	mg/L	0.000148	4.33%
Tl 190.801†	-4.4	-0.00202	mg/L	0.001019	-0.00202	mg/L	0.001019	50.48%
V 290.880†	23.7	0.00194	mg/L	0.000698	0.00194	mg/L	0.000698	35.95%
Zn 206.200†	68.6	0.00198	mg/L	0.000052	0.00198	mg/L	0.000052	2.61%
K 766.490†	-12.9	0.00036	mg/L	0.000555	0.00036	mg/L	0.000555	152.99%
Na 589.592†	153.9	-0.00697	mg/L	0.003191	-0.00697	mg/L	0.003191	45.78%
Sr 407.771†	88.6	-0.00012	mg/L	0.000055	-0.00012	mg/L	0.000055	47.60%
Li 670.784†	91.3	0.00061	mg/L	0.000622	0.00061	mg/L	0.000622	102.58%

Sequence No.: 25 **Autosampler Location: 38**
Sample ID: Ca 500 ppm **Date Collected: 1/12/2011 1:24:29 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:18 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Ca 500 ppm

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Approved: January 13, 2011
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Mean Data: Ca 500 ppm

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4542671.5						42601.05	0.94%
YRADIAL	267670.2						5131.68	1.92%
Ga 417.206	1529129.9						16451.74	1.08%
GaRADIAL	73082.2						742.43	1.02%
Ag 328.068†	6069.4	0.0284	mg/L	0.00058	0.0284	mg/L	0.00058	2.02%
Al 396.153†	-49.1	-0.0150	mg/L	0.00714	-0.0150	mg/L	0.00714	47.71%
As 188.979†	30.9	0.0120	mg/L	0.00323	0.0120	mg/L	0.00323	26.85%
Ba 233.527†	68.1	0.00016	mg/L	0.000061	0.00016	mg/L	0.000061	38.76%
Be 234.861†	65.7	0.00010	mg/L	0.000023	0.00010	mg/L	0.000023	23.11%
B 249.677†	450.9	0.00817	mg/L	0.000255	0.00817	mg/L	0.000255	3.13%
Ca 227.546†	66806.3	544	mg/L	13.4	544	mg/L	13.4	2.46%
Cd 228.802†	3.1	0.00019	mg/L	0.000229	0.00019	mg/L	0.000229	122.09%
Co 228.616†	3.8	0.00015	mg/L	0.000122	0.00015	mg/L	0.000122	80.73%
Cr 267.716†	756.5	0.00560	mg/L	0.000208	0.00560	mg/L	0.000208	3.71%
Cu 327.393†	-625.6	-0.00410	mg/L	0.001038	-0.00410	mg/L	0.001038	25.35%
Fe 239.562†	67.6	0.101	mg/L	0.0109	0.101	mg/L	0.0109	10.78%
Mg 279.077†	1.0	0.00283	mg/L	0.002358	0.00283	mg/L	0.002358	83.36%
Mn 257.610†	4294.6	0.00907	mg/L	0.000004	0.00907	mg/L	0.000004	0.04%
Mo 202.031†	-0.9	0.00005	mg/L	0.000172	0.00005	mg/L	0.000172	353.30%
Ni 231.604†	-25.5	-0.00136	mg/L	0.000046	-0.00136	mg/L	0.000046	3.41%
Pb 220.353†	-80.1	0.0154	mg/L	0.00093	0.0154	mg/L	0.00093	6.04%
Sb 206.836†	76.1	0.0377	mg/L	0.00167	0.0377	mg/L	0.00167	4.43%
Se 196.026†	-65.1	0.104	mg/L	0.0037	0.104	mg/L	0.0037	3.52%
Si 251.611†	731.3	0.0260	mg/L	0.00088	0.0260	mg/L	0.00088	3.39%
Sn 189.927†	-170.5	-0.0216	mg/L	0.00055	-0.0216	mg/L	0.00055	2.56%
Ti 334.940†	-8499.3	-0.00128	mg/L	0.000097	-0.00128	mg/L	0.000097	7.57%
Tl 190.801†	126.6	0.0127	mg/L	0.00378	0.0127	mg/L	0.00378	29.74%
V 290.880†	198.5	0.00298	mg/L	0.000935	0.00298	mg/L	0.000935	31.36%
Zn 206.200†	192.4	0.00499	mg/L	0.000087	0.00499	mg/L	0.000087	1.74%
K 766.490†	60.5	0.0277	mg/L	0.04443	0.0277	mg/L	0.04443	160.25%
Na 589.592†	506.7	0.0188	mg/L	0.00511	0.0188	mg/L	0.00511	27.19%
Sr 407.771†	53964.6	0.0307	mg/L	0.00079	0.0307	mg/L	0.00079	2.56%
Li 670.784†	90.2	0.00059	mg/L	0.000890	0.00059	mg/L	0.000890	149.94%

Sequence No.: 26
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/12/2011 1:30:28 PM
Data Type: Reprocessed on 1/13/2011 10:16:19 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4708278.4						15915.52	0.34%
YRADIAL	280597.5						5269.46	1.88%
Ga 417.206	1572066.5						10392.30	0.66%
GaRADIAL	75680.6						862.72	1.14%
Ag 328.068†	83895.6	0.397	mg/L	0.0054	0.397	mg/L	0.0054	1.36%
QC value within limits for Ag 328.068 Recovery = 99.19%								
Al 396.153†	54246.9	10.00	mg/L	0.047	10.00	mg/L	0.047	0.47%
QC value within limits for Al 396.153 Recovery = 99.96%								
As 188.979†	564.9	0.383	mg/L	0.0027	0.383	mg/L	0.0027	0.71%
QC value within limits for As 188.979 Recovery = 95.68%								
Ba 233.527†	72134.4	1.01	mg/L	0.008	1.01	mg/L	0.008	0.80%
QC value within limits for Ba 233.527 Recovery = 101.47%								
Be 234.861†	37528.3	0.0496	mg/L	0.00072	0.0496	mg/L	0.00072	1.45%
QC value within limits for Be 234.861 Recovery = 99.19%								
B 249.677†	29312.2	0.502	mg/L	0.0057	0.502	mg/L	0.0057	1.14%
QC value within limits for B 249.677 Recovery = 100.38%								
Ca 227.546†	1193.5	10.3	mg/L	0.13	10.3	mg/L	0.13	1.27%

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   QC value within limits for Ca 227.546  Recovery = 102.99%
Cd 228.802†            1162.5      0.0479 mg/L       0.00059      0.0479 mg/L       0.00059   1.24%
   QC value within limits for Cd 228.802  Recovery = 95.76%
Co 228.616†            4612.2       0.199 mg/L        0.0004       0.199 mg/L        0.0004   0.20%
   QC value within limits for Co 228.616  Recovery = 99.42%
Cr 267.716†           65385.7       0.506 mg/L        0.0022       0.506 mg/L        0.0022   0.44%
   QC value within limits for Cr 267.716  Recovery = 101.29%
Cu 327.393†           78056.0       0.497 mg/L        0.0061       0.497 mg/L        0.0061   1.22%
   QC value within limits for Cu 327.393  Recovery = 99.37%
Fe 239.562†            2729.2        3.94 mg/L         0.033        3.94 mg/L         0.033   0.83%
   QC value within limits for Fe 239.562  Recovery = 98.57%
Mg 279.077†            9966.5        9.90 mg/L         0.082        9.90 mg/L         0.082   0.83%
   QC value within limits for Mg 279.077  Recovery = 99.04%
Mn 257.610†          249222.1       0.507 mg/L        0.0039       0.507 mg/L        0.0039   0.77%
   QC value within limits for Mn 257.610  Recovery = 101.48%
Mo 202.031†           17137.0        1.01 mg/L         0.007        1.01 mg/L         0.007   0.65%
   QC value within limits for Mo 202.031  Recovery = 101.32%
Ni 231.604†           21532.6       0.509 mg/L        0.0043       0.509 mg/L        0.0043   0.84%
   QC value within limits for Ni 231.604  Recovery = 101.81%
Pb 220.353†            3913.7       0.509 mg/L        0.0015       0.509 mg/L        0.0015   0.29%
   QC value within limits for Pb 220.353  Recovery = 101.73%
Sb 206.836†            2472.5        1.21 mg/L         0.003        1.21 mg/L         0.003   0.25%
   QC value within limits for Sb 206.836  Recovery = 100.65%
Se 196.026†             743.9       0.399 mg/L        0.0038       0.399 mg/L        0.0038   0.95%
   QC value within limits for Se 196.026  Recovery = 99.63%
Si 251.611†          191411.3        4.88 mg/L         0.067        4.88 mg/L         0.067   1.38%
   QC value within limits for Si 251.611  Recovery = 97.64%
Sn 189.927†            7390.9        1.00 mg/L         0.002        1.00 mg/L         0.002   0.15%
   QC value within limits for Sn 189.927  Recovery = 100.42%
Ti 334.940†          827753.8       0.999 mg/L        0.0012       0.999 mg/L        0.0012   0.12%
   QC value within limits for Ti 334.940  Recovery = 99.87%
Tl 190.801†            1026.4       0.512 mg/L        0.0011       0.512 mg/L        0.0011   0.22%
   QC value within limits for Tl 190.801  Recovery = 102.32%
V 290.880†           166782.8        1.00 mg/L         0.008        1.00 mg/L         0.008   0.82%
   QC value within limits for V 290.880  Recovery = 100.16%
Zn 206.200†           41880.8        1.01 mg/L         0.005        1.01 mg/L         0.005   0.47%
   QC value within limits for Zn 206.200  Recovery = 101.19%
K 766.490†           134808.2        50.1 mg/L          0.37        50.1 mg/L          0.37   0.74%
   QC value within limits for K 766.490  Recovery = 100.21%
Na 589.592†          695870.7        50.5 mg/L          0.68        50.5 mg/L          0.68   1.34%
   QC value within limits for Na 589.592  Recovery = 101.07%
Sr 407.771†         1748618.1        1.00 mg/L         0.010        1.00 mg/L         0.010   0.99%
   QC value within limits for Sr 407.771  Recovery = 100.02%
Li 670.784†           84185.1        1.01 mg/L         0.010        1.01 mg/L         0.010   1.03%
   QC value within limits for Li 670.784  Recovery = 100.83%
All analyte(s) passed QC.

==========================================================================================
Sequence No.: 27                                  Autosampler Location: 1
Sample ID: CCB                                    Date Collected: 1/12/2011 1:37:17 PM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:16:20 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

------------------------------------------------------------------------------------------
Nebulizer Parameters: CCB
Analyte                 Back Pressure    Flow
All                     179.0 kPa        0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: CCB
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5022295.5                                                      27296.23   0.54%
YRADIAL               282404.6                                                       1964.07   0.70%
Ga 417.206           1657323.2                                                       2184.93   0.13%
GaRADIAL               76424.9                                                       1519.40   1.99%
Ag 328.068†              139.3     0.00049 mg/L      0.000256     0.00049 mg/L      0.000256  52.59%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              -62.2    -0.0174 mg/L       0.00912     -0.0174 mg/L       0.00912  52.49%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -3.2   -0.00030 mg/L      0.002194    -0.00030 mg/L      0.002194 726.29%
```

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```
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†                8.6    -0.00068 mg/L      0.000064    -0.00068 mg/L      0.000064   9.39%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†                5.2     0.00004 mg/L      0.000011     0.00004 mg/L      0.000011  24.04%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               437.4     0.00750 mg/L      0.000325     0.00750 mg/L      0.000325   4.33%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†                1.9      0.0278 mg/L       0.07281      0.0278 mg/L       0.07281 261.72%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†                0.0     0.00022 mg/L      0.000177     0.00022 mg/L      0.000177  81.44%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                3.5     0.00012 mg/L      0.000173     0.00012 mg/L      0.000173 146.34%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -9.0    -0.00034 mg/L      0.000056    -0.00034 mg/L      0.000056  16.63%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†               90.9     0.00045 mg/L      0.000798     0.00045 mg/L      0.000798 179.11%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                0.4     0.00373 mg/L      0.001423     0.00373 mg/L      0.001423  38.14%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†                1.8     0.00371 mg/L      0.005332     0.00371 mg/L      0.005332 143.54%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -212.0    -0.00006 mg/L      0.000013    -0.00006 mg/L      0.000013  23.68%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -2.2    -0.00003 mg/L      0.000128    -0.00003 mg/L      0.000128 367.71%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               22.9    -0.00017 mg/L      0.000172    -0.00017 mg/L      0.000172  98.66%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                5.8     0.00028 mg/L      0.001217     0.00028 mg/L      0.001217 435.29%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -0.8     0.00139 mg/L      0.001887     0.00139 mg/L      0.001887 135.44%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -5.6    -0.00047 mg/L      0.002591    -0.00047 mg/L      0.002591 553.86%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -118.0     0.00427 mg/L      0.000795     0.00427 mg/L      0.000795  18.61%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                2.1     0.00180 mg/L      0.000841     0.00180 mg/L      0.000841  46.72%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†               -61.6     0.00343 mg/L      0.000081     0.00343 mg/L      0.000081   2.35%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.5     0.00085 mg/L      0.001518     0.00085 mg/L      0.001518 178.43%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†                37.0     0.00202 mg/L      0.000523     0.00202 mg/L      0.000523  25.88%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               14.2     0.00067 mg/L      0.000096     0.00067 mg/L      0.000096  14.33%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                40.2      0.0201 mg/L       0.01369      0.0201 mg/L       0.01369  67.97%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              367.6     0.00864 mg/L      0.001147     0.00864 mg/L      0.001147  13.28%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†               -5.8    -0.00017 mg/L      0.000051    -0.00017 mg/L      0.000051  30.00%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               54.3     0.00016 mg/L      0.001122     0.00016 mg/L      0.001122 685.80%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

==========================================================================================
Sequence No.: 28                                  Autosampler Location: 46
Sample ID: PBW A9 WG353703-02                     Date Collected: 1/12/2011 1:44:03 PM
Analyst: PDM                                      Data Type: Reprocessed on 1/13/2011 10:16:21 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

------------------------------------------------------------------------------------------
Nebulizer Parameters: PBW A9 WG353703-02
Analyte                 Back Pressure    Flow
All                     179.0 kPa        0.50 L/min

------------------------------------------------------------------------------------------
Mean Data: PBW A9 WG353703-02
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5015611.3                                                      68368.80   1.36%
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YRADIAL	294491.0					1969.63	0.67%
Ga 417.206	1651354.7					30483.75	1.85%
GaRADIAL	79387.5					2026.34	2.55%
Ag 328.068†	131.7	0.00045	mg/L	0.000032	0.00045 mg/L	0.000032	7.02%
Al 396.153†	45.4	0.00249	mg/L	0.012511	0.00249 mg/L	0.012511	502.34%
As 188.979†	-2.1	0.00040	mg/L	0.002499	0.00040 mg/L	0.002499	622.96%
Ba 233.527†	15.1	-0.00059	mg/L	0.000053	-0.00059 mg/L	0.000053	9.06%
Be 234.861†	17.5	0.00006	mg/L	0.000006	0.00006 mg/L	0.000006	9.93%
B 249.677†	348.8	0.00598	mg/L	0.000579	0.00598 mg/L	0.000579	9.68%
Ca 227.546†	-0.5	0.00812	mg/L	0.011573	0.00812 mg/L	0.011573	142.45%
Cd 228.802†	1.4	0.00027	mg/L	0.000082	0.00027 mg/L	0.000082	30.23%
Co 228.616†	2.8	0.00009	mg/L	0.000041	0.00009 mg/L	0.000041	48.09%
Cr 267.716†	-4.1	-0.00030	mg/L	0.000216	-0.00030 mg/L	0.000216	71.88%
Cu 327.393†	131.3	0.00070	mg/L	0.000243	0.00070 mg/L	0.000243	34.57%
Fe 239.562†	0.5	0.00382	mg/L	0.001474	0.00382 mg/L	0.001474	38.58%
Mg 279.077†	3.9	0.00582	mg/L	0.003300	0.00582 mg/L	0.003300	56.69%
Mn 257.610†	-218.8	-0.00007	mg/L	0.000022	-0.00007 mg/L	0.000022	32.26%
Mo 202.031†	-0.0	0.00009	mg/L	0.000288	0.00009 mg/L	0.000288	311.06%
Ni 231.604†	13.1	-0.00041	mg/L	0.000280	-0.00041 mg/L	0.000280	68.81%
Pb 220.353†	7.4	0.00049	mg/L	0.000469	0.00049 mg/L	0.000469	95.95%
Sb 206.836†	-5.3	-0.00077	mg/L	0.000980	-0.00077 mg/L	0.000980	127.29%
Se 196.026†	-7.1	-0.00127	mg/L	0.002684	-0.00127 mg/L	0.002684	211.95%
Si 251.611†	-175.0	0.00281	mg/L	0.000321	0.00281 mg/L	0.000321	11.40%
Sn 189.927†	-3.4	0.00105	mg/L	0.000372	0.00105 mg/L	0.000372	35.60%
Ti 334.940†	-67.6	0.00342	mg/L	0.000073	0.00342 mg/L	0.000073	2.15%
Tl 190.801†	4.2	0.00218	mg/L	0.000966	0.00218 mg/L	0.000966	44.27%
V 290.880†	95.8	0.00237	mg/L	0.000550	0.00237 mg/L	0.000550	23.17%
Zn 206.200†	57.5	0.00172	mg/L	0.000088	0.00172 mg/L	0.000088	5.10%
K 766.490†	114.0	0.0477	mg/L	0.00878	0.0477 mg/L	0.00878	18.40%
Na 589.592†	347.6	0.00718	mg/L	0.010339	0.00718 mg/L	0.010339	144.05%
Sr 407.771†	23.3	-0.00015	mg/L	0.000066	-0.00015 mg/L	0.000066	42.68%
Li 670.784†	146.3	0.00127	mg/L	0.000524	0.00127 mg/L	0.000524	41.38%

Sequence No.: 29
Sample ID: LCSW A9 WG353703-03
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 1/12/2011 1:50:43 PM
Data Type: Reprocessed on 1/13/2011 10:16:22 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW A9 WG353703-03

Analyte	**Back Pressure**	**Flow**
All	180.0 kPa	0.50 L/min

Mean Data: LCSW A9 WG353703-03

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	4857785.4						15956.52	0.33%
YRADIAL	291232.7						10578.05	3.63%
Ga 417.206	1639027.6						13806.57	0.84%
GaRADIAL	78231.9						796.32	1.02%
Ag 328.068†	42180.9	0.199	mg/L	0.0030	0.199	mg/L	0.0030	1.48%
Al 396.153†	27414.0	5.05	mg/L	0.013	5.05	mg/L	0.013	0.26%
As 188.979†	277.0	0.189	mg/L	0.0024	0.189	mg/L	0.0024	1.28%
Ba 233.527†	35839.4	0.504	mg/L	0.0038	0.504	mg/L	0.0038	0.75%
Be 234.861†	18512.6	0.0245	mg/L	0.00039	0.0245	mg/L	0.00039	1.57%
B 249.677†	58504.5	0.992	mg/L	0.0154	0.992	mg/L	0.0154	1.55%
Ca 227.546†	585.7	5.06	mg/L	0.007	5.06	mg/L	0.007	0.14%
Cd 228.802†	568.6	0.0235	mg/L	0.00039	0.0235	mg/L	0.00039	1.66%
Co 228.616†	2303.4	0.0993	mg/L	0.00045	0.0993	mg/L	0.00045	0.45%
Cr 267.716†	32323.6	0.250	mg/L	0.0019	0.250	mg/L	0.0019	0.77%
Cu 327.393†	38344.2	0.244	mg/L	0.0040	0.244	mg/L	0.0040	1.64%
Fe 239.562†	1358.5	1.96	mg/L	0.043	1.96	mg/L	0.043	2.17%
Mg 279.077†	5023.9	4.99	mg/L	0.118	4.99	mg/L	0.118	2.36%
Mn 257.610†	123906.1	0.253	mg/L	0.0024	0.253	mg/L	0.0024	0.96%
Mo 202.031†	8578.1	0.507	mg/L	0.0065	0.507	mg/L	0.0065	1.29%
Ni 231.604†	10748.8	0.254	mg/L	0.0015	0.254	mg/L	0.0015	0.57%
Pb 220.353†	1945.8	0.253	mg/L	0.0016	0.253	mg/L	0.0016	0.61%
Sb 206.836†	1234.9	0.599	mg/L	0.0048	0.599	mg/L	0.0048	0.79%
Se 196.026†	358.2	0.193	mg/L	0.0032	0.193	mg/L	0.0032	1.67%

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Si 251.611†	96487.9	2.46	mg/L	0.040	2.46	mg/L	0.040	1.63%
Sn 189.927†	-12.8	-0.00023	mg/L	0.000272	-0.00023	mg/L	0.000272	118.66%
Ti 334.940†	415887.6	0.504	mg/L	0.0020	0.504	mg/L	0.0020	0.40%
Tl 190.801†	518.9	0.259	mg/L	0.0028	0.259	mg/L	0.0028	1.06%
V 290.880†	82476.5	0.496	mg/L	0.0051	0.496	mg/L	0.0051	1.02%
Zn 206.200†	20588.9	0.498	mg/L	0.0055	0.498	mg/L	0.0055	1.11%
K 766.490†	68025.5	25.3	mg/L	0.02	25.3	mg/L	0.02	0.09%
Na 589.592†	378421.8	27.5	mg/L	0.15	27.5	mg/L	0.15	0.56%
Sr 407.771†	889759.7	0.509	mg/L	0.0106	0.509	mg/L	0.0106	2.09%
Li 670.784†	43000.7	0.515	mg/L	0.0060	0.515	mg/L	0.0060	1.17%

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Sequence No.: 30 **Autosampler Location: 48**
Sample ID: L1101024104 **Date Collected: 1/12/2011 1:57:27 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:24 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024104

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101024104

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4240757.2						38735.20	0.91%
YRADIAL	268217.4						3667.49	1.37%
Ga 417.206	1426022.5						27463.96	1.93%
GaRADIAL	73172.4						1158.24	1.58%
Ag 328.068†	704.0	0.00310	mg/L	0.000471	0.00310	mg/L	0.000471	15.20%
Al 396.153†	2118.5	0.385	mg/L	0.0147	0.385	mg/L	0.0147	3.81%
As 188.979†	21.4	0.0153	mg/L	0.00608	0.0153	mg/L	0.00608	39.75%
Ba 233.527†	1637.6	0.0222	mg/L	0.00025	0.0222	mg/L	0.00025	1.12%
Be 234.861†	-22.9	0.00005	mg/L	0.000012	0.00005	mg/L	0.000012	22.78%
B 249.677†	9994.1	0.169	mg/L	0.0068	0.169	mg/L	0.0068	4.05%
Ca 227.546†	5384.5	44.0	mg/L	0.97	44.0	mg/L	0.97	2.21%
Cd 228.802†	0.2	0.00054	mg/L	0.000249	0.00054	mg/L	0.000249	46.02%
Co 228.616†	820.1	0.0357	mg/L	0.00057	0.0357	mg/L	0.00057	1.58%
Cr 267.716†	45.4	0.00007	mg/L	0.000171	0.00007	mg/L	0.000171	238.59%
Cu 327.393†	194.3	-0.00081	mg/L	0.000393	-0.00081	mg/L	0.000393	48.70%
Fe 239.562†	36.4	0.0555	mg/L	0.00653	0.0555	mg/L	0.00653	11.78%
Mg 279.077†	8011.4	7.96	mg/L	0.025	7.96	mg/L	0.025	0.31%
Mn 257.610†	1408.9	0.0136	mg/L	0.00009	0.0136	mg/L	0.00009	0.67%
Mo 202.031†	649.8	0.0385	mg/L	0.00035	0.0385	mg/L	0.00035	0.91%
Ni 231.604†	5134.5	0.121	mg/L	0.0017	0.121	mg/L	0.0017	1.45%
Pb 220.353†	-15.4	-0.00012	mg/L	0.001110	-0.00012	mg/L	0.001110	902.07%
Sb 206.836†	36.4	0.0198	mg/L	0.00070	0.0198	mg/L	0.00070	3.53%
Se 196.026†	-37.2	-0.00622	mg/L	0.001234	-0.00622	mg/L	0.001234	19.83%
Si 251.611†	99762.1	2.56	mg/L	0.096	2.56	mg/L	0.096	3.76%
Sn 189.927†	-41.9	-0.00418	mg/L	0.000560	-0.00418	mg/L	0.000560	13.39%
Ti 334.940†	-707.0	0.00309	mg/L	0.000187	0.00309	mg/L	0.000187	6.05%
Tl 190.801†	60.4	0.0254	mg/L	0.00321	0.0254	mg/L	0.00321	12.64%
V 290.880†	64.0	0.00263	mg/L	0.001595	0.00263	mg/L	0.001595	60.58%
Zn 206.200†	374.2	0.00937	mg/L	0.000074	0.00937	mg/L	0.000074	0.79%
K 766.490†	15912.4	5.94	mg/L	0.141	5.94	mg/L	0.141	2.37%
Na 589.592†	Saturated2							
Sr 407.771†	443613.5	0.254	mg/L	0.0029	0.254	mg/L	0.0029	1.16%
Li 670.784†	1022208.6	12.2	mg/L	0.09	12.2	mg/L	0.09	0.73%

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Sequence No.: 31 **Autosampler Location: 49**
Sample ID: L1101024104PS WG353797-01 **Date Collected: 1/12/2011 2:04:14 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:34 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024104PS WG353797-01

Analyte	Back Pressure	Flow

Approved: January 13, 2011
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All	184.0 kPa	0.50 L/min

Mean Data: L1101024104PS WG353797-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4337901.8						14900.01	0.34%
YRADIAL	275221.6						4971.83	1.81%
Ga 417.206	1466564.3						4422.01	0.30%
GaRADIAL	75175.6						1095.89	1.46%
Ag 328.068†	42731.7	0.202	mg/L	0.0039	0.202	mg/L	0.0039	1.92%
Al 396.153†	28823.9	5.31	mg/L	0.082	5.31	mg/L	0.082	1.54%
As 188.979†	312.1	0.211	mg/L	0.0069	0.211	mg/L	0.0069	3.27%
Ba 233.527†	35568.9	0.500	mg/L	0.0076	0.500	mg/L	0.0076	1.53%
Be 234.861†	18351.3	0.0243	mg/L	0.00049	0.0243	mg/L	0.00049	2.00%
B 249.677†	66478.4	1.13	mg/L	0.022	1.13	mg/L	0.022	1.96%
Ca 227.546†	5348.4	43.9	mg/L	0.19	43.9	mg/L	0.19	0.42%
Cd 228.802†	581.9	0.0243	mg/L	0.00037	0.0243	mg/L	0.00037	1.51%
Co 228.616†	2931.9	0.127	mg/L	0.0004	0.127	mg/L	0.0004	0.28%
Cr 267.716†	30532.9	0.236	mg/L	0.0032	0.236	mg/L	0.0032	1.36%
Cu 327.393†	38263.2	0.242	mg/L	0.0053	0.242	mg/L	0.0053	2.19%
Fe 239.562†	1370.9	1.98	mg/L	0.063	1.98	mg/L	0.063	3.17%
Mg 279.077†	11791.7	11.7	mg/L	0.18	11.7	mg/L	0.18	1.56%
Mn 257.610†	119770.0	0.253	mg/L	0.0036	0.253	mg/L	0.0036	1.43%
Mo 202.031†	9063.7	0.536	mg/L	0.0030	0.536	mg/L	0.0030	0.56%
Ni 231.604†	14710.7	0.348	mg/L	0.0052	0.348	mg/L	0.0052	1.51%
Pb 220.353†	1848.1	0.242	mg/L	0.0003	0.242	mg/L	0.0003	0.11%
Sb 206.836†	1269.7	0.616	mg/L	0.0039	0.616	mg/L	0.0039	0.64%
Se 196.026†	361.0	0.204	mg/L	0.0034	0.204	mg/L	0.0034	1.66%
Si 251.611†	184559.8	4.71	mg/L	0.067	4.71	mg/L	0.067	1.42%
Sn 189.927†	-47.7	-0.00496	mg/L	0.000899	-0.00496	mg/L	0.000899	18.11%
Ti 334.940†	406004.7	0.492	mg/L	0.0100	0.492	mg/L	0.0100	2.04%
Tl 190.801†	524.7	0.258	mg/L	0.0009	0.258	mg/L	0.0009	0.35%
V 290.880†	80816.2	0.487	mg/L	0.0084	0.487	mg/L	0.0084	1.72%
Zn 206.200†	20795.3	0.503	mg/L	0.0049	0.503	mg/L	0.0049	0.97%
K 766.490†	86065.8	32.1	mg/L	0.33	32.1	mg/L	0.33	1.02%
Na 589.592†	Saturated2							
Sr 407.771†	1275006.6	0.729	mg/L	0.0055	0.729	mg/L	0.0055	0.76%
Li 670.784†	958291.5	11.5	mg/L	0.07	11.5	mg/L	0.07	0.57%

Sequence No.: 32
Sample ID: L1101024104DL WG353797-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 1/12/2011 2:10:58 PM
Data Type: Reprocessed on 1/13/2011 10:16:35 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101024104DL WG353797-02

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: L1101024104DL WG353797-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4641932.3						43096.09	0.93%
YRADIAL	276984.1						1392.87	0.50%
Ga 417.206	1552373.9						30990.30	2.00%
GaRADIAL	76036.4						1315.15	1.73%
Ag 328.068†	207.4	0.00080	mg/L	0.000156	0.00080	mg/L	0.000156	19.66%
Al 396.153†	451.2	0.0773	mg/L	0.01002	0.0773	mg/L	0.01002	12.96%
As 188.979†	8.1	0.00715	mg/L	0.002129	0.00715	mg/L	0.002129	29.77%
Ba 233.527†	331.8	0.00386	mg/L	0.000460	0.00386	mg/L	0.000460	11.91%
Be 234.861†	2.7	0.00005	mg/L	0.000028	0.00005	mg/L	0.000028	56.38%
B 249.677†	2708.9	0.0458	mg/L	0.00350	0.0458	mg/L	0.00350	7.64%
Ca 227.546†	1009.7	8.26	mg/L	0.831	8.26	mg/L	0.831	10.06%
Cd 228.802†	3.0	0.00038	mg/L	0.000225	0.00038	mg/L	0.000225	59.79%
Co 228.616†	172.4	0.00749	mg/L	0.000700	0.00749	mg/L	0.000700	9.35%
Cr 267.716†	10.1	-0.00019	mg/L	0.000071	-0.00019	mg/L	0.000071	36.81%
Cu 327.393†	185.6	0.00065	mg/L	0.000447	0.00065	mg/L	0.000447	69.22%
Fe 239.562†	9.7	0.0171	mg/L	0.00302	0.0171	mg/L	0.00302	17.68%

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Mg 279.077†	1855.3	1.84	mg/L	0.018	1.84	mg/L	0.018	0.97%
Mn 257.610†	217.8	0.00590	mg/L	0.000179	0.00590	mg/L	0.000179	3.04%
Mo 202.031†	128.8	0.00770	mg/L	0.000706	0.00770	mg/L	0.000706	9.17%
Ni 231.604†	1079.9	0.0249	mg/L	0.00245	0.0249	mg/L	0.00245	9.87%
Pb 220.353†	-0.9	-0.00014	mg/L	0.000446	-0.00014	mg/L	0.000446	309.87%
Sb 206.836†	2.7	0.00318	mg/L	0.002614	0.00318	mg/L	0.002614	82.28%
Se 196.026†	-4.7	0.00207	mg/L	0.004424	0.00207	mg/L	0.004424	213.35%
Si 251.611†	20489.4	0.531	mg/L	0.0452	0.531	mg/L	0.0452	8.53%
Sn 189.927†	-16.1	-0.00068	mg/L	0.001089	-0.00068	mg/L	0.001089	160.96%
Ti 334.940†	-171.5	0.00338	mg/L	0.000215	0.00338	mg/L	0.000215	6.36%
Tl 190.801†	11.7	0.00503	mg/L	0.003660	0.00503	mg/L	0.003660	72.77%
V 290.880†	83.6	0.00240	mg/L	0.000851	0.00240	mg/L	0.000851	35.39%
Zn 206.200†	225.0	0.00576	mg/L	0.000258	0.00576	mg/L	0.000258	4.49%
K 766.490†	3205.3	0.883	mg/L	0.0195	0.883	mg/L	0.0195	2.21%
Na 589.592†	4497182.9	318	mg/L	11.3	318	mg/L	11.3	3.54%
Sr 407.771†	98978.7	0.0565	mg/L	0.00061	0.0565	mg/L	0.00061	1.07%
Li 670.784†	214573.9	2.57	mg/L	0.027	2.57	mg/L	0.027	1.03%

Sequence No.: 33 **Autosampler Location: 51**
Sample ID: L1101024106 **Date Collected: 1/12/2011 2:17:40 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:37 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024106

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101024106

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4933356.2						28736.50	0.58%
YRADIAL	282046.4						11277.30	4.00%
Ga 417.206	1682468.2						28096.13	1.67%
GaRADIAL	76881.3						2418.99	3.15%
Ag 328.068†	531.9	0.00232	mg/L	0.000661	0.00232	mg/L	0.000661	28.53%
Al 396.153†	3242.2	0.593	mg/L	0.0293	0.593	mg/L	0.0293	4.93%
As 188.979†	16.2	0.0122	mg/L	0.00240	0.0122	mg/L	0.00240	19.70%
Ba 233.527†	4215.7	0.0584	mg/L	0.00018	0.0584	mg/L	0.00018	0.32%
Be 234.861†	203.0	0.00015	mg/L	0.000016	0.00015	mg/L	0.000016	10.39%
B 249.677†	3266.4	0.0577	mg/L	0.00097	0.0577	mg/L	0.00097	1.68%
Ca 227.546†	4423.1	36.0	mg/L	0.67	36.0	mg/L	0.67	1.85%
Cd 228.802†	-1.3	0.00008	mg/L	0.000148	0.00008	mg/L	0.000148	189.61%
Co 228.616†	6.4	0.00018	mg/L	0.000087	0.00018	mg/L	0.000087	49.47%
Cr 267.716†	123.1	0.00067	mg/L	0.000116	0.00067	mg/L	0.000116	17.31%
Cu 327.393†	201.2	0.00121	mg/L	0.000379	0.00121	mg/L	0.000379	31.32%
Fe 239.562†	456.0	0.661	mg/L	0.0286	0.661	mg/L	0.0286	4.33%
Mg 279.077†	9688.1	9.62	mg/L	0.446	9.62	mg/L	0.446	4.64%
Mn 257.610†	40400.7	0.0829	mg/L	0.00125	0.0829	mg/L	0.00125	1.51%
Mo 202.031†	16.8	0.00114	mg/L	0.000336	0.00114	mg/L	0.000336	29.58%
Ni 231.604†	106.2	0.00179	mg/L	0.000390	0.00179	mg/L	0.000390	21.85%
Pb 220.353†	-21.4	-0.00145	mg/L	0.001108	-0.00145	mg/L	0.001108	76.39%
Sb 206.836†	29.8	0.0159	mg/L	0.00337	0.0159	mg/L	0.00337	21.19%
Se 196.026†	-39.2	-0.00925	mg/L	0.002601	-0.00925	mg/L	0.002601	28.11%
Si 251.611†	141155.9	3.61	mg/L	0.115	3.61	mg/L	0.115	3.17%
Sn 189.927†	-77.5	-0.00900	mg/L	0.000562	-0.00900	mg/L	0.000562	6.24%
Ti 334.940†	11686.4	0.0179	mg/L	0.00219	0.0179	mg/L	0.00219	12.23%
Tl 190.801†	50.4	0.0217	mg/L	0.00386	0.0217	mg/L	0.00386	17.77%
V 290.880†	-174.4	0.00130	mg/L	0.001261	0.00130	mg/L	0.001261	97.34%
Zn 206.200†	265.0	0.00671	mg/L	0.000199	0.00671	mg/L	0.000199	2.96%
K 766.490†	7048.5	2.60	mg/L	0.121	2.60	mg/L	0.121	4.65%
Na 589.592†	418625.4	30.5	mg/L	0.35	30.5	mg/L	0.35	1.13%
Sr 407.771†	396286.8	0.227	mg/L	0.0024	0.227	mg/L	0.0024	1.05%
Li 670.784†	878.5	0.0100	mg/L	0.00063	0.0100	mg/L	0.00063	6.32%

Sequence No.: 34 **Autosampler Location: 52**
Sample ID: L1101024201 WG353703-01 **Date Collected: 1/12/2011 2:24:28 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:38 AM**

Approved: January 13, 2011
Pierce Morris

Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024201 WG353703-01

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: L1101024201 WG353703-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4774327.7						84493.28	1.77%
YRADIAL	283812.1						4557.46	1.61%
Ga 417.206	1619629.5						38431.82	2.37%
GaRADIAL	77099.3						1125.07	1.46%
Ag 328.068†	1100.0	0.00498	mg/L	0.000825	0.00498	mg/L	0.000825	16.55%
Al 396.153†	917.8	0.164	mg/L	0.0151	0.164	mg/L	0.0151	9.25%
As 188.979†	29.4	0.0199	mg/L	0.00278	0.0199	mg/L	0.00278	13.98%
Ba 233.527†	9014.1	0.126	mg/L	0.0028	0.126	mg/L	0.0028	2.20%
Be 234.861†	83.8	0.00012	mg/L	0.000031	0.00012	mg/L	0.000031	26.10%
B 249.677†	3955.2	0.0674	mg/L	0.00264	0.0674	mg/L	0.00264	3.92%
Ca 227.546†	12376.9	101	mg/L	2.6	101	mg/L	2.6	2.59%
Cd 228.802†	0.1	0.00007	mg/L	0.000157	0.00007	mg/L	0.000157	209.82%
Co 228.616†	4.2	0.00010	mg/L	0.000125	0.00010	mg/L	0.000125	124.77%
Cr 267.716†	200.7	0.00128	mg/L	0.000076	0.00128	mg/L	0.000076	5.91%
Cu 327.393†	299.3	0.00178	mg/L	0.000236	0.00178	mg/L	0.000236	13.28%
Fe 239.562†	90.2	0.133	mg/L	0.0042	0.133	mg/L	0.0042	3.17%
Mg 279.077†	13143.6	13.1	mg/L	0.15	13.1	mg/L	0.15	1.12%
Mn 257.610†	10162.0	0.0228	mg/L	0.00053	0.0228	mg/L	0.00053	2.32%
Mo 202.031†	13.9	0.00092	mg/L	0.000497	0.00092	mg/L	0.000497	53.89%
Ni 231.604†	148.5	0.00277	mg/L	0.000136	0.00277	mg/L	0.000136	4.91%
Pb 220.353†	-38.9	-0.00061	mg/L	0.000942	-0.00061	mg/L	0.000942	153.52%
Sb 206.836†	59.2	0.0298	mg/L	0.00302	0.0298	mg/L	0.00302	10.13%
Se 196.026†	-50.0	0.00121	mg/L	0.004517	0.00121	mg/L	0.004517	374.33%
Si 251.611†	285076.9	7.29	mg/L	0.200	7.29	mg/L	0.200	2.74%
Sn 189.927†	-108.3	-0.0132	mg/L	0.00065	-0.0132	mg/L	0.00065	4.95%
Ti 334.940†	-352.6	0.00408	mg/L	0.001968	0.00408	mg/L	0.001968	48.20%
Tl 190.801†	98.2	0.0389	mg/L	0.00193	0.0389	mg/L	0.00193	4.96%
V 290.880†	-606.5	-0.00107	mg/L	0.000813	-0.00107	mg/L	0.000813	76.04%
Zn 206.200†	317.5	0.00799	mg/L	0.000234	0.00799	mg/L	0.000234	2.93%
K 766.490†	17385.2	6.43	mg/L	0.085	6.43	mg/L	0.085	1.32%
Na 589.592†	744227.4	54.0	mg/L	0.89	54.0	mg/L	0.89	1.65%
Sr 407.771†	259928.8	0.149	mg/L	0.0019	0.149	mg/L	0.0019	1.25%
Li 670.784†	776.1	0.00881	mg/L	0.001422	0.00881	mg/L	0.001422	16.13%

Sequence No.: 35 **Autosampler Location: 53**
Sample ID: L1101024201S WG353703-04 **Date Collected: 1/12/2011 2:31:11 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:39 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024201S WG353703-04

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101024201S WG353703-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4770909.4						50501.42	1.06%
YRADIAL	278330.9						6112.49	2.20%
Ga 417.206	1628729.9						24205.97	1.49%
GaRADIAL	75567.9						1708.71	2.26%
Ag 328.068†	1378.6	0.00630	mg/L	0.000195	0.00630	mg/L	0.000195	3.09%
Al 396.153†	976.8	0.174	mg/L	0.0056	0.174	mg/L	0.0056	3.19%
As 188.979†	27.1	0.0183	mg/L	0.00494	0.0183	mg/L	0.00494	27.03%
Ba 233.527†	9154.1	0.128	mg/L	0.0013	0.128	mg/L	0.0013	1.04%
Be 234.861†	94.4	0.00013	mg/L	0.000015	0.00013	mg/L	0.000015	10.93%

Approved: January 13, 2011
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B 249.677†	3790.3	0.0645	mg/L	0.00040	0.0645	mg/L	0.00040	0.61%
Ca 227.546†	12421.2	101	mg/L	1.4	101	mg/L	1.4	1.41%
Cd 228.802†	-1.3	0.00003	mg/L	0.000051	0.00003	mg/L	0.000051	177.53%
Co 228.616†	11.6	0.00043	mg/L	0.000075	0.00043	mg/L	0.000075	17.52%
Cr 267.716†	168.3	0.00103	mg/L	0.000025	0.00103	mg/L	0.000025	2.44%
Cu 327.393†	429.5	0.00260	mg/L	0.000441	0.00260	mg/L	0.000441	16.95%
Fe 239.562†	86.1	0.127	mg/L	0.0018	0.127	mg/L	0.0018	1.38%
Mg 279.077†	13895.0	13.8	mg/L	0.47	13.8	mg/L	0.47	3.43%
Mn 257.610†	7848.7	0.0181	mg/L	0.00020	0.0181	mg/L	0.00020	1.11%
Mo 202.031†	19.7	0.00127	mg/L	0.000257	0.00127	mg/L	0.000257	20.31%
Ni 231.604†	153.0	0.00288	mg/L	0.000153	0.00288	mg/L	0.000153	5.32%
Pb 220.353†	-30.8	0.00046	mg/L	0.000878	0.00046	mg/L	0.000878	192.42%
Sb 206.836†	54.6	0.0277	mg/L	0.00022	0.0277	mg/L	0.00022	0.78%
Se 196.026†	-56.5	-0.00216	mg/L	0.003366	-0.00216	mg/L	0.003366	155.76%
Si 251.611†	282562.9	7.23	mg/L	0.139	7.23	mg/L	0.139	1.92%
Sn 189.927†	-113.2	-0.0139	mg/L	0.00083	-0.0139	mg/L	0.00083	5.97%
Ti 334.940†	-1054.3	0.00324	mg/L	0.000194	0.00324	mg/L	0.000194	5.98%
Tl 190.801†	93.0	0.0363	mg/L	0.00009	0.0363	mg/L	0.00009	0.24%
V 290.880†	-615.9	-0.00108	mg/L	0.000495	-0.00108	mg/L	0.000495	45.76%
Zn 206.200†	302.2	0.00762	mg/L	0.000266	0.00762	mg/L	0.000266	3.49%
K 766.490†	18301.1	6.77	mg/L	0.164	6.77	mg/L	0.164	2.41%
Na 589.592†	759723.2	55.1	mg/L	0.53	55.1	mg/L	0.53	0.97%
Sr 407.771†	264798.5	0.151	mg/L	0.0024	0.151	mg/L	0.0024	1.61%
Li 670.784†	839.1	0.00957	mg/L	0.000519	0.00957	mg/L	0.000519	5.43%

Sequence No.: 36
Sample ID: L1101024201SD WG353703-05
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 1/12/2011 2:37:53 PM
Data Type: Reprocessed on 1/13/2011 10:16:40 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101024201SD WG353703-05

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: L1101024201SD WG353703-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4762816.4						85480.75	1.79%
YRADIAL	279261.1						2962.65	1.06%
Ga 417.206	1613741.2						33016.00	2.05%
GaRADIAL	76204.7						1076.91	1.41%
Ag 328.068†	42302.8	0.200	mg/L	0.0056	0.200	mg/L	0.0056	2.80%
Al 396.153†	27936.8	5.15	mg/L	0.019	5.15	mg/L	0.019	0.38%
As 188.979†	308.3	0.208	mg/L	0.0051	0.208	mg/L	0.0051	2.46%
Ba 233.527†	43215.9	0.607	mg/L	0.0128	0.607	mg/L	0.0128	2.10%
Be 234.861†	18444.3	0.0244	mg/L	0.00069	0.0244	mg/L	0.00069	2.81%
B 249.677†	60837.2	1.03	mg/L	0.027	1.03	mg/L	0.027	2.62%
Ca 227.546†	12817.7	105	mg/L	2.4	105	mg/L	2.4	2.25%
Cd 228.802†	555.9	0.0228	mg/L	0.00079	0.0228	mg/L	0.00079	3.44%
Co 228.616†	2221.5	0.0957	mg/L	0.00193	0.0957	mg/L	0.00193	2.01%
Cr 267.716†	31639.7	0.245	mg/L	0.0053	0.245	mg/L	0.0053	2.17%
Cu 327.393†	37635.0	0.240	mg/L	0.0070	0.240	mg/L	0.0070	2.91%
Fe 239.562†	1415.3	2.05	mg/L	0.010	2.05	mg/L	0.010	0.47%
Mg 279.077†	17910.8	17.8	mg/L	0.07	17.8	mg/L	0.07	0.37%
Mn 257.610†	129146.7	0.265	mg/L	0.0064	0.265	mg/L	0.0064	2.41%
Mo 202.031†	8555.0	0.506	mg/L	0.0096	0.506	mg/L	0.0096	1.90%
Ni 231.604†	10494.9	0.248	mg/L	0.0049	0.248	mg/L	0.0049	1.99%
Pb 220.353†	1849.6	0.245	mg/L	0.0049	0.245	mg/L	0.0049	1.99%
Sb 206.836†	1275.6	0.618	mg/L	0.0146	0.618	mg/L	0.0146	2.37%
Se 196.026†	313.8	0.195	mg/L	0.0049	0.195	mg/L	0.0049	2.53%
Si 251.611†	377471.6	9.64	mg/L	0.290	9.64	mg/L	0.290	3.00%
Sn 189.927†	-100.8	-0.0122	mg/L	0.00067	-0.0122	mg/L	0.00067	5.52%
Ti 334.940†	411439.1	0.499	mg/L	0.0013	0.499	mg/L	0.0013	0.25%
Tl 190.801†	587.6	0.283	mg/L	0.0055	0.283	mg/L	0.0055	1.95%
V 290.880†	80886.5	0.487	mg/L	0.0115	0.487	mg/L	0.0115	2.35%
Zn 206.200†	20077.9	0.485	mg/L	0.0095	0.485	mg/L	0.0095	1.96%
K 766.490†	85409.4	31.7	mg/L	0.16	31.7	mg/L	0.16	0.49%
Na 589.592†	1099103.0	79.6	mg/L	1.09	79.6	mg/L	1.09	1.38%

Approved: January 13, 2011

Pierce Morris

Sr 407.771†	1131244.8	0.647	mg/L	0.0060	0.647	mg/L	0.0060	0.93%
Li 670.784†	42569.7	0.510	mg/L	0.0044	0.510	mg/L	0.0044	0.86%

Sequence No.: 37 **Autosampler Location: 55**
Sample ID: L1101024301 **Date Collected: 1/12/2011 2:44:33 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:50 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101024301

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: L1101024301

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4841574.3						24727.94	0.51%
YRADIAL	285558.6						1867.94	0.65%
Ga 417.206	1678704.4						16912.25	1.01%
GaRADIAL	77917.9						1586.14	2.04%
Ag 328.068†	714.0	0.00315	mg/L	0.000089	0.00315	mg/L	0.000089	2.84%
Al 396.153†	3770.5	0.690	mg/L	0.0254	0.690	mg/L	0.0254	3.69%
As 188.979†	63.3	0.0438	mg/L	0.00108	0.0438	mg/L	0.00108	2.46%
Ba 233.527†	7308.4	0.102	mg/L	0.0008	0.102	mg/L	0.0008	0.83%
Be 234.861†	353.4	0.00030	mg/L	0.000013	0.00030	mg/L	0.000013	4.30%
B 249.677†	12210.0	0.210	mg/L	0.0043	0.210	mg/L	0.0043	2.05%
Ca 227.546†	7190.0	58.6	mg/L	0.63	58.6	mg/L	0.63	1.08%
Cd 228.802†	-0.8	-0.00010	mg/L	0.000328	-0.00010	mg/L	0.000328	330.81%
Co 228.616†	41.0	0.00162	mg/L	0.000063	0.00162	mg/L	0.000063	3.92%
Cr 267.716†	773.6	0.00573	mg/L	0.000097	0.00573	mg/L	0.000097	1.69%
Cu 327.393†	1251.4	0.00792	mg/L	0.000827	0.00792	mg/L	0.000827	10.44%
Fe 239.562†	657.4	0.952	mg/L	0.0139	0.952	mg/L	0.0139	1.46%
Mg 279.077†	11305.5	11.2	mg/L	0.10	11.2	mg/L	0.10	0.86%
Mn 257.610†	40464.1	0.0834	mg/L	0.00068	0.0834	mg/L	0.00068	0.81%
Mo 202.031†	266.6	0.0159	mg/L	0.00034	0.0159	mg/L	0.00034	2.17%
Ni 231.604†	240.3	0.00495	mg/L	0.000127	0.00495	mg/L	0.000127	2.56%
Pb 220.353†	-26.7	-0.00098	mg/L	0.000182	-0.00098	mg/L	0.000182	18.54%
Sb 206.836†	39.8	0.0210	mg/L	0.00075	0.0210	mg/L	0.00075	3.60%
Se 196.026†	-48.2	-0.00831	mg/L	0.002687	-0.00831	mg/L	0.002687	32.34%
Si 251.611†	155254.3	3.97	mg/L	0.045	3.97	mg/L	0.045	1.13%
Sn 189.927†	-85.6	-0.0101	mg/L	0.00053	-0.0101	mg/L	0.00053	5.22%
Ti 334.940†	30064.6	0.0402	mg/L	0.00395	0.0402	mg/L	0.00395	9.83%
Tl 190.801†	77.4	0.0331	mg/L	0.00303	0.0331	mg/L	0.00303	9.14%
V 290.880†	2031.6	0.0146	mg/L	0.00024	0.0146	mg/L	0.00024	1.61%
Zn 206.200†	301.5	0.00760	mg/L	0.000060	0.00760	mg/L	0.000060	0.79%
K 766.490†	10603.6	3.92	mg/L	0.033	3.92	mg/L	0.033	0.84%
Na 589.592†	511481.7	37.2	mg/L	1.08	37.2	mg/L	1.08	2.90%
Sr 407.771†	959621.2	0.549	mg/L	0.0119	0.549	mg/L	0.0119	2.16%
Li 670.784†	6206.5	0.0739	mg/L	0.00161	0.0739	mg/L	0.00161	2.18%

Sequence No.: 38 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 2:51:18 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:16:51 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4706752.4						17722.74	0.38%
YRADIAL	273551.3						5991.41	2.19%

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Ga 417.206	1552097.3				12285.89	0.79%
GaRADIAL	74069.0				184.29	0.25%
Ag 328.068†	84731.9	0.401 mg/L	0.0013	0.401 mg/L	0.0013	0.32%
QC value within limits for Ag 328.068 Recovery = 100.18%						
Al 396.153†	54534.2	10.0 mg/L	0.01	10.0 mg/L	0.01	0.10%
QC value within limits for Al 396.153 Recovery = 100.49%						
As 188.979†	585.2	0.397 mg/L	0.0017	0.397 mg/L	0.0017	0.42%
QC value within limits for As 188.979 Recovery = 99.13%						
Ba 233.527†	72761.6	1.02 mg/L	0.008	1.02 mg/L	0.008	0.76%
QC value within limits for Ba 233.527 Recovery = 102.35%						
Be 234.861†	38431.1	0.0508 mg/L	0.00022	0.0508 mg/L	0.00022	0.43%
QC value within limits for Be 234.861 Recovery = 101.53%						
B 249.677†	30194.0	0.517 mg/L	0.0025	0.517 mg/L	0.0025	0.48%
QC value within limits for B 249.677 Recovery = 103.43%						
Ca 227.546†	1195.0	10.3 mg/L	0.07	10.3 mg/L	0.07	0.70%
QC value within limits for Ca 227.546 Recovery = 103.18%						
Cd 228.802†	1188.0	0.0489 mg/L	0.00054	0.0489 mg/L	0.00054	1.10%
QC value within limits for Cd 228.802 Recovery = 97.71%						
Co 228.616†	4642.6	0.200 mg/L	0.0015	0.200 mg/L	0.0015	0.74%
QC value within limits for Co 228.616 Recovery = 100.08%						
Cr 267.716†	65976.2	0.511 mg/L	0.0030	0.511 mg/L	0.0030	0.59%
QC value within limits for Cr 267.716 Recovery = 102.21%						
Cu 327.393†	78536.3	0.500 mg/L	0.0015	0.500 mg/L	0.0015	0.29%
QC value within limits for Cu 327.393 Recovery = 99.99%						
Fe 239.562†	2794.4	4.04 mg/L	0.049	4.04 mg/L	0.049	1.22%
QC value within limits for Fe 239.562 Recovery = 100.92%						
Mg 279.077†	10226.9	10.2 mg/L	0.14	10.2 mg/L	0.14	1.37%
QC value within limits for Mg 279.077 Recovery = 101.62%						
Mn 257.610†	251730.1	0.513 mg/L	0.0034	0.513 mg/L	0.0034	0.66%
QC value within limits for Mn 257.610 Recovery = 102.50%						
Mo 202.031†	17308.7	1.02 mg/L	0.008	1.02 mg/L	0.008	0.74%
QC value within limits for Mo 202.031 Recovery = 102.33%						
Ni 231.604†	21798.5	0.515 mg/L	0.0019	0.515 mg/L	0.0019	0.36%
QC value within limits for Ni 231.604 Recovery = 103.07%						
Pb 220.353†	3953.3	0.514 mg/L	0.0041	0.514 mg/L	0.0041	0.80%
QC value within limits for Pb 220.353 Recovery = 102.76%						
Sb 206.836†	2514.0	1.23 mg/L	0.004	1.23 mg/L	0.004	0.33%
QC value within limits for Sb 206.836 Recovery = 102.32%						
Se 196.026†	759.7	0.407 mg/L	0.0032	0.407 mg/L	0.0032	0.79%
QC value within limits for Se 196.026 Recovery = 101.72%						
Si 251.611†	194763.0	4.97 mg/L	0.021	4.97 mg/L	0.021	0.42%
QC value within limits for Si 251.611 Recovery = 99.35%						
Sn 189.927†	7473.9	1.02 mg/L	0.008	1.02 mg/L	0.008	0.77%
QC value within limits for Sn 189.927 Recovery = 101.55%						
Ti 334.940†	829192.2	1.00 mg/L	0.002	1.00 mg/L	0.002	0.18%
QC value within limits for Ti 334.940 Recovery = 100.04%						
Tl 190.801†	1037.5	0.517 mg/L	0.0037	0.517 mg/L	0.0037	0.72%
QC value within limits for Tl 190.801 Recovery = 103.40%						
V 290.880†	168004.5	1.01 mg/L	0.008	1.01 mg/L	0.008	0.79%
QC value within limits for V 290.880 Recovery = 100.89%						
Zn 206.200†	42930.0	1.04 mg/L	0.006	1.04 mg/L	0.006	0.54%
QC value within limits for Zn 206.200 Recovery = 103.72%						
K 766.490†	136639.4	50.8 mg/L	0.04	50.8 mg/L	0.04	0.08%
QC value within limits for K 766.490 Recovery = 101.57%						
Na 589.592†	704144.6	51.1 mg/L	0.68	51.1 mg/L	0.68	1.34%
QC value within limits for Na 589.592 Recovery = 102.27%						
Sr 407.771†	1764208.9	1.01 mg/L	0.010	1.01 mg/L	0.010	0.97%
QC value within limits for Sr 407.771 Recovery = 100.91%						
Li 670.784†	85266.4	1.02 mg/L	0.012	1.02 mg/L	0.012	1.20%
QC value within limits for Li 670.784 Recovery = 102.12%						

All analyte(s) passed QC.

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Sequence No.: 39 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/12/2011 2:57:58 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:16:53 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	**Back Pressure**	**Flow**

Approved: January 13, 2011

Pierce Morris

All 182.0 kPa 0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5000630.6						102086.57	2.04%
YRADIAL	292839.9						710.86	0.24%
Ga 417.206	1639995.2						32967.00	2.01%
GaRADIAL	78692.5						1817.20	2.31%
Ag 328.068†	104.6	0.00032	mg/L	0.000398	0.00032	mg/L	0.000398	123.39%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-2.6	-0.00637	mg/L	0.003828	-0.00637	mg/L	0.003828	60.10%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.8	0.00131	mg/L	0.002419	0.00131	mg/L	0.002419	184.50%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	10.2	-0.00066	mg/L	0.000060	-0.00066	mg/L	0.000060	9.18%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-7.4	0.00003	mg/L	0.000012	0.00003	mg/L	0.000012	42.71%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	890.0	0.0152	mg/L	0.00039	0.0152	mg/L	0.00039	2.55%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-1.4	0.00088	mg/L	0.050115	0.00088	mg/L	0.050115	>999.9%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.3	0.00030	mg/L	0.000134	0.00030	mg/L	0.000134	44.92%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-3.1	-0.00017	mg/L	0.000023	-0.00017	mg/L	0.000023	12.96%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-12.3	-0.00036	mg/L	0.000030	-0.00036	mg/L	0.000030	8.39%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	35.5	0.00009	mg/L	0.000256	0.00009	mg/L	0.000256	269.72%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.8	0.00577	mg/L	0.001227	0.00577	mg/L	0.001227	21.26%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	7.3	0.00922	mg/L	0.003070	0.00922	mg/L	0.003070	33.30%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-283.6	-0.00020	mg/L	0.000023	-0.00020	mg/L	0.000023	11.84%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.0	0.00009	mg/L	0.000037	0.00009	mg/L	0.000037	39.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	9.0	-0.00050	mg/L	0.000220	-0.00050	mg/L	0.000220	43.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	3.3	-0.00003	mg/L	0.000656	-0.00003	mg/L	0.000656	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.5	0.00106	mg/L	0.000470	0.00106	mg/L	0.000470	44.32%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-7.3	-0.00135	mg/L	0.003518	-0.00135	mg/L	0.003518	260.00%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-129.2	0.00398	mg/L	0.000692	0.00398	mg/L	0.000692	17.37%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	3.5	0.00199	mg/L	0.000229	0.00199	mg/L	0.000229	11.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	124.1	0.00365	mg/L	0.000102	0.00365	mg/L	0.000102	2.81%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-3.4	-0.00156	mg/L	0.002882	-0.00156	mg/L	0.002882	184.69%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	49.4	0.00210	mg/L	0.001187	0.00210	mg/L	0.001187	56.64%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	10.4	0.00058	mg/L	0.000146	0.00058	mg/L	0.000146	25.06%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	56.7	0.0262	mg/L	0.02052	0.0262	mg/L	0.02052	78.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1092.5	0.0616	mg/L	0.01897	0.0616	mg/L	0.01897	30.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	69.3	-0.00013	mg/L	0.000076	-0.00013	mg/L	0.000076	59.77%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	249.1	0.00250	mg/L	0.001109	0.00250	mg/L	0.001109	44.42%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 40 **Autosampler Location: 56**
Sample ID: PBW 47 WG353772-02 **Date Collected: 1/12/2011 3:04:36 PM**

Approved: January 13, 2011
Pierce Morris

Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:54 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 47 WG353772-02

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: PBW 47 WG353772-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5171442.8						69014.99	1.33%
YRADIAL	293337.9						8232.97	2.81%
Ga 417.206	1660735.0						18783.33	1.13%
GaRADIAL	79492.1						468.22	0.59%
Ag 328.068†	133.1	0.00046	mg/L	0.000720	0.00046	mg/L	0.000720	157.81%
Al 396.153†	16.3	-0.00288	mg/L	0.015806	-0.00288	mg/L	0.015806	549.47%
As 188.979†	-6.7	-0.00274	mg/L	0.000933	-0.00274	mg/L	0.000933	34.04%
Ba 233.527†	7.6	-0.00070	mg/L	0.000043	-0.00070	mg/L	0.000043	6.17%
Be 234.861†	-79.5	-0.00007	mg/L	0.000029	-0.00007	mg/L	0.000029	42.79%
B 249.677†	721.4	0.0123	mg/L	0.00023	0.0123	mg/L	0.00023	1.90%
Ca 227.546†	-5.8	-0.0348	mg/L	0.00919	-0.0348	mg/L	0.00919	26.41%
Cd 228.802†	1.8	0.00030	mg/L	0.000107	0.00030	mg/L	0.000107	35.39%
Co 228.616†	-1.7	-0.00011	mg/L	0.000220	-0.00011	mg/L	0.000220	197.16%
Cr 267.716†	15.8	-0.00015	mg/L	0.000116	-0.00015	mg/L	0.000116	79.73%
Cu 327.393†	-14.8	-0.00022	mg/L	0.000310	-0.00022	mg/L	0.000310	137.75%
Fe 239.562†	3.9	0.00873	mg/L	0.003023	0.00873	mg/L	0.003023	34.62%
Mg 279.077†	6.7	0.00855	mg/L	0.003086	0.00855	mg/L	0.003086	36.08%
Mn 257.610†	-172.9	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	120.97%
Mo 202.031†	1.5	0.00018	mg/L	0.000199	0.00018	mg/L	0.000199	111.04%
Ni 231.604†	17.5	-0.00030	mg/L	0.000151	-0.00030	mg/L	0.000151	50.26%
Pb 220.353†	3.6	0.00000	mg/L	0.001034	0.00000	mg/L	0.001034	>999.9%
Sb 206.836†	-0.7	0.00143	mg/L	0.000707	0.00143	mg/L	0.000707	49.46%
Se 196.026†	-1.2	0.00186	mg/L	0.004657	0.00186	mg/L	0.004657	249.90%
Si 251.611†	-82.0	0.00519	mg/L	0.002631	0.00519	mg/L	0.002631	50.71%
Sn 189.927†	-3.0	0.00110	mg/L	0.000258	0.00110	mg/L	0.000258	23.35%
Ti 334.940†	42.7	0.00355	mg/L	0.000085	0.00355	mg/L	0.000085	2.39%
Tl 190.801†	-0.1	0.00008	mg/L	0.002915	0.00008	mg/L	0.002915	>999.9%
V 290.880†	-39.9	0.00156	mg/L	0.000528	0.00156	mg/L	0.000528	33.84%
Zn 206.200†	70.7	0.00203	mg/L	0.000216	0.00203	mg/L	0.000216	10.62%
K 766.490†	53.3	0.0250	mg/L	0.06573	0.0250	mg/L	0.06573	262.88%
Na 589.592†	1066.5	0.0597	mg/L	0.01640	0.0597	mg/L	0.01640	27.48%
Sr 407.771†	-1.3	-0.00017	mg/L	0.000062	-0.00017	mg/L	0.000062	37.06%
Li 670.784†	-8.0	-0.00058	mg/L	0.001115	-0.00058	mg/L	0.001115	191.10%

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Sequence No.: 41 **Autosampler Location: 57**
Sample ID: LCSW 47 WG353772-03 **Date Collected: 1/12/2011 3:11:20 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:55 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 47 WG353772-03

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: LCSW 47 WG353772-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4914422.3						45673.53	0.93%
YRADIAL	282473.7						3520.38	1.25%
Ga 417.206	1596665.9						30610.11	1.92%
GaRADIAL	76558.8						1306.47	1.71%
Ag 328.068†	41596.8	0.197	mg/L	0.0005	0.197	mg/L	0.0005	0.24%
Al 396.153†	26360.4	4.85	mg/L	0.035	4.85	mg/L	0.035	0.72%
As 188.979†	276.7	0.188	mg/L	0.0043	0.188	mg/L	0.0043	2.28%
Ba 233.527†	35006.2	0.492	mg/L	0.0054	0.492	mg/L	0.0054	1.10%

Approved: January 13, 2011
Pierce Morris

Be 234.861†	17860.1	0.0236	mg/L	0.00013	0.0236	mg/L	0.00013	0.54%
B 249.677†	56323.4	0.955	mg/L	0.0040	0.955	mg/L	0.0040	0.42%
Ca 227.546†	554.3	4.80	mg/L	0.119	4.80	mg/L	0.119	2.48%
Cd 228.802†	567.2	0.0235	mg/L	0.00037	0.0235	mg/L	0.00037	1.56%
Co 228.616†	2237.2	0.0964	mg/L	0.00122	0.0964	mg/L	0.00122	1.27%
Cr 267.716†	31900.4	0.247	mg/L	0.0030	0.247	mg/L	0.0030	1.22%
Cu 327.393†	38578.2	0.245	mg/L	0.0002	0.245	mg/L	0.0002	0.10%
Fe 239.562†	1350.0	1.95	mg/L	0.022	1.95	mg/L	0.022	1.13%
Mg 279.077†	5018.4	4.99	mg/L	0.039	4.99	mg/L	0.039	0.78%
Mn 257.610†	121128.1	0.247	mg/L	0.0032	0.247	mg/L	0.0032	1.31%
Mo 202.031†	8463.3	0.500	mg/L	0.0056	0.500	mg/L	0.0056	1.12%
Ni 231.604†	10516.1	0.248	mg/L	0.0030	0.248	mg/L	0.0030	1.22%
Pb 220.353†	1900.4	0.247	mg/L	0.0030	0.247	mg/L	0.0030	1.20%
Sb 206.836†	1212.1	0.588	mg/L	0.0122	0.588	mg/L	0.0122	2.07%
Se 196.026†	356.2	0.192	mg/L	0.0035	0.192	mg/L	0.0035	1.81%
Si 251.611†	95671.9	2.44	mg/L	0.009	2.44	mg/L	0.009	0.35%
Sn 189.927†	-17.6	-0.00088	mg/L	0.000908	-0.00088	mg/L	0.000908	102.89%
Ti 334.940†	401645.3	0.486	mg/L	0.0042	0.486	mg/L	0.0042	0.87%
Tl 190.801†	493.4	0.246	mg/L	0.0050	0.246	mg/L	0.0050	2.02%
V 290.880†	80993.6	0.487	mg/L	0.0062	0.487	mg/L	0.0062	1.26%
Zn 206.200†	20071.3	0.485	mg/L	0.0038	0.485	mg/L	0.0038	0.79%
K 766.490†	66025.5	24.6	mg/L	0.13	24.6	mg/L	0.13	0.51%
Na 589.592†	370931.9	27.0	mg/L	0.36	27.0	mg/L	0.36	1.35%
Sr 407.771†	871224.2	0.498	mg/L	0.0068	0.498	mg/L	0.0068	1.36%
Li 670.784†	41204.7	0.493	mg/L	0.0062	0.493	mg/L	0.0062	1.26%

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Sequence No.: 42 **Autosampler Location: 58**
Sample ID: FBLK WG353726-01 **Date Collected: 1/12/2011 3:18:02 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:16:56 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG353726-01

Analyte	**Back Pressure**	**Flow**
All	183.0 kPa	0.50 L/min

Mean Data: FBLK WG353726-01

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 371.029	5006440.0						80134.39	1.60%
YRADIAL	290065.3						2927.22	1.01%
Ga 417.206	1592460.6						41233.92	2.59%
GaRADIAL	76488.9						2234.56	2.92%
Ag 328.068†	55.7	0.00009	mg/L	0.000377	0.00009	mg/L	0.000377	402.92%
Al 396.153†	107.2	0.0139	mg/L	0.01144	0.0139	mg/L	0.01144	82.27%
As 188.979†	-9.3	-0.00450	mg/L	0.001958	-0.00450	mg/L	0.001958	43.50%
Ba 233.527†	31.6	-0.00036	mg/L	0.000020	-0.00036	mg/L	0.000020	5.71%
Be 234.861†	-106.4	-0.00010	mg/L	0.000017	-0.00010	mg/L	0.000017	16.73%
B 249.677†	885.2	0.0151	mg/L	0.00026	0.0151	mg/L	0.00026	1.70%
Ca 227.546†	12.4	0.113	mg/L	0.0313	0.113	mg/L	0.0313	27.77%
Cd 228.802†	5.3	0.00046	mg/L	0.000203	0.00046	mg/L	0.000203	44.16%
Co 228.616†	1.5	0.00003	mg/L	0.000176	0.00003	mg/L	0.000176	674.73%
Cr 267.716†	27.4	-0.00006	mg/L	0.000067	-0.00006	mg/L	0.000067	120.84%
Cu 327.393†	178.2	0.00100	mg/L	0.000662	0.00100	mg/L	0.000662	66.03%
Fe 239.562†	5.3	0.0108	mg/L	0.00261	0.0108	mg/L	0.00261	24.25%
Mg 279.077†	62.8	0.0643	mg/L	0.00518	0.0643	mg/L	0.00518	8.06%
Mn 257.610†	-154.3	0.00135	mg/L	0.000022	0.00135	mg/L	0.000022	1.66%
Mo 202.031†	-2.1	-0.00003	mg/L	0.000129	-0.00003	mg/L	0.000129	402.94%
Ni 231.604†	8.6	-0.00051	mg/L	0.000244	-0.00051	mg/L	0.000244	47.80%
Pb 220.353†	-4.7	-0.00106	mg/L	0.000572	-0.00106	mg/L	0.000572	54.18%
Sb 206.836†	0.7	0.00209	mg/L	0.002013	0.00209	mg/L	0.002013	96.19%
Se 196.026†	-9.1	-0.00231	mg/L	0.002370	-0.00231	mg/L	0.002370	102.74%
Si 251.611†	2164.9	0.0626	mg/L	0.00130	0.0626	mg/L	0.00130	2.08%
Sn 189.927†	-1.7	0.00128	mg/L	0.000243	0.00128	mg/L	0.000243	19.00%
Ti 334.940†	365.3	0.00394	mg/L	0.000220	0.00394	mg/L	0.000220	5.58%
Tl 190.801†	-4.5	-0.00208	mg/L	0.001355	-0.00208	mg/L	0.001355	65.25%
V 290.880†	188.8	0.00294	mg/L	0.000787	0.00294	mg/L	0.000787	26.82%
Zn 206.200†	296.6	0.00748	mg/L	0.000209	0.00748	mg/L	0.000209	2.80%
K 766.490†	488.3	0.0484	mg/L	0.01683	0.0484	mg/L	0.01683	34.78%

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Na 589.592†	1930070.1	139	mg/L	1.8	139	mg/L	1.8	1.29%
Sr 407.771†	1581.3	0.00074	mg/L	0.000065	0.00074	mg/L	0.000065	8.78%
Li 670.784†	77.6	0.00044	mg/L	0.000185	0.00044	mg/L	0.000185	41.92%

Sequence No.: 43 **Autosampler Location: 59**
Sample ID: L1101008901 **Date Collected: 1/12/2011 3:24:46 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:07 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101008901

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101008901

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4898736.7						30070.37	0.61%
YRADIAL	283546.2						2258.95	0.80%
Ga 417.206	1607202.8						13543.80	0.84%
GaRADIAL	76092.4						1487.55	1.95%
Ag 328.068†	1015.3	0.00459	mg/L	0.000856	0.00459	mg/L	0.000856	18.63%
Al 396.153†	47.2	0.00283	mg/L	0.006930	0.00283	mg/L	0.006930	245.26%
As 188.979†	21.5	0.0149	mg/L	0.00399	0.0149	mg/L	0.00399	26.69%
Ba 233.527†	2305.1	0.0316	mg/L	0.00019	0.0316	mg/L	0.00019	0.59%
Be 234.861†	-52.0	-0.00004	mg/L	0.000021	-0.00004	mg/L	0.000021	59.38%
B 249.677†	2137.3	0.0364	mg/L	0.00049	0.0364	mg/L	0.00049	1.34%
Ca 227.546†	9358.7	76.2	mg/L	0.83	76.2	mg/L	0.83	1.09%
Cd 228.802†	4.7	0.00029	mg/L	0.000091	0.00029	mg/L	0.000091	31.00%
Co 228.616†	-5.2	-0.00027	mg/L	0.000132	-0.00027	mg/L	0.000132	48.68%
Cr 267.716†	369.3	0.00259	mg/L	0.000025	0.00259	mg/L	0.000025	0.96%
Cu 327.393†	28.3	0.00006	mg/L	0.000755	0.00006	mg/L	0.000755	>999.9%
Fe 239.562†	21.7	0.0344	mg/L	0.00289	0.0344	mg/L	0.00289	8.42%
Mg 279.077†	1480.9	1.47	mg/L	0.020	1.47	mg/L	0.020	1.36%
Mn 257.610†	3917.9	0.0102	mg/L	0.00011	0.0102	mg/L	0.00011	1.09%
Mo 202.031†	5.8	0.00044	mg/L	0.000479	0.00044	mg/L	0.000479	108.82%
Ni 231.604†	30.0	-0.00003	mg/L	0.000168	-0.00003	mg/L	0.000168	633.94%
Pb 220.353†	-31.7	-0.00088	mg/L	0.000546	-0.00088	mg/L	0.000546	61.96%
Sb 206.836†	55.3	0.0280	mg/L	0.00334	0.0280	mg/L	0.00334	11.93%
Se 196.026†	-43.9	-0.00168	mg/L	0.002442	-0.00168	mg/L	0.002442	145.22%
Si 251.611†	112531.6	2.88	mg/L	0.061	2.88	mg/L	0.061	2.13%
Sn 189.927†	-98.8	-0.0119	mg/L	0.00078	-0.0119	mg/L	0.00078	6.57%
Ti 334.940†	-680.3	0.00344	mg/L	0.000116	0.00344	mg/L	0.000116	3.36%
Tl 190.801†	71.7	0.0282	mg/L	0.00302	0.0282	mg/L	0.00302	10.73%
V 290.880†	308.9	0.00373	mg/L	0.000335	0.00373	mg/L	0.000335	8.97%
Zn 206.200†	230.1	0.00589	mg/L	0.000194	0.00589	mg/L	0.000194	3.29%
K 766.490†	2898.7	0.941	mg/L	0.0065	0.941	mg/L	0.0065	0.69%
Na 589.592†	2025071.2	146	mg/L	3.0	146	mg/L	3.0	2.06%
Sr 407.771†	215494.9	0.123	mg/L	0.0001	0.123	mg/L	0.0001	0.05%
Li 670.784†	433.5	0.00471	mg/L	0.000735	0.00471	mg/L	0.000735	15.61%

Sequence No.: 44 **Autosampler Location: 60**
Sample ID: L1101008901PS WG353813-01 **Date Collected: 1/12/2011 3:31:32 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:08 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101008901PS WG353813-01

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101008901PS WG353813-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4842130.5						39805.57	0.82%

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YRADIAL	278823.4					8199.91	2.94%
Ga 417.206	1576066.1					13569.11	0.86%
GaRADIAL	75732.4					1291.62	1.71%
Ag 328.068†	42424.6	0.201	mg/L	0.0015	0.201 mg/L	0.0015	0.76%
Al 396.153†	25976.8	4.78	mg/L	0.015	4.78 mg/L	0.015	0.32%
As 188.979†	294.3	0.199	mg/L	0.0019	0.199 mg/L	0.0019	0.95%
Ba 233.527†	35703.3	0.502	mg/L	0.0029	0.502 mg/L	0.0029	0.57%
Be 234.861†	18082.4	0.0239	mg/L	0.00013	0.0239 mg/L	0.00013	0.56%
B 249.677†	57962.4	0.983	mg/L	0.0114	0.983 mg/L	0.0114	1.16%
Ca 227.546†	9180.3	75.1	mg/L	0.38	75.1 mg/L	0.38	0.51%
Cd 228.802†	562.1	0.0231	mg/L	0.00012	0.0231 mg/L	0.00012	0.51%
Co 228.616†	2160.8	0.0931	mg/L	0.00058	0.0931 mg/L	0.00058	0.63%
Cr 267.716†	31482.2	0.244	mg/L	0.0003	0.244 mg/L	0.0003	0.11%
Cu 327.393†	38332.7	0.244	mg/L	0.0026	0.244 mg/L	0.0026	1.05%
Fe 239.562†	1339.3	1.94	mg/L	0.037	1.94 mg/L	0.037	1.90%
Mg 279.077†	6204.9	6.17	mg/L	0.135	6.17 mg/L	0.135	2.18%
Mn 257.610†	121381.6	0.249	mg/L	0.0010	0.249 mg/L	0.0010	0.42%
Mo 202.031†	8382.0	0.496	mg/L	0.0031	0.496 mg/L	0.0031	0.63%
Ni 231.604†	10185.4	0.240	mg/L	0.0014	0.240 mg/L	0.0014	0.57%
Pb 220.353†	1807.0	0.238	mg/L	0.0014	0.238 mg/L	0.0014	0.57%
Sb 206.836†	1260.7	0.611	mg/L	0.0020	0.611 mg/L	0.0020	0.33%
Se 196.026†	312.3	0.186	mg/L	0.0024	0.186 mg/L	0.0024	1.30%
Si 251.611†	198499.3	5.07	mg/L	0.053	5.07 mg/L	0.053	1.04%
Sn 189.927†	-94.2	-0.0113	mg/L	0.00126	-0.0113 mg/L	0.00126	11.13%
Ti 334.940†	397418.3	0.482	mg/L	0.0008	0.482 mg/L	0.0008	0.16%
Tl 190.801†	544.0	0.264	mg/L	0.0027	0.264 mg/L	0.0027	1.03%
V 290.880†	80356.4	0.484	mg/L	0.0026	0.484 mg/L	0.0026	0.55%
Zn 206.200†	19832.4	0.479	mg/L	0.0018	0.479 mg/L	0.0018	0.38%
K 766.490†	68030.2	25.2	mg/L	0.06	25.2 mg/L	0.06	0.22%
Na 589.592†	2164260.3	156	mg/L	4.7	156 mg/L	4.7	3.00%
Sr 407.771†	1041480.3	0.596	mg/L	0.0240	0.596 mg/L	0.0240	4.03%
Li 670.784†	41269.3	0.494	mg/L	0.0035	0.494 mg/L	0.0035	0.70%

Sequence No.: 45
Sample ID: L1101008901DL WG353813-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 1/12/2011 3:38:16 PM
Data Type: Reprocessed on 1/13/2011 10:17:09 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101008901DL WG353813-02

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101008901DL WG353813-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4906679.6						56981.41	1.16%
YRADIAL	282794.9						5792.26	2.05%
Ga 417.206	1632234.1						23914.14	1.47%
GaRADIAL	75588.6						361.26	0.48%
Ag 328.068†	286.9	0.00118	mg/L	0.000396	0.00118	mg/L	0.000396	33.65%
Al 396.153†	64.4	0.00601	mg/L	0.009266	0.00601	mg/L	0.009266	154.29%
As 188.979†	5.6	0.00533	mg/L	0.001769	0.00533	mg/L	0.001769	33.17%
Ba 233.527†	476.2	0.00589	mg/L	0.000170	0.00589	mg/L	0.000170	2.89%
Be 234.861†	16.8	0.00006	mg/L	0.000026	0.00006	mg/L	0.000026	44.19%
B 249.677†	1069.9	0.0182	mg/L	0.00006	0.0182	mg/L	0.00006	0.36%
Ca 227.546†	1838.2	15.0	mg/L	0.16	15.0	mg/L	0.16	1.07%
Cd 228.802†	5.5	0.00040	mg/L	0.000099	0.00040	mg/L	0.000099	24.77%
Co 228.616†	-3.6	-0.00020	mg/L	0.000302	-0.00020	mg/L	0.000302	153.21%
Cr 267.716†	70.7	0.00028	mg/L	0.000031	0.00028	mg/L	0.000031	11.14%
Cu 327.393†	-1.3	-0.00014	mg/L	0.000596	-0.00014	mg/L	0.000596	437.34%
Fe 239.562†	7.2	0.0136	mg/L	0.00412	0.0136	mg/L	0.00412	30.41%
Mg 279.077†	353.9	0.353	mg/L	0.0023	0.353	mg/L	0.0023	0.65%
Mn 257.610†	675.2	0.00218	mg/L	0.000037	0.00218	mg/L	0.000037	1.70%
Mo 202.031†	1.1	0.00016	mg/L	0.000231	0.00016	mg/L	0.000231	142.88%
Ni 231.604†	19.6	-0.00026	mg/L	0.000156	-0.00026	mg/L	0.000156	60.42%
Pb 220.353†	-9.1	-0.00091	mg/L	0.001580	-0.00091	mg/L	0.001580	173.68%
Sb 206.836†	12.7	0.00777	mg/L	0.000873	0.00777	mg/L	0.000873	11.24%
Se 196.026†	-24.7	-0.00686	mg/L	0.001111	-0.00686	mg/L	0.001111	16.20%

Approved: January 13, 2011

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Si 251.611†	23095.8	0.597 mg/L	0.0194	0.597 mg/L	0.0194	3.24%
Sn 189.927†	-41.9	-0.00417 mg/L	0.001078	-0.00417 mg/L	0.001078	25.84%
Ti 334.940†	-258.2	0.00334 mg/L	0.000125	0.00334 mg/L	0.000125	3.74%
Tl 190.801†	22.7	0.00985 mg/L	0.003342	0.00985 mg/L	0.003342	33.93%
V 290.880†	127.8	0.00259 mg/L	0.000850	0.00259 mg/L	0.000850	32.88%
Zn 206.200†	171.0	0.00445 mg/L	0.000053	0.00445 mg/L	0.000053	1.19%
K 766.490†	918.5	0.313 mg/L	0.0328	0.313 mg/L	0.0328	10.46%
Na 589.592†	475319.0	34.6 mg/L	0.63	34.6 mg/L	0.63	1.83%
Sr 407.771†	50158.0	0.0285 mg/L	0.00019	0.0285 mg/L	0.00019	0.67%
Li 670.784†	15.5	-0.00030 mg/L	0.001069	-0.00030 mg/L	0.001069	354.41%

Sequence No.: 46 **Autosampler Location: 62**
Sample ID: L1101011101 **Date Collected: 1/12/2011 3:45:02 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:10 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011101

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101011101

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4926295.8						12519.17	0.25%
YRADIAL	290742.4						10794.52	3.71%
Ga 417.206	1598739.9						4606.18	0.29%
GaRADIAL	77458.2						1383.67	1.79%
Ag 328.068†	129.6	0.00045	mg/L	0.000160	0.00045	mg/L	0.000160	35.28%
Al 396.153†	3636.8	0.666	mg/L	0.0098	0.666	mg/L	0.0098	1.48%
As 188.979†	-2.4	0.00028	mg/L	0.003167	0.00028	mg/L	0.003167	>999.9%
Ba 233.527†	1761.2	0.0239	mg/L	0.00005	0.0239	mg/L	0.00005	0.22%
Be 234.861†	-1.8	-0.00017	mg/L	0.000095	-0.00017	mg/L	0.000095	55.35%
B 249.677†	1572.7	0.0309	mg/L	0.00048	0.0309	mg/L	0.00048	1.56%
Ca 227.546†	209.7	1.73	mg/L	0.063	1.73	mg/L	0.063	3.62%
Cd 228.802†	11.1	0.00068	mg/L	0.000139	0.00068	mg/L	0.000139	20.41%
Co 228.616†	30.9	0.00127	mg/L	0.000354	0.00127	mg/L	0.000354	27.97%
Cr 267.716†	182.9	0.00101	mg/L	0.000151	0.00101	mg/L	0.000151	14.86%
Cu 327.393†	452.3	0.00282	mg/L	0.000382	0.00282	mg/L	0.000382	13.52%
Fe 239.562†	744.8	1.08	mg/L	0.025	1.08	mg/L	0.025	2.35%
Mg 279.077†	350.6	0.350	mg/L	0.0128	0.350	mg/L	0.0128	3.67%
Mn 257.610†	209696.6	0.424	mg/L	0.0032	0.424	mg/L	0.0032	0.76%
Mo 202.031†	-1.0	0.00018	mg/L	0.000029	0.00018	mg/L	0.000029	16.24%
Ni 231.604†	47.1	0.00040	mg/L	0.000129	0.00040	mg/L	0.000129	32.07%
Pb 220.353†	4.8	0.00022	mg/L	0.000515	0.00022	mg/L	0.000515	238.23%
Sb 206.836†	-0.5	0.00150	mg/L	0.001691	0.00150	mg/L	0.001691	112.90%
Se 196.026†	-2.4	0.00155	mg/L	0.000727	0.00155	mg/L	0.000727	46.75%
Si 251.611†	4704.4	0.127	mg/L	0.0043	0.127	mg/L	0.0043	3.36%
Sn 189.927†	-5.1	0.00082	mg/L	0.000541	0.00082	mg/L	0.000541	65.83%
Ti 334.940†	4471.5	0.00889	mg/L	0.000054	0.00889	mg/L	0.000054	0.60%
Tl 190.801†	-2.9	-0.00077	mg/L	0.001944	-0.00077	mg/L	0.001944	252.54%
V 290.880†	411.9	0.00424	mg/L	0.001143	0.00424	mg/L	0.001143	26.96%
Zn 206.200†	468.5	0.0116	mg/L	0.00008	0.0116	mg/L	0.00008	0.69%
K 766.490†	1073.5	0.261	mg/L	0.0341	0.261	mg/L	0.0341	13.05%
Na 589.592†	2010147.3	145	mg/L	5.5	145	mg/L	5.5	3.79%
Sr 407.771†	14657.3	0.00812	mg/L	0.000006	0.00812	mg/L	0.000006	0.07%
Li 670.784†	147.0	0.00127	mg/L	0.001227	0.00127	mg/L	0.001227	96.36%

Sequence No.: 47 **Autosampler Location: 63**
Sample ID: L1101016315 **Date Collected: 1/12/2011 3:51:48 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:11 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101016315

Analyte	Back Pressure	Flow

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All	182.0 kPa	0.50 L/min

Mean Data: L1101016315

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4953537.6						87102.49	1.76%
YRADIAL	293229.2						1491.10	0.51%
Ga 417.206	1606734.1						49731.15	3.10%
GaRADIAL	77855.2						1490.28	1.91%
Ag 328.068†	493.9	0.00214	mg/L	0.000558	0.00214	mg/L	0.000558	26.04%
Al 396.153†	873.7	0.155	mg/L	0.0062	0.155	mg/L	0.0062	3.99%
As 188.979†	14.5	0.0111	mg/L	0.00455	0.0111	mg/L	0.00455	40.98%
Ba 233.527†	2160.2	0.0295	mg/L	0.00038	0.0295	mg/L	0.00038	1.28%
Be 234.861†	-27.2	-0.00003	mg/L	0.000026	-0.00003	mg/L	0.000026	83.96%
B 249.677†	1320.0	0.0233	mg/L	0.00092	0.0233	mg/L	0.00092	3.96%
Ca 227.546†	4045.6	33.0	mg/L	1.02	33.0	mg/L	1.02	3.09%
Cd 228.802†	5.0	0.00035	mg/L	0.000158	0.00035	mg/L	0.000158	45.19%
Co 228.616†	18.6	0.00076	mg/L	0.000074	0.00076	mg/L	0.000074	9.73%
Cr 267.716†	66.1	0.00018	mg/L	0.000133	0.00018	mg/L	0.000133	76.06%
Cu 327.393†	92.7	0.00048	mg/L	0.000511	0.00048	mg/L	0.000511	107.07%
Fe 239.562†	162.9	0.238	mg/L	0.0053	0.238	mg/L	0.0053	2.24%
Mg 279.077†	3298.9	3.28	mg/L	0.029	3.28	mg/L	0.029	0.88%
Mn 257.610†	90428.3	0.184	mg/L	0.0026	0.184	mg/L	0.0026	1.42%
Mo 202.031†	0.4	0.00017	mg/L	0.000679	0.00017	mg/L	0.000679	402.99%
Ni 231.604†	52.6	0.00052	mg/L	0.000250	0.00052	mg/L	0.000250	48.36%
Pb 220.353†	-15.4	-0.00087	mg/L	0.002012	-0.00087	mg/L	0.002012	230.14%
Sb 206.836†	28.1	0.0151	mg/L	0.00166	0.0151	mg/L	0.00166	11.02%
Se 196.026†	-25.6	-0.00286	mg/L	0.000753	-0.00286	mg/L	0.000753	26.35%
Si 251.611†	5615.4	0.151	mg/L	0.0086	0.151	mg/L	0.0086	5.70%
Sn 189.927†	-65.6	-0.00739	mg/L	0.000186	-0.00739	mg/L	0.000186	2.52%
Ti 334.940†	596.5	0.00455	mg/L	0.000212	0.00455	mg/L	0.000212	4.67%
Tl 190.801†	46.9	0.0203	mg/L	0.00137	0.0203	mg/L	0.00137	6.76%
V 290.880†	81.9	0.00247	mg/L	0.001393	0.00247	mg/L	0.001393	56.33%
Zn 206.200†	393.9	0.00982	mg/L	0.000213	0.00982	mg/L	0.000213	2.16%
K 766.490†	529.9	0.0603	mg/L	0.02304	0.0603	mg/L	0.02304	38.19%
Na 589.592†	1980902.4	143	mg/L	4.5	143	mg/L	4.5	3.12%
Sr 407.771†	42008.9	0.0239	mg/L	0.00020	0.0239	mg/L	0.00020	0.86%
Li 670.784†	107.2	0.00080	mg/L	0.000611	0.00080	mg/L	0.000611	76.70%

Sequence No.: 48 **Autosampler Location: 64**
Sample ID: L1101016316 **Date Collected: 1/12/2011 3:58:25 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:12 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101016316

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: L1101016316

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4906102.1						79118.38	1.61%
YRADIAL	296068.2						4407.47	1.49%
Ga 417.206	1597916.8						32895.94	2.06%
GaRADIAL	78431.1						1118.88	1.43%
Ag 328.068†	201.1	0.00078	mg/L	0.000706	0.00078	mg/L	0.000706	91.09%
Al 396.153†	493.2	0.0852	mg/L	0.01252	0.0852	mg/L	0.01252	14.70%
As 188.979†	1.1	0.00248	mg/L	0.003931	0.00248	mg/L	0.003931	158.62%
Ba 233.527†	1364.1	0.0184	mg/L	0.00024	0.0184	mg/L	0.00024	1.32%
Be 234.861†	-82.9	-0.00008	mg/L	0.000015	-0.00008	mg/L	0.000015	17.72%
B 249.677†	1420.3	0.0244	mg/L	0.00166	0.0244	mg/L	0.00166	6.82%
Ca 227.546†	732.4	5.98	mg/L	0.124	5.98	mg/L	0.124	2.07%
Cd 228.802†	5.8	0.00044	mg/L	0.000128	0.00044	mg/L	0.000128	29.21%
Co 228.616†	14.5	0.00058	mg/L	0.000090	0.00058	mg/L	0.000090	15.65%
Cr 267.716†	69.1	0.00025	mg/L	0.000052	0.00025	mg/L	0.000052	21.01%
Cu 327.393†	328.8	0.00197	mg/L	0.000633	0.00197	mg/L	0.000633	32.20%
Fe 239.562†	57.7	0.0864	mg/L	0.00097	0.0864	mg/L	0.00097	1.12%

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Mg 279.077†	1052.3	1.05	mg/L	0.012	1.05	mg/L	0.012	1.18%
Mn 257.610†	26891.2	0.0559	mg/L	0.00071	0.0559	mg/L	0.00071	1.27%
Mo 202.031†	4.1	0.00035	mg/L	0.000167	0.00035	mg/L	0.000167	47.92%
Ni 231.604†	43.8	0.00032	mg/L	0.000246	0.00032	mg/L	0.000246	76.67%
Pb 220.353†	18.0	0.00214	mg/L	0.000310	0.00214	mg/L	0.000310	14.51%
Sb 206.836†	8.3	0.00570	mg/L	0.001207	0.00570	mg/L	0.001207	21.17%
Se 196.026†	-10.1	-0.00137	mg/L	0.002881	-0.00137	mg/L	0.002881	210.07%
Si 251.611†	9496.1	0.250	mg/L	0.0053	0.250	mg/L	0.0053	2.11%
Sn 189.927†	-18.8	-0.00104	mg/L	0.000457	-0.00104	mg/L	0.000457	43.78%
Ti 334.940†	3753.3	0.00807	mg/L	0.000279	0.00807	mg/L	0.000279	3.46%
Tl 190.801†	7.0	0.00314	mg/L	0.001413	0.00314	mg/L	0.001413	44.99%
V 290.880†	207.0	0.00310	mg/L	0.000838	0.00310	mg/L	0.000838	27.06%
Zn 206.200†	551.1	0.0136	mg/L	0.00020	0.0136	mg/L	0.00020	1.49%
K 766.490†	668.2	0.114	mg/L	0.0521	0.114	mg/L	0.0521	45.75%
Na 589.592†	1952945.4	141	mg/L	2.5	141	mg/L	2.5	1.78%
Sr 407.771†	15171.2	0.00851	mg/L	0.000145	0.00851	mg/L	0.000145	1.70%
Li 670.784†	-69.9	-0.00133	mg/L	0.000332	-0.00133	mg/L	0.000332	25.08%

Sequence No.: 49 **Autosampler Location: 65**
Sample ID: L1101016317 **Date Collected: 1/12/2011 4:05:10 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:24 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101016317

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101016317

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4950296.9						76572.27	1.55%
YRADIAL	287715.1						9268.33	3.22%
Ga 417.206	1557080.1						26846.09	1.72%
GaRADIAL	75589.4						1105.82	1.46%
Ag 328.068†	218.0	0.00087	mg/L	0.000818	0.00087	mg/L	0.000818	94.62%
Al 396.153†	465.2	0.0800	mg/L	0.00551	0.0800	mg/L	0.00551	6.89%
As 188.979†	-5.3	-0.00181	mg/L	0.001670	-0.00181	mg/L	0.001670	92.44%
Ba 233.527†	1390.5	0.0187	mg/L	0.00024	0.0187	mg/L	0.00024	1.28%
Be 234.861†	-62.8	-0.00008	mg/L	0.000016	-0.00008	mg/L	0.000016	19.47%
B 249.677†	1430.5	0.0250	mg/L	0.00053	0.0250	mg/L	0.00053	2.12%
Ca 227.546†	411.1	3.36	mg/L	0.016	3.36	mg/L	0.016	0.48%
Cd 228.802†	4.5	0.00041	mg/L	0.000221	0.00041	mg/L	0.000221	53.65%
Co 228.616†	6.7	0.00024	mg/L	0.000069	0.00024	mg/L	0.000069	28.53%
Cr 267.716†	47.3	0.00009	mg/L	0.000048	0.00009	mg/L	0.000048	51.23%
Cu 327.393†	310.9	0.00186	mg/L	0.000456	0.00186	mg/L	0.000456	24.52%
Fe 239.562†	115.5	0.170	mg/L	0.0052	0.170	mg/L	0.0052	3.07%
Mg 279.077†	498.7	0.497	mg/L	0.0052	0.497	mg/L	0.0052	1.04%
Mn 257.610†	15356.5	0.0326	mg/L	0.00054	0.0326	mg/L	0.00054	1.65%
Mo 202.031†	3.0	0.00029	mg/L	0.000176	0.00029	mg/L	0.000176	61.50%
Ni 231.604†	14.6	-0.00037	mg/L	0.000240	-0.00037	mg/L	0.000240	64.62%
Pb 220.353†	0.2	-0.00028	mg/L	0.000239	-0.00028	mg/L	0.000239	86.52%
Sb 206.836†	1.8	0.00264	mg/L	0.002559	0.00264	mg/L	0.002559	96.83%
Se 196.026†	0.0	0.00336	mg/L	0.004611	0.00336	mg/L	0.004611	137.19%
Si 251.611†	6420.0	0.171	mg/L	0.0038	0.171	mg/L	0.0038	2.21%
Sn 189.927†	-11.2	0.00000	mg/L	0.000303	0.00000	mg/L	0.000303	>999.9%
Ti 334.940†	1815.8	0.00572	mg/L	0.000205	0.00572	mg/L	0.000205	3.58%
Tl 190.801†	6.6	0.00308	mg/L	0.001441	0.00308	mg/L	0.001441	46.80%
V 290.880†	357.3	0.00396	mg/L	0.000292	0.00396	mg/L	0.000292	7.38%
Zn 206.200†	308.7	0.00777	mg/L	0.000108	0.00777	mg/L	0.000108	1.39%
K 766.490†	561.9	0.0755	mg/L	0.04228	0.0755	mg/L	0.04228	55.98%
Na 589.592†	1935132.5	139	mg/L	2.0	139	mg/L	2.0	1.46%
Sr 407.771†	9118.5	0.00504	mg/L	0.000279	0.00504	mg/L	0.000279	5.55%
Li 670.784†	-61.9	-0.00123	mg/L	0.000710	-0.00123	mg/L	0.000710	57.80%

Sequence No.: 50 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 4:11:52 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:17:25 AM**

Approved: January 13, 2011
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Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4786298.2						25974.40	0.54%
YRADIAL	278782.3						3824.02	1.37%
Ga 417.206	1558584.5						21712.60	1.39%
GaRADIAL	74590.0						1703.98	2.28%
Ag 328.068†	84557.7	0.400	mg/L	0.0040	0.400	mg/L	0.0040	1.00%
QC value within limits for Ag 328.068 Recovery = 99.97%								
Al 396.153†	54308.1	10.0	mg/L	0.01	10.0	mg/L	0.01	0.15%
QC value within limits for Al 396.153 Recovery = 100.08%								
As 188.979†	582.4	0.395	mg/L	0.0052	0.395	mg/L	0.0052	1.32%
QC value within limits for As 188.979 Recovery = 98.67%								
Ba 233.527†	70883.1	0.997	mg/L	0.0045	0.997	mg/L	0.0045	0.45%
QC value within limits for Ba 233.527 Recovery = 99.71%								
Be 234.861†	38025.4	0.0502	mg/L	0.00044	0.0502	mg/L	0.00044	0.88%
QC value within limits for Be 234.861 Recovery = 100.43%								
B 249.677†	29695.8	0.508	mg/L	0.0040	0.508	mg/L	0.0040	0.79%
QC value within limits for B 249.677 Recovery = 101.68%								
Ca 227.546†	1194.4	10.3	mg/L	0.06	10.3	mg/L	0.06	0.63%
QC value within limits for Ca 227.546 Recovery = 102.97%								
Cd 228.802†	1193.4	0.0491	mg/L	0.00095	0.0491	mg/L	0.00095	1.93%
QC value within limits for Cd 228.802 Recovery = 98.10%								
Co 228.616†	4566.8	0.197	mg/L	0.0010	0.197	mg/L	0.0010	0.52%
QC value within limits for Co 228.616 Recovery = 98.44%								
Cr 267.716†	64225.3	0.497	mg/L	0.0027	0.497	mg/L	0.0027	0.55%
QC value within limits for Cr 267.716 Recovery = 99.50%								
Cu 327.393†	78820.1	0.502	mg/L	0.0068	0.502	mg/L	0.0068	1.35%
QC value within limits for Cu 327.393 Recovery = 100.34%								
Fe 239.562†	2741.6	3.96	mg/L	0.065	3.96	mg/L	0.065	1.65%
QC value within limits for Fe 239.562 Recovery = 99.02%								
Mg 279.077†	10001.5	9.94	mg/L	0.113	9.94	mg/L	0.113	1.14%
QC value within limits for Mg 279.077 Recovery = 99.38%								
Mn 257.610†	245515.4	0.500	mg/L	0.0018	0.500	mg/L	0.0018	0.37%
QC value within limits for Mn 257.610 Recovery = 99.99%								
Mo 202.031†	16918.8	1.00	mg/L	0.004	1.00	mg/L	0.004	0.38%
QC value within limits for Mo 202.031 Recovery = 100.03%								
Ni 231.604†	21127.4	0.499	mg/L	0.0029	0.499	mg/L	0.0029	0.58%
QC value within limits for Ni 231.604 Recovery = 99.89%								
Pb 220.353†	3883.5	0.505	mg/L	0.0024	0.505	mg/L	0.0024	0.47%
QC value within limits for Pb 220.353 Recovery = 100.94%								
Sb 206.836†	2508.1	1.22	mg/L	0.012	1.22	mg/L	0.012	1.02%
QC value within limits for Sb 206.836 Recovery = 102.04%								
Se 196.026†	749.0	0.401	mg/L	0.0064	0.401	mg/L	0.0064	1.59%
QC value within limits for Se 196.026 Recovery = 100.31%								
Si 251.611†	193122.0	4.93	mg/L	0.053	4.93	mg/L	0.053	1.07%
QC value within limits for Si 251.611 Recovery = 98.52%								
Sn 189.927†	7343.4	0.998	mg/L	0.0031	0.998	mg/L	0.0031	0.31%
QC value within limits for Sn 189.927 Recovery = 99.78%								
Ti 334.940†	822153.6	0.992	mg/L	0.0011	0.992	mg/L	0.0011	0.11%
QC value within limits for Ti 334.940 Recovery = 99.19%								
Tl 190.801†	1031.8	0.514	mg/L	0.0047	0.514	mg/L	0.0047	0.91%
QC value within limits for Tl 190.801 Recovery = 102.83%								
V 290.880†	164539.1	0.988	mg/L	0.0024	0.988	mg/L	0.0024	0.24%
QC value within limits for V 290.880 Recovery = 98.81%								
Zn 206.200†	41227.1	0.996	mg/L	0.0025	0.996	mg/L	0.0025	0.26%
QC value within limits for Zn 206.200 Recovery = 99.61%								
K 766.490†	135903.2	50.5	mg/L	0.09	50.5	mg/L	0.09	0.19%
QC value within limits for K 766.490 Recovery = 101.02%								
Na 589.592†	701790.1	51.0	mg/L	0.80	51.0	mg/L	0.80	1.56%
QC value within limits for Na 589.592 Recovery = 101.93%								
Sr 407.771†	1735054.2	0.992	mg/L	0.0083	0.992	mg/L	0.0083	0.84%
QC value within limits for Sr 407.771 Recovery = 99.24%								

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Li 670.784†            84708.5        1.01 mg/L         0.009        1.01 mg/L         0.009   0.91%
   QC value within limits for Li 670.784  Recovery = 101.45%
All analyte(s) passed QC.
```

Sequence No.: 51 | **Autosampler Location: 1**
Sample ID: CCB | **Date Collected: 1/12/2011 4:18:39 PM**
Analyst: | **Data Type: Reprocessed on 1/13/2011 10:17:26 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5035149.2						8469.84	0.17%
YRADIAL	290411.5						5277.88	1.82%
Ga 417.206	1662388.4						24061.06	1.45%
GaRADIAL	77833.4						1980.51	2.54%
Ag 328.068†	121.0	0.00040	mg/L	0.000807	0.00040	mg/L	0.000807	201.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	0.8	-0.00574	mg/L	0.010551	-0.00574	mg/L	0.010551	183.71%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.5	0.00080	mg/L	0.001779	0.00080	mg/L	0.001779	223.45%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	9.3	-0.00067	mg/L	0.000042	-0.00067	mg/L	0.000042	6.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	8.6	0.00005	mg/L	0.000008	0.00005	mg/L	0.000008	15.81%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	432.3	0.00740	mg/L	0.000756	0.00740	mg/L	0.000756	10.22%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-2.1	-0.00471	mg/L	0.059385	-0.00471	mg/L	0.059385	>999.9%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.7	0.00032	mg/L	0.000046	0.00032	mg/L	0.000046	14.44%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.5	0.00016	mg/L	0.000303	0.00016	mg/L	0.000303	191.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-12.9	-0.00037	mg/L	0.000047	-0.00037	mg/L	0.000047	12.91%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	46.1	0.00016	mg/L	0.000119	0.00016	mg/L	0.000119	73.76%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.3	0.00354	mg/L	0.001655	0.00354	mg/L	0.001655	46.72%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	0.5	0.00245	mg/L	0.005373	0.00245	mg/L	0.005373	219.17%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-318.1	-0.00027	mg/L	0.000024	-0.00027	mg/L	0.000024	8.92%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.1	-0.00003	mg/L	0.000256	-0.00003	mg/L	0.000256	868.53%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	20.0	-0.00024	mg/L	0.000169	-0.00024	mg/L	0.000169	69.47%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-4.4	-0.00103	mg/L	0.000702	-0.00103	mg/L	0.000702	67.84%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.5	0.00011	mg/L	0.002719	0.00011	mg/L	0.002719	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.4	0.00017	mg/L	0.001731	0.00017	mg/L	0.001731	991.67%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-190.6	0.00242	mg/L	0.000537	0.00242	mg/L	0.000537	22.22%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	5.9	0.00231	mg/L	0.000615	0.00231	mg/L	0.000615	26.63%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-3.2	0.00350	mg/L	0.000041	0.00350	mg/L	0.000041	1.18%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	4.5	0.00231	mg/L	0.000262	0.00231	mg/L	0.000262	11.33%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	117.9	0.00251	mg/L	0.000441	0.00251	mg/L	0.000441	17.58%
QC value within limits for V 290.880 Recovery = Not calculated								

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Zn 206.200†	2.8	0.00040 mg/L	0.000154	0.00040 mg/L	0.000154	38.61%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	91.1	0.0391 mg/L	0.04849	0.0391 mg/L	0.04849	124.09%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	1112.9	0.0631 mg/L	0.00733	0.0631 mg/L	0.00733	11.63%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	-13.3	-0.00017 mg/L	0.000033	-0.00017 mg/L	0.000033	18.75%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	262.9	0.00266 mg/L	0.000830	0.00266 mg/L	0.000830	31.17%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

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Sequence No.: 52 **Autosampler Location: 66**
Sample ID: L1101016318 **Date Collected: 1/12/2011 4:23:37 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:27 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101016318

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101016318

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4927484.2						29270.89	0.59%
YRADIAL	290263.4						5749.69	1.98%
Ga 417.206	1586595.9						11023.18	0.69%
GaRADIAL	76326.6						2933.37	3.84%
Ag 328.068†	113.5	0.00037	mg/L	0.000097	0.00037	mg/L	0.000097	26.60%
Al 396.153†	466.3	0.0802	mg/L	0.00854	0.0802	mg/L	0.00854	10.64%
As 188.979†	0.2	0.00191	mg/L	0.001201	0.00191	mg/L	0.001201	62.90%
Ba 233.527†	1264.5	0.0170	mg/L	0.00012	0.0170	mg/L	0.00012	0.70%
Be 234.861†	-45.8	-0.00004	mg/L	0.000004	-0.00004	mg/L	0.000004	9.16%
B 249.677†	1049.4	0.0182	mg/L	0.00087	0.0182	mg/L	0.00087	4.77%
Ca 227.546†	544.5	4.45	mg/L	0.095	4.45	mg/L	0.095	2.14%
Cd 228.802†	10.3	0.00065	mg/L	0.000182	0.00065	mg/L	0.000182	27.90%
Co 228.616†	62.6	0.00268	mg/L	0.000109	0.00268	mg/L	0.000109	4.07%
Cr 267.716†	43.0	0.00006	mg/L	0.000081	0.00006	mg/L	0.000081	144.66%
Cu 327.393†	284.1	0.00168	mg/L	0.000733	0.00168	mg/L	0.000733	43.58%
Fe 239.562†	76.4	0.113	mg/L	0.0017	0.113	mg/L	0.0017	1.52%
Mg 279.077†	868.1	0.864	mg/L	0.0204	0.864	mg/L	0.0204	2.36%
Mn 257.610†	16261.6	0.0345	mg/L	0.00013	0.0345	mg/L	0.00013	0.38%
Mo 202.031†	-0.9	0.00005	mg/L	0.000358	0.00005	mg/L	0.000358	711.36%
Ni 231.604†	150.6	0.00285	mg/L	0.000007	0.00285	mg/L	0.000007	0.23%
Pb 220.353†	7.4	0.00070	mg/L	0.001047	0.00070	mg/L	0.001047	149.05%
Sb 206.836†	5.3	0.00426	mg/L	0.003051	0.00426	mg/L	0.003051	71.57%
Se 196.026†	-5.0	0.00094	mg/L	0.004513	0.00094	mg/L	0.004513	479.45%
Si 251.611†	9168.1	0.242	mg/L	0.0045	0.242	mg/L	0.0045	1.87%
Sn 189.927†	-13.9	-0.00037	mg/L	0.000796	-0.00037	mg/L	0.000796	215.26%
Ti 334.940†	2422.9	0.00646	mg/L	0.000245	0.00646	mg/L	0.000245	3.79%
Tl 190.801†	5.4	0.00240	mg/L	0.002978	0.00240	mg/L	0.002978	124.12%
V 290.880†	144.8	0.00271	mg/L	0.000783	0.00271	mg/L	0.000783	28.86%
Zn 206.200†	459.2	0.0114	mg/L	0.00017	0.0114	mg/L	0.00017	1.51%
K 766.490†	697.5	0.126	mg/L	0.0112	0.126	mg/L	0.0112	8.93%
Na 589.592†	1940513.1	140	mg/L	2.1	140	mg/L	2.1	1.47%
Sr 407.771†	12980.0	0.00725	mg/L	0.000140	0.00725	mg/L	0.000140	1.94%
Li 670.784†	-162.0	-0.00243	mg/L	0.000483	-0.00243	mg/L	0.000483	19.89%

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Sequence No.: 53 **Autosampler Location: 67**
Sample ID: L1101019001 **Date Collected: 1/12/2011 4:30:20 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:28 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101019001

Approved: January 13, 2011
Pierce Morris

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101019001

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4856475.1						71197.23	1.47%
YRADIAL	285262.7						3475.25	1.22%
Ga 417.206	1591802.7						21763.60	1.37%
GaRADIAL	76397.9						1092.70	1.43%
Ag 328.068†	1035.7	0.00462	mg/L	0.000464	0.00462	mg/L	0.000464	10.04%
Al 396.153†	5.3	-0.00492	mg/L	0.003599	-0.00492	mg/L	0.003599	73.16%
As 188.979†	20.8	0.0145	mg/L	0.00716	0.0145	mg/L	0.00716	49.29%
Ba 233.527†	4542.7	0.0630	mg/L	0.00096	0.0630	mg/L	0.00096	1.53%
Be 234.861†	-111.1	-0.00005	mg/L	0.000015	-0.00005	mg/L	0.000015	27.64%
B 249.677†	2232.4	0.0380	mg/L	0.00041	0.0380	mg/L	0.00041	1.08%
Ca 227.546†	8937.4	72.8	mg/L	1.11	72.8	mg/L	1.11	1.52%
Cd 228.802†	7.8	0.00043	mg/L	0.000138	0.00043	mg/L	0.000138	32.34%
Co 228.616†	1.8	0.00002	mg/L	0.000097	0.00002	mg/L	0.000097	402.25%
Cr 267.716†	86.1	0.00020	mg/L	0.000028	0.00020	mg/L	0.000028	13.73%
Cu 327.393†	245.7	0.00143	mg/L	0.000625	0.00143	mg/L	0.000625	43.60%
Fe 239.562†	19.1	0.0304	mg/L	0.00720	0.0304	mg/L	0.00720	23.67%
Mg 279.077†	2272.5	2.26	mg/L	0.030	2.26	mg/L	0.030	1.33%
Mn 257.610†	226181.9	0.458	mg/L	0.0051	0.458	mg/L	0.0051	1.12%
Mo 202.031†	1.9	0.00030	mg/L	0.000385	0.00030	mg/L	0.000385	128.58%
Ni 231.604†	75.4	0.00105	mg/L	0.000180	0.00105	mg/L	0.000180	17.16%
Pb 220.353†	-28.9	-0.00073	mg/L	0.000589	-0.00073	mg/L	0.000589	80.84%
Sb 206.836†	50.9	0.0259	mg/L	0.00079	0.0259	mg/L	0.00079	3.04%
Se 196.026†	-43.1	-0.00232	mg/L	0.003550	-0.00232	mg/L	0.003550	153.09%
Si 251.611†	51524.7	1.32	mg/L	0.020	1.32	mg/L	0.020	1.49%
Sn 189.927†	-91.5	-0.0109	mg/L	0.00125	-0.0109	mg/L	0.00125	11.48%
Ti 334.940†	-810.5	0.00325	mg/L	0.000166	0.00325	mg/L	0.000166	5.11%
Tl 190.801†	78.9	0.0327	mg/L	0.00111	0.0327	mg/L	0.00111	3.40%
V 290.880†	98.4	0.00252	mg/L	0.000448	0.00252	mg/L	0.000448	17.77%
Zn 206.200†	551.1	0.0136	mg/L	0.00015	0.0136	mg/L	0.00015	1.09%
K 766.490†	1166.4	0.295	mg/L	0.0255	0.295	mg/L	0.0255	8.63%
Na 589.592†	2021162.9	145	mg/L	1.4	145	mg/L	1.4	0.97%
Sr 407.771†	291858.2	0.167	mg/L	0.0040	0.167	mg/L	0.0040	2.40%
Li 670.784†	120.5	0.00096	mg/L	0.000387	0.00096	mg/L	0.000387	40.42%

Sequence No.: 54
Sample ID: L1101020101 WG353772-01
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 1/12/2011 4:37:03 PM
Data Type: Reprocessed on 1/13/2011 10:17:29 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101020101 WG353772-01

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101020101 WG353772-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4974601.7						62745.69	1.26%
YRADIAL	291872.3						5330.15	1.83%
Ga 417.206	1587743.1						26891.38	1.69%
GaRADIAL	76085.6						264.94	0.35%
Ag 328.068†	-24.2	-0.00001	mg/L	0.000621	-0.00001	mg/L	0.000621	>999.9%
Al 396.153†	472.6	0.0817	mg/L	0.00268	0.0817	mg/L	0.00268	3.28%
As 188.979†	-1.5	0.00140	mg/L	0.001533	0.00140	mg/L	0.001533	109.52%
Ba 233.527†	4742.6	0.0658	mg/L	0.00084	0.0658	mg/L	0.00084	1.28%
Be 234.861†	939.4	0.00013	mg/L	0.000073	0.00013	mg/L	0.000073	55.29%
B 249.677†	2258.8	0.0600	mg/L	0.00157	0.0600	mg/L	0.00157	2.62%
Ca 227.546†	592.8	4.88	mg/L	0.071	4.88	mg/L	0.071	1.45%
Cd 228.802†	4.6	0.00041	mg/L	0.000136	0.00041	mg/L	0.000136	33.23%
Co 228.616†	32.3	0.00123	mg/L	0.000422	0.00123	mg/L	0.000422	34.38%
Cr 267.716†	128.5	0.00099	mg/L	0.000228	0.00099	mg/L	0.000228	23.03%
Cu 327.393†	131.9	0.00105	mg/L	0.000599	0.00105	mg/L	0.000599	57.10%

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Fe 239.562†	3242.5	4.68	mg/L	0.035	4.68	mg/L	0.035	0.74%
Mg 279.077†	248.6	0.246	mg/L	0.0055	0.246	mg/L	0.0055	2.25%
Mn 257.610†	59267.7	0.122	mg/L	0.0017	0.122	mg/L	0.0017	1.38%
Mo 202.031†	-1.3	0.00027	mg/L	0.000145	0.00027	mg/L	0.000145	53.71%
Ni 231.604†	86.3	0.00133	mg/L	0.000254	0.00133	mg/L	0.000254	19.17%
Pb 220.353†	10.6	0.00091	mg/L	0.001935	0.00091	mg/L	0.001935	213.23%
Sb 206.836†	3.2	0.00327	mg/L	0.001815	0.00327	mg/L	0.001815	55.58%
Se 196.026†	-6.3	0.00113	mg/L	0.003269	0.00113	mg/L	0.003269	290.24%
Si 251.611†	6272.2	0.168	mg/L	0.0125	0.168	mg/L	0.0125	7.48%
Sn 189.927†	-13.5	-0.00032	mg/L	0.000371	-0.00032	mg/L	0.000371	117.06%
Ti 334.940†	313.0	0.00392	mg/L	0.000062	0.00392	mg/L	0.000062	1.57%
Tl 190.801†	6.7	0.00311	mg/L	0.002187	0.00311	mg/L	0.002187	70.38%
V 290.880†	314.2	0.00348	mg/L	0.000767	0.00348	mg/L	0.000767	22.03%
Zn 206.200†	581.7	0.0142	mg/L	0.00035	0.0142	mg/L	0.00035	2.42%
K 766.490†	1939.2	0.585	mg/L	0.0330	0.585	mg/L	0.0330	5.64%
Na 589.592†	1995193.3	144	mg/L	1.9	144	mg/L	1.9	1.32%
Sr 407.771†	24292.0	0.0133	mg/L	0.00012	0.0133	mg/L	0.00012	0.88%
Li 670.784†	-387.0	-0.00512	mg/L	0.002123	-0.00512	mg/L	0.002123	41.42%

Sequence No.: 55 **Autosampler Location: 69**
Sample ID: L1101020101S WG353772-04 **Date Collected: 1/12/2011 4:43:44 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:41 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101020101S WG353772-04

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: L1101020101S WG353772-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4848112.1						34957.74	0.72%
YRADIAL	292973.5						2523.30	0.86%
Ga 417.206	1547469.2						20263.09	1.31%
GaRADIAL	76249.9						746.40	0.98%
Ag 328.068†	41012.9	0.195	mg/L	0.0036	0.195	mg/L	0.0036	1.82%
Al 396.153†	78412.6	14.5	mg/L	0.04	14.5	mg/L	0.04	0.30%
As 188.979†	296.5	0.204	mg/L	0.0046	0.204	mg/L	0.0046	2.23%
Ba 233.527†	41720.8	0.586	mg/L	0.0072	0.586	mg/L	0.0072	1.24%
Be 234.861†	22744.6	0.0246	mg/L	0.00033	0.0246	mg/L	0.00033	1.34%
B 249.677†	55784.2	1.04	mg/L	0.006	1.04	mg/L	0.006	0.58%
Ca 227.546†	1228.9	10.5	mg/L	0.02	10.5	mg/L	0.02	0.20%
Cd 228.802†	601.5	0.0248	mg/L	0.00085	0.0248	mg/L	0.00085	3.41%
Co 228.616†	2346.2	0.101	mg/L	0.0003	0.101	mg/L	0.0003	0.31%
Cr 267.716†	33988.9	0.264	mg/L	0.0045	0.264	mg/L	0.0045	1.72%
Cu 327.393†	39363.5	0.252	mg/L	0.0055	0.252	mg/L	0.0055	2.20%
Fe 239.562†	16865.8	24.4	mg/L	0.44	24.4	mg/L	0.44	1.80%
Mg 279.077†	5829.5	5.78	mg/L	0.120	5.78	mg/L	0.120	2.08%
Mn 257.610†	335863.4	0.684	mg/L	0.0083	0.684	mg/L	0.0083	1.21%
Mo 202.031†	8358.8	0.495	mg/L	0.0021	0.495	mg/L	0.0021	0.42%
Ni 231.604†	10704.7	0.253	mg/L	0.0010	0.253	mg/L	0.0010	0.39%
Pb 220.353†	1947.9	0.253	mg/L	0.0018	0.253	mg/L	0.0018	0.70%
Sb 206.836†	1221.4	0.592	mg/L	0.0030	0.592	mg/L	0.0030	0.50%
Se 196.026†	341.3	0.188	mg/L	0.0037	0.188	mg/L	0.0037	1.95%
Si 251.611†	104982.2	2.68	mg/L	0.034	2.68	mg/L	0.034	1.25%
Sn 189.927†	-20.9	-0.00133	mg/L	0.000454	-0.00133	mg/L	0.000454	34.25%
Ti 334.940†	411497.9	0.498	mg/L	0.0022	0.498	mg/L	0.0022	0.44%
Tl 190.801†	494.4	0.247	mg/L	0.0041	0.247	mg/L	0.0041	1.66%
V 290.880†	85368.7	0.513	mg/L	0.0074	0.513	mg/L	0.0074	1.45%
Zn 206.200†	21619.5	0.522	mg/L	0.0052	0.522	mg/L	0.0052	1.00%
K 766.490†	69671.3	25.8	mg/L	0.15	25.8	mg/L	0.15	0.57%
Na 589.592†	2317318.8	166	mg/L	0.2	166	mg/L	0.2	0.12%
Sr 407.771†	860167.6	0.490	mg/L	0.0027	0.490	mg/L	0.0027	0.56%
Li 670.784†	41625.7	0.498	mg/L	0.0026	0.498	mg/L	0.0026	0.52%

Sequence No.: 56 **Autosampler Location: 70**
Sample ID: L1101020101SD WG353772-05 **Date Collected: 1/12/2011 4:49:29 PM**

Approved: January 13, 2011
Pierce Morris

Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:42 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101020101SD WG353772-05

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: L1101020101SD WG353772-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4874694.7						27861.23	0.57%
YRADIAL	297386.1						2119.76	0.71%
Ga 417.206	1557448.2						20105.87	1.29%
GaRADIAL	76599.1						1015.41	1.33%
Ag 328.068†	42249.0	0.200	mg/L	0.0031	0.200	mg/L	0.0031	1.57%
Al 396.153†	25319.7	4.66	mg/L	0.050	4.66	mg/L	0.050	1.07%
As 188.979†	285.1	0.195	mg/L	0.0054	0.195	mg/L	0.0054	2.75%
Ba 233.527†	38810.4	0.545	mg/L	0.0036	0.545	mg/L	0.0036	0.66%
Be 234.861†	19047.2	0.0241	mg/L	0.00031	0.0241	mg/L	0.00031	1.27%
B 249.677†	57754.8	1.00	mg/L	0.008	1.00	mg/L	0.008	0.78%
Ca 227.546†	1171.3	9.86	mg/L	0.021	9.86	mg/L	0.021	0.22%
Cd 228.802†	593.4	0.0245	mg/L	0.00085	0.0245	mg/L	0.00085	3.46%
Co 228.616†	2199.5	0.0946	mg/L	0.00035	0.0946	mg/L	0.00035	0.37%
Cr 267.716†	31098.7	0.241	mg/L	0.0023	0.241	mg/L	0.0023	0.94%
Cu 327.393†	39165.1	0.250	mg/L	0.0052	0.250	mg/L	0.0052	2.07%
Fe 239.562†	4356.5	6.29	mg/L	0.086	6.29	mg/L	0.086	1.37%
Mg 279.077†	4811.4	4.78	mg/L	0.037	4.78	mg/L	0.037	0.78%
Mn 257.610†	178169.4	0.364	mg/L	0.0033	0.364	mg/L	0.0033	0.91%
Mo 202.031†	8288.7	0.490	mg/L	0.0010	0.490	mg/L	0.0010	0.21%
Ni 231.604†	10254.1	0.242	mg/L	0.0005	0.242	mg/L	0.0005	0.20%
Pb 220.353†	1827.1	0.237	mg/L	0.0014	0.237	mg/L	0.0014	0.60%
Sb 206.836†	1205.2	0.584	mg/L	0.0038	0.584	mg/L	0.0038	0.65%
Se 196.026†	347.8	0.190	mg/L	0.0038	0.190	mg/L	0.0038	2.02%
Si 251.611†	109589.3	2.80	mg/L	0.039	2.80	mg/L	0.039	1.40%
Sn 189.927†	-24.8	-0.00185	mg/L	0.000400	-0.00185	mg/L	0.000400	21.62%
Ti 334.940†	403932.6	0.489	mg/L	0.0027	0.489	mg/L	0.0027	0.56%
Tl 190.801†	491.2	0.245	mg/L	0.0013	0.245	mg/L	0.0013	0.54%
V 290.880†	80596.6	0.485	mg/L	0.0055	0.485	mg/L	0.0055	1.13%
Zn 206.200†	20346.3	0.492	mg/L	0.0023	0.492	mg/L	0.0023	0.47%
K 766.490†	67265.5	24.9	mg/L	0.09	24.9	mg/L	0.09	0.35%
Na 589.592†	2317266.2	166	mg/L	0.7	166	mg/L	0.7	0.42%
Sr 407.771†	831212.7	0.475	mg/L	0.0019	0.475	mg/L	0.0019	0.40%
Li 670.784†	40323.1	0.483	mg/L	0.0012	0.483	mg/L	0.0012	0.26%

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Sequence No.: 57 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 4:55:21 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:17:43 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4798872.7						64112.91	1.34%
YRADIAL	279950.8						4766.15	1.70%
Ga 417.206	1565224.4						33551.08	2.14%
GaRADIAL	74889.9						659.47	0.88%
Ag 328.068†	84510.9	0.400	mg/L	0.0108	0.400	mg/L	0.0108	2.70%
QC value within limits for Ag 328.068 Recovery = 99.92%								
Al 396.153†	54433.8	10.0	mg/L	0.02	10.0	mg/L	0.02	0.24%
QC value within limits for Al 396.153 Recovery = 100.31%								

Approved: January 13, 2011
Pierce Morris

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As 188.979†              581.6       0.394 mg/L        0.0068       0.394 mg/L        0.0068   1.74%
   QC value within limits for As 188.979  Recovery = 98.52%
Ba 233.527†            71860.5        1.01 mg/L         0.020        1.01 mg/L         0.020   1.98%
   QC value within limits for Ba 233.527  Recovery = 101.08%
Be 234.861†            38202.5      0.0505 mg/L       0.00141      0.0505 mg/L       0.00141   2.79%
   QC value within limits for Be 234.861  Recovery = 100.93%
B 249.677†             29761.4       0.509 mg/L        0.0119       0.509 mg/L        0.0119   2.34%
   QC value within limits for B 249.677  Recovery = 101.90%
Ca 227.546†             1194.7        10.3 mg/L          0.20        10.3 mg/L          0.20   1.96%
   QC value within limits for Ca 227.546  Recovery = 103.04%
Cd 228.802†             1196.7      0.0492 mg/L       0.00123      0.0492 mg/L       0.00123   2.49%
   QC value within limits for Cd 228.802  Recovery = 98.38%
Co 228.616†             4559.8       0.197 mg/L        0.0025       0.197 mg/L        0.0025   1.26%
   QC value within limits for Co 228.616  Recovery = 98.28%
Cr 267.716†            64914.2       0.503 mg/L        0.0091       0.503 mg/L        0.0091   1.81%
   QC value within limits for Cr 267.716  Recovery = 100.56%
Cu 327.393†            78522.5       0.500 mg/L        0.0141       0.500 mg/L        0.0141   2.82%
   QC value within limits for Cu 327.393  Recovery = 99.97%
Fe 239.562†             2736.8        3.95 mg/L         0.016        3.95 mg/L         0.016   0.42%
   QC value within limits for Fe 239.562  Recovery = 98.84%
Mg 279.077†            10005.5        9.94 mg/L         0.073        9.94 mg/L         0.073   0.74%
   QC value within limits for Mg 279.077  Recovery = 99.42%
Mn 257.610†           247821.5       0.505 mg/L        0.0104       0.505 mg/L        0.0104   2.06%
   QC value within limits for Mn 257.610  Recovery = 100.92%
Mo 202.031†            17085.8        1.01 mg/L         0.021        1.01 mg/L         0.021   2.09%
   QC value within limits for Mo 202.031  Recovery = 101.01%
Ni 231.604†            21310.2       0.504 mg/L        0.0088       0.504 mg/L        0.0088   1.74%
   QC value within limits for Ni 231.604  Recovery = 100.75%
Pb 220.353†             3887.4       0.505 mg/L        0.0068       0.505 mg/L        0.0068   1.34%
   QC value within limits for Pb 220.353  Recovery = 101.05%
Sb 206.836†             2489.0        1.22 mg/L         0.026        1.22 mg/L         0.026   2.17%
   QC value within limits for Sb 206.836  Recovery = 101.29%
Se 196.026†              745.6       0.399 mg/L        0.0094       0.399 mg/L        0.0094   2.37%
   QC value within limits for Se 196.026  Recovery = 99.86%
Si 251.611†           193884.9        4.95 mg/L         0.137        4.95 mg/L         0.137   2.77%
   QC value within limits for Si 251.611  Recovery = 98.91%
Sn 189.927†             7336.5       0.997 mg/L        0.0119       0.997 mg/L        0.0119   1.20%
   QC value within limits for Sn 189.927  Recovery = 99.69%
Ti 334.940†           827645.1       0.999 mg/L        0.0016       0.999 mg/L        0.0016   0.16%
   QC value within limits for Ti 334.940  Recovery = 99.85%
Tl 190.801†             1033.6       0.515 mg/L        0.0064       0.515 mg/L        0.0064   1.24%
   QC value within limits for Tl 190.801  Recovery = 103.02%
V 290.880†            165661.9       0.995 mg/L        0.0202       0.995 mg/L        0.0202   2.03%
   QC value within limits for V 290.880  Recovery = 99.49%
Zn 206.200†            41975.7        1.01 mg/L         0.019        1.01 mg/L         0.019   1.90%
   QC value within limits for Zn 206.200  Recovery = 101.42%
K 766.490†            136601.9        50.8 mg/L          0.25        50.8 mg/L          0.25   0.50%
   QC value within limits for K 766.490  Recovery = 101.54%
Na 589.592†           705305.2        51.2 mg/L          0.81        51.2 mg/L          0.81   1.59%
   QC value within limits for Na 589.592  Recovery = 102.43%
Sr 407.771†          1743410.9       0.997 mg/L        0.0062       0.997 mg/L        0.0062   0.63%
   QC value within limits for Sr 407.771  Recovery = 99.72%
Li 670.784†            85165.5        1.02 mg/L         0.009        1.02 mg/L         0.009   0.93%
   QC value within limits for Li 670.784  Recovery = 102.00%
All analyte(s) passed QC.

==========================================================================================
Sequence No.: 58                                  Autosampler Location: 1
Sample ID: CCB                                    Date Collected: 1/12/2011 5:01:59 PM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:17:44 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: CCB
Analyte                 Back Pressure    Flow
All                    181.0 kPa         0.50 L/min

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Mean Data: CCB
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
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Approved: January 13, 2011

Pierce Morris

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Y 371.029            4993494.1                                                    41795.29   0.84%
YRADIAL               278448.9                                                     6610.24   2.37%
Ga 417.206           1629326.1                                                    13955.01   0.86%
GaRADIAL               74454.8                                                      552.55   0.74%
Ag 328.068†              209.6     0.00082 mg/L      0.000369     0.00082 mg/L      0.000369  45.10%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†               79.3     0.00876 mg/L      0.011921     0.00876 mg/L      0.011921 136.08%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -2.1     0.00041 mg/L      0.000807     0.00041 mg/L      0.000807 197.07%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               11.9    -0.00063 mg/L      0.000048    -0.00063 mg/L      0.000048   7.59%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†                6.3     0.00005 mg/L      0.000009     0.00005 mg/L      0.000009  19.16%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               773.6      0.0132 mg/L       0.00022      0.0132 mg/L       0.00022   1.68%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               -2.2    -0.00618 mg/L      0.041077    -0.00618 mg/L      0.041077 665.12%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†                3.3     0.00035 mg/L      0.000162     0.00035 mg/L      0.000162  46.47%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                6.5     0.00025 mg/L      0.000185     0.00025 mg/L      0.000185  75.10%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -22.6    -0.00044 mg/L      0.000022    -0.00044 mg/L      0.000022   5.01%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              109.8     0.00057 mg/L      0.000431     0.00057 mg/L      0.000431  76.09%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                0.6     0.00405 mg/L      0.001542     0.00405 mg/L      0.001542  38.08%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†                1.6     0.00350 mg/L      0.008505     0.00350 mg/L      0.008505 242.88%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -320.4    -0.00027 mg/L      0.000013    -0.00027 mg/L      0.000013   4.70%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -1.5     0.00001 mg/L      0.000366     0.00001 mg/L      0.000366 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               13.3    -0.00040 mg/L      0.000108    -0.00040 mg/L      0.000108  26.85%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                5.2     0.00020 mg/L      0.000196     0.00020 mg/L      0.000196  98.00%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -4.6    -0.00039 mg/L      0.000693    -0.00039 mg/L      0.000693 176.46%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.6     0.00163 mg/L      0.001927     0.00163 mg/L      0.001927 117.88%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -192.6     0.00237 mg/L      0.000399     0.00237 mg/L      0.000399  16.86%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                4.3     0.00210 mg/L      0.000298     0.00210 mg/L      0.000298  14.20%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†               32.1     0.00354 mg/L      0.000166     0.00354 mg/L      0.000166   4.69%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.1     0.00114 mg/L      0.002048     0.00114 mg/L      0.002048 179.92%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               238.1     0.00323 mg/L      0.000997     0.00323 mg/L      0.000997  30.89%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                6.9     0.00049 mg/L      0.000181     0.00049 mg/L      0.000181  36.55%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               100.4      0.0425 mg/L       0.00225      0.0425 mg/L       0.00225   5.30%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             1229.8      0.0716 mg/L       0.01336      0.0716 mg/L       0.01336  18.66%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              -14.4    -0.00018 mg/L      0.000040    -0.00018 mg/L      0.000040  22.84%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               73.9     0.00040 mg/L      0.000749     0.00040 mg/L      0.000749 188.21%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 59
Sample ID: PBW 73 WG353704-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 1/12/2011 5:08:34 PM
Data Type: Reprocessed on 1/13/2011 10:17:45 AM
Initial Sample Vol:
Sample Prep Vol:

Data not reported due to instrument failure.

Approved: January 13, 2011
Pierce Morris

Nebulizer Parameters: PBW 73 WG353704-02

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: PBW 73 WG353704-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5121680.6						14639.29	0.29%
YRADIAL	292328.7						2603.60	0.89%
Ga 417.206	1701837.9						11621.92	0.68%
GaRADIAL	78075.6						1959.90	2.51%
Ag 328.068†	98.1	0.00029	mg/L	0.000349	0.00029	mg/L	0.000349	119.07%
Al 396.153†	43.1	0.00207	mg/L	0.011080	0.00207	mg/L	0.011080	534.22%
As 188.979†	0.9	0.00247	mg/L	0.001013	0.00247	mg/L	0.001013	41.06%
Ba 233.527†	13.9	-0.00060	mg/L	0.000100	-0.00060	mg/L	0.000100	16.50%
Be 234.861†	9.3	0.00005	mg/L	0.000016	0.00005	mg/L	0.000016	31.58%
B 249.677†	650.3	0.0111	mg/L	0.00100	0.0111	mg/L	0.00100	9.05%
Ca 227.546†	-10.5	-0.0732	mg/L	0.07790	-0.0732	mg/L	0.07790	106.42%
Cd 228.802†	0.6	0.00022	mg/L	0.000093	0.00022	mg/L	0.000093	42.37%
Co 228.616†	-1.2	-0.00009	mg/L	0.000101	-0.00009	mg/L	0.000101	112.39%
Cr 267.716†	-15.9	-0.00039	mg/L	0.000043	-0.00039	mg/L	0.000043	10.94%
Cu 327.393†	19.6	-0.00001	mg/L	0.000088	-0.00001	mg/L	0.000088	>999.9%
Fe 239.562†	-0.9	0.00180	mg/L	0.002399	0.00180	mg/L	0.002399	132.94%
Mg 279.077†	8.7	0.0105	mg/L	0.00235	0.0105	mg/L	0.00235	22.30%
Mn 257.610†	-310.5	-0.00025	mg/L	0.000020	-0.00025	mg/L	0.000020	8.01%
Mo 202.031†	0.5	0.00012	mg/L	0.000102	0.00012	mg/L	0.000102	82.94%
Ni 231.604†	29.1	-0.00002	mg/L	0.000127	-0.00002	mg/L	0.000127	513.86%
Pb 220.353†	2.8	-0.00011	mg/L	0.000862	-0.00011	mg/L	0.000862	804.17%
Sb 206.836†	-4.0	-0.00012	mg/L	0.000956	-0.00012	mg/L	0.000956	814.16%
Se 196.026†	-8.4	-0.00197	mg/L	0.003302	-0.00197	mg/L	0.003302	167.41%
Si 251.611†	-267.0	0.00046	mg/L	0.000272	0.00046	mg/L	0.000272	58.49%
Sn 189.927†	-4.1	0.00095	mg/L	0.000539	0.00095	mg/L	0.000539	56.50%
Ti 334.940†	-16.1	0.00348	mg/L	0.000099	0.00348	mg/L	0.000099	2.86%
Tl 190.801†	-4.4	-0.00204	mg/L	0.001101	-0.00204	mg/L	0.001101	54.05%
V 290.880†	207.6	0.00304	mg/L	0.000308	0.00304	mg/L	0.000308	10.10%
Zn 206.200†	50.0	0.00153	mg/L	0.000067	0.00153	mg/L	0.000067	4.35%
K 766.490†	49.1	0.0234	mg/L	0.04038	0.0234	mg/L	0.04038	172.37%
Na 589.592†	825.3	0.0421	mg/L	0.00366	0.0421	mg/L	0.00366	8.69%
Sr 407.771†	88.5	-0.00012	mg/L	0.000033	-0.00012	mg/L	0.000033	28.43%
Li 670.784†	47.1	0.00008	mg/L	0.000687	0.00008	mg/L	0.000687	892.18%

Sequence No.: 60
Sample ID: LCSW 73 WG353704-03
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 1/12/2011 5:15:16 PM
Data Type: Reprocessed on 1/13/2011 10:17:46 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW 73 WG353704-03

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: LCSW 73 WG353704-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4958342.4						9621.65	0.19%
YRADIAL	285736.6						5229.27	1.83%
Ga 417.206	1649503.7						23041.73	1.40%
GaRADIAL	75518.2						919.35	1.22%
Ag 328.068†	41862.9	0.198	mg/L	0.0038	0.198	mg/L	0.0038	1.92%
Al 396.153†	27279.6	5.02	mg/L	0.023	5.02	mg/L	0.023	0.46%
As 188.979†	275.0	0.187	mg/L	0.0040	0.187	mg/L	0.0040	2.13%
Ba 233.527†	35040.7	0.492	mg/L	0.0043	0.492	mg/L	0.0043	0.87%
Be 234.861†	18291.2	0.0242	mg/L	0.00040	0.0242	mg/L	0.00040	1.67%
B 249.677†	57039.8	0.967	mg/L	0.0206	0.967	mg/L	0.0206	2.13%
Ca 227.546†	559.2	4.84	mg/L	0.093	4.84	mg/L	0.093	1.92%
Cd 228.802†	577.5	0.0239	mg/L	0.00025	0.0239	mg/L	0.00025	1.06%
Co 228.616†	2236.8	0.0964	mg/L	0.00105	0.0964	mg/L	0.00105	1.09%
Cr 267.716†	31694.3	0.245	mg/L	0.0021	0.245	mg/L	0.0021	0.84%

Approved: January 13, 2011
Pierce Morris

Cu 327.393†	38257.0	0.243 mg/L	0.0056	0.243 mg/L	0.0056	2.32%
Fe 239.562†	1348.5	1.95 mg/L	0.032	1.95 mg/L	0.032	1.66%
Mg 279.077†	5012.5	4.98 mg/L	0.080	4.98 mg/L	0.080	1.61%
Mn 257.610†	121004.4	0.247 mg/L	0.0025	0.247 mg/L	0.0025	1.02%
Mo 202.031†	8378.0	0.495 mg/L	0.0025	0.495 mg/L	0.0025	0.50%
Ni 231.604†	10538.6	0.249 mg/L	0.0017	0.249 mg/L	0.0017	0.69%
Pb 220.353†	1900.1	0.247 mg/L	0.0025	0.247 mg/L	0.0025	1.03%
Sb 206.836†	1188.4	0.582 mg/L	0.0094	0.582 mg/L	0.0094	1.61%
Se 196.026†	350.9	0.189 mg/L	0.0035	0.189 mg/L	0.0035	1.85%
Si 251.611†	95451.9	2.44 mg/L	0.051	2.44 mg/L	0.051	2.08%
Sn 189.927†	3857.9	0.525 mg/L	0.0042	0.525 mg/L	0.0042	0.80%
Ti 334.940†	406439.5	0.492 mg/L	0.0014	0.492 mg/L	0.0014	0.28%
Tl 190.801†	504.8	0.252 mg/L	0.0043	0.252 mg/L	0.0043	1.71%
V 290.880†	80904.8	0.487 mg/L	0.0068	0.487 mg/L	0.0068	1.39%
Zn 206.200†	20153.4	0.487 mg/L	0.0023	0.487 mg/L	0.0023	0.46%
K 766.490†	68563.6	25.5 mg/L	0.05	25.5 mg/L	0.05	0.19%
Na 589.592†	378944.9	27.6 mg/L	0.39	27.6 mg/L	0.39	1.40%
Sr 407.771†	868245.6	0.497 mg/L	0.0045	0.497 mg/L	0.0045	0.90%
Li 670.784†	42293.2	0.506 mg/L	0.0037	0.506 mg/L	0.0037	0.73%

Sequence No.: 61 **Autosampler Location: 73**
Sample ID: L1101018301 **Date Collected: 1/12/2011 5:21:56 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:57 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018301

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: L1101018301

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5043517.5						40268.98	0.80%
YRADIAL	292859.2						2899.74	0.99%
Ga 417.206	1679863.8						26981.03	1.61%
GaRADIAL	77747.8						2475.08	3.18%
Ag 328.068†	260.0	0.00106	mg/L	0.000548	0.00106	mg/L	0.000548	51.92%
Al 396.153†	-25.5	-0.0106	mg/L	0.01033	-0.0106	mg/L	0.01033	97.46%
As 188.979†	0.4	0.00213	mg/L	0.002875	0.00213	mg/L	0.002875	134.99%
Ba 233.527†	57.7	0.00001	mg/L	0.000813	0.00001	mg/L	0.000813	>999.9%
Be 234.861†	21.1	0.00007	mg/L	0.000019	0.00007	mg/L	0.000019	28.43%
B 249.677†	3814.0	0.0646	mg/L	0.00123	0.0646	mg/L	0.00123	1.90%
Ca 227.546†	6.6	0.0660	mg/L	0.10685	0.0660	mg/L	0.10685	161.89%
Cd 228.802†	2.6	0.00031	mg/L	0.000056	0.00031	mg/L	0.000056	18.48%
Co 228.616†	0.9	0.00000	mg/L	0.000279	0.00000	mg/L	0.000279	>999.9%
Cr 267.716†	27.4	-0.00006	mg/L	0.000134	-0.00006	mg/L	0.000134	242.80%
Cu 327.393†	104.2	0.00053	mg/L	0.000147	0.00053	mg/L	0.000147	27.77%
Fe 239.562†	0.7	0.00416	mg/L	0.001849	0.00416	mg/L	0.001849	44.48%
Mg 279.077†	-0.2	0.00170	mg/L	0.006784	0.00170	mg/L	0.006784	398.72%
Mn 257.610†	-291.8	-0.00019	mg/L	0.000009	-0.00019	mg/L	0.000009	4.57%
Mo 202.031†	-1.9	-0.00002	mg/L	0.000103	-0.00002	mg/L	0.000103	478.56%
Ni 231.604†	25.9	-0.00010	mg/L	0.000078	-0.00010	mg/L	0.000078	75.65%
Pb 220.353†	-1.0	-0.00059	mg/L	0.000619	-0.00059	mg/L	0.000619	104.27%
Sb 206.836†	-7.0	-0.00157	mg/L	0.002607	-0.00157	mg/L	0.002607	165.64%
Se 196.026†	-2.6	0.00115	mg/L	0.002966	0.00115	mg/L	0.002966	257.34%
Si 251.611†	1972.9	0.0577	mg/L	0.00124	0.0577	mg/L	0.00124	2.14%
Sn 189.927†	-3.3	0.00106	mg/L	0.000842	0.00106	mg/L	0.000842	79.68%
Ti 334.940†	-70.8	0.00341	mg/L	0.000162	0.00341	mg/L	0.000162	4.76%
Tl 190.801†	1.9	0.00105	mg/L	0.001002	0.00105	mg/L	0.001002	95.50%
V 290.880†	191.1	0.00295	mg/L	0.000110	0.00295	mg/L	0.000110	3.74%
Zn 206.200†	74.0	0.00211	mg/L	0.000159	0.00211	mg/L	0.000159	7.53%
K 766.490†	114.9	0.0472	mg/L	0.02232	0.0472	mg/L	0.02232	47.29%
Na 589.592†	11401.7	0.814	mg/L	0.0229	0.814	mg/L	0.0229	2.81%
Sr 407.771†	97.4	-0.00011	mg/L	0.000010	-0.00011	mg/L	0.000010	9.04%
Li 670.784†	119.3	0.00094	mg/L	0.000618	0.00094	mg/L	0.000618	65.54%

Sequence No.: 62 **Autosampler Location: 74**

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Sample ID: L1101018301PS WG353785-01 **Date Collected: 1/12/2011 5:28:35 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:58 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018301PS WG353785-01

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: L1101018301PS WG353785-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4849864.6						36073.53	0.74%
YRADIAL	286498.4						5242.73	1.83%
Ga 417.206	1623609.5						30083.74	1.85%
GaRADIAL	75981.9						548.25	0.72%
Ag 328.068†	42976.6	0.203	mg/L	0.0025	0.203	mg/L	0.0025	1.22%
Al 396.153†	27532.9	5.07	mg/L	0.027	5.07	mg/L	0.027	0.54%
As 188.979†	283.0	0.193	mg/L	0.0055	0.193	mg/L	0.0055	2.85%
Ba 233.527†	36234.1	0.509	mg/L	0.0050	0.509	mg/L	0.0050	0.98%
Be 234.861†	18773.5	0.0248	mg/L	0.00037	0.0248	mg/L	0.00037	1.50%
B 249.677†	61864.9	1.05	mg/L	0.018	1.05	mg/L	0.018	1.75%
Ca 227.546†	569.3	4.93	mg/L	0.132	4.93	mg/L	0.132	2.68%
Cd 228.802†	593.1	0.0245	mg/L	0.00018	0.0245	mg/L	0.00018	0.74%
Co 228.616†	2305.1	0.0994	mg/L	0.00071	0.0994	mg/L	0.00071	0.72%
Cr 267.716†	32724.1	0.253	mg/L	0.0022	0.253	mg/L	0.0022	0.85%
Cu 327.393†	39073.3	0.249	mg/L	0.0036	0.249	mg/L	0.0036	1.44%
Fe 239.562†	1355.2	1.96	mg/L	0.022	1.96	mg/L	0.022	1.11%
Mg 279.077†	5023.0	4.99	mg/L	0.052	4.99	mg/L	0.052	1.04%
Mn 257.610†	125155.5	0.255	mg/L	0.0025	0.255	mg/L	0.0025	1.00%
Mo 202.031†	8588.3	0.508	mg/L	0.0032	0.508	mg/L	0.0032	0.62%
Ni 231.604†	10811.3	0.255	mg/L	0.0028	0.255	mg/L	0.0028	1.10%
Pb 220.353†	1950.4	0.253	mg/L	0.0022	0.253	mg/L	0.0022	0.87%
Sb 206.836†	1235.4	0.599	mg/L	0.0151	0.599	mg/L	0.0151	2.53%
Se 196.026†	359.0	0.194	mg/L	0.0079	0.194	mg/L	0.0079	4.07%
Si 251.611†	99826.8	2.55	mg/L	0.034	2.55	mg/L	0.034	1.35%
Sn 189.927†	-17.6	-0.00088	mg/L	0.000536	-0.00088	mg/L	0.000536	61.16%
Ti 334.940†	415274.7	0.503	mg/L	0.0003	0.503	mg/L	0.0003	0.05%
Tl 190.801†	524.6	0.261	mg/L	0.0045	0.261	mg/L	0.0045	1.72%
V 290.880†	83584.7	0.503	mg/L	0.0052	0.503	mg/L	0.0052	1.04%
Zn 206.200†	20838.6	0.504	mg/L	0.0040	0.504	mg/L	0.0040	0.80%
K 766.490†	68635.5	25.5	mg/L	0.06	25.5	mg/L	0.06	0.23%
Na 589.592†	391255.0	28.5	mg/L	0.31	28.5	mg/L	0.31	1.08%
Sr 407.771†	876400.1	0.501	mg/L	0.0055	0.501	mg/L	0.0055	1.10%
Li 670.784†	43278.1	0.518	mg/L	0.0027	0.518	mg/L	0.0027	0.52%

Sequence No.: 63 **Autosampler Location: 75**
Sample ID: L1101018301DL WG353785-02 **Date Collected: 1/12/2011 5:35:16 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:17:59 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018301DL WG353785-02

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1101018301DL WG353785-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5012984.3						47186.32	0.94%
YRADIAL	288896.2						7304.93	2.53%
Ga 417.206	1668517.8						39478.15	2.37%
GaRADIAL	77224.9						266.63	0.35%
Ag 328.068†	153.3	0.00055	mg/L	0.000146	0.00055	mg/L	0.000146	26.44%
Al 396.153†	15.1	-0.00309	mg/L	0.003838	-0.00309	mg/L	0.003838	124.10%
As 188.979†	2.4	0.00345	mg/L	0.001423	0.00345	mg/L	0.001423	41.28%

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Ba 233.527†	15.5	-0.00058	mg/L	0.000167	-0.00058	mg/L	0.000167	28.71%
Be 234.861†	49.1	0.00010	mg/L	0.000019	0.00010	mg/L	0.000019	18.48%
B 249.677†	1560.3	0.0265	mg/L	0.00089	0.0265	mg/L	0.00089	3.37%
Ca 227.546†	-0.0	0.0123	mg/L	0.04840	0.0123	mg/L	0.04840	393.14%
Cd 228.802†	3.0	0.00031	mg/L	0.000078	0.00031	mg/L	0.000078	24.97%
Co 228.616†	3.0	0.00009	mg/L	0.000171	0.00009	mg/L	0.000171	183.82%
Cr 267.716†	-34.8	-0.00054	mg/L	0.000173	-0.00054	mg/L	0.000173	32.20%
Cu 327.393†	103.1	0.00052	mg/L	0.000371	0.00052	mg/L	0.000371	70.73%
Fe 239.562†	1.3	0.00503	mg/L	0.000874	0.00503	mg/L	0.000874	17.39%
Mg 279.077†	2.5	0.00438	mg/L	0.008452	0.00438	mg/L	0.008452	193.14%
Mn 257.610†	-305.6	-0.00024	mg/L	0.000004	-0.00024	mg/L	0.000004	1.64%
Mo 202.031†	0.9	0.00015	mg/L	0.000125	0.00015	mg/L	0.000125	85.51%
Ni 231.604†	29.9	-0.00001	mg/L	0.000264	-0.00001	mg/L	0.000264	>999.9%
Pb 220.353†	0.3	-0.00042	mg/L	0.001073	-0.00042	mg/L	0.001073	255.80%
Sb 206.836†	-5.4	-0.00081	mg/L	0.001270	-0.00081	mg/L	0.001270	155.93%
Se 196.026†	-4.7	0.00001	mg/L	0.000892	0.00001	mg/L	0.000892	>999.9%
Si 251.611†	182.0	0.0119	mg/L	0.00031	0.0119	mg/L	0.00031	2.63%
Sn 189.927†	-3.7	0.00101	mg/L	0.000563	0.00101	mg/L	0.000563	55.99%
Ti 334.940†	-13.4	0.00348	mg/L	0.000063	0.00348	mg/L	0.000063	1.81%
Tl 190.801†	3.6	0.00189	mg/L	0.003018	0.00189	mg/L	0.003018	159.85%
V 290.880†	194.6	0.00297	mg/L	0.000353	0.00297	mg/L	0.000353	11.92%
Zn 206.200†	48.6	0.00150	mg/L	0.000032	0.00150	mg/L	0.000032	2.16%
K 766.490†	91.4	0.0391	mg/L	0.02818	0.0391	mg/L	0.02818	72.15%
Na 589.592†	2943.4	0.197	mg/L	0.0064	0.197	mg/L	0.0064	3.26%
Sr 407.771†	93.8	-0.00011	mg/L	0.000035	-0.00011	mg/L	0.000035	30.67%
Li 670.784†	8.6	-0.00038	mg/L	0.001741	-0.00038	mg/L	0.001741	453.40%

Sequence No.: 64 **Autosampler Location: 76**
Sample ID: L1101018901 **Date Collected: 1/12/2011 5:41:55 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:00 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018901

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1101018901

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5085355.1						59721.44	1.17%
YRADIAL	285378.0						5244.15	1.84%
Ga 417.206	1708230.3						35693.97	2.09%
GaRADIAL	75890.7						674.09	0.89%
Ag 328.068†	244.9	0.00099	mg/L	0.000388	0.00099	mg/L	0.000388	39.39%
Al 396.153†	29.1	-0.00051	mg/L	0.009861	-0.00051	mg/L	0.009861	>999.9%
As 188.979†	1.3	0.00273	mg/L	0.000349	0.00273	mg/L	0.000349	12.75%
Ba 233.527†	24.8	-0.00045	mg/L	0.000038	-0.00045	mg/L	0.000038	8.41%
Be 234.861†	23.7	0.00007	mg/L	0.000034	0.00007	mg/L	0.000034	50.08%
B 249.677†	900.3	0.0153	mg/L	0.00082	0.0153	mg/L	0.00082	5.34%
Ca 227.546†	3.4	0.0404	mg/L	0.05643	0.0404	mg/L	0.05643	139.75%
Cd 228.802†	1.9	0.00028	mg/L	0.000154	0.00028	mg/L	0.000154	55.87%
Co 228.616†	2.6	0.00008	mg/L	0.000048	0.00008	mg/L	0.000048	61.93%
Cr 267.716†	101.8	0.00052	mg/L	0.000089	0.00052	mg/L	0.000089	17.09%
Cu 327.393†	80.2	0.00038	mg/L	0.000171	0.00038	mg/L	0.000171	45.05%
Fe 239.562†	3.8	0.00868	mg/L	0.003312	0.00868	mg/L	0.003312	38.17%
Mg 279.077†	5.0	0.00692	mg/L	0.002490	0.00692	mg/L	0.002490	35.96%
Mn 257.610†	-261.1	-0.00015	mg/L	0.000003	-0.00015	mg/L	0.000003	2.05%
Mo 202.031†	-3.4	-0.00011	mg/L	0.000299	-0.00011	mg/L	0.000299	273.35%
Ni 231.604†	35.9	0.00013	mg/L	0.000061	0.00013	mg/L	0.000061	45.67%
Pb 220.353†	3.5	-0.00001	mg/L	0.000145	-0.00001	mg/L	0.000145	>999.9%
Sb 206.836†	-3.2	0.00024	mg/L	0.002518	0.00024	mg/L	0.002518	>999.9%
Se 196.026†	-4.2	0.00028	mg/L	0.002771	0.00028	mg/L	0.002771	979.05%
Si 251.611†	-136.8	0.00379	mg/L	0.000566	0.00379	mg/L	0.000566	14.93%
Sn 189.927†	-7.7	0.00046	mg/L	0.000345	0.00046	mg/L	0.000345	74.85%
Ti 334.940†	3.6	0.00350	mg/L	0.000139	0.00350	mg/L	0.000139	3.97%
Tl 190.801†	4.6	0.00235	mg/L	0.001535	0.00235	mg/L	0.001535	65.28%
V 290.880†	274.6	0.00345	mg/L	0.000638	0.00345	mg/L	0.000638	18.50%
Zn 206.200†	63.4	0.00186	mg/L	0.000106	0.00186	mg/L	0.000106	5.67%

Approved: January 13, 2011

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K 766.490†	84.4	0.0366	mg/L	0.02128	0.0366	mg/L	0.02128	58.11%
Na 589.592†	725.8	0.0348	mg/L	0.00697	0.0348	mg/L	0.00697	20.03%
Sr 407.771†	695.7	0.00023	mg/L	0.000026	0.00023	mg/L	0.000026	11.19%
Li 670.784†	135.6	0.00114	mg/L	0.001367	0.00114	mg/L	0.001367	120.21%

Sequence No.: 65 **Autosampler Location: 77**
Sample ID: L1101019701 **Date Collected: 1/12/2011 5:48:34 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:02 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101019701

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: L1101019701

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5002807.5						33833.13	0.68%
YRADIAL	295231.9						8708.84	2.95%
Ga 417.206	1687920.9						16345.80	0.97%
GaRADIAL	78659.0						1739.83	2.21%
Ag 328.068†	-13.5	-0.00019	mg/L	0.000407	-0.00019	mg/L	0.000407	209.17%
Al 396.153†	3096.2	0.566	mg/L	0.0147	0.566	mg/L	0.0147	2.60%
As 188.979†	1.4	0.00292	mg/L	0.001704	0.00292	mg/L	0.001704	58.35%
Ba 233.527†	764.1	0.00993	mg/L	0.000055	0.00993	mg/L	0.000055	0.55%
Be 234.861†	263.1	0.00016	mg/L	0.000053	0.00016	mg/L	0.000053	32.53%
B 249.677†	3434.3	0.0619	mg/L	0.00155	0.0619	mg/L	0.00155	2.50%
Ca 227.546†	46.4	0.397	mg/L	0.0395	0.397	mg/L	0.0395	9.95%
Cd 228.802†	10.9	0.00065	mg/L	0.000077	0.00065	mg/L	0.000077	11.86%
Co 228.616†	18.5	0.00072	mg/L	0.000182	0.00072	mg/L	0.000182	25.34%
Cr 267.716†	574.5	0.00418	mg/L	0.000115	0.00418	mg/L	0.000115	2.76%
Cu 327.393†	15578.1	0.0988	mg/L	0.00088	0.0988	mg/L	0.00088	0.89%
Fe 239.562†	657.5	0.952	mg/L	0.0253	0.952	mg/L	0.0253	2.66%
Mg 279.077†	96.2	0.0969	mg/L	0.00497	0.0969	mg/L	0.00497	5.13%
Mn 257.610†	56352.8	0.114	mg/L	0.0014	0.114	mg/L	0.0014	1.19%
Mo 202.031†	-3.0	-0.00001	mg/L	0.000132	-0.00001	mg/L	0.000132	>999.9%
Ni 231.604†	54.8	0.00058	mg/L	0.000108	0.00058	mg/L	0.000108	18.51%
Pb 220.353†	107.5	0.0133	mg/L	0.00120	0.0133	mg/L	0.00120	9.05%
Sb 206.836†	-3.8	-0.00008	mg/L	0.001230	-0.00008	mg/L	0.001230	>999.9%
Se 196.026†	-7.0	-0.00105	mg/L	0.003091	-0.00105	mg/L	0.003091	294.68%
Si 251.611†	35689.0	0.919	mg/L	0.0192	0.919	mg/L	0.0192	2.09%
Sn 189.927†	-2.9	0.00112	mg/L	0.000077	0.00112	mg/L	0.000077	6.86%
Ti 334.940†	9759.9	0.0152	mg/L	0.00091	0.0152	mg/L	0.00091	5.95%
Tl 190.801†	1.0	0.00086	mg/L	0.002816	0.00086	mg/L	0.002816	326.04%
V 290.880†	558.4	0.00511	mg/L	0.000705	0.00511	mg/L	0.000705	13.79%
Zn 206.200†	1745.6	0.0424	mg/L	0.00030	0.0424	mg/L	0.00030	0.72%
K 766.490†	2249.2	0.842	mg/L	0.0195	0.842	mg/L	0.0195	2.31%
Na 589.592†	29595.3	2.14	mg/L	0.022	2.14	mg/L	0.022	1.04%
Sr 407.771†	16584.9	0.00924	mg/L	0.000063	0.00924	mg/L	0.000063	0.68%
Li 670.784†	175.4	0.00161	mg/L	0.002118	0.00161	mg/L	0.002118	131.16%

Sequence No.: 66 **Autosampler Location: 78**
Sample ID: L1101019702 **Date Collected: 1/12/2011 5:55:15 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:03 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101019702

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1101019702

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Approved: January 13, 2011
Pierce Morris

Y 371.029	5059820.5					26958.93	0.53%
YRADIAL	290416.8					7179.59	2.47%
Ga 417.206	1681003.7					16499.52	0.98%
GaRADIAL	77065.7					1942.59	2.52%
Ag 328.068†	283.8	0.00117	mg/L	0.000188	0.00117 mg/L	0.000188	16.06%
Al 396.153†	133.1	0.0187	mg/L	0.00192	0.0187 mg/L	0.00192	10.27%
As 188.979†	-1.8	0.00062	mg/L	0.002857	0.00062 mg/L	0.002857	459.01%
Ba 233.527†	251.1	0.00273	mg/L	0.000071	0.00273 mg/L	0.000071	2.61%
Be 234.861†	16.2	0.00005	mg/L	0.000015	0.00005 mg/L	0.000015	29.78%
B 249.677†	3490.1	0.0592	mg/L	0.00082	0.0592 mg/L	0.00082	1.39%
Ca 227.546†	18.8	0.166	mg/L	0.0866	0.166 mg/L	0.0866	52.17%
Cd 228.802†	5.8	0.00045	mg/L	0.000171	0.00045 mg/L	0.000171	38.02%
Co 228.616†	2.9	0.00009	mg/L	0.000214	0.00009 mg/L	0.000214	250.41%
Cr 267.716†	55.3	0.00016	mg/L	0.000094	0.00016 mg/L	0.000094	58.05%
Cu 327.393†	668.5	0.00412	mg/L	0.000623	0.00412 mg/L	0.000623	15.13%
Fe 239.562†	24.9	0.0391	mg/L	0.00411	0.0391 mg/L	0.00411	10.52%
Mg 279.077†	18.9	0.0206	mg/L	0.00661	0.0206 mg/L	0.00661	32.03%
Mn 257.610†	1078.7	0.00260	mg/L	0.000005	0.00260 mg/L	0.000005	0.18%
Mo 202.031†	1.3	0.00017	mg/L	0.000323	0.00017 mg/L	0.000323	186.79%
Ni 231.604†	29.3	-0.00002	mg/L	0.000110	-0.00002 mg/L	0.000110	472.85%
Pb 220.353†	7.7	0.00053	mg/L	0.000878	0.00053 mg/L	0.000878	165.18%
Sb 206.836†	-6.0	-0.00107	mg/L	0.001375	-0.00107 mg/L	0.001375	128.73%
Se 196.026†	-6.3	-0.00079	mg/L	0.000947	-0.00079 mg/L	0.000947	120.27%
Si 251.611†	2879.2	0.0808	mg/L	0.00155	0.0808 mg/L	0.00155	1.92%
Sn 189.927†	-3.2	0.00108	mg/L	0.000632	0.00108 mg/L	0.000632	58.66%
Ti 334.940†	278.7	0.00384	mg/L	0.000190	0.00384 mg/L	0.000190	4.96%
Tl 190.801†	2.8	0.00145	mg/L	0.003019	0.00145 mg/L	0.003019	207.91%
V 290.880†	391.4	0.00415	mg/L	0.000051	0.00415 mg/L	0.000051	1.22%
Zn 206.200†	125.9	0.00337	mg/L	0.000150	0.00337 mg/L	0.000150	4.47%
K 766.490†	226.8	0.0886	mg/L	0.05142	0.0886 mg/L	0.05142	58.05%
Na 589.592†	16852.3	1.21	mg/L	0.004	1.21 mg/L	0.004	0.36%
Sr 407.771†	38007.2	0.0216	mg/L	0.00020	0.0216 mg/L	0.00020	0.92%
Li 670.784†	201.2	0.00192	mg/L	0.001499	0.00192 mg/L	0.001499	77.90%

Sequence No.: 67 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 7:00:40 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:13 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4814526.2						24259.77	0.50%
YRADIAL	282448.6						8855.36	3.14%
Ga 417.206	1554483.6						5104.98	0.33%
GaRADIAL	74523.6						642.64	0.86%
Ag 328.068†	84683.0	0.400	mg/L	0.0024	0.400	mg/L	0.0024	0.61%
QC value within limits for Ag 328.068 Recovery = 100.11%								
Al 396.153†	54083.1	9.97	mg/L	0.057	9.97	mg/L	0.057	0.57%
QC value within limits for Al 396.153 Recovery = 99.66%								
As 188.979†	579.9	0.393	mg/L	0.0003	0.393	mg/L	0.0003	0.08%
QC value within limits for As 188.979 Recovery = 98.24%								
Ba 233.527†	70479.0	0.991	mg/L	0.0102	0.991	mg/L	0.0102	1.03%
QC value within limits for Ba 233.527 Recovery = 99.14%								
Be 234.861†	38099.6	0.0503	mg/L	0.00034	0.0503	mg/L	0.00034	0.67%
QC value within limits for Be 234.861 Recovery = 100.66%								
B 249.677†	29087.7	0.498	mg/L	0.0054	0.498	mg/L	0.0054	1.09%
QC value within limits for B 249.677 Recovery = 99.52%								
Ca 227.546†	1197.8	10.3	mg/L	0.08	10.3	mg/L	0.08	0.78%
QC value within limits for Ca 227.546 Recovery = 103.19%								
Cd 228.802†	1215.1	0.0499	mg/L	0.00038	0.0499	mg/L	0.00038	0.76%
QC value within limits for Cd 228.802 Recovery = 99.87%								
Co 228.616†	4523.8	0.195	mg/L	0.0014	0.195	mg/L	0.0014	0.72%
QC value within limits for Co 228.616 Recovery = 97.51%								

Approved: January 13, 2011
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Cr 267.716†            64098.8       0.496 mg/L        0.0054       0.496 mg/L        0.0054   1.08%
   QC value within limits for Cr 267.716  Recovery = 99.30%
Cu 327.393†            78850.0       0.502 mg/L        0.0056       0.502 mg/L        0.0056   1.12%
   QC value within limits for Cu 327.393  Recovery = 100.38%
Fe 239.562†             2660.5        3.84 mg/L         0.077        3.84 mg/L         0.077   2.01%
   QC value within limits for Fe 239.562  Recovery = 96.09%
Mg 279.077†             9688.2        9.63 mg/L         0.227        9.63 mg/L         0.227   2.36%
   QC value within limits for Mg 279.077  Recovery = 96.27%
Mn 257.610†           243089.8       0.495 mg/L        0.0047       0.495 mg/L        0.0047   0.95%
   QC value within limits for Mn 257.610  Recovery = 99.00%
Mo 202.031†            16797.8       0.993 mg/L        0.0107       0.993 mg/L        0.0107   1.08%
   QC value within limits for Mo 202.031  Recovery = 99.31%
Ni 231.604†            20978.7       0.496 mg/L        0.0053       0.496 mg/L        0.0053   1.07%
   QC value within limits for Ni 231.604  Recovery = 99.18%
Pb 220.353†             3840.1       0.499 mg/L        0.0045       0.499 mg/L        0.0045   0.90%
   QC value within limits for Pb 220.353  Recovery = 99.82%
Sb 206.836†             2491.9        1.22 mg/L         0.006        1.22 mg/L         0.006   0.52%
   QC value within limits for Sb 206.836  Recovery = 101.37%
Se 196.026†              738.6       0.396 mg/L        0.0068       0.396 mg/L        0.0068   1.72%
   QC value within limits for Se 196.026  Recovery = 98.93%
Si 251.611†           192720.0        4.92 mg/L         0.040        4.92 mg/L         0.040   0.81%
   QC value within limits for Si 251.611  Recovery = 98.32%
Sn 189.927†             7234.6       0.983 mg/L        0.0068       0.983 mg/L        0.0068   0.69%
   QC value within limits for Sn 189.927  Recovery = 98.31%
Ti 334.940†           820253.4       0.990 mg/L        0.0040       0.990 mg/L        0.0040   0.40%
   QC value within limits for Ti 334.940  Recovery = 98.97%
Tl 190.801†             1017.4       0.507 mg/L        0.0022       0.507 mg/L        0.0022   0.43%
   QC value within limits for Tl 190.801  Recovery = 101.42%
V 290.880†            163142.3       0.980 mg/L        0.0098       0.980 mg/L        0.0098   1.00%
   QC value within limits for V 290.880  Recovery = 97.98%
Zn 206.200†            40820.8       0.986 mg/L        0.0127       0.986 mg/L        0.0127   1.29%
   QC value within limits for Zn 206.200  Recovery = 98.63%
K 766.490†            135977.5        50.5 mg/L          0.32        50.5 mg/L          0.32   0.63%
   QC value within limits for K 766.490  Recovery = 101.08%
Na 589.592†           700822.0        50.9 mg/L          0.66        50.9 mg/L          0.66   1.31%
   QC value within limits for Na 589.592  Recovery = 101.79%
Sr 407.771†          1713161.1       0.980 mg/L        0.0094       0.980 mg/L        0.0094   0.96%
   QC value within limits for Sr 407.771  Recovery = 97.99%
Li 670.784†            84116.3        1.01 mg/L         0.012        1.01 mg/L         0.012   1.19%
   QC value within limits for Li 670.784  Recovery = 100.74%
All analyte(s) passed QC.

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Sequence No.: 68                                  Autosampler Location: 6
Sample ID: CCV                                    Date Collected: 1/12/2011 7:27:27 PM
Analyst:                                          Data Type: Reprocessed on 1/13/2011 10:18:15 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: CCV
Analyte                 Back Pressure    Flow
All                     179.0 kPa        0.50 L/min

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Mean Data: CCV
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            4749332.6                                                      39554.01   0.83%
YRADIAL               277835.1                                                       3729.71   1.34%
Ga 417.206           1542507.3                                                      15752.02   1.02%
GaRADIAL               73310.7                                                        564.97   0.77%
Ag 328.068†            86437.8       0.409 mg/L        0.0061       0.409 mg/L        0.0061   1.50%
   QC value within limits for Ag 328.068  Recovery = 102.19%
Al 396.153†            54570.1        10.1 mg/L          0.02        10.1 mg/L          0.02   0.20%
   QC value within limits for Al 396.153  Recovery = 100.56%
As 188.979†              594.1       0.403 mg/L        0.0020       0.403 mg/L        0.0020   0.49%
   QC value within limits for As 188.979  Recovery = 100.63%
Ba 233.527†            72698.7        1.02 mg/L         0.014        1.02 mg/L         0.014   1.41%
   QC value within limits for Ba 233.527  Recovery = 102.26%
Be 234.861†            38972.2      0.0515 mg/L       0.00083      0.0515 mg/L       0.00083   1.61%
   QC value within limits for Be 234.861  Recovery = 102.98%
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Approved: January 13, 2011

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B 249.677†            30081.9       0.515 mg/L        0.0076       0.515 mg/L        0.0076   1.47%
   QC value within limits for B 249.677  Recovery = 102.97%
Ca 227.546†            1192.0        10.3 mg/L          0.13        10.3 mg/L          0.13   1.30%
   QC value within limits for Ca 227.546  Recovery = 102.90%
Cd 228.802†            1231.6      0.0506 mg/L       0.00087      0.0506 mg/L       0.00087   1.72%
   QC value within limits for Cd 228.802  Recovery = 101.22%
Co 228.616†            4636.0       0.200 mg/L        0.0020       0.200 mg/L        0.0020   0.99%
   QC value within limits for Co 228.616  Recovery = 99.94%
Cr 267.716†           65937.7       0.511 mg/L        0.0063       0.511 mg/L        0.0063   1.24%
   QC value within limits for Cr 267.716  Recovery = 102.15%
Cu 327.393†           80308.6       0.511 mg/L        0.0100       0.511 mg/L        0.0100   1.97%
   QC value within limits for Cu 327.393  Recovery = 102.24%
Fe 239.562†            2738.0        3.96 mg/L         0.022        3.96 mg/L         0.022   0.56%
   QC value within limits for Fe 239.562  Recovery = 98.89%
Mg 279.077†            9971.5        9.91 mg/L         0.058        9.91 mg/L         0.058   0.59%
   QC value within limits for Mg 279.077  Recovery = 99.09%
Mn 257.610†          251174.4       0.511 mg/L        0.0069       0.511 mg/L        0.0069   1.34%
   QC value within limits for Mn 257.610  Recovery = 102.28%
Mo 202.031†           17317.4        1.02 mg/L         0.014        1.02 mg/L         0.014   1.39%
   QC value within limits for Mo 202.031  Recovery = 102.38%
Ni 231.604†           21660.9       0.512 mg/L        0.0084       0.512 mg/L        0.0084   1.63%
   QC value within limits for Ni 231.604  Recovery = 102.41%
Pb 220.353†            3945.5       0.513 mg/L        0.0041       0.513 mg/L        0.0041   0.80%
   QC value within limits for Pb 220.353  Recovery = 102.56%
Sb 206.836†            2535.3        1.24 mg/L         0.013        1.24 mg/L         0.013   1.07%
   QC value within limits for Sb 206.836  Recovery = 103.16%
Se 196.026†             757.6       0.406 mg/L        0.0025       0.406 mg/L        0.0025   0.62%
   QC value within limits for Se 196.026  Recovery = 101.45%
Si 251.611†          197971.1        5.05 mg/L         0.079        5.05 mg/L         0.079   1.57%
   QC value within limits for Si 251.611  Recovery = 100.99%
Sn 189.927†            7454.2        1.01 mg/L         0.010        1.01 mg/L         0.010   0.94%
   QC value within limits for Sn 189.927  Recovery = 101.28%
Ti 334.940†          830733.5        1.00 mg/L         0.002        1.00 mg/L         0.002   0.17%
   QC value within limits for Ti 334.940  Recovery = 100.23%
Tl 190.801†            1045.7       0.521 mg/L        0.0080       0.521 mg/L        0.0080   1.54%
   QC value within limits for Tl 190.801  Recovery = 104.21%
V 290.880†           167930.3        1.01 mg/L         0.015        1.01 mg/L         0.015   1.52%
   QC value within limits for V 290.880  Recovery = 100.85%
Zn 206.200†           42655.9        1.03 mg/L         0.013        1.03 mg/L         0.013   1.30%
   QC value within limits for Zn 206.200  Recovery = 103.06%
K 766.490†           137829.1        51.2 mg/L          0.07        51.2 mg/L          0.07   0.13%
   QC value within limits for K 766.490  Recovery = 102.45%
Na 589.592†          712169.9        51.7 mg/L          0.77        51.7 mg/L          0.77   1.48%
   QC value within limits for Na 589.592  Recovery = 103.43%
Sr 407.771†         1733959.9       0.992 mg/L        0.0068       0.992 mg/L        0.0068   0.68%
   QC value within limits for Sr 407.771  Recovery = 99.18%
Li 670.784†           85100.6        1.02 mg/L         0.008        1.02 mg/L         0.008   0.80%
   QC value within limits for Li 670.784  Recovery = 101.92%
All analyte(s) passed QC.

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Sequence No.: 69 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/12/2011 7:34:06 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:16 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4979356.1						18515.89	0.37%
YRADIAL	285885.3						5533.65	1.94%
Ga 417.206	1628128.5						13146.83	0.81%
GaRADIAL	75578.0						1637.05	2.17%
Ag 328.068†	272.2	0.00112	mg/L	0.000357	0.00112	mg/L	0.000357	32.03%

QC value within limits for Ag 328.068 Recovery = Not calculated

Approved: January 13, 2011

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Al 396.153†              20.8    -0.00205 mg/L      0.009615    -0.00205 mg/L      0.009615 469.94%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†              -1.4     0.00085 mg/L      0.001195     0.00085 mg/L      0.001195 139.79%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              19.6    -0.00052 mg/L      0.000062    -0.00052 mg/L      0.000062  11.81%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              10.3     0.00005 mg/L      0.000020     0.00005 mg/L      0.000020  38.38%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              426.6     0.00731 mg/L      0.000108     0.00731 mg/L      0.000108   1.48%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               4.6      0.0501 mg/L       0.06933      0.0501 mg/L       0.06933 138.29%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†               2.8     0.00033 mg/L      0.000139     0.00033 mg/L      0.000139  42.64%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               3.8     0.00013 mg/L      0.000159     0.00013 mg/L      0.000159 121.87%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -15.3    -0.00039 mg/L      0.000109    -0.00039 mg/L      0.000109  28.21%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              86.2     0.00042 mg/L      0.000592     0.00042 mg/L      0.000592 142.01%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               1.4     0.00512 mg/L      0.003178     0.00512 mg/L      0.003178  62.10%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†               2.1     0.00404 mg/L      0.005675     0.00404 mg/L      0.005675 140.50%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†            -329.9    -0.00029 mg/L      0.000011    -0.00029 mg/L      0.000011   3.85%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               2.5     0.00024 mg/L      0.000249     0.00024 mg/L      0.000249 103.09%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              23.1    -0.00017 mg/L      0.000036    -0.00017 mg/L      0.000036  21.37%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               0.0    -0.00046 mg/L      0.000725    -0.00046 mg/L      0.000725 158.15%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               1.3     0.00242 mg/L      0.000578     0.00242 mg/L      0.000578  23.87%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -4.4     0.00019 mg/L      0.001868     0.00019 mg/L      0.001868 960.69%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†            -223.1     0.00158 mg/L      0.000245     0.00158 mg/L      0.000245  15.49%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               6.9     0.00245 mg/L      0.000834     0.00245 mg/L      0.000834  34.06%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             127.6     0.00365 mg/L      0.000108     0.00365 mg/L      0.000108   2.95%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -0.1     0.00004 mg/L      0.002176     0.00004 mg/L      0.002176 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              359.7     0.00396 mg/L      0.001074     0.00396 mg/L      0.001074  27.16%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               7.7     0.00052 mg/L      0.000238     0.00052 mg/L      0.000238  46.10%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               87.0      0.0376 mg/L       0.01788      0.0376 mg/L       0.01788  47.58%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             815.3      0.0413 mg/L       0.01257      0.0413 mg/L       0.01257  30.42%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              86.8    -0.00012 mg/L      0.000042    -0.00012 mg/L      0.000042  35.34%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             229.2     0.00226 mg/L      0.000706     0.00226 mg/L      0.000706  31.25%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 70 | **Autosampler Location: 37**
Sample ID: L1101002401 DL0.01 | **Date Collected: 1/12/2011 7:40:42 PM**
Analyst: PDM | **Data Type: Reprocessed on 1/13/2011 10:18:17 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Nebulizer Parameters: L1101002401 DL0.01

Analyte	**Back Pressure**	**Flow**
All	179.0 kPa	0.50 L/min

Mean Data: L1101002401 DL0.01

Approved: January 13, 2011

Pierce Morris

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4907379.1						47392.48	0.97%
YRADIAL	281272.0						6529.38	2.32%
Ga 417.206	1614503.5						33233.82	2.06%
GaRADIAL	75200.9						1921.41	2.56%
Ag 328.068†	227.1	0.00090	mg/L	0.000337	0.00090	mg/L	0.000337	37.21%
Al 396.153†	3275.8	0.599	mg/L	0.0033	0.599	mg/L	0.0033	0.55%
As 188.979†	2.6	0.00360	mg/L	0.001091	0.00360	mg/L	0.001091	30.34%
Ba 233.527†	277.2	0.00309	mg/L	0.000075	0.00309	mg/L	0.000075	2.44%
Be 234.861†	10.1	0.00004	mg/L	0.000033	0.00004	mg/L	0.000033	77.07%
B 249.677†	840.2	0.0135	mg/L	0.00075	0.0135	mg/L	0.00075	5.54%
Ca 227.546†	13.9	0.374	mg/L	0.0168	0.374	mg/L	0.0168	4.50%
Cd 228.802†	3.2	0.00098	mg/L	0.000051	0.00098	mg/L	0.000051	5.25%
Co 228.616†	1174.9	0.0512	mg/L	0.00074	0.0512	mg/L	0.00074	1.44%
Cr 267.716†	33.7	-0.00003	mg/L	0.000031	-0.00003	mg/L	0.000031	120.04%
Cu 327.393†	204.7	0.00110	mg/L	0.000589	0.00110	mg/L	0.000589	53.42%
Fe 239.562†	34.4	0.0527	mg/L	0.00207	0.0527	mg/L	0.00207	3.94%
Mg 279.077†	227.1	0.227	mg/L	0.0074	0.227	mg/L	0.0074	3.25%
Mn 257.610†	1199.9	0.00299	mg/L	0.000029	0.00299	mg/L	0.000029	0.96%
Mo 202.031†	2.6	0.00022	mg/L	0.000332	0.00022	mg/L	0.000332	153.60%
Ni 231.604†	11171.2	0.264	mg/L	0.0036	0.264	mg/L	0.0036	1.37%
Pb 220.353†	2.2	-0.00015	mg/L	0.000946	-0.00015	mg/L	0.000946	626.64%
Sb 206.836†	-2.5	0.00061	mg/L	0.002555	0.00061	mg/L	0.002555	416.61%
Se 196.026†	-9.3	-0.00242	mg/L	0.002607	-0.00242	mg/L	0.002607	107.75%
Si 251.611†	1668.1	0.0499	mg/L	0.00140	0.0499	mg/L	0.00140	2.81%
Sn 189.927†	2.9	0.00191	mg/L	0.000327	0.00191	mg/L	0.000327	17.14%
Ti 334.940†	195.1	0.00374	mg/L	0.000086	0.00374	mg/L	0.000086	2.31%
Tl 190.801†	8.6	0.00414	mg/L	0.000995	0.00414	mg/L	0.000995	24.01%
V 290.880†	422.6	0.00434	mg/L	0.000990	0.00434	mg/L	0.000990	22.80%
Zn 206.200†	661.9	0.0163	mg/L	0.00030	0.0163	mg/L	0.00030	1.83%
K 766.490†	446.1	0.161	mg/L	0.0075	0.161	mg/L	0.0075	4.66%
Na 589.592†	147487.4	10.7	mg/L	0.13	10.7	mg/L	0.13	1.17%
Sr 407.771†	10981.1	0.00611	mg/L	0.000101	0.00611	mg/L	0.000101	1.65%
Li 670.784†	7579.0	0.0903	mg/L	0.00186	0.0903	mg/L	0.00186	2.06%

Sequence No.: 71 **Autosampler Location: 98**
Sample ID: L1101002401PS WG353647-01 **Date Collected: 1/12/2011 7:47:21 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:18 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101002401PS WG353647-01

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101002401PS WG353647-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4894227.7						22684.48	0.46%
YRADIAL	278339.4						6206.34	2.23%
Ga 417.206	1616611.2						11429.06	0.71%
GaRADIAL	73771.8						2564.78	3.48%
Ag 328.068†	43088.3	0.204	mg/L	0.0011	0.204	mg/L	0.0011	0.55%
Al 396.153†	31083.2	5.73	mg/L	0.027	5.73	mg/L	0.027	0.47%
As 188.979†	289.6	0.197	mg/L	0.0023	0.197	mg/L	0.0023	1.16%
Ba 233.527†	36232.7	0.509	mg/L	0.0030	0.509	mg/L	0.0030	0.59%
Be 234.861†	19089.5	0.0252	mg/L	0.00016	0.0252	mg/L	0.00016	0.62%
B 249.677†	59448.7	1.01	mg/L	0.014	1.01	mg/L	0.014	1.35%
Ca 227.546†	595.4	5.39	mg/L	0.069	5.39	mg/L	0.069	1.27%
Cd 228.802†	597.1	0.0253	mg/L	0.00014	0.0253	mg/L	0.00014	0.54%
Co 228.616†	3463.6	0.150	mg/L	0.0007	0.150	mg/L	0.0007	0.49%
Cr 267.716†	32515.7	0.252	mg/L	0.0017	0.252	mg/L	0.0017	0.66%
Cu 327.393†	39255.9	0.250	mg/L	0.0029	0.250	mg/L	0.0029	1.17%
Fe 239.562†	1420.3	2.05	mg/L	0.071	2.05	mg/L	0.071	3.47%
Mg 279.077†	5370.5	5.34	mg/L	0.180	5.34	mg/L	0.180	3.37%
Mn 257.610†	126206.8	0.257	mg/L	0.0015	0.257	mg/L	0.0015	0.60%
Mo 202.031†	8650.6	0.511	mg/L	0.0032	0.511	mg/L	0.0032	0.63%
Ni 231.604†	21644.9	0.512	mg/L	0.0029	0.512	mg/L	0.0029	0.56%

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Pb 220.353†	1964.3	0.255 mg/L	0.0021	0.255 mg/L	0.0021	0.81%
Sb 206.836†	1253.7	0.608 mg/L	0.0051	0.608 mg/L	0.0051	0.84%
Se 196.026†	365.9	0.197 mg/L	0.0053	0.197 mg/L	0.0053	2.70%
Si 251.611†	100628.4	2.57 mg/L	0.027	2.57 mg/L	0.027	1.06%
Sn 189.927†	-15.7	-0.00062 mg/L	0.000351	-0.00062 mg/L	0.000351	56.47%
Ti 334.940†	420037.6	0.508 mg/L	0.0001	0.508 mg/L	0.0001	0.02%
Tl 190.801†	519.1	0.259 mg/L	0.0020	0.259 mg/L	0.0020	0.78%
V 290.880†	82674.2	0.497 mg/L	0.0037	0.497 mg/L	0.0037	0.75%
Zn 206.200†	21499.6	0.520 mg/L	0.0036	0.520 mg/L	0.0036	0.69%
K 766.490†	70410.1	26.2 mg/L	0.10	26.2 mg/L	0.10	0.37%
Na 589.592†	535842.4	39.0 mg/L	0.49	39.0 mg/L	0.49	1.27%
Sr 407.771†	898367.5	0.514 mg/L	0.0043	0.514 mg/L	0.0043	0.83%
Li 670.784†	50799.4	0.608 mg/L	0.0022	0.608 mg/L	0.0022	0.37%

Sequence No.: 72 **Autosampler Location: 99**
Sample ID: L1101002401DL WG353647-02 **Date Collected: 1/12/2011 7:54:02 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:19 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101002401DL WG353647-02

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101002401DL WG353647-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4982005.4						44588.53	0.89%
YRADIAL	285597.9						4161.13	1.46%
Ga 417.206	1653773.4						16142.73	0.98%
GaRADIAL	76663.9						860.92	1.12%
Ag 328.068†	189.9	0.00073	mg/L	0.000626	0.00073	mg/L	0.000626	86.16%
Al 396.153†	685.6	0.121	mg/L	0.0106	0.121	mg/L	0.0106	8.76%
As 188.979†	0.7	0.00231	mg/L	0.001420	0.00231	mg/L	0.001420	61.43%
Ba 233.527†	71.6	0.00021	mg/L	0.000024	0.00021	mg/L	0.000024	11.76%
Be 234.861†	64.9	0.00012	mg/L	0.000013	0.00012	mg/L	0.000013	11.11%
B 249.677†	728.4	0.0123	mg/L	0.00126	0.0123	mg/L	0.00126	10.30%
Ca 227.546†	-7.8	-0.00150	mg/L	0.035139	-0.00150	mg/L	0.035139	>999.9%
Cd 228.802†	-0.4	0.00031	mg/L	0.000219	0.00031	mg/L	0.000219	69.64%
Co 228.616†	240.9	0.0105	mg/L	0.00017	0.0105	mg/L	0.00017	1.64%
Cr 267.716†	-26.5	-0.00048	mg/L	0.000057	-0.00048	mg/L	0.000057	11.94%
Cu 327.393†	88.5	0.00042	mg/L	0.000386	0.00042	mg/L	0.000386	92.40%
Fe 239.562†	7.3	0.0136	mg/L	0.00136	0.0136	mg/L	0.00136	9.97%
Mg 279.077†	52.1	0.0536	mg/L	0.00446	0.0536	mg/L	0.00446	8.32%
Mn 257.610†	19.1	0.00045	mg/L	0.000017	0.00045	mg/L	0.000017	3.74%
Mo 202.031†	0.2	0.00010	mg/L	0.000351	0.00010	mg/L	0.000351	360.92%
Ni 231.604†	2262.5	0.0529	mg/L	0.00068	0.0529	mg/L	0.00068	1.30%
Pb 220.353†	4.4	0.00011	mg/L	0.000915	0.00011	mg/L	0.000915	817.76%
Sb 206.836†	-2.8	0.00045	mg/L	0.001478	0.00045	mg/L	0.001478	326.63%
Se 196.026†	-6.5	-0.00096	mg/L	0.000500	-0.00096	mg/L	0.000500	52.33%
Si 251.611†	117.3	0.0103	mg/L	0.00065	0.0103	mg/L	0.00065	6.31%
Sn 189.927†	-1.4	0.00132	mg/L	0.000619	0.00132	mg/L	0.000619	47.00%
Ti 334.940†	-62.4	0.00342	mg/L	0.000143	0.00342	mg/L	0.000143	4.17%
Tl 190.801†	3.1	0.00162	mg/L	0.001077	0.00162	mg/L	0.001077	66.62%
V 290.880†	246.3	0.00328	mg/L	0.001203	0.00328	mg/L	0.001203	36.69%
Zn 206.200†	188.3	0.00488	mg/L	0.000293	0.00488	mg/L	0.000293	6.02%
K 766.490†	79.1	0.0324	mg/L	0.03855	0.0324	mg/L	0.03855	118.90%
Na 589.592†	30911.3	2.24	mg/L	0.026	2.24	mg/L	0.026	1.18%
Sr 407.771†	2325.0	0.00116	mg/L	0.000101	0.00116	mg/L	0.000101	8.68%
Li 670.784†	1549.9	0.0181	mg/L	0.00104	0.0181	mg/L	0.00104	5.76%

Sequence No.: 73 **Autosampler Location: 100**
Sample ID: L1101002402 DL0.01 **Date Collected: 1/12/2011 8:00:41 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:25 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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Nebulizer Parameters: L1101002402 DL0.01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101002402 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5035976.0						56889.26	1.13%
YRADIAL	294636.1						5232.42	1.78%
Ga 417.206	1686487.7						28735.47	1.70%
GaRADIAL	78932.2						528.16	0.67%
Ag 328.068†	196.2	0.00076	mg/L	0.000495	0.00076	mg/L	0.000495	65.19%
Al 396.153†	3947.4	0.723	mg/L	0.0130	0.723	mg/L	0.0130	1.80%
As 188.979†	1.0	0.00246	mg/L	0.002736	0.00246	mg/L	0.002736	111.19%
Ba 233.527†	370.7	0.00440	mg/L	0.000107	0.00440	mg/L	0.000107	2.42%
Be 234.861†	58.8	0.00010	mg/L	0.000017	0.00010	mg/L	0.000017	17.27%
B 249.677†	1052.7	0.0171	mg/L	0.00148	0.0171	mg/L	0.00148	8.67%
Ca 227.546†	12.6	0.400	mg/L	0.0554	0.400	mg/L	0.0554	13.87%
Cd 228.802†	-2.7	0.00086	mg/L	0.000012	0.00086	mg/L	0.000012	1.40%
Co 228.616†	1408.2	0.0614	mg/L	0.00047	0.0614	mg/L	0.00047	0.76%
Cr 267.716†	32.3	-0.00004	mg/L	0.000116	-0.00004	mg/L	0.000116	291.86%
Cu 327.393†	307.4	0.00175	mg/L	0.000528	0.00175	mg/L	0.000528	30.27%
Fe 239.562†	59.2	0.0885	mg/L	0.00249	0.0885	mg/L	0.00249	2.82%
Mg 279.077†	260.6	0.261	mg/L	0.0046	0.261	mg/L	0.0046	1.77%
Mn 257.610†	1421.4	0.00345	mg/L	0.000051	0.00345	mg/L	0.000051	1.47%
Mo 202.031†	4.2	0.00031	mg/L	0.000307	0.00031	mg/L	0.000307	98.58%
Ni 231.604†	12793.4	0.302	mg/L	0.0040	0.302	mg/L	0.0040	1.32%
Pb 220.353†	-0.1	-0.00043	mg/L	0.000398	-0.00043	mg/L	0.000398	92.16%
Sb 206.836†	-5.1	-0.00067	mg/L	0.001958	-0.00067	mg/L	0.001958	292.26%
Se 196.026†	-7.3	-0.00136	mg/L	0.001575	-0.00136	mg/L	0.001575	115.84%
Si 251.611†	1662.3	0.0497	mg/L	0.00080	0.0497	mg/L	0.00080	1.61%
Sn 189.927†	-5.9	0.00071	mg/L	0.000269	0.00071	mg/L	0.000269	37.71%
Ti 334.940†	256.3	0.00381	mg/L	0.000070	0.00381	mg/L	0.000070	1.84%
Tl 190.801†	10.4	0.00497	mg/L	0.001240	0.00497	mg/L	0.001240	24.95%
V 290.880†	311.6	0.00368	mg/L	0.001026	0.00368	mg/L	0.001026	27.88%
Zn 206.200†	753.2	0.0185	mg/L	0.00014	0.0185	mg/L	0.00014	0.77%
K 766.490†	444.5	0.160	mg/L	0.0582	0.160	mg/L	0.0582	36.43%
Na 589.592†	154901.0	11.3	mg/L	0.17	11.3	mg/L	0.17	1.55%
Sr 407.771†	13221.6	0.00739	mg/L	0.000096	0.00739	mg/L	0.000096	1.30%
Li 670.784†	7822.7	0.0932	mg/L	0.00159	0.0932	mg/L	0.00159	1.70%

Sequence No.: 74 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 8:07:20 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:31 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4706247.2						53258.87	1.13%
YRADIAL	276431.2						7335.84	2.65%
Ga 417.206	1533560.1						28974.05	1.89%
GaRADIAL	73096.7						477.01	0.65%
Ag 328.068†	85923.1	0.406	mg/L	0.0092	0.406	mg/L	0.0092	2.27%
QC value within limits for Ag 328.068 Recovery = 101.59%								
Al 396.153†	54809.2	10.1	mg/L	0.04	10.1	mg/L	0.04	0.35%
QC value within limits for Al 396.153 Recovery = 101.00%								
As 188.979†	595.5	0.404	mg/L	0.0106	0.404	mg/L	0.0106	2.62%
QC value within limits for As 188.979 Recovery = 100.88%								
Ba 233.527†	72890.1	1.03	mg/L	0.018	1.03	mg/L	0.018	1.76%
QC value within limits for Ba 233.527 Recovery = 102.53%								
Be 234.861†	39086.8	0.0516	mg/L	0.00122	0.0516	mg/L	0.00122	2.36%

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   QC value within limits for Be 234.861  Recovery = 103.27%
B 249.677†            30121.8       0.516 mg/L        0.0160       0.516 mg/L        0.0160   3.11%
   QC value within limits for B 249.677  Recovery = 103.10%
Ca 227.546†            1201.0        10.4 mg/L          0.18        10.4 mg/L          0.18   1.77%
   QC value within limits for Ca 227.546  Recovery = 103.68%
Cd 228.802†            1235.0      0.0508 mg/L       0.00098      0.0508 mg/L       0.00098   1.92%
   QC value within limits for Cd 228.802  Recovery = 101.52%
Co 228.616†            4660.9       0.201 mg/L        0.0029       0.201 mg/L        0.0029   1.47%
   QC value within limits for Co 228.616  Recovery = 100.48%
Cr 267.716†           66276.4       0.513 mg/L        0.0087       0.513 mg/L        0.0087   1.70%
   QC value within limits for Cr 267.716  Recovery = 102.67%
Cu 327.393†           79540.6       0.506 mg/L        0.0112       0.506 mg/L        0.0112   2.21%
   QC value within limits for Cu 327.393  Recovery = 101.26%
Fe 239.562†            2745.2        3.97 mg/L         0.042        3.97 mg/L         0.042   1.06%
   QC value within limits for Fe 239.562  Recovery = 99.15%
Mg 279.077†            9979.3        9.92 mg/L         0.162        9.92 mg/L         0.162   1.63%
   QC value within limits for Mg 279.077  Recovery = 99.16%
Mn 257.610†          251717.3       0.513 mg/L        0.0090       0.513 mg/L        0.0090   1.76%
   QC value within limits for Mn 257.610  Recovery = 102.50%
Mo 202.031†           17328.7        1.02 mg/L         0.013        1.02 mg/L         0.013   1.28%
   QC value within limits for Mo 202.031  Recovery = 102.45%
Ni 231.604†           21870.1       0.517 mg/L        0.0100       0.517 mg/L        0.0100   1.93%
   QC value within limits for Ni 231.604  Recovery = 103.40%
Pb 220.353†            3973.9       0.516 mg/L        0.0058       0.516 mg/L        0.0058   1.12%
   QC value within limits for Pb 220.353  Recovery = 103.29%
Sb 206.836†            2540.5        1.24 mg/L         0.024        1.24 mg/L         0.024   1.96%
   QC value within limits for Sb 206.836  Recovery = 103.37%
Se 196.026†             760.2       0.407 mg/L        0.0090       0.407 mg/L        0.0090   2.21%
   QC value within limits for Se 196.026  Recovery = 101.79%
Si 251.611†          196663.9        5.02 mg/L         0.126        5.02 mg/L         0.126   2.51%
   QC value within limits for Si 251.611  Recovery = 100.32%
Sn 189.927†            7494.0        1.02 mg/L         0.014        1.02 mg/L         0.014   1.35%
   QC value within limits for Sn 189.927  Recovery = 101.82%
Ti 334.940†          832782.7        1.00 mg/L         0.001        1.00 mg/L         0.001   0.08%
   QC value within limits for Ti 334.940  Recovery = 100.47%
Tl 190.801†            1049.1       0.523 mg/L        0.0035       0.523 mg/L        0.0035   0.67%
   QC value within limits for Tl 190.801  Recovery = 104.55%
V 290.880†           168220.7        1.01 mg/L         0.017        1.01 mg/L         0.017   1.70%
   QC value within limits for V 290.880  Recovery = 101.02%
Zn 206.200†           43012.6        1.04 mg/L         0.022        1.04 mg/L         0.022   2.11%
   QC value within limits for Zn 206.200  Recovery = 103.92%
K 766.490†           138284.0        51.4 mg/L          0.21        51.4 mg/L          0.21   0.41%
   QC value within limits for K 766.490  Recovery = 102.79%
Na 589.592†          713071.6        51.8 mg/L          0.70        51.8 mg/L          0.70   1.36%
   QC value within limits for Na 589.592  Recovery = 103.56%
Sr 407.771†         1740713.4       0.996 mg/L        0.0099       0.996 mg/L        0.0099   0.99%
   QC value within limits for Sr 407.771  Recovery = 99.57%
Li 670.784†           85281.5        1.02 mg/L         0.013        1.02 mg/L         0.013   1.24%
   QC value within limits for Li 670.784  Recovery = 102.14%
All analyte(s) passed QC.
```

Sequence No.: 75 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/12/2011 8:13:57 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:32 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4924972.1						8266.42	0.17%
YRADIAL	287295.9						1887.87	0.66%
Ga 417.206	1628273.6						10380.11	0.64%
GaRADIAL	76081.9						1566.56	2.06%
Ag 328.068†	245.1	0.00099	mg/L	0.000650	0.00099	mg/L	0.000650	65.88%

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   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              -14.9    -0.00863 mg/L      0.007578    -0.00863 mg/L      0.007578  87.77%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               -2.7    -0.00001 mg/L      0.002455    -0.00001 mg/L      0.002455 >999.9%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               18.8    -0.00053 mg/L      0.000116    -0.00053 mg/L      0.000116  21.70%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†               20.1     0.00006 mg/L      0.000009     0.00006 mg/L      0.000009  14.57%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†               580.9     0.00992 mg/L      0.000866     0.00992 mg/L      0.000866   8.73%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               -3.2     -0.0137 mg/L       0.03227     -0.0137 mg/L       0.03227 235.88%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†                2.8     0.00033 mg/L      0.000167     0.00033 mg/L      0.000167  50.42%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                6.3     0.00024 mg/L      0.000310     0.00024 mg/L      0.000310 129.07%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -13.4    -0.00037 mg/L      0.000138    -0.00037 mg/L      0.000138  37.29%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†               81.5     0.00039 mg/L      0.000568     0.00039 mg/L      0.000568 146.54%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                1.8     0.00572 mg/L      0.003130     0.00572 mg/L      0.003130  54.69%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†                5.5     0.00737 mg/L      0.002200     0.00737 mg/L      0.002200  29.87%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -330.9    -0.00029 mg/L      0.000007    -0.00029 mg/L      0.000007   2.30%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -1.1     0.00003 mg/L      0.000222     0.00003 mg/L      0.000222 763.73%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               22.0    -0.00020 mg/L      0.000466    -0.00020 mg/L      0.000466 237.84%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                1.7    -0.00024 mg/L      0.000602    -0.00024 mg/L      0.000602 248.19%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -5.0    -0.00058 mg/L      0.000389    -0.00058 mg/L      0.000389  67.21%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -8.4    -0.00193 mg/L      0.002738    -0.00193 mg/L      0.002738 141.55%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -213.2     0.00184 mg/L      0.000081     0.00184 mg/L      0.000081   4.42%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                6.3     0.00236 mg/L      0.000348     0.00236 mg/L      0.000348  14.76%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†               89.1     0.00361 mg/L      0.000128     0.00361 mg/L      0.000128   3.56%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                6.8     0.00344 mg/L      0.002457     0.00344 mg/L      0.002457  71.36%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               253.1     0.00332 mg/L      0.000640     0.00332 mg/L      0.000640  19.28%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                2.1     0.00038 mg/L      0.000095     0.00038 mg/L      0.000095  24.92%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                95.6      0.0408 mg/L       0.03703      0.0408 mg/L       0.03703  90.75%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              562.7      0.0229 mg/L       0.00329      0.0229 mg/L       0.00329  14.39%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              105.9    -0.00011 mg/L      0.000033    -0.00011 mg/L      0.000033  31.25%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               51.9     0.00013 mg/L      0.000325     0.00013 mg/L      0.000325 242.17%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 76                                  Autosampler Location: 101
Sample ID: L1101002403 DL0.01                     Date Collected: 1/12/2011 8:20:33 PM
Analyst: PDM                                      Data Type: Reprocessed on 1/13/2011 10:18:33 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: L1101002403 DL0.01
Analyte                 Back Pressure    Flow
All                    179.0 kPa         0.50 L/min

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Mean Data: L1101002403 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4979207.6						25951.70	0.52%
YRADIAL	296417.9						5866.84	1.98%
Ga 417.206	1695881.1						16506.56	0.97%
GaRADIAL	79137.5						356.72	0.45%
Ag 328.068†	210.5	0.00083	mg/L	0.000224	0.00083	mg/L	0.000224	27.06%
Al 396.153†	6781.5	1.25	mg/L	0.006	1.25	mg/L	0.006	0.47%
As 188.979†	2.5	0.00344	mg/L	0.000777	0.00344	mg/L	0.000777	22.62%
Ba 233.527†	485.5	0.00601	mg/L	0.000142	0.00601	mg/L	0.000142	2.36%
Be 234.861†	78.7	0.00012	mg/L	0.000007	0.00012	mg/L	0.000007	5.44%
B 249.677†	948.4	0.0146	mg/L	0.00091	0.0146	mg/L	0.00091	6.27%
Ca 227.546†	-11.1	0.386	mg/L	0.0440	0.386	mg/L	0.0440	11.38%
Cd 228.802†	-3.9	0.00145	mg/L	0.000025	0.00145	mg/L	0.000025	1.72%
Co 228.616†	2625.2	0.114	mg/L	0.0007	0.114	mg/L	0.0007	0.64%
Cr 267.716†	76.2	0.00028	mg/L	0.000024	0.00028	mg/L	0.000024	8.59%
Cu 327.393†	354.8	0.00200	mg/L	0.001052	0.00200	mg/L	0.001052	52.61%
Fe 239.562†	74.1	0.110	mg/L	0.0021	0.110	mg/L	0.0021	1.91%
Mg 279.077†	417.6	0.417	mg/L	0.0089	0.417	mg/L	0.0089	2.13%
Mn 257.610†	3044.9	0.00673	mg/L	0.000057	0.00673	mg/L	0.000057	0.85%
Mo 202.031†	10.1	0.00064	mg/L	0.000289	0.00064	mg/L	0.000289	45.26%
Ni 231.604†	20842.3	0.493	mg/L	0.0055	0.493	mg/L	0.0055	1.12%
Pb 220.353†	-7.0	-0.00130	mg/L	0.000672	-0.00130	mg/L	0.000672	51.49%
Sb 206.836†	-4.8	-0.00050	mg/L	0.001719	-0.00050	mg/L	0.001719	346.60%
Se 196.026†	-10.2	-0.00290	mg/L	0.000595	-0.00290	mg/L	0.000595	20.49%
Si 251.611†	2401.0	0.0686	mg/L	0.00094	0.0686	mg/L	0.00094	1.37%
Sn 189.927†	-7.1	0.00054	mg/L	0.000360	0.00054	mg/L	0.000360	66.44%
Ti 334.940†	141.0	0.00367	mg/L	0.000084	0.00367	mg/L	0.000084	2.30%
Tl 190.801†	8.9	0.00409	mg/L	0.000055	0.00409	mg/L	0.000055	1.33%
V 290.880†	289.0	0.00355	mg/L	0.000720	0.00355	mg/L	0.000720	20.26%
Zn 206.200†	1377.4	0.0336	mg/L	0.00032	0.0336	mg/L	0.00032	0.95%
K 766.490†	678.6	0.248	mg/L	0.0176	0.248	mg/L	0.0176	7.08%
Na 589.592†	138307.7	10.1	mg/L	0.21	10.1	mg/L	0.21	2.07%
Sr 407.771†	20294.8	0.0114	mg/L	0.00006	0.0114	mg/L	0.00006	0.51%
Li 670.784†	8171.1	0.0974	mg/L	0.00243	0.0974	mg/L	0.00243	2.49%

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Sequence No.: 77
Sample ID: L1101002404 DL0.01
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 1/12/2011 8:27:13 PM
Data Type: Reprocessed on 1/13/2011 10:18:34 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101002404 DL0.01

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101002404 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4919721.9						57756.11	1.17%
YRADIAL	287727.9						4249.15	1.48%
Ga 417.206	1664252.4						12029.37	0.72%
GaRADIAL	77223.2						2207.96	2.86%
Ag 328.068†	248.3	0.00101	mg/L	0.000290	0.00101	mg/L	0.000290	28.67%
Al 396.153†	7422.0	1.36	mg/L	0.017	1.36	mg/L	0.017	1.24%
As 188.979†	0.6	0.00216	mg/L	0.003038	0.00216	mg/L	0.003038	140.97%
Ba 233.527†	693.1	0.00892	mg/L	0.000186	0.00892	mg/L	0.000186	2.09%
Be 234.861†	87.0	0.00011	mg/L	0.000018	0.00011	mg/L	0.000018	15.87%
B 249.677†	889.2	0.0138	mg/L	0.00055	0.0138	mg/L	0.00055	4.00%
Ca 227.546†	-32.2	0.292	mg/L	0.0268	0.292	mg/L	0.0268	9.18%
Cd 228.802†	-2.8	0.00159	mg/L	0.000084	0.00159	mg/L	0.000084	5.27%
Co 228.616†	2730.1	0.119	mg/L	0.0018	0.119	mg/L	0.0018	1.49%
Cr 267.716†	106.0	0.00051	mg/L	0.000043	0.00051	mg/L	0.000043	8.40%
Cu 327.393†	423.4	0.00243	mg/L	0.000261	0.00243	mg/L	0.000261	10.75%
Fe 239.562†	130.2	0.191	mg/L	0.0061	0.191	mg/L	0.0061	3.22%
Mg 279.077†	441.0	0.440	mg/L	0.0071	0.440	mg/L	0.0071	1.62%
Mn 257.610†	3104.5	0.00686	mg/L	0.000126	0.00686	mg/L	0.000126	1.83%
Mo 202.031†	8.7	0.00055	mg/L	0.000166	0.00055	mg/L	0.000166	30.34%

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Ni 231.604†	24325.2	0.575 mg/L	0.0115	0.575 mg/L	0.0115	2.00%
Pb 220.353†	3.0	-0.00003 mg/L	0.000865	-0.00003 mg/L	0.000865	>999.9%
Sb 206.836†	-4.9	-0.00055 mg/L	0.001380	-0.00055 mg/L	0.001380	252.83%
Se 196.026†	-9.5	-0.00262 mg/L	0.002811	-0.00262 mg/L	0.002811	107.16%
Si 251.611†	2752.7	0.0776 mg/L	0.00240	0.0776 mg/L	0.00240	3.10%
Sn 189.927†	-7.5	0.00049 mg/L	0.000770	0.00049 mg/L	0.000770	157.44%
Ti 334.940†	155.4	0.00368 mg/L	0.000120	0.00368 mg/L	0.000120	3.25%
Tl 190.801†	3.3	0.00133 mg/L	0.002137	0.00133 mg/L	0.002137	160.66%
V 290.880†	323.7	0.00376 mg/L	0.000235	0.00376 mg/L	0.000235	6.26%
Zn 206.200†	1428.6	0.0349 mg/L	0.00054	0.0349 mg/L	0.00054	1.55%
K 766.490†	517.6	0.188 mg/L	0.0172	0.188 mg/L	0.0172	9.11%
Na 589.592†	135396.5	9.86 mg/L	0.125	9.86 mg/L	0.125	1.27%
Sr 407.771†	21691.0	0.0122 mg/L	0.00016	0.0122 mg/L	0.00016	1.34%
Li 670.784†	7989.1	0.0952 mg/L	0.00145	0.0952 mg/L	0.00145	1.52%

Sequence No.: 78 **Autosampler Location: 103**
Sample ID: L1101004806 WG353221-01 **Date Collected: 1/12/2011 8:33:52 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:35 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101004806 WG353221-01

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1101004806 WG353221-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4924635.2						52230.40	1.06%
YRADIAL	282392.8						7726.23	2.74%
Ga 417.206	1651322.6						22222.67	1.35%
GaRADIAL	75932.9						1558.87	2.05%
Ag 328.068†	297.2	0.00122	mg/L	0.000322	0.00122	mg/L	0.000322	26.39%
Al 396.153†	-6.2	-0.00703	mg/L	0.006202	-0.00703	mg/L	0.006202	88.25%
As 188.979†	7.8	0.00703	mg/L	0.001355	0.00703	mg/L	0.001355	19.29%
Ba 233.527†	65.2	0.00012	mg/L	0.000009	0.00012	mg/L	0.000009	7.32%
Be 234.861†	56.1	0.00011	mg/L	0.000003	0.00011	mg/L	0.000003	2.36%
B 249.677†	892.8	0.0152	mg/L	0.00044	0.0152	mg/L	0.00044	2.91%
Ca 227.546†	661.8	5.40	mg/L	0.117	5.40	mg/L	0.117	2.17%
Cd 228.802†	4.0	0.00033	mg/L	0.000138	0.00033	mg/L	0.000138	41.47%
Co 228.616†	4.7	0.00017	mg/L	0.000200	0.00017	mg/L	0.000200	118.44%
Cr 267.716†	-31.2	-0.00051	mg/L	0.000045	-0.00051	mg/L	0.000045	8.69%
Cu 327.393†	131.4	0.00070	mg/L	0.000726	0.00070	mg/L	0.000726	102.98%
Fe 239.562†	2.0	0.00596	mg/L	0.002413	0.00596	mg/L	0.002413	40.47%
Mg 279.077†	1303.3	1.30	mg/L	0.036	1.30	mg/L	0.036	2.77%
Mn 257.610†	5213.6	0.0110	mg/L	0.00012	0.0110	mg/L	0.00012	1.07%
Mo 202.031†	-3.6	-0.00012	mg/L	0.000388	-0.00012	mg/L	0.000388	326.33%
Ni 231.604†	21.2	-0.00022	mg/L	0.000145	-0.00022	mg/L	0.000145	67.40%
Pb 220.353†	-4.8	-0.00083	mg/L	0.000621	-0.00083	mg/L	0.000621	75.20%
Sb 206.836†	1.9	0.00268	mg/L	0.000886	0.00268	mg/L	0.000886	33.05%
Se 196.026†	-13.0	-0.00302	mg/L	0.003147	-0.00302	mg/L	0.003147	104.06%
Si 251.611†	3199.1	0.0890	mg/L	0.00044	0.0890	mg/L	0.00044	0.50%
Sn 189.927†	-17.5	-0.00086	mg/L	0.000479	-0.00086	mg/L	0.000479	55.43%
Ti 334.940†	-72.3	0.00347	mg/L	0.000247	0.00347	mg/L	0.000247	7.12%
Tl 190.801†	10.5	0.00474	mg/L	0.001614	0.00474	mg/L	0.001614	34.03%
V 290.880†	284.2	0.00358	mg/L	0.000415	0.00358	mg/L	0.000415	11.59%
Zn 206.200†	44.4	0.00140	mg/L	0.000090	0.00140	mg/L	0.000090	6.42%
K 766.490†	443.5	0.164	mg/L	0.0071	0.164	mg/L	0.0071	4.36%
Na 589.592†	97860.8	7.12	mg/L	0.111	7.12	mg/L	0.111	1.55%
Sr 407.771†	98846.8	0.0564	mg/L	0.00044	0.0564	mg/L	0.00044	0.78%
Li 670.784†	284.7	0.00292	mg/L	0.000152	0.00292	mg/L	0.000152	5.20%

Sequence No.: 79 **Autosampler Location: 104**
Sample ID: L1101004807S WG353221-04 **Date Collected: 1/12/2011 8:40:31 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:42 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: January 13, 2011
Pierce Morris

Nebulizer Parameters: L1101004807S WG353221-04

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101004807S WG353221-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4693471.0						49752.74	1.06%
YRADIAL	278313.9						893.16	0.32%
Ga 417.206	1569982.0						20729.03	1.32%
GaRADIAL	74759.8						1678.91	2.25%
Ag 328.068†	232.2	0.00088	mg/L	0.000628	0.00088	mg/L	0.000628	71.39%
Al 396.153†	0.2	-0.00586	mg/L	0.007608	-0.00586	mg/L	0.007608	129.82%
As 188.979†	7.5	0.00682	mg/L	0.002170	0.00682	mg/L	0.002170	31.81%
Ba 233.527†	34.0	-0.00034	mg/L	0.000153	-0.00034	mg/L	0.000153	44.91%
Be 234.861†	49.1	0.00010	mg/L	0.000013	0.00010	mg/L	0.000013	12.09%
B 249.677†	1043.3	0.0177	mg/L	0.00228	0.0177	mg/L	0.00228	12.86%
Ca 227.546†	590.2	4.82	mg/L	0.453	4.82	mg/L	0.453	9.40%
Cd 228.802†	5.9	0.00042	mg/L	0.000125	0.00042	mg/L	0.000125	29.99%
Co 228.616†	10.0	0.00040	mg/L	0.000238	0.00040	mg/L	0.000238	59.25%
Cr 267.716†	75.9	0.00031	mg/L	0.000589	0.00031	mg/L	0.000589	188.99%
Cu 327.393†	32.2	0.00007	mg/L	0.000798	0.00007	mg/L	0.000798	>999.9%
Fe 239.562†	2.5	0.00553	mg/L	0.003765	0.00553	mg/L	0.003765	68.03%
Mg 279.077†	44498.6	44.2	mg/L	0.56	44.2	mg/L	0.56	1.28%
Mn 257.610†	4627.2	0.0113	mg/L	0.00153	0.0113	mg/L	0.00153	13.57%
Mo 202.031†	15.5	0.00101	mg/L	0.000165	0.00101	mg/L	0.000165	16.39%
Ni 231.604†	38.9	0.00020	mg/L	0.000296	0.00020	mg/L	0.000296	146.91%
Pb 220.353†	-5.1	-0.00088	mg/L	0.001225	-0.00088	mg/L	0.001225	138.73%
Sb 206.836†	1.1	0.00229	mg/L	0.002353	0.00229	mg/L	0.002353	102.74%
Se 196.026†	-11.3	-0.00231	mg/L	0.004475	-0.00231	mg/L	0.004475	193.86%
Si 251.611†	2213.8	0.0638	mg/L	0.00567	0.0638	mg/L	0.00567	8.89%
Sn 189.927†	-7.2	0.00054	mg/L	0.001182	0.00054	mg/L	0.001182	219.17%
Ti 334.940†	-46.6	0.00349	mg/L	0.000129	0.00349	mg/L	0.000129	3.70%
Tl 190.801†	14.2	0.00661	mg/L	0.003760	0.00661	mg/L	0.003760	56.88%
V 290.880†	-1246.2	-0.00302	mg/L	0.000955	-0.00302	mg/L	0.000955	31.58%
Zn 206.200†	47.6	0.00148	mg/L	0.000082	0.00148	mg/L	0.000082	5.57%
K 766.490†	1235.2	0.236	mg/L	0.0396	0.236	mg/L	0.0396	16.74%
Na 589.592†	3217751.5	230	mg/L	3.6	230	mg/L	3.6	1.56%
Sr 407.771†	265898.7	0.152	mg/L	0.0014	0.152	mg/L	0.0014	0.92%
Li 670.784†	659.9	0.00742	mg/L	0.001556	0.00742	mg/L	0.001556	20.97%

Sequence No.: 80
Sample ID: L1101004808SD WG353221-05
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 1/12/2011 8:47:15 PM
Data Type: Reprocessed on 1/13/2011 10:18:49 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101004808SD WG353221-05

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101004808SD WG353221-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4585343.6						34567.94	0.75%
YRADIAL	268746.4						2464.94	0.92%
Ga 417.206	1530365.8						16054.83	1.05%
GaRADIAL	72490.7						1107.30	1.53%
Ag 328.068†	846.8	0.00378	mg/L	0.000978	0.00378	mg/L	0.000978	25.85%
Al 396.153†	348.6	0.0584	mg/L	0.01582	0.0584	mg/L	0.01582	27.09%
As 188.979†	6.9	0.00642	mg/L	0.000668	0.00642	mg/L	0.000668	10.39%
Ba 233.527†	408.3	0.00493	mg/L	0.001013	0.00493	mg/L	0.001013	20.56%
Be 234.861†	219.5	0.00033	mg/L	0.000019	0.00033	mg/L	0.000019	5.90%
B 249.677†	1668.8	0.0283	mg/L	0.00343	0.0283	mg/L	0.00343	12.11%
Ca 227.546†	648.6	5.29	mg/L	0.401	5.29	mg/L	0.401	7.57%
Cd 228.802†	10.3	0.00061	mg/L	0.000200	0.00061	mg/L	0.000200	32.67%

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Co 228.616†	40.7	0.00173	mg/L	0.000160	0.00173	mg/L	0.000160	9.23%
Cr 267.716†	449.7	0.00321	mg/L	0.000434	0.00321	mg/L	0.000434	13.52%
Cu 327.393†	385.0	0.00231	mg/L	0.000669	0.00231	mg/L	0.000669	28.91%
Fe 239.562†	19.4	0.0298	mg/L	0.00499	0.0298	mg/L	0.00499	16.73%
Mg 279.077†	44762.2	44.5	mg/L	1.05	44.5	mg/L	1.05	2.35%
Mn 257.610†	6657.9	0.0154	mg/L	0.00146	0.0154	mg/L	0.00146	9.47%
Mo 202.031†	92.6	0.00557	mg/L	0.000312	0.00557	mg/L	0.000312	5.61%
Ni 231.604†	145.4	0.00273	mg/L	0.000068	0.00273	mg/L	0.000068	2.50%
Pb 220.353†	26.9	0.00328	mg/L	0.000899	0.00328	mg/L	0.000899	27.36%
Sb 206.836†	10.3	0.00681	mg/L	0.003040	0.00681	mg/L	0.003040	44.65%
Se 196.026†	-8.3	-0.00061	mg/L	0.003208	-0.00061	mg/L	0.003208	524.99%
Si 251.611†	3398.0	0.0940	mg/L	0.00742	0.0940	mg/L	0.00742	7.89%
Sn 189.927†	37.3	0.00656	mg/L	0.000383	0.00656	mg/L	0.000383	5.83%
Ti 334.940†	4192.4	0.00859	mg/L	0.000613	0.00859	mg/L	0.000613	7.13%
Tl 190.801†	12.8	0.00595	mg/L	0.001601	0.00595	mg/L	0.001601	26.90%
V 290.880†	-344.6	0.00240	mg/L	0.002503	0.00240	mg/L	0.002503	104.47%
Zn 206.200†	253.0	0.00644	mg/L	0.000561	0.00644	mg/L	0.000561	8.72%
K 766.490†	2011.6	0.526	mg/L	0.0341	0.526	mg/L	0.0341	6.48%
Na 589.592†	3216953.0	229	mg/L	6.5	229	mg/L	6.5	2.84%
Sr 407.771†	280115.4	0.160	mg/L	0.0012	0.160	mg/L	0.0012	0.73%
Li 670.784†	1351.2	0.0157	mg/L	0.00158	0.0157	mg/L	0.00158	10.05%

Sequence No.: 81
Sample ID: L1101004809 DL0.01
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 1/12/2011 8:53:59 PM
Data Type: Reprocessed on 1/13/2011 10:18:50 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101004809 DL0.01

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1101004809 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4712727.4						64703.47	1.37%
YRADIAL	275021.8						5708.74	2.08%
Ga 417.206	1581491.0						30189.37	1.91%
GaRADIAL	73990.7						1357.48	1.83%
Ag 328.068†	651.7	0.00286	mg/L	0.001034	0.00286	mg/L	0.001034	36.09%
Al 396.153†	378.3	0.0639	mg/L	0.00156	0.0639	mg/L	0.00156	2.44%
As 188.979†	10.3	0.00873	mg/L	0.000927	0.00873	mg/L	0.000927	10.62%
Ba 233.527†	366.0	0.00433	mg/L	0.000318	0.00433	mg/L	0.000318	7.34%
Be 234.861†	216.6	0.00032	mg/L	0.000036	0.00032	mg/L	0.000036	11.07%
B 249.677†	1488.6	0.0253	mg/L	0.00329	0.0253	mg/L	0.00329	13.00%
Ca 227.546†	606.9	4.95	mg/L	0.295	4.95	mg/L	0.295	5.95%
Cd 228.802†	7.0	0.00046	mg/L	0.000157	0.00046	mg/L	0.000157	34.06%
Co 228.616†	32.7	0.00138	mg/L	0.000191	0.00138	mg/L	0.000191	13.84%
Cr 267.716†	425.7	0.00302	mg/L	0.000935	0.00302	mg/L	0.000935	30.95%
Cu 327.393†	480.7	0.00292	mg/L	0.000534	0.00292	mg/L	0.000534	18.27%
Fe 239.562†	19.6	0.0302	mg/L	0.00137	0.0302	mg/L	0.00137	4.53%
Mg 279.077†	44306.6	44.0	mg/L	0.25	44.0	mg/L	0.25	0.57%
Mn 257.610†	6379.1	0.0148	mg/L	0.00149	0.0148	mg/L	0.00149	10.09%
Mo 202.031†	85.0	0.00512	mg/L	0.000423	0.00512	mg/L	0.000423	8.27%
Ni 231.604†	145.4	0.00272	mg/L	0.000301	0.00272	mg/L	0.000301	11.05%
Pb 220.353†	16.1	0.00187	mg/L	0.000826	0.00187	mg/L	0.000826	44.23%
Sb 206.836†	14.7	0.00885	mg/L	0.000582	0.00885	mg/L	0.000582	6.58%
Se 196.026†	-8.0	-0.00050	mg/L	0.003099	-0.00050	mg/L	0.003099	619.16%
Si 251.611†	3080.1	0.0859	mg/L	0.01023	0.0859	mg/L	0.01023	11.91%
Sn 189.927†	25.0	0.00490	mg/L	0.000836	0.00490	mg/L	0.000836	17.05%
Ti 334.940†	3828.2	0.00815	mg/L	0.000476	0.00815	mg/L	0.000476	5.84%
Tl 190.801†	22.2	0.0105	mg/L	0.00492	0.0105	mg/L	0.00492	46.73%
V 290.880†	-399.3	0.00204	mg/L	0.001517	0.00204	mg/L	0.001517	74.37%
Zn 206.200†	246.2	0.00628	mg/L	0.000394	0.00628	mg/L	0.000394	6.28%
K 766.490†	2075.2	0.554	mg/L	0.0253	0.554	mg/L	0.0253	4.57%
Na 589.592†	3163376.2	226	mg/L	3.9	226	mg/L	3.9	1.71%
Sr 407.771†	273648.8	0.156	mg/L	0.0008	0.156	mg/L	0.0008	0.51%
Li 670.784†	1342.3	0.0156	mg/L	0.00114	0.0156	mg/L	0.00114	7.28%

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Sequence No.: 82 **Autosampler Location: 107**
Sample ID: L1101004810 DL0.01 **Date Collected: 1/12/2011 9:00:43 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:51 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101004810 DL0.01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101004810 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4848209.2						2704.60	0.06%
YRADIAL	277790.8						2564.73	0.92%
Ga 417.206	1624372.7						1233.22	0.08%
GaRADIAL	75042.1						1930.12	2.57%
Ag 328.068†	254.8	0.00102	mg/L	0.000595	0.00102	mg/L	0.000595	58.49%
Al 396.153†	52.0	0.00372	mg/L	0.006704	0.00372	mg/L	0.006704	180.43%
As 188.979†	7.9	0.00716	mg/L	0.002496	0.00716	mg/L	0.002496	34.86%
Ba 233.527†	25.6	-0.00044	mg/L	0.000035	-0.00044	mg/L	0.000035	8.01%
Be 234.861†	63.2	0.00012	mg/L	0.000008	0.00012	mg/L	0.000008	6.78%
B 249.677†	1718.0	0.0291	mg/L	0.00093	0.0291	mg/L	0.00093	3.18%
Ca 227.546†	483.4	3.95	mg/L	0.036	3.95	mg/L	0.036	0.91%
Cd 228.802†	3.4	0.00031	mg/L	0.000076	0.00031	mg/L	0.000076	24.94%
Co 228.616†	7.8	0.00031	mg/L	0.000186	0.00031	mg/L	0.000186	60.65%
Cr 267.716†	-3.5	-0.00030	mg/L	0.000650	-0.00030	mg/L	0.000650	218.04%
Cu 327.393†	60.3	0.00025	mg/L	0.000663	0.00025	mg/L	0.000663	263.11%
Fe 239.562†	0.8	0.00429	mg/L	0.002789	0.00429	mg/L	0.002789	64.97%
Mg 279.077†	2083.6	2.07	mg/L	0.033	2.07	mg/L	0.033	1.62%
Mn 257.610†	3985.2	0.00882	mg/L	0.000111	0.00882	mg/L	0.000111	1.26%
Mo 202.031†	0.1	0.00010	mg/L	0.000247	0.00010	mg/L	0.000247	244.94%
Ni 231.604†	24.3	-0.00014	mg/L	0.000114	-0.00014	mg/L	0.000114	79.65%
Pb 220.353†	-3.7	-0.00075	mg/L	0.001174	-0.00075	mg/L	0.001174	155.85%
Sb 206.836†	-0.9	0.00136	mg/L	0.001122	0.00136	mg/L	0.001122	82.56%
Se 196.026†	-8.5	-0.00102	mg/L	0.005511	-0.00102	mg/L	0.005511	542.23%
Si 251.611†	1482.1	0.0452	mg/L	0.00026	0.0452	mg/L	0.00026	0.59%
Sn 189.927†	-14.6	-0.00048	mg/L	0.000290	-0.00048	mg/L	0.000290	60.84%
Ti 334.940†	-78.3	0.00344	mg/L	0.000202	0.00344	mg/L	0.000202	5.86%
Tl 190.801†	12.7	0.00598	mg/L	0.001863	0.00598	mg/L	0.001863	31.15%
V 290.880†	298.5	0.00371	mg/L	0.000444	0.00371	mg/L	0.000444	11.95%
Zn 206.200†	41.1	0.00132	mg/L	0.000185	0.00132	mg/L	0.000185	13.98%
K 766.490†	720.3	0.232	mg/L	0.0229	0.232	mg/L	0.0229	9.85%
Na 589.592†	572324.0	41.6	mg/L	0.77	41.6	mg/L	0.77	1.86%
Sr 407.771†	133581.6	0.0763	mg/L	0.00060	0.0763	mg/L	0.00060	0.78%
Li 670.784†	561.0	0.00623	mg/L	0.000426	0.00623	mg/L	0.000426	6.84%

Sequence No.: 83 **Autosampler Location: 108**
Sample ID: L1101004811 DL0.01 **Date Collected: 1/12/2011 9:07:26 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:18:52 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101004811 DL0.01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101004811 DL0.01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4820612.7						29421.53	0.61%
YRADIAL	280211.8						3309.84	1.18%
Ga 417.206	1643830.0						16729.09	1.02%
GaRADIAL	75491.7						1667.10	2.21%
Ag 328.068†	314.2	0.00130	mg/L	0.000066	0.00130	mg/L	0.000066	5.12%

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Al 396.153†	-4.8	-0.00678 mg/L	0.007278	-0.00678 mg/L	0.007278	107.38%
As 188.979†	2.8	0.00364 mg/L	0.001804	0.00364 mg/L	0.001804	49.55%
Ba 233.527†	23.5	-0.00047 mg/L	0.000077	-0.00047 mg/L	0.000077	16.43%
Be 234.861†	60.0	0.00012 mg/L	0.000016	0.00012 mg/L	0.000016	13.39%
B 249.677†	1571.4	0.0267 mg/L	0.00068	0.0267 mg/L	0.00068	2.57%
Ca 227.546†	469.0	3.83 mg/L	0.056	3.83 mg/L	0.056	1.47%
Cd 228.802†	2.5	0.00029 mg/L	0.000101	0.00029 mg/L	0.000101	34.43%
Co 228.616†	7.9	0.00031 mg/L	0.000161	0.00031 mg/L	0.000161	52.39%
Cr 267.716†	-26.1	-0.00047 mg/L	0.000055	-0.00047 mg/L	0.000055	11.54%
Cu 327.393†	111.5	0.00058 mg/L	0.000452	0.00058 mg/L	0.000452	78.11%
Fe 239.562†	0.8	0.00424 mg/L	0.002101	0.00424 mg/L	0.002101	49.59%
Mg 279.077†	2049.6	2.04 mg/L	0.033	2.04 mg/L	0.033	1.60%
Mn 257.610†	3816.5	0.00845 mg/L	0.000065	0.00845 mg/L	0.000065	0.77%
Mo 202.031†	-2.5	-0.00005 mg/L	0.000269	-0.00005 mg/L	0.000269	497.28%
Ni 231.604†	31.2	0.00002 mg/L	0.000036	0.00002 mg/L	0.000036	203.93%
Pb 220.353†	-5.1	-0.00094 mg/L	0.000604	-0.00094 mg/L	0.000604	64.24%
Sb 206.836†	-3.6	0.00005 mg/L	0.002545	0.00005 mg/L	0.002545	>999.9%
Se 196.026†	-13.5	-0.00372 mg/L	0.001831	-0.00372 mg/L	0.001831	49.21%
Si 251.611†	1450.5	0.0443 mg/L	0.00076	0.0443 mg/L	0.00076	1.72%
Sn 189.927†	-14.4	-0.00045 mg/L	0.000445	-0.00045 mg/L	0.000445	99.61%
Ti 334.940†	46.5	0.00359 mg/L	0.000069	0.00359 mg/L	0.000069	1.91%
Tl 190.801†	16.1	0.00761 mg/L	0.001084	0.00761 mg/L	0.001084	14.25%
V 290.880†	329.7	0.00390 mg/L	0.000583	0.00390 mg/L	0.000583	14.96%
Zn 206.200†	39.0	0.00127 mg/L	0.000165	0.00127 mg/L	0.000165	12.99%
K 766.490†	655.3	0.210 mg/L	0.0339	0.210 mg/L	0.0339	16.11%
Na 589.592†	538476.6	39.1 mg/L	0.53	39.1 mg/L	0.53	1.36%
Sr 407.771†	129229.1	0.0738 mg/L	0.00088	0.0738 mg/L	0.00088	1.19%
Li 670.784†	482.4	0.00529 mg/L	0.000733	0.00529 mg/L	0.000733	13.85%

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Sequence No.: 84 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/12/2011 9:14:09 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:53 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4746934.0						46311.65	0.98%
YRADIAL	279667.0						3121.20	1.12%
Ga 417.206	1540400.2						16251.73	1.06%
GaRADIAL	73968.8						1906.07	2.58%
Ag 328.068†	86546.7	0.409	mg/L	0.0053	0.409	mg/L	0.0053	1.31%
QC value within limits for Ag 328.068 Recovery = 102.32%								
Al 396.153†	54928.1	10.1	mg/L	0.01	10.1	mg/L	0.01	0.11%
QC value within limits for Al 396.153 Recovery = 101.22%								
As 188.979†	599.1	0.406	mg/L	0.0045	0.406	mg/L	0.0045	1.10%
QC value within limits for As 188.979 Recovery = 101.49%								
Ba 233.527†	73016.9	1.03	mg/L	0.012	1.03	mg/L	0.012	1.13%
QC value within limits for Ba 233.527 Recovery = 102.71%								
Be 234.861†	39260.1	0.0519	mg/L	0.00058	0.0519	mg/L	0.00058	1.12%
QC value within limits for Be 234.861 Recovery = 103.74%								
B 249.677†	29938.5	0.512	mg/L	0.0052	0.512	mg/L	0.0052	1.02%
QC value within limits for B 249.677 Recovery = 102.45%								
Ca 227.546†	1199.0	10.4	mg/L	0.18	10.4	mg/L	0.18	1.74%
QC value within limits for Ca 227.546 Recovery = 103.52%								
Cd 228.802†	1245.3	0.0512	mg/L	0.00119	0.0512	mg/L	0.00119	2.33%
QC value within limits for Cd 228.802 Recovery = 102.33%								
Co 228.616†	4666.9	0.201	mg/L	0.0031	0.201	mg/L	0.0031	1.54%
QC value within limits for Co 228.616 Recovery = 100.60%								
Cr 267.716†	66307.9	0.514	mg/L	0.0032	0.514	mg/L	0.0032	0.63%
QC value within limits for Cr 267.716 Recovery = 102.72%								
Cu 327.393†	80186.1	0.510	mg/L	0.0060	0.510	mg/L	0.0060	1.18%
QC value within limits for Cu 327.393 Recovery = 102.08%								
Fe 239.562†	2729.1	3.94	mg/L	0.072	3.94	mg/L	0.072	1.82%

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   QC value within limits for Fe 239.562  Recovery = 98.56%
Mg 279.077†            9944.6        9.88 mg/L        0.157        9.88 mg/L        0.157   1.59%
   QC value within limits for Mg 279.077  Recovery = 98.82%
Mn 257.610†          252085.6       0.513 mg/L       0.0050       0.513 mg/L       0.0050   0.97%
   QC value within limits for Mn 257.610  Recovery = 102.65%
Mo 202.031†           17359.3        1.03 mg/L        0.008        1.03 mg/L        0.008   0.79%
   QC value within limits for Mo 202.031  Recovery = 102.63%
Ni 231.604†           21859.9       0.517 mg/L       0.0055       0.517 mg/L       0.0055   1.06%
   QC value within limits for Ni 231.604  Recovery = 103.36%
Pb 220.353†            3979.1       0.517 mg/L       0.0067       0.517 mg/L       0.0067   1.30%
   QC value within limits for Pb 220.353  Recovery = 103.43%
Sb 206.836†            2554.3        1.25 mg/L        0.024        1.25 mg/L        0.024   1.93%
   QC value within limits for Sb 206.836  Recovery = 103.93%
Se 196.026†             762.4       0.408 mg/L       0.0053       0.408 mg/L       0.0053   1.29%
   QC value within limits for Se 196.026  Recovery = 102.09%
Si 251.611†          198036.9        5.05 mg/L        0.068        5.05 mg/L        0.068   1.34%
   QC value within limits for Si 251.611  Recovery = 101.02%
Sn 189.927†            7512.4        1.02 mg/L        0.015        1.02 mg/L        0.015   1.48%
   QC value within limits for Sn 189.927  Recovery = 102.07%
Ti 334.940†          837264.2        1.01 mg/L        0.002        1.01 mg/L        0.002   0.23%
   QC value within limits for Ti 334.940  Recovery = 101.01%
Tl 190.801†            1052.6       0.524 mg/L       0.0076       0.524 mg/L       0.0076   1.45%
   QC value within limits for Tl 190.801  Recovery = 104.89%
V 290.880†           168263.3        1.01 mg/L        0.010        1.01 mg/L        0.010   1.00%
   QC value within limits for V 290.880  Recovery = 101.05%
Zn 206.200†           43078.1        1.04 mg/L        0.010        1.04 mg/L        0.010   0.93%
   QC value within limits for Zn 206.200  Recovery = 104.08%
K 766.490†           138059.0        51.3 mg/L         0.11        51.3 mg/L         0.11   0.21%
   QC value within limits for K 766.490  Recovery = 102.62%
Na 589.592†          715921.7        52.0 mg/L         0.65        52.0 mg/L         0.65   1.26%
   QC value within limits for Na 589.592  Recovery = 103.97%
Sr 407.771†         1746485.5       0.999 mg/L       0.0126       0.999 mg/L       0.0126   1.26%
   QC value within limits for Sr 407.771  Recovery = 99.90%
Li 670.784†           85193.0        1.02 mg/L        0.003        1.02 mg/L        0.003   0.32%
   QC value within limits for Li 670.784  Recovery = 102.03%
All analyte(s) passed QC.
```

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Sequence No.: 85 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/12/2011 9:20:47 PM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:18:59 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5029046.6						12405.10	0.25%
YRADIAL	282073.4						4274.41	1.52%
Ga 417.206	1669093.2						15679.70	0.94%
GaRADIAL	74610.3						1583.70	2.12%
Ag 328.068†	206.2	0.00080	mg/L	0.000338	0.00080	mg/L	0.000338	42.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	56.5	0.00455	mg/L	0.009922	0.00455	mg/L	0.009922	217.99%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.1	0.00106	mg/L	0.001615	0.00106	mg/L	0.001615	152.43%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	18.4	-0.00054	mg/L	0.000091	-0.00054	mg/L	0.000091	16.86%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	25.1	0.00007	mg/L	0.000023	0.00007	mg/L	0.000023	32.73%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	303.4	0.00521	mg/L	0.000268	0.00521	mg/L	0.000268	5.14%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-1.7	-0.00184	mg/L	0.048303	-0.00184	mg/L	0.048303	>999.9%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.1	0.00030	mg/L	0.000225	0.00030	mg/L	0.000225	75.79%

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   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                9.9     0.00040 mg/L      0.000145     0.00040 mg/L      0.000145  36.31%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -31.2    -0.00051 mg/L      0.000120    -0.00051 mg/L      0.000120  23.50%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              102.0     0.00052 mg/L      0.000472     0.00052 mg/L      0.000472  91.26%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                0.8     0.00424 mg/L      0.001802     0.00424 mg/L      0.001802  42.53%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†                3.9     0.00581 mg/L      0.009086     0.00581 mg/L      0.009086 156.38%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -338.0    -0.00031 mg/L      0.000011    -0.00031 mg/L      0.000011   3.50%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -1.6     0.00000 mg/L      0.000280     0.00000 mg/L      0.000280 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               25.3    -0.00012 mg/L      0.000099    -0.00012 mg/L      0.000099  83.67%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               -1.0    -0.00059 mg/L      0.000489    -0.00059 mg/L      0.000489  82.42%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -5.4    -0.00079 mg/L      0.001694    -0.00079 mg/L      0.001694 214.01%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.9     0.00045 mg/L      0.002958     0.00045 mg/L      0.002958 655.00%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -235.3     0.00127 mg/L      0.000336     0.00127 mg/L      0.000336  26.32%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                8.7     0.00268 mg/L      0.000711     0.00268 mg/L      0.000711  26.50%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              -76.8     0.00341 mg/L      0.000035     0.00341 mg/L      0.000035   1.03%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.8     0.00195 mg/L      0.003421     0.00195 mg/L      0.003421 175.78%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               276.1     0.00346 mg/L      0.001168     0.00346 mg/L      0.001168  33.80%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                1.4     0.00036 mg/L      0.000176     0.00036 mg/L      0.000176  48.38%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               141.7      0.0580 mg/L       0.03491      0.0580 mg/L       0.03491  60.19%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              921.6      0.0491 mg/L       0.00472      0.0491 mg/L       0.00472   9.62%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†               52.4    -0.00014 mg/L      0.000038    -0.00014 mg/L      0.000038  27.68%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              120.5     0.00096 mg/L      0.001977     0.00096 mg/L      0.001977 206.62%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 86                                    Autosampler Location: 109
Sample ID: PBW 1T WG353353-02                       Date Collected: 1/12/2011 9:27:22 PM
Analyst: PDM                                        Data Type: Reprocessed on 1/13/2011 10:19:05 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                  Initial Sample Vol:
Dilution:                                           Sample Prep Vol:

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Nebulizer Parameters: PBW 1T WG353353-02
Analyte                 Back Pressure    Flow
All                    179.0 kPa         0.50 L/min

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Mean Data: PBW 1T WG353353-02
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029            5030006.2                                                      46433.95   0.92%
YRADIAL               290270.5                                                       5547.98   1.91%
Ga 417.206           1669718.4                                                      34157.81   2.05%
GaRADIAL               76749.9                                                       1523.87   1.99%
Ag 328.068†              245.4     0.00099 mg/L      0.000334     0.00099 mg/L      0.000334  33.74%
Al 396.153†               35.9     0.00074 mg/L      0.012367     0.00074 mg/L      0.012367 >999.9%
As 188.979†               -2.7     0.00002 mg/L      0.001268     0.00002 mg/L      0.001268 >999.9%
Ba 233.527†               30.4    -0.00037 mg/L      0.000068    -0.00037 mg/L      0.000068  18.38%
Be 234.861†               32.3     0.00008 mg/L      0.000017     0.00008 mg/L      0.000017  21.69%
B 249.677†               233.8     0.00408 mg/L      0.000264     0.00408 mg/L      0.000264   6.47%
Ca 227.546†                7.0      0.0698 mg/L       0.04104      0.0698 mg/L       0.04104  58.82%
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Cd 228.802†	3.7	0.00037	mg/L	0.000136	0.00037	mg/L	0.000136	37.00%
Co 228.616†	6.2	0.00023	mg/L	0.000047	0.00023	mg/L	0.000047	20.10%
Cr 267.716†	-18.0	-0.00041	mg/L	0.000082	-0.00041	mg/L	0.000082	20.17%
Cu 327.393†	111.1	0.00058	mg/L	0.001034	0.00058	mg/L	0.001034	179.40%
Fe 239.562†	6.5	0.0125	mg/L	0.00188	0.0125	mg/L	0.00188	14.98%
Mg 279.077†	-0.5	0.00138	mg/L	0.009502	0.00138	mg/L	0.009502	688.30%
Mn 257.610†	-187.9	-0.00001	mg/L	0.000009	-0.00001	mg/L	0.000009	166.15%
Mo 202.031†	0.4	0.00012	mg/L	0.000412	0.00012	mg/L	0.000412	349.42%
Ni 231.604†	26.5	-0.00009	mg/L	0.000106	-0.00009	mg/L	0.000106	119.77%
Pb 220.353†	-3.9	-0.00097	mg/L	0.000354	-0.00097	mg/L	0.000354	36.68%
Sb 206.836†	-7.4	-0.00174	mg/L	0.001208	-0.00174	mg/L	0.001208	69.53%
Se 196.026†	-4.9	-0.00010	mg/L	0.003349	-0.00010	mg/L	0.003349	>999.9%
Si 251.611†	-160.1	0.00319	mg/L	0.000285	0.00319	mg/L	0.000285	8.93%
Sn 189.927†	3.3	0.00196	mg/L	0.000688	0.00196	mg/L	0.000688	35.14%
Ti 334.940†	163.8	0.00370	mg/L	0.000116	0.00370	mg/L	0.000116	3.13%
Tl 190.801†	5.4	0.00275	mg/L	0.002710	0.00275	mg/L	0.002710	98.39%
V 290.880†	375.2	0.00405	mg/L	0.000581	0.00405	mg/L	0.000581	14.34%
Zn 206.200†	78.7	0.00223	mg/L	0.000175	0.00223	mg/L	0.000175	7.84%
K 766.490†	33.2	0.0175	mg/L	0.01885	0.0175	mg/L	0.01885	107.67%
Na 589.592†	834.0	0.0427	mg/L	0.00997	0.0427	mg/L	0.00997	23.35%
Sr 407.771†	438.3	0.00008	mg/L	0.000075	0.00008	mg/L	0.000075	90.13%
Li 670.784†	111.5	0.00085	mg/L	0.000723	0.00085	mg/L	0.000723	85.17%

Sequence No.: 87
Sample ID: LCSW 1T WG353353-03
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 1/12/2011 9:34:02 PM
Data Type: Reprocessed on 1/13/2011 10:19:06 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW 1T WG353353-03

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: LCSW 1T WG353353-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4882834.5						42374.90	0.87%
YRADIAL	289257.8						3105.25	1.07%
Ga 417.206	1635006.5						37001.94	2.26%
GaRADIAL	75591.6						973.62	1.29%
Ag 328.068†	42647.5	0.202	mg/L	0.0027	0.202	mg/L	0.0027	1.32%
Al 396.153†	27568.6	5.08	mg/L	0.014	5.08	mg/L	0.014	0.27%
As 188.979†	288.1	0.196	mg/L	0.0047	0.196	mg/L	0.0047	2.40%
Ba 233.527†	35936.2	0.505	mg/L	0.0013	0.505	mg/L	0.0013	0.25%
Be 234.861†	18770.9	0.0248	mg/L	0.00035	0.0248	mg/L	0.00035	1.42%
B 249.677†	57258.3	0.971	mg/L	0.0133	0.971	mg/L	0.0133	1.37%
Ca 227.546†	581.1	5.03	mg/L	0.132	5.03	mg/L	0.132	2.62%
Cd 228.802†	599.3	0.0248	mg/L	0.00076	0.0248	mg/L	0.00076	3.05%
Co 228.616†	2309.9	0.0996	mg/L	0.00108	0.0996	mg/L	0.00108	1.08%
Cr 267.716†	32473.5	0.251	mg/L	0.0005	0.251	mg/L	0.0005	0.20%
Cu 327.393†	38844.1	0.247	mg/L	0.0003	0.247	mg/L	0.0003	0.14%
Fe 239.562†	1321.1	1.91	mg/L	0.026	1.91	mg/L	0.026	1.38%
Mg 279.077†	4915.6	4.89	mg/L	0.059	4.89	mg/L	0.059	1.20%
Mn 257.610†	123847.8	0.252	mg/L	0.0007	0.252	mg/L	0.0007	0.29%
Mo 202.031†	8669.1	0.513	mg/L	0.0049	0.513	mg/L	0.0049	0.95%
Ni 231.604†	10898.3	0.257	mg/L	0.0028	0.257	mg/L	0.0028	1.07%
Pb 220.353†	1953.0	0.254	mg/L	0.0026	0.254	mg/L	0.0026	1.02%
Sb 206.836†	1215.0	0.595	mg/L	0.0140	0.595	mg/L	0.0140	2.35%
Se 196.026†	360.3	0.194	mg/L	0.0061	0.194	mg/L	0.0061	3.14%
Si 251.611†	97097.4	2.48	mg/L	0.037	2.48	mg/L	0.037	1.50%
Sn 189.927†	3901.3	0.531	mg/L	0.0065	0.531	mg/L	0.0065	1.22%
Ti 334.940†	415747.5	0.503	mg/L	0.0008	0.503	mg/L	0.0008	0.17%
Tl 190.801†	522.7	0.261	mg/L	0.0072	0.261	mg/L	0.0072	2.76%
V 290.880†	82684.7	0.497	mg/L	0.0018	0.497	mg/L	0.0018	0.36%
Zn 206.200†	20864.3	0.504	mg/L	0.0041	0.504	mg/L	0.0041	0.82%
K 766.490†	69158.9	25.7	mg/L	0.21	25.7	mg/L	0.21	0.83%
Na 589.592†	384522.0	28.0	mg/L	0.39	28.0	mg/L	0.39	1.38%
Sr 407.771†	872606.9	0.499	mg/L	0.0026	0.499	mg/L	0.0026	0.52%
Li 670.784†	42801.3	0.512	mg/L	0.0065	0.512	mg/L	0.0065	1.26%

Approved: January 13, 2011

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Sequence No.: 88 **Autosampler Location: 111**
Sample ID: L1101011601 **Date Collected: 1/12/2011 9:40:44 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:07 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011601

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101011601

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4754120.8						50186.87	1.06%
YRADIAL	280591.8						4215.83	1.50%
Ga 417.206	1596485.9						15373.12	0.96%
GaRADIAL	75769.1						990.27	1.31%
Ag 328.068†	1507.0	0.00692	mg/L	0.000494	0.00692	mg/L	0.000494	7.14%
Al 396.153†	464.4	0.0798	mg/L	0.00338	0.0798	mg/L	0.00338	4.24%
As 188.979†	30.7	0.0207	mg/L	0.00272	0.0207	mg/L	0.00272	13.12%
Ba 233.527†	2171.5	0.0297	mg/L	0.00032	0.0297	mg/L	0.00032	1.09%
Be 234.861†	233.8	0.00015	mg/L	0.000098	0.00015	mg/L	0.000098	65.34%
B 249.677†	68474.5	1.16	mg/L	0.023	1.16	mg/L	0.023	2.00%
Ca 227.546†	12493.1	102	mg/L	0.6	102	mg/L	0.6	0.54%
Cd 228.802†	2.6	0.00018	mg/L	0.000075	0.00018	mg/L	0.000075	41.72%
Co 228.616†	27.3	0.00112	mg/L	0.000359	0.00112	mg/L	0.000359	32.02%
Cr 267.716†	184.2	0.00117	mg/L	0.000035	0.00117	mg/L	0.000035	3.03%
Cu 327.393†	381.3	0.00236	mg/L	0.000338	0.00236	mg/L	0.000338	14.32%
Fe 239.562†	641.9	0.929	mg/L	0.0059	0.929	mg/L	0.0059	0.64%
Mg 279.077†	24587.9	24.4	mg/L	0.01	24.4	mg/L	0.01	0.05%
Mn 257.610†	55710.7	0.116	mg/L	0.0027	0.116	mg/L	0.0027	2.35%
Mo 202.031†	214.5	0.0128	mg/L	0.00043	0.0128	mg/L	0.00043	3.31%
Ni 231.604†	53.4	0.00052	mg/L	0.000343	0.00052	mg/L	0.000343	66.34%
Pb 220.353†	-36.1	-0.00021	mg/L	0.000686	-0.00021	mg/L	0.000686	331.96%
Sb 206.836†	56.5	0.0288	mg/L	0.00046	0.0288	mg/L	0.00046	1.60%
Se 196.026†	-55.7	-0.00146	mg/L	0.002668	-0.00146	mg/L	0.002668	182.68%
Si 251.611†	425293.2	10.9	mg/L	0.10	10.9	mg/L	0.10	0.88%
Sn 189.927†	-92.6	-0.0111	mg/L	0.00036	-0.0111	mg/L	0.00036	3.23%
Ti 334.940†	-244.6	0.00422	mg/L	0.000078	0.00422	mg/L	0.000078	1.85%
Tl 190.801†	111.2	0.0453	mg/L	0.00421	0.0453	mg/L	0.00421	9.29%
V 290.880†	-645.7	-0.00066	mg/L	0.001567	-0.00066	mg/L	0.001567	236.43%
Zn 206.200†	2188.2	0.0531	mg/L	0.00066	0.0531	mg/L	0.00066	1.25%
K 766.490†	58936.3	21.9	mg/L	0.19	21.9	mg/L	0.19	0.86%
Na 589.592†	1221291.2	88.4	mg/L	1.58	88.4	mg/L	1.58	1.79%
Sr 407.771†	442976.1	0.253	mg/L	0.0024	0.253	mg/L	0.0024	0.96%
Li 670.784†	1699.3	0.0199	mg/L	0.00132	0.0199	mg/L	0.00132	6.65%

Sequence No.: 89 **Autosampler Location: 112**
Sample ID: L1101011201 WG353353-01 **Date Collected: 1/12/2011 9:47:28 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:08 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201 WG353353-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101011201 WG353353-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4911195.2						13728.10	0.28%
YRADIAL	286657.5						8218.78	2.87%
Ga 417.206	1663641.3						8320.95	0.50%
GaRADIAL	77522.9						1191.78	1.54%

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Ag 328.068†	423.4	0.00172	mg/L	0.000455	0.00172	mg/L	0.000455	26.42%
Al 396.153†	350.4	0.0588	mg/L	0.00181	0.0588	mg/L	0.00181	3.07%
As 188.979†	7.2	0.00654	mg/L	0.000683	0.00654	mg/L	0.000683	10.45%
Ba 233.527†	3144.8	0.0434	mg/L	0.00077	0.0434	mg/L	0.00077	1.77%
Be 234.861†	55.4	0.00013	mg/L	0.000023	0.00013	mg/L	0.000023	17.81%
B 249.677†	1120.9	0.0209	mg/L	0.00159	0.0209	mg/L	0.00159	7.60%
Ca 227.546†	1462.4	11.9	mg/L	0.17	11.9	mg/L	0.17	1.40%
Cd 228.802†	2.7	0.00029	mg/L	0.000050	0.00029	mg/L	0.000050	17.46%
Co 228.616†	15.0	0.00059	mg/L	0.000119	0.00059	mg/L	0.000119	20.11%
Cr 267.716†	72.1	-0.00008	mg/L	0.000057	-0.00008	mg/L	0.000057	73.77%
Cu 327.393†	69.6	0.00034	mg/L	0.000143	0.00034	mg/L	0.000143	41.79%
Fe 239.562†	285.0	0.414	mg/L	0.0155	0.414	mg/L	0.0155	3.74%
Mg 279.077†	5475.2	5.44	mg/L	0.168	5.44	mg/L	0.168	3.09%
Mn 257.610†	450261.6	0.908	mg/L	0.0177	0.908	mg/L	0.0177	1.95%
Mo 202.031†	-2.6	0.00015	mg/L	0.000073	0.00015	mg/L	0.000073	49.39%
Ni 231.604†	81.7	0.00121	mg/L	0.000221	0.00121	mg/L	0.000221	18.21%
Pb 220.353†	-12.8	-0.00165	mg/L	0.000811	-0.00165	mg/L	0.000811	49.27%
Sb 206.836†	5.9	0.00454	mg/L	0.000827	0.00454	mg/L	0.000827	18.21%
Se 196.026†	-18.8	-0.00484	mg/L	0.001083	-0.00484	mg/L	0.001083	22.39%
Si 251.611†	193479.7	4.95	mg/L	0.164	4.95	mg/L	0.164	3.31%
Sn 189.927†	-37.1	-0.00353	mg/L	0.000422	-0.00353	mg/L	0.000422	11.95%
Ti 334.940†	-5.9	0.00361	mg/L	0.000143	0.00361	mg/L	0.000143	3.96%
Tl 190.801†	25.7	0.0129	mg/L	0.00373	0.0129	mg/L	0.00373	28.84%
V 290.880†	182.5	0.00320	mg/L	0.000708	0.00320	mg/L	0.000708	22.13%
Zn 206.200†	211.2	0.00541	mg/L	0.000697	0.00541	mg/L	0.000697	12.88%
K 766.490†	3496.3	1.29	mg/L	0.039	1.29	mg/L	0.039	2.98%
Na 589.592†	207248.3	15.1	mg/L	0.38	15.1	mg/L	0.38	2.52%
Sr 407.771†	107080.6	0.0611	mg/L	0.00045	0.0611	mg/L	0.00045	0.74%
Li 670.784†	253.1	0.00255	mg/L	0.000815	0.00255	mg/L	0.000815	32.02%

Sequence No.: 90
Sample ID: L1101011201S WG353353-04
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 113
Date Collected: 1/12/2011 9:54:09 PM
Data Type: Reprocessed on 1/13/2011 10:19:10 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101011201S WG353353-04

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101011201S WG353353-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4868529.3						41388.94	0.85%
YRADIAL	283238.3						3029.32	1.07%
Ga 417.206	1615432.6						10333.65	0.64%
GaRADIAL	75641.3						2245.72	2.97%
Ag 328.068†	21881.5	0.103	mg/L	0.0018	0.103	mg/L	0.0018	1.71%
Al 396.153†	13960.5	2.57	mg/L	0.015	2.57	mg/L	0.015	0.59%
As 188.979†	154.4	0.106	mg/L	0.0017	0.106	mg/L	0.0017	1.58%
Ba 233.527†	21286.2	0.299	mg/L	0.0046	0.299	mg/L	0.0046	1.53%
Be 234.861†	9742.2	0.0129	mg/L	0.00012	0.0129	mg/L	0.00012	0.94%
B 249.677†	30261.6	0.515	mg/L	0.0107	0.515	mg/L	0.0107	2.07%
Ca 227.546†	1794.6	14.8	mg/L	0.08	14.8	mg/L	0.08	0.52%
Cd 228.802†	307.9	0.0128	mg/L	0.00008	0.0128	mg/L	0.00008	0.63%
Co 228.616†	1178.1	0.0507	mg/L	0.00015	0.0507	mg/L	0.00015	0.29%
Cr 267.716†	16414.2	0.127	mg/L	0.0013	0.127	mg/L	0.0013	1.05%
Cu 327.393†	19586.8	0.125	mg/L	0.0019	0.125	mg/L	0.0019	1.56%
Fe 239.562†	950.9	1.38	mg/L	0.042	1.38	mg/L	0.042	3.05%
Mg 279.077†	7608.5	7.56	mg/L	0.169	7.56	mg/L	0.169	2.24%
Mn 257.610†	507222.0	1.02	mg/L	0.001	1.02	mg/L	0.001	0.12%
Mo 202.031†	4377.2	0.259	mg/L	0.0023	0.259	mg/L	0.0023	0.89%
Ni 231.604†	5522.3	0.130	mg/L	0.0013	0.130	mg/L	0.0013	0.97%
Pb 220.353†	987.7	0.129	mg/L	0.0025	0.129	mg/L	0.0025	1.97%
Sb 206.836†	639.2	0.314	mg/L	0.0021	0.314	mg/L	0.0021	0.66%
Se 196.026†	163.2	0.0922	mg/L	0.00383	0.0922	mg/L	0.00383	4.15%
Si 251.611†	244447.4	6.25	mg/L	0.021	6.25	mg/L	0.021	0.33%
Sn 189.927†	1958.7	0.267	mg/L	0.0021	0.267	mg/L	0.0021	0.77%
Ti 334.940†	208166.6	0.254	mg/L	0.0004	0.254	mg/L	0.0004	0.15%

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Tl 190.801†	285.4	0.142 mg/L	0.0020	0.142 mg/L	0.0020	1.40%
V 290.880†	41654.9	0.252 mg/L	0.0041	0.252 mg/L	0.0041	1.61%
Zn 206.200†	10739.9	0.260 mg/L	0.0034	0.260 mg/L	0.0034	1.32%
K 766.490†	37395.6	13.9 mg/L	0.07	13.9 mg/L	0.07	0.52%
Na 589.592†	384342.5	28.0 mg/L	0.37	28.0 mg/L	0.37	1.32%
Sr 407.771†	538100.6	0.308 mg/L	0.0039	0.308 mg/L	0.0039	1.28%
Li 670.784†	21276.2	0.254 mg/L	0.0016	0.254 mg/L	0.0016	0.65%

Sequence No.: 91 **Autosampler Location: 114**
Sample ID: L1101011201SD WG353353-05 **Date Collected: 1/12/2011 10:00:50 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:11 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201SD WG353353-05

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101011201SD WG353353-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4832157.6						31257.67	0.65%
YRADIAL	279327.2						4178.28	1.50%
Ga 417.206	1605229.4						18191.78	1.13%
GaRADIAL	74716.8						1074.04	1.44%
Ag 328.068†	22351.9	0.105	mg/L	0.0008	0.105	mg/L	0.0008	0.80%
Al 396.153†	14105.1	2.59	mg/L	0.020	2.59	mg/L	0.020	0.75%
As 188.979†	156.8	0.107	mg/L	0.0031	0.107	mg/L	0.0031	2.84%
Ba 233.527†	21568.9	0.303	mg/L	0.0013	0.303	mg/L	0.0013	0.42%
Be 234.861†	9845.1	0.0131	mg/L	0.00014	0.0131	mg/L	0.00014	1.03%
B 249.677†	31022.0	0.528	mg/L	0.0050	0.528	mg/L	0.0050	0.95%
Ca 227.546†	1778.1	14.6	mg/L	0.16	14.6	mg/L	0.16	1.09%
Cd 228.802†	308.2	0.0128	mg/L	0.00030	0.0128	mg/L	0.00030	2.36%
Co 228.616†	1188.5	0.0512	mg/L	0.00046	0.0512	mg/L	0.00046	0.90%
Cr 267.716†	16718.4	0.129	mg/L	0.0005	0.129	mg/L	0.0005	0.41%
Cu 327.393†	19903.3	0.127	mg/L	0.0025	0.127	mg/L	0.0025	1.94%
Fe 239.562†	952.2	1.38	mg/L	0.004	1.38	mg/L	0.004	0.26%
Mg 279.077†	7571.3	7.52	mg/L	0.015	7.52	mg/L	0.015	0.20%
Mn 257.610†	500544.8	1.01	mg/L	0.003	1.01	mg/L	0.003	0.30%
Mo 202.031†	4450.7	0.263	mg/L	0.0015	0.263	mg/L	0.0015	0.55%
Ni 231.604†	5633.0	0.133	mg/L	0.0022	0.133	mg/L	0.0022	1.63%
Pb 220.353†	1000.2	0.130	mg/L	0.0016	0.130	mg/L	0.0016	1.24%
Sb 206.836†	646.4	0.317	mg/L	0.0052	0.317	mg/L	0.0052	1.65%
Se 196.026†	174.0	0.0978	mg/L	0.00166	0.0978	mg/L	0.00166	1.70%
Si 251.611†	240792.3	6.15	mg/L	0.011	6.15	mg/L	0.011	0.18%
Sn 189.927†	2011.0	0.274	mg/L	0.0015	0.274	mg/L	0.0015	0.53%
Ti 334.940†	210082.0	0.256	mg/L	0.0006	0.256	mg/L	0.0006	0.23%
Tl 190.801†	289.4	0.144	mg/L	0.0027	0.144	mg/L	0.0027	1.86%
V 290.880†	42676.8	0.258	mg/L	0.0012	0.258	mg/L	0.0012	0.46%
Zn 206.200†	11116.0	0.269	mg/L	0.0038	0.269	mg/L	0.0038	1.40%
K 766.490†	37616.9	14.0	mg/L	0.04	14.0	mg/L	0.04	0.30%
Na 589.592†	381542.8	27.8	mg/L	0.47	27.8	mg/L	0.47	1.69%
Sr 407.771†	537039.7	0.307	mg/L	0.0050	0.307	mg/L	0.0050	1.64%
Li 670.784†	21362.7	0.255	mg/L	0.0015	0.255	mg/L	0.0015	0.59%

Sequence No.: 92 **Autosampler Location: 115**
Sample ID: L1101011201PS WG353432-03 **Date Collected: 1/12/2011 10:07:31 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:22 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201PS WG353432-03

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

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Mean Data: L1101011201PS WG353432-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4833019.9						64245.70	1.33%
YRADIAL	285995.9						1790.11	0.63%
Ga 417.206	1616975.4						20329.18	1.26%
GaRADIAL	76011.8						1983.11	2.61%
Ag 328.068†	42701.4	0.202	mg/L	0.0036	0.202	mg/L	0.0036	1.80%
Al 396.153†	27209.7	5.01	mg/L	0.023	5.01	mg/L	0.023	0.47%
As 188.979†	297.6	0.202	mg/L	0.0040	0.202	mg/L	0.0040	1.97%
Ba 233.527†	38860.2	0.546	mg/L	0.0079	0.546	mg/L	0.0079	1.44%
Be 234.861†	18900.5	0.0250	mg/L	0.00055	0.0250	mg/L	0.00055	2.20%
B 249.677†	59098.9	1.00	mg/L	0.017	1.00	mg/L	0.017	1.73%
Ca 227.546†	2118.0	17.5	mg/L	0.18	17.5	mg/L	0.18	1.02%
Cd 228.802†	598.0	0.0247	mg/L	0.00041	0.0247	mg/L	0.00041	1.68%
Co 228.616†	2311.7	0.0996	mg/L	0.00096	0.0996	mg/L	0.00096	0.96%
Cr 267.716†	32463.2	0.251	mg/L	0.0038	0.251	mg/L	0.0038	1.50%
Cu 327.393†	38418.4	0.245	mg/L	0.0053	0.245	mg/L	0.0053	2.16%
Fe 239.562†	1594.3	2.30	mg/L	0.032	2.30	mg/L	0.032	1.41%
Mg 279.077†	9931.5	9.87	mg/L	0.091	9.87	mg/L	0.091	0.92%
Mn 257.610†	572944.7	1.16	mg/L	0.009	1.16	mg/L	0.009	0.78%
Mo 202.031†	8708.8	0.515	mg/L	0.0066	0.515	mg/L	0.0066	1.27%
Ni 231.604†	10874.5	0.257	mg/L	0.0036	0.257	mg/L	0.0036	1.39%
Pb 220.353†	1947.7	0.253	mg/L	0.0034	0.253	mg/L	0.0034	1.36%
Sb 206.836†	1255.2	0.609	mg/L	0.0090	0.609	mg/L	0.0090	1.47%
Se 196.026†	355.6	0.195	mg/L	0.0078	0.195	mg/L	0.0078	4.02%
Si 251.611†	296383.3	7.57	mg/L	0.142	7.57	mg/L	0.142	1.88%
Sn 189.927†	-35.1	-0.00325	mg/L	0.000647	-0.00325	mg/L	0.000647	19.92%
Ti 334.940†	416008.4	0.504	mg/L	0.0019	0.504	mg/L	0.0019	0.38%
Tl 190.801†	550.3	0.274	mg/L	0.0078	0.274	mg/L	0.0078	2.83%
V 290.880†	82670.9	0.498	mg/L	0.0076	0.498	mg/L	0.0076	1.53%
Zn 206.200†	20857.5	0.504	mg/L	0.0063	0.504	mg/L	0.0063	1.25%
K 766.490†	71168.4	26.5	mg/L	0.16	26.5	mg/L	0.16	0.60%
Na 589.592†	569561.3	41.4	mg/L	0.71	41.4	mg/L	0.71	1.71%
Sr 407.771†	962042.0	0.550	mg/L	0.0057	0.550	mg/L	0.0057	1.04%
Saturated within auto integration window (code 4)								
Li 670.784†	42350.3	0.507	mg/L	0.0039	0.507	mg/L	0.0039	0.76%

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Sequence No.: 93 **Autosampler Location: 116**
Sample ID: L1101011201DL WG353432-04 **Date Collected: 1/12/2011 10:14:13 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:23 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101011201DL WG353432-04

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101011201DL WG353432-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5015720.0						28625.73	0.57%
YRADIAL	281589.1						5170.90	1.84%
Ga 417.206	1656126.1						7660.69	0.46%
GaRADIAL	75502.2						651.86	0.86%
Ag 328.068†	354.2	0.00148	mg/L	0.000544	0.00148	mg/L	0.000544	36.78%
Al 396.153†	50.8	0.00350	mg/L	0.009162	0.00350	mg/L	0.009162	261.43%
As 188.979†	4.4	0.00481	mg/L	0.002102	0.00481	mg/L	0.002102	43.74%
Ba 233.527†	624.4	0.00797	mg/L	0.000100	0.00797	mg/L	0.000100	1.26%
Be 234.861†	33.8	0.00009	mg/L	0.000007	0.00009	mg/L	0.000007	7.69%
B 249.677†	1218.2	0.0210	mg/L	0.00090	0.0210	mg/L	0.00090	4.30%
Ca 227.546†	279.0	2.28	mg/L	0.055	2.28	mg/L	0.055	2.40%
Cd 228.802†	4.7	0.00038	mg/L	0.000109	0.00038	mg/L	0.000109	28.85%
Co 228.616†	11.2	0.00045	mg/L	0.000099	0.00045	mg/L	0.000099	22.24%
Cr 267.716†	1.2	-0.00033	mg/L	0.000238	-0.00033	mg/L	0.000238	72.39%
Cu 327.393†	109.7	0.00057	mg/L	0.000613	0.00057	mg/L	0.000613	107.10%
Fe 239.562†	52.8	0.0793	mg/L	0.00073	0.0793	mg/L	0.00073	0.92%
Mg 279.077†	1026.2	1.02	mg/L	0.013	1.02	mg/L	0.013	1.29%
Mn 257.610†	86574.7	0.175	mg/L	0.0015	0.175	mg/L	0.0015	0.88%

Approved: January 13, 2011

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Mo 202.031†	-2.8	-0.00003 mg/L	0.000300	-0.00003 mg/L	0.000300	903.85%
Ni 231.604†	30.7	0.00001 mg/L	0.000173	0.00001 mg/L	0.000173	>999.9%
Pb 220.353†	-5.8	-0.00112 mg/L	0.000868	-0.00112 mg/L	0.000868	77.71%
Sb 206.836†	-2.5	0.00059 mg/L	0.000306	0.00059 mg/L	0.000306	51.96%
Se 196.026†	-6.2	-0.00028 mg/L	0.001766	-0.00028 mg/L	0.001766	633.67%
Si 251.611†	37416.0	0.963 mg/L	0.0078	0.963 mg/L	0.0078	0.81%
Sn 189.927†	-4.9	0.00084 mg/L	0.000187	0.00084 mg/L	0.000187	22.22%
Ti 334.940†	36.6	0.00357 mg/L	0.000052	0.00357 mg/L	0.000052	1.46%
Tl 190.801†	8.5	0.00433 mg/L	0.002593	0.00433 mg/L	0.002593	59.91%
V 290.880†	212.8	0.00313 mg/L	0.001189	0.00313 mg/L	0.001189	37.95%
Zn 206.200†	153.3	0.00402 mg/L	0.000171	0.00402 mg/L	0.000171	4.26%
K 766.490†	706.3	0.266 mg/L	0.0388	0.266 mg/L	0.0388	14.60%
Na 589.592†	39353.4	2.85 mg/L	0.059	2.85 mg/L	0.059	2.08%
Sr 407.771†	19673.9	0.0111 mg/L	0.00017	0.0111 mg/L	0.00017	1.52%
Li 670.784†	58.8	0.00022 mg/L	0.000501	0.00022 mg/L	0.000501	229.99%

Sequence No.: 94 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 1/12/2011 10:20:52 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:24 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4762897.2						7305.05	0.15%
YRADIAL	276718.3						4501.84	1.63%
Ga 417.206	1571295.8						17132.88	1.09%
GaRADIAL	73053.3						1364.35	1.87%
Ag 328.068†	84915.2	0.402	mg/L	0.0073	0.402	mg/L	0.0073	1.82%
QC value within limits for Ag 328.068 Recovery = 100.40%								
Al 396.153†	54715.8	10.1	mg/L	0.03	10.1	mg/L	0.03	0.34%
QC value within limits for Al 396.153 Recovery = 100.83%								
As 188.979†	583.4	0.395	mg/L	0.0075	0.395	mg/L	0.0075	1.89%
QC value within limits for As 188.979 Recovery = 98.82%								
Ba 233.527†	72461.5	1.02	mg/L	0.008	1.02	mg/L	0.008	0.79%
QC value within limits for Ba 233.527 Recovery = 101.93%								
Be 234.861†	38424.2	0.0508	mg/L	0.00076	0.0508	mg/L	0.00076	1.49%
QC value within limits for Be 234.861 Recovery = 101.57%								
B 249.677†	30232.2	0.517	mg/L	0.0103	0.517	mg/L	0.0103	1.99%
QC value within limits for B 249.677 Recovery = 103.42%								
Ca 227.546†	1164.0	10.1	mg/L	0.13	10.1	mg/L	0.13	1.29%
QC value within limits for Ca 227.546 Recovery = 100.62%								
Cd 228.802†	1216.6	0.0500	mg/L	0.00056	0.0500	mg/L	0.00056	1.13%
QC value within limits for Cd 228.802 Recovery = 100.07%								
Co 228.616†	4621.2	0.199	mg/L	0.0008	0.199	mg/L	0.0008	0.40%
QC value within limits for Co 228.616 Recovery = 99.61%								
Cr 267.716†	66114.1	0.512	mg/L	0.0049	0.512	mg/L	0.0049	0.95%
QC value within limits for Cr 267.716 Recovery = 102.42%								
Cu 327.393†	78562.3	0.500	mg/L	0.0100	0.500	mg/L	0.0100	2.00%
QC value within limits for Cu 327.393 Recovery = 100.02%								
Fe 239.562†	2696.2	3.90	mg/L	0.069	3.90	mg/L	0.069	1.78%
QC value within limits for Fe 239.562 Recovery = 97.38%								
Mg 279.077†	9826.1	9.76	mg/L	0.164	9.76	mg/L	0.164	1.68%
QC value within limits for Mg 279.077 Recovery = 97.64%								
Mn 257.610†	250196.7	0.509	mg/L	0.0047	0.509	mg/L	0.0047	0.93%
QC value within limits for Mn 257.610 Recovery = 101.88%								
Mo 202.031†	17268.0	1.02	mg/L	0.009	1.02	mg/L	0.009	0.85%
QC value within limits for Mo 202.031 Recovery = 102.09%								
Ni 231.604†	21677.3	0.512	mg/L	0.0044	0.512	mg/L	0.0044	0.86%
QC value within limits for Ni 231.604 Recovery = 102.49%								
Pb 220.353†	3962.1	0.515	mg/L	0.0012	0.515	mg/L	0.0012	0.24%
QC value within limits for Pb 220.353 Recovery = 102.98%								
Sb 206.836†	2473.2	1.21	mg/L	0.015	1.21	mg/L	0.015	1.21%
QC value within limits for Sb 206.836 Recovery = 100.69%								

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Se 196.026†              747.1       0.400 mg/L        0.0090       0.400 mg/L        0.0090   2.26%
   QC value within limits for Se 196.026  Recovery = 100.04%
Si 251.611†           193461.7        4.93 mg/L         0.098        4.93 mg/L         0.098   1.98%
   QC value within limits for Si 251.611  Recovery = 98.69%
Sn 189.927†             7451.9        1.01 mg/L         0.004        1.01 mg/L         0.004   0.44%
   QC value within limits for Sn 189.927  Recovery = 101.25%
Ti 334.940†           834692.8        1.01 mg/L         0.002        1.01 mg/L         0.002   0.22%
   QC value within limits for Ti 334.940  Recovery = 100.70%
Tl 190.801†             1040.3       0.518 mg/L        0.0035       0.518 mg/L        0.0035   0.67%
   QC value within limits for Tl 190.801  Recovery = 103.70%
V 290.880†            167388.0        1.01 mg/L         0.009        1.01 mg/L         0.009   0.93%
   QC value within limits for V 290.880  Recovery = 100.52%
Zn 206.200†            42752.4        1.03 mg/L         0.008        1.03 mg/L         0.008   0.80%
   QC value within limits for Zn 206.200  Recovery = 103.29%
K 766.490†            137958.3        51.3 mg/L          0.24        51.3 mg/L          0.24   0.47%
   QC value within limits for K 766.490  Recovery = 102.55%
Na 589.592†           711803.1        51.7 mg/L          0.80        51.7 mg/L          0.80   1.54%
   QC value within limits for Na 589.592  Recovery = 103.37%
Sr 407.771†          1731939.9       0.991 mg/L        0.0146       0.991 mg/L        0.0146   1.47%
   QC value within limits for Sr 407.771  Recovery = 99.07%
Li 670.784†            84666.6        1.01 mg/L         0.005        1.01 mg/L         0.005   0.54%
   QC value within limits for Li 670.784  Recovery = 101.40%
All analyte(s) passed QC.
```

Sequence No.: 95 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 1/12/2011 10:27:33 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:25 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4945574.9						31058.83	0.63%
YRADIAL	281471.8						6242.15	2.22%
Ga 417.206	1646833.0						19378.72	1.18%
GaRADIAL	74228.3						2663.71	3.59%
Ag 328.068†	263.8	0.00108	mg/L	0.000146	0.00108	mg/L	0.000146	13.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	1.9	-0.00554	mg/L	0.003714	-0.00554	mg/L	0.003714	66.99%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.0	0.00181	mg/L	0.001774	0.00181	mg/L	0.001774	97.79%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	21.0	-0.00050	mg/L	0.000020	-0.00050	mg/L	0.000020	4.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	35.3	0.00008	mg/L	0.000004	0.00008	mg/L	0.000004	4.87%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	1006.7	0.0171	mg/L	0.00012	0.0171	mg/L	0.00012	0.71%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-0.6	0.00756	mg/L	0.042088	0.00756	mg/L	0.042088	556.75%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	3.6	0.00035	mg/L	0.000087	0.00035	mg/L	0.000087	24.80%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	9.2	0.00036	mg/L	0.000190	0.00036	mg/L	0.000190	52.46%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-11.0	-0.00035	mg/L	0.000115	-0.00035	mg/L	0.000115	32.72%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	65.4	0.00029	mg/L	0.000127	0.00029	mg/L	0.000127	44.56%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-1.7	0.00070	mg/L	0.001802	0.00070	mg/L	0.001802	258.32%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	0.9	0.00286	mg/L	0.002711	0.00286	mg/L	0.002711	94.66%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-292.7	-0.00022	mg/L	0.000007	-0.00022	mg/L	0.000007	3.35%
QC value within limits for Mn 257.610 Recovery = Not calculated								

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Mo 202.031†	-3.0	-0.00008	mg/L	0.000302	-0.00008	mg/L	0.000302	367.56%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	25.3	-0.00012	mg/L	0.000214	-0.00012	mg/L	0.000214	184.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.5	-0.00014	mg/L	0.000959	-0.00014	mg/L	0.000959	685.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-7.3	-0.00168	mg/L	0.000944	-0.00168	mg/L	0.000944	56.20%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-2.8	0.00101	mg/L	0.002417	0.00101	mg/L	0.002417	239.52%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-248.1	0.00095	mg/L	0.000476	0.00095	mg/L	0.000476	50.13%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	9.8	0.00284	mg/L	0.000224	0.00284	mg/L	0.000224	7.88%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	176.8	0.00371	mg/L	0.000144	0.00371	mg/L	0.000144	3.88%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-3.2	-0.00146	mg/L	0.001023	-0.00146	mg/L	0.001023	69.94%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	395.2	0.00417	mg/L	0.000398	0.00417	mg/L	0.000398	9.55%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	9.1	0.00055	mg/L	0.000170	0.00055	mg/L	0.000170	31.00%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	145.8	0.0595	mg/L	0.03469	0.0595	mg/L	0.03469	58.29%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	650.4	0.0293	mg/L	0.00267	0.0293	mg/L	0.00267	9.11%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	116.8	-0.00010	mg/L	0.000030	-0.00010	mg/L	0.000030	29.75%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	105.2	0.00077	mg/L	0.000291	0.00077	mg/L	0.000291	37.57%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 96 **Autosampler Location: 117**
Sample ID: PBW B7 WG353774-01 **Date Collected: 1/12/2011 10:34:12 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:26 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW B7 WG353774-01

Analyte	**Back Pressure**	**Flow**
All	177.0 kPa	0.50 L/min

Mean Data: PBW B7 WG353774-01

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5050904.4						38388.96	0.76%
YRADIAL	288788.2						8494.87	2.94%
Ga 417.206	1676549.9						26008.29	1.55%
GaRADIAL	76223.1						519.71	0.68%
Ag 328.068†	220.9	0.00087	mg/L	0.000498	0.00087	mg/L	0.000498	56.96%
Al 396.153†	22.6	-0.00171	mg/L	0.013173	-0.00171	mg/L	0.013173	771.54%
As 188.979†	3.2	0.00405	mg/L	0.000829	0.00405	mg/L	0.000829	20.48%
Ba 233.527†	21.6	-0.00050	mg/L	0.000027	-0.00050	mg/L	0.000027	5.35%
Be 234.861†	28.7	0.00007	mg/L	0.000016	0.00007	mg/L	0.000016	24.16%
B 249.677†	813.8	0.0140	mg/L	0.00162	0.0140	mg/L	0.00162	11.57%
Ca 227.546†	-2.7	-0.00920	mg/L	0.019791	-0.00920	mg/L	0.019791	215.15%
Cd 228.802†	6.3	0.00045	mg/L	0.000095	0.00045	mg/L	0.000095	21.19%
Co 228.616†	8.4	0.00033	mg/L	0.000216	0.00033	mg/L	0.000216	65.88%
Cr 267.716†	-56.8	-0.00071	mg/L	0.000557	-0.00071	mg/L	0.000557	79.03%
Cu 327.393†	127.1	0.00068	mg/L	0.000431	0.00068	mg/L	0.000431	63.50%
Fe 239.562†	21.6	0.0343	mg/L	0.00333	0.0343	mg/L	0.00333	9.70%
Mg 279.077†	-2.2	-0.00029	mg/L	0.007075	-0.00029	mg/L	0.007075	>999.9%
Mn 257.610†	-268.9	-0.00016	mg/L	0.000008	-0.00016	mg/L	0.000008	4.63%
Mo 202.031†	-1.9	-0.00002	mg/L	0.000056	-0.00002	mg/L	0.000056	373.59%
Ni 231.604†	20.3	-0.00024	mg/L	0.000218	-0.00024	mg/L	0.000218	92.41%
Pb 220.353†	2.5	-0.00014	mg/L	0.000688	-0.00014	mg/L	0.000688	497.16%
Sb 206.836†	-8.7	-0.00234	mg/L	0.001108	-0.00234	mg/L	0.001108	47.33%
Se 196.026†	-8.0	-0.00177	mg/L	0.001467	-0.00177	mg/L	0.001467	83.12%
Si 251.611†	-222.0	0.00162	mg/L	0.000347	0.00162	mg/L	0.000347	21.48%

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Sn 189.927†	0.7	0.00161 mg/L	0.000493	0.00161 mg/L	0.000493	30.62%
Ti 334.940†	85.1	0.00360 mg/L	0.000037	0.00360 mg/L	0.000037	1.02%
Tl 190.801†	0.2	0.00019 mg/L	0.004878	0.00019 mg/L	0.004878	>999.9%
V 290.880†	240.6	0.00324 mg/L	0.000521	0.00324 mg/L	0.000521	16.08%
Zn 206.200†	50.6	0.00155 mg/L	0.000088	0.00155 mg/L	0.000088	5.67%
K 766.490†	110.0	0.0462 mg/L	0.01214	0.0462 mg/L	0.01214	26.29%
Na 589.592†	487.3	0.0174 mg/L	0.00836	0.0174 mg/L	0.00836	48.12%
Sr 407.771†	82.0	-0.00012 mg/L	0.000012	-0.00012 mg/L	0.000012	9.63%
Li 670.784†	122.4	0.00098 mg/L	0.001853	0.00098 mg/L	0.001853	189.35%

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Sequence No.: 97 **Autosampler Location: 9**
Sample ID: F BLANK WG353721-01 **Date Collected: 1/12/2011 10:40:51 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:28 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: F BLANK WG353721-01

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: F BLANK WG353721-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5072664.8						67045.12	1.32%
YRADIAL	294777.4						9226.30	3.13%
Ga 417.206	1693845.9						36965.36	2.18%
GaRADIAL	77537.3						2488.51	3.21%
Ag 328.068†	151.3	0.00055	mg/L	0.000663	0.00055	mg/L	0.000663	121.41%
Al 396.153†	62.0	0.00557	mg/L	0.008733	0.00557	mg/L	0.008733	156.90%
As 188.979†	-1.6	0.00073	mg/L	0.002654	0.00073	mg/L	0.002654	363.60%
Ba 233.527†	10.5	-0.00065	mg/L	0.000121	-0.00065	mg/L	0.000121	18.57%
Be 234.861†	25.5	0.00007	mg/L	0.000014	0.00007	mg/L	0.000014	19.92%
B 249.677†	800.8	0.0136	mg/L	0.00014	0.0136	mg/L	0.00014	1.03%
Ca 227.546†	-9.1	-0.0619	mg/L	0.05533	-0.0619	mg/L	0.05533	89.38%
Cd 228.802†	6.7	0.00049	mg/L	0.000106	0.00049	mg/L	0.000106	21.73%
Co 228.616†	7.7	0.00030	mg/L	0.000175	0.00030	mg/L	0.000175	57.96%
Cr 267.716†	-4.7	-0.00030	mg/L	0.000067	-0.00030	mg/L	0.000067	22.14%
Cu 327.393†	243.7	0.00142	mg/L	0.000750	0.00142	mg/L	0.000750	52.87%
Fe 239.562†	4.7	0.00995	mg/L	0.002925	0.00995	mg/L	0.002925	29.40%
Mg 279.077†	-0.5	0.00140	mg/L	0.001906	0.00140	mg/L	0.001906	135.70%
Mn 257.610†	-284.9	-0.00020	mg/L	0.000015	-0.00020	mg/L	0.000015	7.64%
Mo 202.031†	-3.6	-0.00012	mg/L	0.000243	-0.00012	mg/L	0.000243	204.43%
Ni 231.604†	29.1	-0.00003	mg/L	0.000170	-0.00003	mg/L	0.000170	642.20%
Pb 220.353†	-6.5	-0.00131	mg/L	0.001059	-0.00131	mg/L	0.001059	80.85%
Sb 206.836†	-2.4	0.00066	mg/L	0.002109	0.00066	mg/L	0.002109	321.99%
Se 196.026†	-7.2	-0.00136	mg/L	0.004220	-0.00136	mg/L	0.004220	310.01%
Si 251.611†	-171.6	0.00291	mg/L	0.000300	0.00291	mg/L	0.000300	10.33%
Sn 189.927†	-0.2	0.00148	mg/L	0.000444	0.00148	mg/L	0.000444	29.96%
Ti 334.940†	36.6	0.00354	mg/L	0.000029	0.00354	mg/L	0.000029	0.81%
Tl 190.801†	-0.2	0.00001	mg/L	0.001507	0.00001	mg/L	0.001507	>999.9%
V 290.880†	351.9	0.00391	mg/L	0.001112	0.00391	mg/L	0.001112	28.44%
Zn 206.200†	136.6	0.00362	mg/L	0.000163	0.00362	mg/L	0.000163	4.51%
K 766.490†	98.2	0.0418	mg/L	0.01320	0.0418	mg/L	0.01320	31.58%
Na 589.592†	415.5	0.0121	mg/L	0.00406	0.0121	mg/L	0.00406	33.46%
Sr 407.771†	-41.0	-0.00019	mg/L	0.000057	-0.00019	mg/L	0.000057	29.68%
Li 670.784†	130.1	0.00107	mg/L	0.000398	0.00107	mg/L	0.000398	37.08%

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Sequence No.: 98 **Autosampler Location: 10**
Sample ID: F BLANK WG353631-01 **Date Collected: 1/12/2011 10:47:29 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:34 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: F BLANK WG353631-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Approved: January 13, 2011

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Mean Data: F BLANK WG353631-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5033137.3						37131.73	0.74%
YRADIAL	291695.5						5262.66	1.80%
Ga 417.206	1674095.3						7302.50	0.44%
GaRADIAL	76746.6						423.58	0.55%
Ag 328.068†	262.3	0.00107	mg/L	0.000346	0.00107	mg/L	0.000346	32.29%
Al 396.153†	30.1	-0.00033	mg/L	0.007487	-0.00033	mg/L	0.007487	>999.9%
As 188.979†	1.0	0.00255	mg/L	0.000535	0.00255	mg/L	0.000535	20.96%
Ba 233.527†	23.0	-0.00047	mg/L	0.000131	-0.00047	mg/L	0.000131	27.75%
Be 234.861†	7.0	0.00005	mg/L	0.000019	0.00005	mg/L	0.000019	40.38%
B 249.677†	661.8	0.0113	mg/L	0.00091	0.0113	mg/L	0.00091	8.10%
Ca 227.546†	-11.7	-0.0828	mg/L	0.01757	-0.0828	mg/L	0.01757	21.23%
Cd 228.802†	4.2	0.00037	mg/L	0.000142	0.00037	mg/L	0.000142	38.06%
Co 228.616†	10.4	0.00042	mg/L	0.000125	0.00042	mg/L	0.000125	29.81%
Cr 267.716†	-0.7	-0.00027	mg/L	0.000058	-0.00027	mg/L	0.000058	21.18%
Cu 327.393†	208.4	0.00119	mg/L	0.000307	0.00119	mg/L	0.000307	25.72%
Fe 239.562†	2.6	0.00685	mg/L	0.002822	0.00685	mg/L	0.002822	41.16%
Mg 279.077†	2.9	0.00482	mg/L	0.003700	0.00482	mg/L	0.003700	76.70%
Mn 257.610†	-168.5	0.00003	mg/L	0.000016	0.00003	mg/L	0.000016	48.31%
Mo 202.031†	0.9	0.00015	mg/L	0.000424	0.00015	mg/L	0.000424	288.70%
Ni 231.604†	27.8	-0.00006	mg/L	0.000251	-0.00006	mg/L	0.000251	433.30%
Pb 220.353†	3.0	-0.00008	mg/L	0.000903	-0.00008	mg/L	0.000903	>999.9%
Sb 206.836†	-6.6	-0.00135	mg/L	0.001114	-0.00135	mg/L	0.001114	82.56%
Se 196.026†	-7.1	-0.00129	mg/L	0.002492	-0.00129	mg/L	0.002492	192.79%
Si 251.611†	-180.1	0.00268	mg/L	0.000198	0.00268	mg/L	0.000198	7.38%
Sn 189.927†	-4.8	0.00086	mg/L	0.000326	0.00086	mg/L	0.000326	38.06%
Ti 334.940†	-16.0	0.00348	mg/L	0.000098	0.00348	mg/L	0.000098	2.81%
Tl 190.801†	4.1	0.00212	mg/L	0.003146	0.00212	mg/L	0.003146	148.60%
V 290.880†	456.8	0.00454	mg/L	0.000724	0.00454	mg/L	0.000724	15.95%
Zn 206.200†	170.4	0.00444	mg/L	0.000056	0.00444	mg/L	0.000056	1.27%
K 766.490†	103.9	0.0439	mg/L	0.00593	0.0439	mg/L	0.00593	13.50%
Na 589.592†	408.2	0.0116	mg/L	0.00609	0.0116	mg/L	0.00609	52.50%
Sr 407.771†	-51.6	-0.00020	mg/L	0.000066	-0.00020	mg/L	0.000066	33.51%
Li 670.784†	62.2	0.00026	mg/L	0.000582	0.00026	mg/L	0.000582	226.18%

Sequence No.: 99
Sample ID: LCSW B7 WG353774-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 118
Date Collected: 1/12/2011 10:54:08 PM
Data Type: Reprocessed on 1/13/2011 10:19:39 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW B7 WG353774-02

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: LCSW B7 WG353774-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4903175.6						9429.87	0.19%
YRADIAL	286045.5						2157.07	0.75%
Ga 417.206	1607061.9						9670.54	0.60%
GaRADIAL	74889.1						1080.46	1.44%
Ag 328.068†	43768.4	0.207	mg/L	0.0023	0.207	mg/L	0.0023	1.11%
Al 396.153†	27840.9	5.13	mg/L	0.028	5.13	mg/L	0.028	0.54%
As 188.979†	290.4	0.198	mg/L	0.0032	0.198	mg/L	0.0032	1.62%
Ba 233.527†	36307.2	0.510	mg/L	0.0029	0.510	mg/L	0.0029	0.58%
Be 234.861†	19281.4	0.0255	mg/L	0.00023	0.0255	mg/L	0.00023	0.90%
B 249.677†	59735.3	1.01	mg/L	0.021	1.01	mg/L	0.021	2.09%
Ca 227.546†	588.2	5.09	mg/L	0.130	5.09	mg/L	0.130	2.56%
Cd 228.802†	617.7	0.0255	mg/L	0.00008	0.0255	mg/L	0.00008	0.33%
Co 228.616†	2319.3	0.1000	mg/L	0.00032	0.1000	mg/L	0.00032	0.32%
Cr 267.716†	32871.4	0.254	mg/L	0.0028	0.254	mg/L	0.0028	1.10%
Cu 327.393†	39754.2	0.253	mg/L	0.0037	0.253	mg/L	0.0037	1.47%
Fe 239.562†	1369.6	1.98	mg/L	0.020	1.98	mg/L	0.020	1.00%
Mg 279.077†	5006.7	4.98	mg/L	0.043	4.98	mg/L	0.043	0.87%

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Pierce Morris

Mn 257.610†	125272.5	0.255 mg/L	0.0020	0.255 mg/L	0.0020	0.77%
Mo 202.031†	8714.4	0.515 mg/L	0.0013	0.515 mg/L	0.0013	0.24%
Ni 231.604†	10947.7	0.258 mg/L	0.0008	0.258 mg/L	0.0008	0.30%
Pb 220.353†	1973.1	0.256 mg/L	0.0020	0.256 mg/L	0.0020	0.77%
Sb 206.836†	1255.8	0.609 mg/L	0.0086	0.609 mg/L	0.0086	1.40%
Se 196.026†	370.8	0.200 mg/L	0.0018	0.200 mg/L	0.0018	0.90%
Si 251.611†	100417.3	2.56 mg/L	0.037	2.56 mg/L	0.037	1.44%
Sn 189.927†	-14.4	-0.00045 mg/L	0.000261	-0.00045 mg/L	0.000261	58.49%
Ti 334.940†	415948.3	0.504 mg/L	0.0011	0.504 mg/L	0.0011	0.22%
Tl 190.801†	522.2	0.260 mg/L	0.0025	0.260 mg/L	0.0025	0.96%
V 290.880†	83413.1	0.502 mg/L	0.0038	0.502 mg/L	0.0038	0.75%
Zn 206.200†	21146.0	0.511 mg/L	0.0025	0.511 mg/L	0.0025	0.50%
K 766.490†	70173.2	26.1 mg/L	0.15	26.1 mg/L	0.15	0.57%
Na 589.592†	388533.8	28.3 mg/L	0.42	28.3 mg/L	0.42	1.49%
Sr 407.771†	880624.3	0.504 mg/L	0.0045	0.504 mg/L	0.0045	0.90%
Li 670.784†	43015.8	0.515 mg/L	0.0048	0.515 mg/L	0.0048	0.93%

Sequence No.: 100 **Autosampler Location: 119**
Sample ID: LCSDUP WG353774-03 **Date Collected: 1/12/2011 11:00:48 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:41 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSDUP WG353774-03

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: LCSDUP WG353774-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4951153.9						40818.51	0.82%
YRADIAL	285844.6						6051.35	2.12%
Ga 417.206	1623086.4						12077.57	0.74%
GaRADIAL	74917.9						133.73	0.18%
Ag 328.068†	43322.9	0.205	mg/L	0.0045	0.205	mg/L	0.0045	2.21%
Al 396.153†	27650.8	5.09	mg/L	0.034	5.09	mg/L	0.034	0.68%
As 188.979†	291.6	0.198	mg/L	0.0024	0.198	mg/L	0.0024	1.21%
Ba 233.527†	35882.6	0.504	mg/L	0.0050	0.504	mg/L	0.0050	0.99%
Be 234.861†	19026.9	0.0252	mg/L	0.00051	0.0252	mg/L	0.00051	2.02%
B 249.677†	58890.7	0.999	mg/L	0.0206	0.999	mg/L	0.0206	2.06%
Ca 227.546†	576.9	5.00	mg/L	0.038	5.00	mg/L	0.038	0.77%
Cd 228.802†	610.1	0.0252	mg/L	0.00026	0.0252	mg/L	0.00026	1.03%
Co 228.616†	2297.4	0.0990	mg/L	0.00109	0.0990	mg/L	0.00109	1.10%
Cr 267.716†	32394.2	0.251	mg/L	0.0024	0.251	mg/L	0.0024	0.95%
Cu 327.393†	39350.8	0.250	mg/L	0.0053	0.250	mg/L	0.0053	2.12%
Fe 239.562†	1354.2	1.96	mg/L	0.028	1.96	mg/L	0.028	1.45%
Mg 279.077†	5015.8	4.99	mg/L	0.073	4.99	mg/L	0.073	1.45%
Mn 257.610†	123621.5	0.252	mg/L	0.0021	0.252	mg/L	0.0021	0.85%
Mo 202.031†	8633.9	0.510	mg/L	0.0036	0.510	mg/L	0.0036	0.70%
Ni 231.604†	10835.7	0.256	mg/L	0.0015	0.256	mg/L	0.0015	0.59%
Pb 220.353†	1953.9	0.254	mg/L	0.0027	0.254	mg/L	0.0027	1.08%
Sb 206.836†	1254.7	0.608	mg/L	0.0057	0.608	mg/L	0.0057	0.94%
Se 196.026†	363.1	0.196	mg/L	0.0021	0.196	mg/L	0.0021	1.08%
Si 251.611†	98830.7	2.52	mg/L	0.055	2.52	mg/L	0.055	2.18%
Sn 189.927†	-13.9	-0.00037	mg/L	0.000471	-0.00037	mg/L	0.000471	126.77%
Ti 334.940†	413310.3	0.500	mg/L	0.0004	0.500	mg/L	0.0004	0.08%
Tl 190.801†	524.0	0.261	mg/L	0.0017	0.261	mg/L	0.0017	0.66%
V 290.880†	82659.2	0.497	mg/L	0.0043	0.497	mg/L	0.0043	0.86%
Zn 206.200†	20752.7	0.502	mg/L	0.0027	0.502	mg/L	0.0027	0.54%
K 766.490†	69362.5	25.8	mg/L	0.10	25.8	mg/L	0.10	0.39%
Na 589.592†	385182.6	28.0	mg/L	0.43	28.0	mg/L	0.43	1.54%
Sr 407.771†	875459.3	0.501	mg/L	0.0050	0.501	mg/L	0.0050	1.00%
Li 670.784†	42584.8	0.510	mg/L	0.0047	0.510	mg/L	0.0047	0.91%

Sequence No.: 101 **Autosampler Location: 120**
Sample ID: L1101018002 **Date Collected: 1/12/2011 11:07:29 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:42 AM**
Logged In Analyst (Original) : peicp2

Approved: January 13, 2011
Pierce Morris

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018002

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101018002

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4845223.6						59388.32	1.23%
YRADIAL	290939.0						2182.07	0.75%
Ga 417.206	1627805.7						49524.46	3.04%
GaRADIAL	75434.1						866.56	1.15%
Ag 328.068†	436.0	0.00232	mg/L	0.000905	0.00232	mg/L	0.000905	38.93%
Al 396.153†	64947.8	12.0	mg/L	0.04	12.0	mg/L	0.04	0.33%
As 188.979†	49.3	0.0352	mg/L	0.00372	0.0352	mg/L	0.00372	10.55%
Ba 233.527†	8502.1	0.118	mg/L	0.0016	0.118	mg/L	0.0016	1.37%
Be 234.861†	2390.7	0.00093	mg/L	0.000039	0.00093	mg/L	0.000039	4.15%
B 249.677†	6513.5	0.142	mg/L	0.0060	0.142	mg/L	0.0060	4.25%
Ca 227.546†	3884.1	31.7	mg/L	0.95	31.7	mg/L	0.95	3.00%
Cd 228.802†	51.9	0.00217	mg/L	0.000301	0.00217	mg/L	0.000301	13.88%
Co 228.616†	102.7	0.00376	mg/L	0.000237	0.00376	mg/L	0.000237	6.31%
Cr 267.716†	1400.4	0.0103	mg/L	0.00020	0.0103	mg/L	0.00020	1.91%
Cu 327.393†	38716.7	0.246	mg/L	0.0099	0.246	mg/L	0.0099	4.01%
Fe 239.562†	6720.7	9.71	mg/L	0.050	9.71	mg/L	0.050	0.51%
Mg 279.077†	9574.9	9.51	mg/L	0.046	9.51	mg/L	0.046	0.48%
Mn 257.610†	586390.2	1.19	mg/L	0.005	1.19	mg/L	0.005	0.42%
Mo 202.031†	24.7	0.00228	mg/L	0.000164	0.00228	mg/L	0.000164	7.18%
Ni 231.604†	275.6	0.00580	mg/L	0.000295	0.00580	mg/L	0.000295	5.08%
Pb 220.353†	1683.4	0.218	mg/L	0.0026	0.218	mg/L	0.0026	1.17%
Sb 206.836†	21.6	0.0120	mg/L	0.00161	0.0120	mg/L	0.00161	13.47%
Se 196.026†	-37.2	-0.00944	mg/L	0.002860	-0.00944	mg/L	0.002860	30.30%
Si 251.611†	1063085.3	27.2	mg/L	0.50	27.2	mg/L	0.50	1.85%
Sn 189.927†	-44.0	-0.00446	mg/L	0.000359	-0.00446	mg/L	0.000359	8.04%
Ti 334.940†	150882.2	0.185	mg/L	0.0064	0.185	mg/L	0.0064	3.45%
Tl 190.801†	50.3	0.0257	mg/L	0.00350	0.0257	mg/L	0.00350	13.60%
V 290.880†	2785.8	0.0186	mg/L	0.00155	0.0186	mg/L	0.00155	8.32%
Zn 206.200†	13307.4	0.321	mg/L	0.0029	0.321	mg/L	0.0029	0.89%
K 766.490†	10859.8	4.00	mg/L	0.043	4.00	mg/L	0.043	1.07%
Na 589.592†	835947.3	60.6	mg/L	0.30	60.6	mg/L	0.30	0.49%
Sr 407.771†	68618.9	0.0382	mg/L	0.00009	0.0382	mg/L	0.00009	0.23%
Li 670.784†	1306.9	0.0152	mg/L	0.00088	0.0152	mg/L	0.00088	5.82%

Sequence No.: 102 **Autosampler Location: 121**
Sample ID: L1101018002PS WG353838-01 **Date Collected: 1/12/2011 11:13:14 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:43 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101018002PS WG353838-01

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1101018002PS WG353838-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4815280.7						45189.67	0.94%
YRADIAL	288392.6						8458.08	2.93%
Ga 417.206	1583718.3						14355.85	0.91%
GaRADIAL	74766.2						1427.78	1.91%
Ag 328.068†	43664.7	0.207	mg/L	0.0024	0.207	mg/L	0.0024	1.18%
Al 396.153†	84507.7	15.6	mg/L	0.01	15.6	mg/L	0.01	0.06%
As 188.979†	336.7	0.229	mg/L	0.0052	0.229	mg/L	0.0052	2.25%
Ba 233.527†	43200.8	0.607	mg/L	0.0118	0.607	mg/L	0.0118	1.94%
Be 234.861†	21404.6	0.0263	mg/L	0.00025	0.0263	mg/L	0.00025	0.95%
B 249.677†	63701.5	1.11	mg/L	0.015	1.11	mg/L	0.015	1.34%

Approved: January 13, 2011
Pierce Morris

Ca 227.546†	4140.6	34.0 mg/L	0.38	34.0 mg/L	0.38	1.13%
Cd 228.802†	666.9	0.0273 mg/L	0.00028	0.0273 mg/L	0.00028	1.01%
Co 228.616†	2347.6	0.101 mg/L	0.0014	0.101 mg/L	0.0014	1.43%
Cr 267.716†	33480.7	0.259 mg/L	0.0045	0.259 mg/L	0.0045	1.74%
Cu 327.393†	74672.0	0.475 mg/L	0.0047	0.475 mg/L	0.0047	0.99%
Fe 239.562†	7226.7	10.4 mg/L	0.32	10.4 mg/L	0.32	3.03%
Mg 279.077†	13282.1	13.2 mg/L	0.44	13.2 mg/L	0.44	3.36%
Mn 257.610†	639625.2	1.30 mg/L	0.006	1.30 mg/L	0.006	0.46%
Mo 202.031†	8598.5	0.509 mg/L	0.0076	0.509 mg/L	0.0076	1.50%
Ni 231.604†	10858.7	0.256 mg/L	0.0038	0.256 mg/L	0.0038	1.50%
Pb 220.353†	3417.3	0.444 mg/L	0.0069	0.444 mg/L	0.0069	1.54%
Sb 206.836†	1268.9	0.615 mg/L	0.0083	0.615 mg/L	0.0083	1.35%
Se 196.026†	329.0	0.185 mg/L	0.0067	0.185 mg/L	0.0067	3.63%
Si 251.611†	1075249.1	27.5 mg/L	0.41	27.5 mg/L	0.41	1.48%
Sn 189.927†	-43.3	-0.00436 mg/L	0.001692	-0.00436 mg/L	0.001692	38.77%
Ti 334.940†	545855.2	0.660 mg/L	0.0058	0.660 mg/L	0.0058	0.88%
Tl 190.801†	561.6	0.280 mg/L	0.0002	0.280 mg/L	0.0002	0.09%
V 290.880†	84996.9	0.511 mg/L	0.0088	0.511 mg/L	0.0088	1.72%
Zn 206.200†	32243.4	0.778 mg/L	0.0116	0.778 mg/L	0.0116	1.49%
K 766.490†	76225.3	28.3 mg/L	0.84	28.3 mg/L	0.84	2.98%
Na 589.592†	1118210.0	81.0 mg/L	0.54	81.0 mg/L	0.54	0.67%
Sr 407.771†	911632.3	0.521 mg/L	0.0021	0.521 mg/L	0.0021	0.40%
Li 670.784†	42972.7	0.514 mg/L	0.0116	0.514 mg/L	0.0116	2.25%

Sequence No.: 103
Sample ID: L1101018002DL WG353838-02
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 122
Date Collected: 1/12/2011 11:18:58 PM
Data Type: Reprocessed on 1/13/2011 10:19:44 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101018002DL WG353838-02

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101018002DL WG353838-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4927418.9						46292.32	0.94%
YRADIAL	291083.4						4708.88	1.62%
Ga 417.206	1682071.8						15034.68	0.89%
GaRADIAL	77944.6						1980.31	2.54%
Ag 328.068†	247.5	0.00111	mg/L	0.000744	0.00111	mg/L	0.000744	67.34%
Al 396.153†	15381.7	2.83	mg/L	0.011	2.83	mg/L	0.011	0.39%
As 188.979†	12.2	0.0102	mg/L	0.00038	0.0102	mg/L	0.00038	3.77%
Ba 233.527†	1714.9	0.0233	mg/L	0.00165	0.0233	mg/L	0.00165	7.08%
Be 234.861†	576.1	0.00026	mg/L	0.000114	0.00026	mg/L	0.000114	43.48%
B 249.677†	2213.0	0.0449	mg/L	0.00295	0.0449	mg/L	0.00295	6.57%
Ca 227.546†	743.7	6.08	mg/L	0.431	6.08	mg/L	0.431	7.09%
Cd 228.802†	12.6	0.00068	mg/L	0.000044	0.00068	mg/L	0.000044	6.49%
Co 228.616†	22.7	0.00081	mg/L	0.000348	0.00081	mg/L	0.000348	43.06%
Cr 267.716†	266.6	0.00174	mg/L	0.000167	0.00174	mg/L	0.000167	9.56%
Cu 327.393†	7803.1	0.0496	mg/L	0.00429	0.0496	mg/L	0.00429	8.65%
Fe 239.562†	1581.5	2.29	mg/L	0.068	2.29	mg/L	0.068	2.98%
Mg 279.077†	2274.7	2.26	mg/L	0.057	2.26	mg/L	0.057	2.51%
Mn 257.610†	121529.7	0.247	mg/L	0.0230	0.247	mg/L	0.0230	9.34%
Mo 202.031†	5.4	0.00058	mg/L	0.000346	0.00058	mg/L	0.000346	59.66%
Ni 231.604†	69.5	0.00092	mg/L	0.000197	0.00092	mg/L	0.000197	21.34%
Pb 220.353†	336.4	0.0432	mg/L	0.00331	0.0432	mg/L	0.00331	7.67%
Sb 206.836†	0.4	0.00196	mg/L	0.000499	0.00196	mg/L	0.000499	25.51%
Se 196.026†	-13.3	-0.00305	mg/L	0.003543	-0.00305	mg/L	0.003543	116.17%
Si 251.611†	216903.3	5.55	mg/L	0.478	5.55	mg/L	0.478	8.61%
Sn 189.927†	-16.8	-0.00077	mg/L	0.000627	-0.00077	mg/L	0.000627	81.28%
Ti 334.940†	30365.1	0.0401	mg/L	0.00357	0.0401	mg/L	0.00357	8.91%
Tl 190.801†	22.1	0.0112	mg/L	0.00123	0.0112	mg/L	0.00123	11.04%
V 290.880†	765.7	0.00642	mg/L	0.002238	0.00642	mg/L	0.002238	34.86%
Zn 206.200†	2720.9	0.0659	mg/L	0.00433	0.0659	mg/L	0.00433	6.58%
K 766.490†	2442.7	0.902	mg/L	0.0086	0.902	mg/L	0.0086	0.95%
Na 589.592†	194033.6	14.1	mg/L	0.19	14.1	mg/L	0.19	1.33%
Sr 407.771†	16629.8	0.00914	mg/L	0.000189	0.00914	mg/L	0.000189	2.07%

Approved: January 13, 2011
Pierce Morris

Li 670.784†	583.4	0.00650 mg/L	0.001641	0.00650 mg/L	0.001641	25.24%

Sequence No.: 104 **Autosampler Location: 123**
Sample ID: L1101019101 **Date Collected: 1/12/2011 11:25:38 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:56 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101019101

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101019101

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4777290.6						48528.15	1.02%
YRADIAL	281253.3						1671.78	0.59%
Ga 417.206	1670929.9						27593.72	1.65%
GaRADIAL	75922.3						1140.22	1.50%
Ag 328.068†	3143.7	0.0146	mg/L	0.00021	0.0146	mg/L	0.00021	1.45%
Al 396.153†	3345.0	0.611	mg/L	0.0061	0.611	mg/L	0.0061	0.99%
As 188.979†	41.8	0.0252	mg/L	0.00504	0.0252	mg/L	0.00504	20.02%
Ba 233.527†	4378.4	0.0607	mg/L	0.00078	0.0607	mg/L	0.00078	1.28%
Be 234.861†	59.3	0.00013	mg/L	0.000031	0.00013	mg/L	0.000031	24.68%
B 249.677†	4106.2	0.0691	mg/L	0.00185	0.0691	mg/L	0.00185	2.67%
Ca 227.546†	30410.6	248	mg/L	3.0	248	mg/L	3.0	1.20%
Cd 228.802†	2.5	0.00012	mg/L	0.000183	0.00012	mg/L	0.000183	154.74%
Co 228.616†	6.8	0.00025	mg/L	0.000231	0.00025	mg/L	0.000231	91.78%
Cr 267.716†	510.8	0.00368	mg/L	0.000052	0.00368	mg/L	0.000052	1.43%
Cu 327.393†	47928.3	0.304	mg/L	0.0040	0.304	mg/L	0.0040	1.33%
Fe 239.562†	40.5	0.0616	mg/L	0.00224	0.0616	mg/L	0.00224	3.64%
Mg 279.077†	47.9	0.0495	mg/L	0.00737	0.0495	mg/L	0.00737	14.87%
Mn 257.610†	427.5	0.00266	mg/L	0.000030	0.00266	mg/L	0.000030	1.11%
Mo 202.031†	267.9	0.0159	mg/L	0.00077	0.0159	mg/L	0.00077	4.80%
Ni 231.604†	163.1	0.00311	mg/L	0.000317	0.00311	mg/L	0.000317	10.22%
Pb 220.353†	-63.6	0.00316	mg/L	0.000291	0.00316	mg/L	0.000291	9.19%
Sb 206.836†	66.0	0.0334	mg/L	0.00302	0.0334	mg/L	0.00302	9.05%
Se 196.026†	-73.2	0.0256	mg/L	0.00098	0.0256	mg/L	0.00098	3.82%
Si 251.611†	201696.4	5.16	mg/L	0.062	5.16	mg/L	0.062	1.21%
Sn 189.927†	-111.7	-0.0136	mg/L	0.00043	-0.0136	mg/L	0.00043	3.13%
Ti 334.940†	-3984.6	0.00119	mg/L	0.000044	0.00119	mg/L	0.000044	3.75%
Tl 190.801†	139.8	0.0459	mg/L	0.00347	0.0459	mg/L	0.00347	7.57%
V 290.880†	2570.6	0.0172	mg/L	0.00057	0.0172	mg/L	0.00057	3.33%
Zn 206.200†	177.4	0.00469	mg/L	0.000109	0.00469	mg/L	0.000109	2.32%
K 766.490†	7419.4	2.76	mg/L	0.064	2.76	mg/L	0.064	2.32%
Na 589.592†	118942.0	8.66	mg/L	0.164	8.66	mg/L	0.164	1.89%
Sr 407.771†	822335.6	0.470	mg/L	0.0012	0.470	mg/L	0.0012	0.26%
Li 670.784†	-82.0	-0.00147	mg/L	0.000624	-0.00147	mg/L	0.000624	42.47%

Sequence No.: 105 **Autosampler Location: 124**
Sample ID: L1101022310 **Date Collected: 1/12/2011 11:32:22 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:57 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022310

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022310

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5040404.2						34904.61	0.69%
YRADIAL	287802.6						4327.61	1.50%
Ga 417.206	1676605.0						20603.23	1.23%

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GaRADIAL	76101.6					614.75	0.81%
Ag 328.068†	322.7	0.00135	mg/L	0.000916	0.00135 mg/L	0.000916	67.60%
Al 396.153†	66.0	0.00631	mg/L	0.003999	0.00631 mg/L	0.003999	63.38%
As 188.979†	1.6	0.00294	mg/L	0.001851	0.00294 mg/L	0.001851	62.99%
Ba 233.527†	22.7	-0.00048	mg/L	0.000013	-0.00048 mg/L	0.000013	2.63%
Be 234.861†	9.3	0.00005	mg/L	0.000018	0.00005 mg/L	0.000018	38.11%
B 249.677†	923.6	0.0158	mg/L	0.00088	0.0158 mg/L	0.00088	5.60%
Ca 227.546†	-5.8	-0.0345	mg/L	0.02549	-0.0345 mg/L	0.02549	73.92%
Cd 228.802†	4.0	0.00036	mg/L	0.000174	0.00036 mg/L	0.000174	48.07%
Co 228.616†	5.6	0.00021	mg/L	0.000244	0.00021 mg/L	0.000244	116.87%
Cr 267.716†	26.1	-0.00006	mg/L	0.000085	-0.00006 mg/L	0.000085	132.93%
Cu 327.393†	553.9	0.00339	mg/L	0.000753	0.00339 mg/L	0.000753	22.24%
Fe 239.562†	10.9	0.0188	mg/L	0.00146	0.0188 mg/L	0.00146	7.73%
Mg 279.077†	-0.1	0.00186	mg/L	0.007426	0.00186 mg/L	0.007426	400.13%
Mn 257.610†	-62.3	0.00025	mg/L	0.000018	0.00025 mg/L	0.000018	7.03%
Mo 202.031†	-4.6	-0.00018	mg/L	0.000321	-0.00018 mg/L	0.000321	181.18%
Ni 231.604†	43.9	0.00032	mg/L	0.000225	0.00032 mg/L	0.000225	70.23%
Pb 220.353†	-6.7	-0.00133	mg/L	0.000716	-0.00133 mg/L	0.000716	53.94%
Sb 206.836†	-5.8	-0.00099	mg/L	0.001208	-0.00099 mg/L	0.001208	121.60%
Se 196.026†	-3.0	0.00089	mg/L	0.002712	0.00089 mg/L	0.002712	303.14%
Si 251.611†	66.2	0.00898	mg/L	0.000142	0.00898 mg/L	0.000142	1.58%
Sn 189.927†	-0.9	0.00138	mg/L	0.000550	0.00138 mg/L	0.000550	39.74%
Ti 334.940†	166.3	0.00370	mg/L	0.000169	0.00370 mg/L	0.000169	4.57%
Tl 190.801†	8.3	0.00418	mg/L	0.000847	0.00418 mg/L	0.000847	20.26%
V 290.880†	441.1	0.00444	mg/L	0.000804	0.00444 mg/L	0.000804	18.10%
Zn 206.200†	65.4	0.00191	mg/L	0.000027	0.00191 mg/L	0.000027	1.40%
K 766.490†	41.3	0.0205	mg/L	0.02022	0.0205 mg/L	0.02022	98.45%
Na 589.592†	620.4	0.0271	mg/L	0.00702	0.0271 mg/L	0.00702	25.92%
Sr 407.771†	198.9	-0.00005	mg/L	0.000084	-0.00005 mg/L	0.000084	153.22%
Li 670.784†	57.1	0.00020	mg/L	0.000366	0.00020 mg/L	0.000366	185.49%

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Sequence No.: 106 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 1/12/2011 11:39:03 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:19:58 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	**Back Pressure**	**Flow**
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	4695943.4						37801.22	0.80%
YRADIAL	279840.0						4688.29	1.68%
Ga 417.206	1555328.9						12128.61	0.78%
GaRADIAL	73776.6						1653.76	2.24%
Ag 328.068†	86695.2	0.410	mg/L	0.0025	0.410	mg/L	0.0025	0.61%
QC value within limits for Ag 328.068 Recovery = 102.51%								
Al 396.153†	54682.1	10.1	mg/L	0.04	10.1	mg/L	0.04	0.36%
QC value within limits for Al 396.153 Recovery = 100.76%								
As 188.979†	601.4	0.407	mg/L	0.0030	0.407	mg/L	0.0030	0.75%
QC value within limits for As 188.979 Recovery = 101.84%								
Ba 233.527†	74357.8	1.05	mg/L	0.013	1.05	mg/L	0.013	1.27%
QC value within limits for Ba 233.527 Recovery = 104.60%								
Be 234.861†	39362.5	0.0520	mg/L	0.00036	0.0520	mg/L	0.00036	0.69%
QC value within limits for Be 234.861 Recovery = 104.09%								
B 249.677†	30492.8	0.522	mg/L	0.0050	0.522	mg/L	0.0050	0.95%
QC value within limits for B 249.677 Recovery = 104.33%								
Ca 227.546†	1195.1	10.3	mg/L	0.08	10.3	mg/L	0.08	0.73%
QC value within limits for Ca 227.546 Recovery = 103.29%								
Cd 228.802†	1249.0	0.0513	mg/L	0.00057	0.0513	mg/L	0.00057	1.12%
QC value within limits for Cd 228.802 Recovery = 102.70%								
Co 228.616†	4744.0	0.205	mg/L	0.0011	0.205	mg/L	0.0011	0.53%
QC value within limits for Co 228.616 Recovery = 102.28%								
Cr 267.716†	67559.4	0.523	mg/L	0.0060	0.523	mg/L	0.0060	1.14%
QC value within limits for Cr 267.716 Recovery = 104.66%								
Cu 327.393†	80368.3	0.512	mg/L	0.0060	0.512	mg/L	0.0060	1.16%

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   QC value within limits for Cu 327.393  Recovery = 102.32%
Fe 239.562†            2724.6       3.94 mg/L        0.067       3.94 mg/L        0.067   1.70%
   QC value within limits for Fe 239.562  Recovery = 98.40%
Mg 279.077†            9907.9       9.85 mg/L        0.175       9.85 mg/L        0.175   1.78%
   QC value within limits for Mg 279.077  Recovery = 98.46%
Mn 257.610†          256942.7      0.523 mg/L       0.0074      0.523 mg/L       0.0074   1.41%
   QC value within limits for Mn 257.610  Recovery = 104.61%
Mo 202.031†           17781.9       1.05 mg/L        0.013       1.05 mg/L        0.013   1.26%
   QC value within limits for Mo 202.031  Recovery = 105.13%
Ni 231.604†           22229.2      0.526 mg/L       0.0037      0.526 mg/L       0.0037   0.71%
   QC value within limits for Ni 231.604  Recovery = 105.10%
Pb 220.353†            4053.4      0.527 mg/L       0.0044      0.527 mg/L       0.0044   0.84%
   QC value within limits for Pb 220.353  Recovery = 105.36%
Sb 206.836†            2530.0       1.24 mg/L        0.010       1.24 mg/L        0.010   0.84%
   QC value within limits for Sb 206.836  Recovery = 103.01%
Se 196.026†             756.8      0.405 mg/L       0.0039      0.405 mg/L       0.0039   0.97%
   QC value within limits for Se 196.026  Recovery = 101.33%
Si 251.611†          198192.2       5.05 mg/L        0.039       5.05 mg/L        0.039   0.78%
   QC value within limits for Si 251.611  Recovery = 101.10%
Sn 189.927†            7624.7       1.04 mg/L        0.006       1.04 mg/L        0.006   0.61%
   QC value within limits for Sn 189.927  Recovery = 103.60%
Ti 334.940†          841905.0       1.02 mg/L        0.005       1.02 mg/L        0.005   0.48%
   QC value within limits for Ti 334.940  Recovery = 101.57%
Tl 190.801†            1070.6      0.533 mg/L       0.0064      0.533 mg/L       0.0064   1.21%
   QC value within limits for Tl 190.801  Recovery = 106.67%
V 290.880†           171843.8       1.03 mg/L        0.013       1.03 mg/L        0.013   1.30%
   QC value within limits for V 290.880  Recovery = 103.19%
Zn 206.200†           43749.5       1.06 mg/L        0.006       1.06 mg/L        0.006   0.61%
   QC value within limits for Zn 206.200  Recovery = 105.70%
K 766.490†           137608.7       51.1 mg/L         0.16       51.1 mg/L         0.16   0.31%
   QC value within limits for K 766.490  Recovery = 102.29%
Na 589.592†          712023.8       51.7 mg/L         0.76       51.7 mg/L         0.76   1.48%
   QC value within limits for Na 589.592  Recovery = 103.40%
Sr 407.771†         1735419.8      0.993 mg/L       0.0088      0.993 mg/L       0.0088   0.88%
   QC value within limits for Sr 407.771  Recovery = 99.27%
Li 670.784†           84671.5       1.01 mg/L        0.011       1.01 mg/L        0.011   1.12%
   QC value within limits for Li 670.784  Recovery = 101.41%
All analyte(s) passed QC.

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Sequence No.: 107                                  Autosampler Location: 5
Sample ID: CCB                                     Date Collected: 1/12/2011 11:45:43 PM
Analyst: PDM                                       Data Type: Reprocessed on 1/13/2011 10:19:59 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                 Initial Sample Vol:
Dilution:                                          Sample Prep Vol:

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Nebulizer Parameters: CCB
Analyte                 Back Pressure    Flow
All                     178.0 kPa        0.50 L/min

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Mean Data: CCB
                   Mean Corrected          Calib.                          Sample
Analyte               Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029           4940579.5                                                      62810.58   1.27%
YRADIAL              284491.6                                                       5947.15   2.09%
Ga 417.206          1635742.0                                                      24997.35   1.53%
GaRADIAL              75572.9                                                        744.60   0.99%
Ag 328.068†             305.6     0.00127 mg/L      0.000767     0.00127 mg/L      0.000767  60.26%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              32.4     0.00009 mg/L      0.011133     0.00009 mg/L      0.011133 >999.9%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               0.4     0.00210 mg/L      0.001349     0.00210 mg/L      0.001349  64.32%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              17.0    -0.00056 mg/L      0.000082    -0.00056 mg/L      0.000082  14.61%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              39.4     0.00009 mg/L      0.000013     0.00009 mg/L      0.000013  14.05%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              806.2      0.0137 mg/L       0.00093      0.0137 mg/L       0.00093   6.81%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†              -8.9     -0.0602 mg/L       0.02044     -0.0602 mg/L       0.02044  33.94%
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   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†                4.9     0.00041 mg/L      0.000011     0.00041 mg/L      0.000011   2.67%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†                8.1     0.00031 mg/L      0.000168     0.00031 mg/L      0.000168  53.51%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -30.2    -0.00050 mg/L      0.000070    -0.00050 mg/L      0.000070  14.08%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              105.0     0.00054 mg/L      0.000045     0.00054 mg/L      0.000045   8.31%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†                0.4     0.00364 mg/L      0.001419     0.00364 mg/L      0.001419  38.93%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†               -1.6     0.00032 mg/L      0.002366     0.00032 mg/L      0.002366 742.78%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -324.8    -0.00028 mg/L      0.000021    -0.00028 mg/L      0.000021   7.42%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                0.9     0.00015 mg/L      0.000169     0.00015 mg/L      0.000169 114.09%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               29.2    -0.00002 mg/L      0.000237    -0.00002 mg/L      0.000237 979.43%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               -3.6    -0.00093 mg/L      0.001028    -0.00093 mg/L      0.001028 110.77%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -4.3    -0.00026 mg/L      0.000684    -0.00026 mg/L      0.000684 267.61%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -5.3    -0.00035 mg/L      0.002165    -0.00035 mg/L      0.002165 612.87%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             -197.9     0.00223 mg/L      0.000179     0.00223 mg/L      0.000179   8.03%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                4.7     0.00215 mg/L      0.000685     0.00215 mg/L      0.000685  31.86%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              130.5     0.00366 mg/L      0.000062     0.00366 mg/L      0.000062   1.69%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.8     0.00053 mg/L      0.000964     0.00053 mg/L      0.000964 181.71%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               336.7     0.00382 mg/L      0.001275     0.00382 mg/L      0.001275  33.40%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                4.8     0.00044 mg/L      0.000121     0.00044 mg/L      0.000121  27.17%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                57.7      0.0267 mg/L       0.03232      0.0267 mg/L       0.03232 121.09%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              469.1      0.0160 mg/L       0.00419      0.0160 mg/L       0.00419  26.15%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†               11.6    -0.00016 mg/L      0.000057    -0.00016 mg/L      0.000057  35.38%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               76.9     0.00043 mg/L      0.001774     0.00043 mg/L      0.001774 408.30%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 108 **Autosampler Location: 125**
Sample ID: L1101022311 **Date Collected: 1/12/2011 11:52:22 PM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:00 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022311

Analyte	**Back Pressure**	**Flow**
All	178.0 kPa	0.50 L/min

Mean Data: L1101022311

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**Units**	**Std.Dev.**	**RSD**
Y 371.029	5098289.0						10260.54	0.20%
YRADIAL	289704.5						5001.88	1.73%
Ga 417.206	1694021.7						20621.18	1.22%
GaRADIAL	76603.7						544.24	0.71%
Ag 328.068†	195.0	0.00075	mg/L	0.000206	0.00075	mg/L	0.000206	27.32%
Al 396.153†	68.0	0.00667	mg/L	0.008253	0.00667	mg/L	0.008253	123.77%
As 188.979†	1.5	0.00288	mg/L	0.002747	0.00288	mg/L	0.002747	95.42%
Ba 233.527†	27.6	-0.00041	mg/L	0.000065	-0.00041	mg/L	0.000065	16.02%
Be 234.861†	25.3	0.00007	mg/L	0.000024	0.00007	mg/L	0.000024	34.41%

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B 249.677†	727.7	0.0124	mg/L	0.00101	0.0124	mg/L	0.00101	8.16%
Ca 227.546†	0.8	0.0189	mg/L	0.01037	0.0189	mg/L	0.01037	54.88%
Cd 228.802†	6.4	0.00046	mg/L	0.000153	0.00046	mg/L	0.000153	33.21%
Co 228.616†	8.1	0.00032	mg/L	0.000252	0.00032	mg/L	0.000252	79.14%
Cr 267.716†	22.7	-0.00009	mg/L	0.000069	-0.00009	mg/L	0.000069	76.10%
Cu 327.393†	644.3	0.00396	mg/L	0.000200	0.00396	mg/L	0.000200	5.05%
Fe 239.562†	6.3	0.0122	mg/L	0.00076	0.0122	mg/L	0.00076	6.28%
Mg 279.077†	1.0	0.00290	mg/L	0.005529	0.00290	mg/L	0.005529	190.75%
Mn 257.610†	-28.5	0.00032	mg/L	0.000007	0.00032	mg/L	0.000007	2.22%
Mo 202.031†	1.3	0.00017	mg/L	0.000098	0.00017	mg/L	0.000098	56.70%
Ni 231.604†	34.9	0.00011	mg/L	0.000278	0.00011	mg/L	0.000278	252.48%
Pb 220.353†	-3.9	-0.00097	mg/L	0.000603	-0.00097	mg/L	0.000603	62.29%
Sb 206.836†	-10.9	-0.00342	mg/L	0.000507	-0.00342	mg/L	0.000507	14.83%
Se 196.026†	-5.9	-0.00061	mg/L	0.002326	-0.00061	mg/L	0.002326	378.42%
Si 251.611†	271.8	0.0142	mg/L	0.00051	0.0142	mg/L	0.00051	3.56%
Sn 189.927†	-0.9	0.00138	mg/L	0.000260	0.00138	mg/L	0.000260	18.79%
Ti 334.940†	252.9	0.00380	mg/L	0.000214	0.00380	mg/L	0.000214	5.63%
Tl 190.801†	6.2	0.00312	mg/L	0.002735	0.00312	mg/L	0.002735	87.59%
V 290.880†	531.9	0.00499	mg/L	0.000789	0.00499	mg/L	0.000789	15.81%
Zn 206.200†	99.1	0.00272	mg/L	0.000048	0.00272	mg/L	0.000048	1.78%
K 766.490†	110.3	0.0463	mg/L	0.02735	0.0463	mg/L	0.02735	59.10%
Na 589.592†	668.0	0.0306	mg/L	0.00910	0.0306	mg/L	0.00910	29.76%
Sr 407.771†	320.6	0.00002	mg/L	0.000049	0.00002	mg/L	0.000049	314.29%
Li 670.784†	8.3	-0.00039	mg/L	0.001924	-0.00039	mg/L	0.001924	496.97%

Sequence No.: 109
Sample ID: L1101022312
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 126
Date Collected: 1/12/2011 11:59:02 PM
Data Type: Reprocessed on 1/13/2011 10:20:01 AM

Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101022312

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101022312

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5077539.2						45692.91	0.90%
YRADIAL	285759.9						3744.84	1.31%
Ga 417.206	1693854.1						13440.49	0.79%
GaRADIAL	75523.5						1895.72	2.51%
Ag 328.068†	266.7	0.00109	mg/L	0.000168	0.00109	mg/L	0.000168	15.38%
Al 396.153†	47.6	0.00291	mg/L	0.011921	0.00291	mg/L	0.011921	409.87%
As 188.979†	0.1	0.00192	mg/L	0.002487	0.00192	mg/L	0.002487	129.20%
Ba 233.527†	22.2	-0.00048	mg/L	0.000034	-0.00048	mg/L	0.000034	6.95%
Be 234.861†	23.5	0.00007	mg/L	0.000026	0.00007	mg/L	0.000026	38.77%
B 249.677†	524.1	0.00898	mg/L	0.001270	0.00898	mg/L	0.001270	14.15%
Ca 227.546†	-5.3	-0.0308	mg/L	0.03315	-0.0308	mg/L	0.03315	107.59%
Cd 228.802†	4.1	0.00037	mg/L	0.000217	0.00037	mg/L	0.000217	58.66%
Co 228.616†	6.4	0.00024	mg/L	0.000204	0.00024	mg/L	0.000204	83.53%
Cr 267.716†	61.0	0.00021	mg/L	0.000080	0.00021	mg/L	0.000080	38.72%
Cu 327.393†	546.8	0.00334	mg/L	0.000652	0.00334	mg/L	0.000652	19.51%
Fe 239.562†	5.9	0.0116	mg/L	0.00257	0.0116	mg/L	0.00257	22.10%
Mg 279.077†	-0.4	0.00154	mg/L	0.004681	0.00154	mg/L	0.004681	303.02%
Mn 257.610†	-89.8	0.00019	mg/L	0.000014	0.00019	mg/L	0.000014	7.26%
Mo 202.031†	-1.4	0.00001	mg/L	0.000475	0.00001	mg/L	0.000475	>999.9%
Ni 231.604†	40.8	0.00025	mg/L	0.000198	0.00025	mg/L	0.000198	79.52%
Pb 220.353†	-4.6	-0.00106	mg/L	0.000381	-0.00106	mg/L	0.000381	35.93%
Sb 206.836†	-7.3	-0.00172	mg/L	0.000455	-0.00172	mg/L	0.000455	26.42%
Se 196.026†	-3.5	0.00066	mg/L	0.001950	0.00066	mg/L	0.001950	297.63%
Si 251.611†	-119.5	0.00423	mg/L	0.000236	0.00423	mg/L	0.000236	5.58%
Sn 189.927†	-2.8	0.00114	mg/L	0.000227	0.00114	mg/L	0.000227	19.94%
Ti 334.940†	77.0	0.00359	mg/L	0.000116	0.00359	mg/L	0.000116	3.23%
Tl 190.801†	4.3	0.00224	mg/L	0.001129	0.00224	mg/L	0.001129	50.44%
V 290.880†	478.4	0.00467	mg/L	0.000278	0.00467	mg/L	0.000278	5.95%
Zn 206.200†	71.7	0.00206	mg/L	0.000148	0.00206	mg/L	0.000148	7.16%
K 766.490†	59.6	0.0274	mg/L	0.01566	0.0274	mg/L	0.01566	57.23%
Na 589.592†	763.8	0.0376	mg/L	0.01402	0.0376	mg/L	0.01402	37.32%

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Sr 407.771†	34.8	-0.00015	mg/L	0.000023	-0.00015	mg/L	0.000023	15.27%
Li 670.784†	205.3	0.00197	mg/L	0.000875	0.00197	mg/L	0.000875	44.34%

Sequence No.: 110 **Autosampler Location: 127**
Sample ID: L1101022313 **Date Collected: 1/13/2011 12:05:42 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:12 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022313

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1101022313

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5060258.3						103601.48	2.05%
YRADIAL	285473.3						6547.64	2.29%
Ga 417.206	1675056.2						41895.12	2.50%
GaRADIAL	75458.6						558.83	0.74%
Ag 328.068†	171.7	0.00064	mg/L	0.000552	0.00064	mg/L	0.000552	85.79%
Al 396.153†	33.5	0.00029	mg/L	0.004295	0.00029	mg/L	0.004295	>999.9%
As 188.979†	0.8	0.00241	mg/L	0.004014	0.00241	mg/L	0.004014	166.78%
Ba 233.527†	51.3	-0.00007	mg/L	0.000077	-0.00007	mg/L	0.000077	103.76%
Be 234.861†	14.4	0.00005	mg/L	0.000030	0.00005	mg/L	0.000030	55.18%
B 249.677†	500.7	0.00858	mg/L	0.000623	0.00858	mg/L	0.000623	7.26%
Ca 227.546†	-0.8	0.00600	mg/L	0.043758	0.00600	mg/L	0.043758	729.59%
Cd 228.802†	3.2	0.00033	mg/L	0.000105	0.00033	mg/L	0.000105	31.62%
Co 228.616†	12.5	0.00051	mg/L	0.000169	0.00051	mg/L	0.000169	33.33%
Cr 267.716†	28.9	-0.00004	mg/L	0.000040	-0.00004	mg/L	0.000040	94.97%
Cu 327.393†	426.3	0.00258	mg/L	0.000752	0.00258	mg/L	0.000752	29.19%
Fe 239.562†	6.1	0.0120	mg/L	0.00084	0.0120	mg/L	0.00084	7.05%
Mg 279.077†	3.0	0.00485	mg/L	0.005977	0.00485	mg/L	0.005977	123.13%
Mn 257.610†	8.4	0.00039	mg/L	0.000053	0.00039	mg/L	0.000053	13.53%
Mo 202.031†	-2.7	-0.00007	mg/L	0.000342	-0.00007	mg/L	0.000342	510.09%
Ni 231.604†	40.3	0.00024	mg/L	0.000198	0.00024	mg/L	0.000198	83.56%
Pb 220.353†	-4.3	-0.00102	mg/L	0.000709	-0.00102	mg/L	0.000709	69.34%
Sb 206.836†	-2.8	0.00043	mg/L	0.001155	0.00043	mg/L	0.001155	267.08%
Se 196.026†	-6.7	-0.00106	mg/L	0.000758	-0.00106	mg/L	0.000758	71.21%
Si 251.611†	239.0	0.0134	mg/L	0.00058	0.0134	mg/L	0.00058	4.32%
Sn 189.927†	-1.1	0.00136	mg/L	0.000388	0.00136	mg/L	0.000388	28.41%
Ti 334.940†	250.7	0.00380	mg/L	0.000128	0.00380	mg/L	0.000128	3.36%
Tl 190.801†	3.8	0.00196	mg/L	0.000669	0.00196	mg/L	0.000669	34.09%
V 290.880†	521.3	0.00492	mg/L	0.000548	0.00492	mg/L	0.000548	11.13%
Zn 206.200†	69.5	0.00201	mg/L	0.000174	0.00201	mg/L	0.000174	8.69%
K 766.490†	11.4	0.00940	mg/L	0.002025	0.00940	mg/L	0.002025	21.54%
Na 589.592†	432.4	0.0134	mg/L	0.01020	0.0134	mg/L	0.01020	76.31%
Sr 407.771†	55.0	-0.00014	mg/L	0.000087	-0.00014	mg/L	0.000087	64.10%
Li 670.784†	53.1	0.00015	mg/L	0.001722	0.00015	mg/L	0.001722	>999.9%

Sequence No.: 111 **Autosampler Location: 128**
Sample ID: L1101022314 **Date Collected: 1/13/2011 12:12:22 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:13 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022314

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1101022314

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5092054.3						56825.34	1.12%
YRADIAL	287897.6						9707.72	3.37%

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Ga 417.206	1664313.3						7043.89	0.42%
GaRADIAL	75830.0						674.01	0.89%
Ag 328.068†	249.6	0.00101	mg/L	0.000321	0.00101	mg/L	0.000321	31.79%
Al 396.153†	170.3	0.0256	mg/L	0.01305	0.0256	mg/L	0.01305	51.05%
As 188.979†	-1.5	0.00082	mg/L	0.002618	0.00082	mg/L	0.002618	317.48%
Ba 233.527†	28.7	-0.00039	mg/L	0.000075	-0.00039	mg/L	0.000075	18.97%
Be 234.861†	23.4	0.00006	mg/L	0.000008	0.00006	mg/L	0.000008	12.98%
B 249.677†	414.2	0.00714	mg/L	0.000226	0.00714	mg/L	0.000226	3.17%
Ca 227.546†	-1.0	0.00410	mg/L	0.035787	0.00410	mg/L	0.035787	872.00%
Cd 228.802†	3.5	0.00036	mg/L	0.000179	0.00036	mg/L	0.000179	50.46%
Co 228.616†	7.1	0.00027	mg/L	0.000361	0.00027	mg/L	0.000361	133.23%
Cr 267.716†	14.5	-0.00015	mg/L	0.000074	-0.00015	mg/L	0.000074	47.97%
Cu 327.393†	251.1	0.00147	mg/L	0.000146	0.00147	mg/L	0.000146	9.95%
Fe 239.562†	12.5	0.0212	mg/L	0.00188	0.0212	mg/L	0.00188	8.89%
Mg 279.077†	9.7	0.0115	mg/L	0.00138	0.0115	mg/L	0.00138	11.92%
Mn 257.610†	-187.6	0.00000	mg/L	0.000027	0.00000	mg/L	0.000027	783.57%
Mo 202.031†	-2.4	-0.00005	mg/L	0.000233	-0.00005	mg/L	0.000233	480.20%
Ni 231.604†	31.4	0.00003	mg/L	0.000118	0.00003	mg/L	0.000118	430.54%
Pb 220.353†	-2.5	-0.00079	mg/L	0.000974	-0.00079	mg/L	0.000974	123.60%
Sb 206.836†	-4.0	-0.00011	mg/L	0.002691	-0.00011	mg/L	0.002691	>999.9%
Se 196.026†	-3.7	0.00055	mg/L	0.001911	0.00055	mg/L	0.001911	348.57%
Si 251.611†	1274.4	0.0398	mg/L	0.00030	0.0398	mg/L	0.00030	0.74%
Sn 189.927†	-3.3	0.00106	mg/L	0.000551	0.00106	mg/L	0.000551	51.75%
Ti 334.940†	226.2	0.00377	mg/L	0.000151	0.00377	mg/L	0.000151	4.01%
Tl 190.801†	4.6	0.00235	mg/L	0.002244	0.00235	mg/L	0.002244	95.29%
V 290.880†	466.6	0.00460	mg/L	0.000464	0.00460	mg/L	0.000464	10.10%
Zn 206.200†	69.2	0.00200	mg/L	0.000216	0.00200	mg/L	0.000216	10.82%
K 766.490†	51.6	0.0244	mg/L	0.02403	0.0244	mg/L	0.02403	98.56%
Na 589.592†	533.4	0.0207	mg/L	0.00500	0.0207	mg/L	0.00500	24.11%
Sr 407.771†	-41.5	-0.00019	mg/L	0.000087	-0.00019	mg/L	0.000087	45.19%
Li 670.784†	85.8	0.00054	mg/L	0.000244	0.00054	mg/L	0.000244	45.11%

Sequence No.: 112 **Autosampler Location: 129**
Sample ID: L1101022315 **Date Collected: 1/13/2011 12:19:03 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:14 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022315

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022315

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5038957.8						13316.85	0.26%
YRADIAL	289021.1						5981.01	2.07%
Ga 417.206	1692625.4						15180.00	0.90%
GaRADIAL	76232.5						2572.55	3.37%
Ag 328.068†	160.6	0.00059	mg/L	0.000522	0.00059	mg/L	0.000522	88.48%
Al 396.153†	38.6	0.00125	mg/L	0.009403	0.00125	mg/L	0.009403	752.52%
As 188.979†	-1.5	0.00080	mg/L	0.001673	0.00080	mg/L	0.001673	209.71%
Ba 233.527†	21.2	-0.00050	mg/L	0.000096	-0.00050	mg/L	0.000096	19.23%
Be 234.861†	32.1	0.00008	mg/L	0.000010	0.00008	mg/L	0.000010	12.79%
B 249.677†	355.0	0.00609	mg/L	0.000507	0.00609	mg/L	0.000507	8.33%
Ca 227.546†	-7.2	-0.0459	mg/L	0.06924	-0.0459	mg/L	0.06924	150.73%
Cd 228.802†	5.1	0.00042	mg/L	0.000183	0.00042	mg/L	0.000183	43.52%
Co 228.616†	6.2	0.00023	mg/L	0.000082	0.00023	mg/L	0.000082	35.21%
Cr 267.716†	20.3	-0.00011	mg/L	0.000046	-0.00011	mg/L	0.000046	41.74%
Cu 327.393†	601.2	0.00369	mg/L	0.000595	0.00369	mg/L	0.000595	16.13%
Fe 239.562†	2.0	0.00604	mg/L	0.002306	0.00604	mg/L	0.002306	38.17%
Mg 279.077†	5.8	0.00771	mg/L	0.003879	0.00771	mg/L	0.003879	50.34%
Mn 257.610†	-157.8	0.00005	mg/L	0.000030	0.00005	mg/L	0.000030	55.98%
Mo 202.031†	-2.8	-0.00007	mg/L	0.000083	-0.00007	mg/L	0.000083	114.64%
Ni 231.604†	42.2	0.00028	mg/L	0.000203	0.00028	mg/L	0.000203	71.92%
Pb 220.353†	-8.9	-0.00161	mg/L	0.000742	-0.00161	mg/L	0.000742	46.18%
Sb 206.836†	-4.6	-0.00042	mg/L	0.001504	-0.00042	mg/L	0.001504	361.11%
Se 196.026†	-4.4	0.00016	mg/L	0.001011	0.00016	mg/L	0.001011	614.12%
Si 251.611†	-133.7	0.00387	mg/L	0.000212	0.00387	mg/L	0.000212	5.47%

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Sn 189.927†	-1.7	0.00128	mg/L	0.000519	0.00128	mg/L	0.000519 40.47%
Ti 334.940†	70.6	0.00358	mg/L	0.000072	0.00358	mg/L	0.000072 2.01%
Tl 190.801†	2.9	0.00151	mg/L	0.004377	0.00151	mg/L	0.004377 289.48%
V 290.880†	396.6	0.00418	mg/L	0.000966	0.00418	mg/L	0.000966 23.12%
Zn 206.200†	64.1	0.00188	mg/L	0.000201	0.00188	mg/L	0.000201 10.73%
K 766.490†	43.5	0.0214	mg/L	0.01225	0.0214	mg/L	0.01225 57.25%
Na 589.592†	314.6	0.00477	mg/L	0.002638	0.00477	mg/L	0.002638 55.34%
Sr 407.771†	10.6	-0.00016	mg/L	0.000038	-0.00016	mg/L	0.000038 23.59%
Li 670.784†	62.6	0.00026	mg/L	0.001435	0.00026	mg/L	0.001435 546.10%

Sequence No.: 113 **Autosampler Location: 130**
Sample ID: L1101022316 **Date Collected: 1/13/2011 12:25:43 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:15 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022316

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022316

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5033335.6						38906.17	0.77%
YRADIAL	291248.3						4937.88	1.70%
Ga 417.206	1687943.9						18566.06	1.10%
GaRADIAL	76787.0						1368.07	1.78%
Ag 328.068†	195.5	0.00076	mg/L	0.000138	0.00076	mg/L	0.000138	18.13%
Al 396.153†	379.0	0.0641	mg/L	0.01469	0.0641	mg/L	0.01469	22.93%
As 188.979†	-1.5	0.00079	mg/L	0.001698	0.00079	mg/L	0.001698	213.85%
Ba 233.527†	60.1	0.00005	mg/L	0.000044	0.00005	mg/L	0.000044	91.22%
Be 234.861†	25.9	0.00006	mg/L	0.000023	0.00006	mg/L	0.000023	39.99%
B 249.677†	304.0	0.00540	mg/L	0.000270	0.00540	mg/L	0.000270	5.00%
Ca 227.546†	8.2	0.0798	mg/L	0.02417	0.0798	mg/L	0.02417	30.28%
Cd 228.802†	5.7	0.00044	mg/L	0.000074	0.00044	mg/L	0.000074	16.61%
Co 228.616†	7.3	0.00028	mg/L	0.000021	0.00028	mg/L	0.000021	7.67%
Cr 267.716†	46.9	0.00010	mg/L	0.000181	0.00010	mg/L	0.000181	185.29%
Cu 327.393†	531.8	0.00325	mg/L	0.001172	0.00325	mg/L	0.001172	36.04%
Fe 239.562†	38.3	0.0585	mg/L	0.00239	0.0585	mg/L	0.00239	4.08%
Mg 279.077†	15.9	0.0177	mg/L	0.00450	0.0177	mg/L	0.00450	25.49%
Mn 257.610†	373.7	0.00115	mg/L	0.000010	0.00115	mg/L	0.000010	0.85%
Mo 202.031†	-2.3	-0.00004	mg/L	0.000294	-0.00004	mg/L	0.000294	783.58%
Ni 231.604†	58.2	0.00066	mg/L	0.000385	0.00066	mg/L	0.000385	58.22%
Pb 220.353†	2.8	-0.00009	mg/L	0.000481	-0.00009	mg/L	0.000481	517.90%
Sb 206.836†	-4.5	-0.00036	mg/L	0.002292	-0.00036	mg/L	0.002292	642.82%
Se 196.026†	-3.0	0.00095	mg/L	0.004585	0.00095	mg/L	0.004585	484.03%
Si 251.611†	3277.5	0.0910	mg/L	0.00558	0.0910	mg/L	0.00558	6.13%
Sn 189.927†	3.7	0.00201	mg/L	0.000232	0.00201	mg/L	0.000232	11.57%
Ti 334.940†	1285.2	0.00505	mg/L	0.000250	0.00505	mg/L	0.000250	4.95%
Tl 190.801†	1.2	0.00071	mg/L	0.002718	0.00071	mg/L	0.002718	382.66%
V 290.880†	532.2	0.00499	mg/L	0.000385	0.00499	mg/L	0.000385	7.71%
Zn 206.200†	198.5	0.00511	mg/L	0.000114	0.00511	mg/L	0.000114	2.23%
K 766.490†	35.1	0.0182	mg/L	0.02480	0.0182	mg/L	0.02480	135.97%
Na 589.592†	503.8	0.0186	mg/L	0.00505	0.0186	mg/L	0.00505	27.19%
Sr 407.771†	206.7	-0.00005	mg/L	0.000054	-0.00005	mg/L	0.000054	100.01%
Li 670.784†	58.4	0.00021	mg/L	0.000516	0.00021	mg/L	0.000516	242.73%

Sequence No.: 114 **Autosampler Location: 131**
Sample ID: L1101022317 **Date Collected: 1/13/2011 12:32:22 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:16 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022317

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Approved: January 13, 2011
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Mean Data: L1101022317

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5067636.6						30897.13	0.61%
YRADIAL	286618.3						5606.98	1.96%
Ga 417.206	1689197.4						7173.94	0.42%
GaRADIAL	75822.9						1333.21	1.76%
Ag 328.068†	290.0	0.00120	mg/L	0.000558	0.00120	mg/L	0.000558	46.49%
Al 396.153†	21.4	-0.00194	mg/L	0.003938	-0.00194	mg/L	0.003938	203.42%
As 188.979†	3.9	0.00450	mg/L	0.001057	0.00450	mg/L	0.001057	23.47%
Ba 233.527†	20.6	-0.00051	mg/L	0.000061	-0.00051	mg/L	0.000061	12.03%
Be 234.861†	17.0	0.00006	mg/L	0.000007	0.00006	mg/L	0.000007	11.41%
B 249.677†	202.3	0.00354	mg/L	0.000388	0.00354	mg/L	0.000388	10.94%
Ca 227.546†	1.0	0.0211	mg/L	0.05731	0.0211	mg/L	0.05731	272.12%
Cd 228.802†	1.8	0.00026	mg/L	0.000034	0.00026	mg/L	0.000034	13.24%
Co 228.616†	7.0	0.00027	mg/L	0.000277	0.00027	mg/L	0.000277	102.66%
Cr 267.716†	69.4	0.00027	mg/L	0.000133	0.00027	mg/L	0.000133	48.92%
Cu 327.393†	563.4	0.00345	mg/L	0.000058	0.00345	mg/L	0.000058	1.68%
Fe 239.562†	6.0	0.0118	mg/L	0.00180	0.0118	mg/L	0.00180	15.25%
Mg 279.077†	-1.5	0.00046	mg/L	0.004419	0.00046	mg/L	0.004419	962.04%
Mn 257.610†	-127.7	0.00012	mg/L	0.000016	0.00012	mg/L	0.000016	13.61%
Mo 202.031†	0.0	0.00010	mg/L	0.000266	0.00010	mg/L	0.000266	275.82%
Ni 231.604†	47.3	0.00040	mg/L	0.000013	0.00040	mg/L	0.000013	3.20%
Pb 220.353†	-11.3	-0.00192	mg/L	0.000178	-0.00192	mg/L	0.000178	9.25%
Sb 206.836†	-4.3	-0.00029	mg/L	0.000397	-0.00029	mg/L	0.000397	137.66%
Se 196.026†	-0.5	0.00226	mg/L	0.001748	0.00226	mg/L	0.001748	77.45%
Si 251.611†	-192.6	0.00237	mg/L	0.001026	0.00237	mg/L	0.001026	43.37%
Sn 189.927†	-1.0	0.00138	mg/L	0.000566	0.00138	mg/L	0.000566	41.03%
Ti 334.940†	112.1	0.00363	mg/L	0.000088	0.00363	mg/L	0.000088	2.41%
Tl 190.801†	0.6	0.00042	mg/L	0.001766	0.00042	mg/L	0.001766	421.68%
V 290.880†	406.6	0.00424	mg/L	0.000577	0.00424	mg/L	0.000577	13.62%
Zn 206.200†	64.6	0.00189	mg/L	0.000179	0.00189	mg/L	0.000179	9.50%
K 766.490†	-37.5	-0.00883	mg/L	0.060801	-0.00883	mg/L	0.060801	688.58%
Na 589.592†	245.6	-0.00027	mg/L	0.002800	-0.00027	mg/L	0.002800	>999.9%
Sr 407.771†	-19.6	-0.00018	mg/L	0.000048	-0.00018	mg/L	0.000048	26.91%
Li 670.784†	111.5	0.00085	mg/L	0.001314	0.00085	mg/L	0.001314	154.68%

Sequence No.: 115
Sample ID: L1101022318
Analyst: PDM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 132
Date Collected: 1/13/2011 12:39:02 AM
Data Type: Reprocessed on 1/13/2011 10:20:17 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1101022318

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022318

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4970600.7						62608.45	1.26%
YRADIAL	287229.8						326.74	0.11%
Ga 417.206	1660278.8						21645.33	1.30%
GaRADIAL	75805.1						2000.58	2.64%
Ag 328.068†	269.8	0.00111	mg/L	0.000687	0.00111	mg/L	0.000687	62.04%
Al 396.153†	57.5	0.00473	mg/L	0.009384	0.00473	mg/L	0.009384	198.25%
As 188.979†	-1.7	0.00069	mg/L	0.001600	0.00069	mg/L	0.001600	231.11%
Ba 233.527†	18.0	-0.00054	mg/L	0.000078	-0.00054	mg/L	0.000078	14.33%
Be 234.861†	35.4	0.00008	mg/L	0.000020	0.00008	mg/L	0.000020	24.86%
B 249.677†	200.8	0.00355	mg/L	0.000433	0.00355	mg/L	0.000433	12.20%
Ca 227.546†	-7.9	-0.0514	mg/L	0.04471	-0.0514	mg/L	0.04471	86.95%
Cd 228.802†	6.3	0.00047	mg/L	0.000103	0.00047	mg/L	0.000103	21.94%
Co 228.616†	8.7	0.00034	mg/L	0.000125	0.00034	mg/L	0.000125	36.34%
Cr 267.716†	44.1	0.00008	mg/L	0.000116	0.00008	mg/L	0.000116	153.55%
Cu 327.393†	536.7	0.00328	mg/L	0.000551	0.00328	mg/L	0.000551	16.80%
Fe 239.562†	12.0	0.0204	mg/L	0.00217	0.0204	mg/L	0.00217	10.63%
Mg 279.077†	-1.5	0.00046	mg/L	0.005437	0.00046	mg/L	0.005437	>999.9%

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Mn 257.610†	-40.1	0.00029	mg/L	0.000029	0.00029	mg/L	0.000029	10.08%
Mo 202.031†	1.4	0.00018	mg/L	0.000458	0.00018	mg/L	0.000458	261.22%
Ni 231.604†	38.0	0.00018	mg/L	0.000358	0.00018	mg/L	0.000358	196.47%
Pb 220.353†	-5.0	-0.00111	mg/L	0.000289	-0.00111	mg/L	0.000289	26.08%
Sb 206.836†	-3.4	0.00014	mg/L	0.001154	0.00014	mg/L	0.001154	801.30%
Se 196.026†	-4.7	-0.00003	mg/L	0.003398	-0.00003	mg/L	0.003398	>999.9%
Si 251.611†	-233.7	0.00132	mg/L	0.000593	0.00132	mg/L	0.000593	45.12%
Sn 189.927†	-1.8	0.00126	mg/L	0.000369	0.00126	mg/L	0.000369	29.30%
Ti 334.940†	19.9	0.00352	mg/L	0.000070	0.00352	mg/L	0.000070	1.99%
Tl 190.801†	4.4	0.00224	mg/L	0.001771	0.00224	mg/L	0.001771	78.90%
V 290.880†	579.0	0.00527	mg/L	0.000560	0.00527	mg/L	0.000560	10.63%
Zn 206.200†	62.1	0.00183	mg/L	0.000072	0.00183	mg/L	0.000072	3.93%
K 766.490†	-0.3	0.00507	mg/L	0.024527	0.00507	mg/L	0.024527	483.98%
Na 589.592†	247.3	-0.00015	mg/L	0.004119	-0.00015	mg/L	0.004119	>999.9%
Sr 407.771†	-56.3	-0.00020	mg/L	0.000091	-0.00020	mg/L	0.000091	45.45%
Li 670.784†	-10.5	-0.00061	mg/L	0.000188	-0.00061	mg/L	0.000188	30.72%

Sequence No.: 116 **Autosampler Location: 133**
Sample ID: L1101022319 **Date Collected: 1/13/2011 12:45:43 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:29 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022319

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022319

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5107031.7						28531.28	0.56%
YRADIAL	288124.0						2027.32	0.70%
Ga 417.206	1701611.0						7372.05	0.43%
GaRADIAL	76097.8						1045.03	1.37%
Ag 328.068†	250.3	0.00101	mg/L	0.000225	0.00101	mg/L	0.000225	22.19%
Al 396.153†	24.9	-0.00128	mg/L	0.007368	-0.00128	mg/L	0.007368	573.72%
As 188.979†	0.0	0.00187	mg/L	0.003298	0.00187	mg/L	0.003298	175.89%
Ba 233.527†	18.9	-0.00053	mg/L	0.000103	-0.00053	mg/L	0.000103	19.50%
Be 234.861†	20.8	0.00006	mg/L	0.000004	0.00006	mg/L	0.000004	5.94%
B 249.677†	141.5	0.00258	mg/L	0.000103	0.00258	mg/L	0.000103	3.98%
Ca 227.546†	-1.6	-0.00017	mg/L	0.056759	-0.00017	mg/L	0.056759	>999.9%
Cd 228.802†	6.4	0.00047	mg/L	0.000161	0.00047	mg/L	0.000161	34.43%
Co 228.616†	8.9	0.00035	mg/L	0.000107	0.00035	mg/L	0.000107	30.57%
Cr 267.716†	8.2	-0.00020	mg/L	0.000034	-0.00020	mg/L	0.000034	16.90%
Cu 327.393†	454.2	0.00275	mg/L	0.000247	0.00275	mg/L	0.000247	8.96%
Fe 239.562†	16.5	0.0270	mg/L	0.00286	0.0270	mg/L	0.00286	10.60%
Mg 279.077†	-1.3	0.00064	mg/L	0.008614	0.00064	mg/L	0.008614	>999.9%
Mn 257.610†	-83.5	0.00021	mg/L	0.000029	0.00021	mg/L	0.000029	13.83%
Mo 202.031†	-3.4	-0.00011	mg/L	0.000306	-0.00011	mg/L	0.000306	286.18%
Ni 231.604†	38.1	0.00019	mg/L	0.000064	0.00019	mg/L	0.000064	34.41%
Pb 220.353†	-1.4	-0.00064	mg/L	0.000977	-0.00064	mg/L	0.000977	152.24%
Sb 206.836†	-5.2	-0.00071	mg/L	0.001352	-0.00071	mg/L	0.001352	191.44%
Se 196.026†	-2.7	0.00105	mg/L	0.003427	0.00105	mg/L	0.003427	327.51%
Si 251.611†	-198.0	0.00223	mg/L	0.000202	0.00223	mg/L	0.000202	9.07%
Sn 189.927†	-1.1	0.00137	mg/L	0.000462	0.00137	mg/L	0.000462	33.82%
Ti 334.940†	123.9	0.00365	mg/L	0.000104	0.00365	mg/L	0.000104	2.84%
Tl 190.801†	0.2	0.00023	mg/L	0.001891	0.00023	mg/L	0.001891	814.69%
V 290.880†	469.1	0.00461	mg/L	0.000676	0.00461	mg/L	0.000676	14.66%
Zn 206.200†	59.4	0.00176	mg/L	0.000142	0.00176	mg/L	0.000142	8.08%
K 766.490†	12.2	0.00971	mg/L	0.026967	0.00971	mg/L	0.026967	277.64%
Na 589.592†	292.3	0.00313	mg/L	0.004157	0.00313	mg/L	0.004157	132.68%
Sr 407.771†	-89.3	-0.00022	mg/L	0.000022	-0.00022	mg/L	0.000022	9.95%
Li 670.784†	61.3	0.00025	mg/L	0.000614	0.00025	mg/L	0.000614	247.90%

Sequence No.: 117 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 1/13/2011 12:52:22 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:30 AM**
Logged In Analyst (Original) : peicp2

Approved: January 13, 2011
Pierce Morris

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4706207.1						54670.69	1.16%
YRADIAL	274807.0						2142.58	0.78%
Ga 417.206	1542546.0						17074.51	1.11%
GaRADIAL	72392.0						1688.79	2.33%
Ag 328.068†	87967.4	0.416	mg/L	0.0136	0.416	mg/L	0.0136	3.28%
QC value within limits for Ag 328.068 Recovery = 104.01%								
Al 396.153†	55058.7	10.1	mg/L	0.02	10.1	mg/L	0.02	0.18%
QC value within limits for Al 396.153 Recovery = 101.46%								
As 188.979†	605.6	0.410	mg/L	0.0049	0.410	mg/L	0.0049	1.19%
QC value within limits for As 188.979 Recovery = 102.57%								
Ba 233.527†	74471.2	1.05	mg/L	0.035	1.05	mg/L	0.035	3.36%
QC value within limits for Ba 233.527 Recovery = 104.76%								
Be 234.861†	39779.1	0.0526	mg/L	0.00169	0.0526	mg/L	0.00169	3.22%
QC value within limits for Be 234.861 Recovery = 105.14%								
B 249.677†	30254.1	0.518	mg/L	0.0173	0.518	mg/L	0.0173	3.35%
QC value within limits for B 249.677 Recovery = 103.59%								
Ca 227.546†	1209.0	10.4	mg/L	0.16	10.4	mg/L	0.16	1.52%
QC value within limits for Ca 227.546 Recovery = 104.45%								
Cd 228.802†	1258.4	0.0517	mg/L	0.00092	0.0517	mg/L	0.00092	1.77%
QC value within limits for Cd 228.802 Recovery = 103.43%								
Co 228.616†	4733.5	0.204	mg/L	0.0026	0.204	mg/L	0.0026	1.25%
QC value within limits for Co 228.616 Recovery = 102.05%								
Cr 267.716†	67709.3	0.524	mg/L	0.0154	0.524	mg/L	0.0154	2.94%
QC value within limits for Cr 267.716 Recovery = 104.90%								
Cu 327.393†	81543.4	0.519	mg/L	0.0177	0.519	mg/L	0.0177	3.41%
QC value within limits for Cu 327.393 Recovery = 103.81%								
Fe 239.562†	2787.1	4.03	mg/L	0.053	4.03	mg/L	0.053	1.31%
QC value within limits for Fe 239.562 Recovery = 100.66%								
Mg 279.077†	10122.6	10.1	mg/L	0.09	10.1	mg/L	0.09	0.94%
QC value within limits for Mg 279.077 Recovery = 100.59%								
Mn 257.610†	257660.5	0.525	mg/L	0.0175	0.525	mg/L	0.0175	3.33%
QC value within limits for Mn 257.610 Recovery = 104.90%								
Mo 202.031†	17806.4	1.05	mg/L	0.034	1.05	mg/L	0.034	3.27%
QC value within limits for Mo 202.031 Recovery = 105.27%								
Ni 231.604†	22340.8	0.528	mg/L	0.0158	0.528	mg/L	0.0158	2.99%
QC value within limits for Ni 231.604 Recovery = 105.63%								
Pb 220.353†	4040.1	0.525	mg/L	0.0086	0.525	mg/L	0.0086	1.63%
QC value within limits for Pb 220.353 Recovery = 105.02%								
Sb 206.836†	2552.7	1.25	mg/L	0.020	1.25	mg/L	0.020	1.59%
QC value within limits for Sb 206.836 Recovery = 103.91%								
Se 196.026†	767.6	0.411	mg/L	0.0050	0.411	mg/L	0.0050	1.22%
QC value within limits for Se 196.026 Recovery = 102.78%								
Si 251.611†	200940.2	5.12	mg/L	0.183	5.12	mg/L	0.183	3.58%
QC value within limits for Si 251.611 Recovery = 102.50%								
Sn 189.927†	7616.4	1.03	mg/L	0.014	1.03	mg/L	0.014	1.36%
QC value within limits for Sn 189.927 Recovery = 103.48%								
Ti 334.940†	844075.1	1.02	mg/L	0.004	1.02	mg/L	0.004	0.37%
QC value within limits for Ti 334.940 Recovery = 101.83%								
Tl 190.801†	1071.4	0.534	mg/L	0.0102	0.534	mg/L	0.0102	1.92%
QC value within limits for Tl 190.801 Recovery = 106.75%								
V 290.880†	172447.2	1.04	mg/L	0.037	1.04	mg/L	0.037	3.61%
QC value within limits for V 290.880 Recovery = 103.55%								
Zn 206.200†	43916.7	1.06	mg/L	0.029	1.06	mg/L	0.029	2.71%
QC value within limits for Zn 206.200 Recovery = 106.10%								
K 766.490†	138055.8	51.3	mg/L	0.40	51.3	mg/L	0.40	0.77%
QC value within limits for K 766.490 Recovery = 102.62%								
Na 589.592†	711126.6	51.6	mg/L	0.64	51.6	mg/L	0.64	1.23%
QC value within limits for Na 589.592 Recovery = 103.27%								
Sr 407.771†	1736592.3	0.993	mg/L	0.0133	0.993	mg/L	0.0133	1.34%
QC value within limits for Sr 407.771 Recovery = 99.33%								
Li 670.784†	84184.5	1.01	mg/L	0.006	1.01	mg/L	0.006	0.56%

Approved: January 13, 2011

Pierce Morris

QC value within limits for Li 670.784 Recovery = 100.83%
All analyte(s) passed QC.

Sequence No.: 118 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 1/13/2011 12:59:58 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:31 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4938048.9						31305.00	0.63%
YRADIAL	284600.0						2746.21	0.96%
Ga 417.206	1629271.4						17681.86	1.09%
GaRADIAL	74810.6						1171.68	1.57%
Ag 328.068†	322.0	0.00135	mg/L	0.000695	0.00135	mg/L	0.000695	51.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	27.2	-0.00087	mg/L	0.005268	-0.00087	mg/L	0.005268	608.57%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.6	0.00010	mg/L	0.003369	0.00010	mg/L	0.003369	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.0	-0.00056	mg/L	0.000094	-0.00056	mg/L	0.000094	16.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	9.8	0.00005	mg/L	0.000018	0.00005	mg/L	0.000018	35.26%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	273.4	0.00471	mg/L	0.000034	0.00471	mg/L	0.000034	0.71%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-2.9	-0.0112	mg/L	0.03803	-0.0112	mg/L	0.03803	340.10%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.2	0.00039	mg/L	0.000119	0.00039	mg/L	0.000119	30.33%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	11.1	0.00045	mg/L	0.000103	0.00045	mg/L	0.000103	23.02%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-45.2	-0.00062	mg/L	0.000594	-0.00062	mg/L	0.000594	96.27%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	17.9	-0.00002	mg/L	0.000326	-0.00002	mg/L	0.000326	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.9	0.00440	mg/L	0.003982	0.00440	mg/L	0.003982	90.59%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	9.5	0.0114	mg/L	0.00531	0.0114	mg/L	0.00531	46.63%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-327.0	-0.00029	mg/L	0.000020	-0.00029	mg/L	0.000020	6.82%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-5.0	-0.00020	mg/L	0.000248	-0.00020	mg/L	0.000248	122.88%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	32.1	0.00004	mg/L	0.000146	0.00004	mg/L	0.000146	334.54%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.1	-0.00048	mg/L	0.000542	-0.00048	mg/L	0.000542	113.11%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.8	-0.00095	mg/L	0.000994	-0.00095	mg/L	0.000994	104.18%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.5	0.00065	mg/L	0.004038	0.00065	mg/L	0.004038	623.94%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-232.7	0.00134	mg/L	0.000348	0.00134	mg/L	0.000348	25.92%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	5.9	0.00231	mg/L	0.000331	0.00231	mg/L	0.000331	14.34%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	132.7	0.00366	mg/L	0.000085	0.00366	mg/L	0.000085	2.31%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.4	0.00127	mg/L	0.001094	0.00127	mg/L	0.001094	85.79%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	446.5	0.00448	mg/L	0.001139	0.00448	mg/L	0.001139	25.43%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	4.6	0.00044	mg/L	0.000124	0.00044	mg/L	0.000124	28.30%

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QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490†	114.6	0.0479 mg/L	0.03841	0.0479 mg/L	0.03841	80.19%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592†	347.1	0.00714 mg/L	0.003424	0.00714 mg/L	0.003424	47.98%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771†	130.2	-0.00009 mg/L	0.000057	-0.00009 mg/L	0.000057	62.10%

QC value within limits for Sr 407.771 Recovery = Not calculated

Li 670.784†	35.6	-0.00006 mg/L	0.001209	-0.00006 mg/L	0.001209	>999.9%

QC value within limits for Li 670.784 Recovery = Not calculated

All analyte(s) passed QC.

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Sequence No.: 119 **Autosampler Location: 134**
Sample ID: L1101022320 **Date Collected: 1/13/2011 1:06:37 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:32 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022320

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022320

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5063358.8						34006.30	0.67%
YRADIAL	289773.1						3183.34	1.10%
Ga 417.206	1679051.8						15948.68	0.95%
GaRADIAL	76111.9						1669.48	2.19%
Ag 328.068†	250.2	0.00101	mg/L	0.000416	0.00101	mg/L	0.000416	40.99%
Al 396.153†	55.7	0.00440	mg/L	0.004025	0.00440	mg/L	0.004025	91.39%
As 188.979†	1.0	0.00251	mg/L	0.001777	0.00251	mg/L	0.001777	70.82%
Ba 233.527†	24.9	-0.00045	mg/L	0.000024	-0.00045	mg/L	0.000024	5.28%
Be 234.861†	24.6	0.00006	mg/L	0.000021	0.00006	mg/L	0.000021	32.16%
B 249.677†	221.8	0.00394	mg/L	0.000256	0.00394	mg/L	0.000256	6.51%
Ca 227.546†	0.6	0.0179	mg/L	0.03807	0.0179	mg/L	0.03807	213.20%
Cd 228.802†	4.6	0.00039	mg/L	0.000215	0.00039	mg/L	0.000215	55.17%
Co 228.616†	8.2	0.00032	mg/L	0.000110	0.00032	mg/L	0.000110	34.21%
Cr 267.716†	30.0	-0.00003	mg/L	0.000481	-0.00003	mg/L	0.000481	>999.9%
Cu 327.393†	480.9	0.00292	mg/L	0.000228	0.00292	mg/L	0.000228	7.80%
Fe 239.562†	16.9	0.0275	mg/L	0.00039	0.0275	mg/L	0.00039	1.42%
Mg 279.077†	4.6	0.00652	mg/L	0.004267	0.00652	mg/L	0.004267	65.45%
Mn 257.610†	-55.5	0.00026	mg/L	0.000025	0.00026	mg/L	0.000025	9.37%
Mo 202.031†	-0.2	0.00008	mg/L	0.000130	0.00008	mg/L	0.000130	154.30%
Ni 231.604†	30.9	0.00001	mg/L	0.000037	0.00001	mg/L	0.000037	274.35%
Pb 220.353†	-2.2	-0.00074	mg/L	0.000350	-0.00074	mg/L	0.000350	47.14%
Sb 206.836†	-7.6	-0.00184	mg/L	0.002203	-0.00184	mg/L	0.002203	119.82%
Se 196.026†	-9.0	-0.00227	mg/L	0.005849	-0.00227	mg/L	0.005849	257.76%
Si 251.611†	135.1	0.0107	mg/L	0.00072	0.0107	mg/L	0.00072	6.71%
Sn 189.927†	-3.3	0.00107	mg/L	0.000268	0.00107	mg/L	0.000268	25.17%
Ti 334.940†	333.3	0.00390	mg/L	0.000070	0.00390	mg/L	0.000070	1.79%
Tl 190.801†	5.0	0.00255	mg/L	0.004403	0.00255	mg/L	0.004403	172.78%
V 290.880†	464.0	0.00458	mg/L	0.000494	0.00458	mg/L	0.000494	10.79%
Zn 206.200†	65.0	0.00190	mg/L	0.000122	0.00190	mg/L	0.000122	6.45%
K 766.490†	74.2	0.0329	mg/L	0.01173	0.0329	mg/L	0.01173	35.69%
Na 589.592†	275.8	0.00193	mg/L	0.009084	0.00193	mg/L	0.009084	470.31%
Sr 407.771†	-43.7	-0.00019	mg/L	0.000027	-0.00019	mg/L	0.000027	13.94%
Li 670.784†	67.9	0.00033	mg/L	0.000993	0.00033	mg/L	0.000993	304.24%

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Sequence No.: 120 **Autosampler Location: 135**
Sample ID: L1101022321 **Date Collected: 1/13/2011 1:13:18 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:33 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022321

Analyte	Back Pressure	Flow

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All	178.0 kPa	0.50 L/min

Mean Data: L1101022321

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5067750.5						20872.90	0.41%
YRADIAL	288063.0						4685.92	1.63%
Ga 417.206	1687023.7						26805.11	1.59%
GaRADIAL	75845.6						1256.95	1.66%
Ag 328.068†	336.0	0.00142	mg/L	0.000453	0.00142	mg/L	0.000453	31.99%
Al 396.153†	47.3	0.00285	mg/L	0.012639	0.00285	mg/L	0.012639	443.31%
As 188.979†	2.8	0.00373	mg/L	0.001671	0.00373	mg/L	0.001671	44.80%
Ba 233.527†	30.6	-0.00037	mg/L	0.000069	-0.00037	mg/L	0.000069	18.96%
Be 234.861†	21.0	0.00006	mg/L	0.000017	0.00006	mg/L	0.000017	26.99%
B 249.677†	202.4	0.00357	mg/L	0.000363	0.00357	mg/L	0.000363	10.16%
Ca 227.546†	3.6	0.0420	mg/L	0.02763	0.0420	mg/L	0.02763	65.71%
Cd 228.802†	6.8	0.00047	mg/L	0.000132	0.00047	mg/L	0.000132	28.03%
Co 228.616†	9.2	0.00036	mg/L	0.000149	0.00036	mg/L	0.000149	41.24%
Cr 267.716†	38.6	0.00003	mg/L	0.000028	0.00003	mg/L	0.000028	86.39%
Cu 327.393†	608.6	0.00373	mg/L	0.000643	0.00373	mg/L	0.000643	17.23%
Fe 239.562†	11.2	0.0193	mg/L	0.00241	0.0193	mg/L	0.00241	12.45%
Mg 279.077†	15.0	0.0168	mg/L	0.00148	0.0168	mg/L	0.00148	8.77%
Mn 257.610†	-31.5	0.00031	mg/L	0.000022	0.00031	mg/L	0.000022	7.14%
Mo 202.031†	-1.6	0.00000	mg/L	0.000463	0.00000	mg/L	0.000463	>999.9%
Ni 231.604†	42.3	0.00029	mg/L	0.000121	0.00029	mg/L	0.000121	42.26%
Pb 220.353†	-2.4	-0.00078	mg/L	0.000465	-0.00078	mg/L	0.000465	59.99%
Sb 206.836†	-3.2	0.00025	mg/L	0.002976	0.00025	mg/L	0.002976	>999.9%
Se 196.026†	-10.3	-0.00294	mg/L	0.002024	-0.00294	mg/L	0.002024	68.82%
Si 251.611†	399.1	0.0175	mg/L	0.00160	0.0175	mg/L	0.00160	9.14%
Sn 189.927†	0.1	0.00152	mg/L	0.000261	0.00152	mg/L	0.000261	17.18%
Ti 334.940†	249.8	0.00380	mg/L	0.000161	0.00380	mg/L	0.000161	4.23%
Tl 190.801†	1.9	0.00103	mg/L	0.002646	0.00103	mg/L	0.002646	255.92%
V 290.880†	435.9	0.00441	mg/L	0.000545	0.00441	mg/L	0.000545	12.35%
Zn 206.200†	78.6	0.00223	mg/L	0.000118	0.00223	mg/L	0.000118	5.32%
K 766.490†	82.4	0.0358	mg/L	0.03597	0.0358	mg/L	0.03597	100.57%
Na 589.592†	1903.2	0.121	mg/L	0.0093	0.121	mg/L	0.0093	7.67%
Sr 407.771†	352.1	0.00003	mg/L	0.000056	0.00003	mg/L	0.000056	170.05%
Li 670.784†	36.9	-0.00004	mg/L	0.000704	-0.00004	mg/L	0.000704	>999.9%

Sequence No.: 121 **Autosampler Location: 136**
Sample ID: L1101022322 **Date Collected: 1/13/2011 1:19:58 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:34 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022322

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1101022322

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5059648.0						100297.43	1.98%
YRADIAL	286511.3						6157.66	2.15%
Ga 417.206	1692920.1						44675.94	2.64%
GaRADIAL	75904.0						117.94	0.16%
Ag 328.068†	203.2	0.00080	mg/L	0.000349	0.00080	mg/L	0.000349	43.78%
Al 396.153†	481.6	0.0830	mg/L	0.01007	0.0830	mg/L	0.01007	12.13%
As 188.979†	1.7	0.00301	mg/L	0.003043	0.00301	mg/L	0.003043	101.00%
Ba 233.527†	68.5	0.00016	mg/L	0.000112	0.00016	mg/L	0.000112	68.49%
Be 234.861†	45.3	0.00007	mg/L	0.000042	0.00007	mg/L	0.000042	57.18%
B 249.677†	179.8	0.00348	mg/L	0.000170	0.00348	mg/L	0.000170	4.89%
Ca 227.546†	-3.2	-0.0127	mg/L	0.01898	-0.0127	mg/L	0.01898	149.45%
Cd 228.802†	7.3	0.00050	mg/L	0.000106	0.00050	mg/L	0.000106	21.39%
Co 228.616†	10.0	0.00039	mg/L	0.000328	0.00039	mg/L	0.000328	83.23%
Cr 267.716†	72.7	0.00030	mg/L	0.000158	0.00030	mg/L	0.000158	52.71%
Cu 327.393†	628.6	0.00387	mg/L	0.000269	0.00387	mg/L	0.000269	6.95%
Fe 239.562†	68.3	0.102	mg/L	0.0022	0.102	mg/L	0.0022	2.13%

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Mg 279.077†	11.5	0.0133	mg/L	0.00154	0.0133	mg/L	0.00154	11.61%
Mn 257.610†	793.4	0.00201	mg/L	0.000060	0.00201	mg/L	0.000060	2.97%
Mo 202.031†	-7.3	-0.00033	mg/L	0.000375	-0.00033	mg/L	0.000375	112.32%
Ni 231.604†	48.3	0.00043	mg/L	0.000188	0.00043	mg/L	0.000188	44.00%
Pb 220.353†	5.2	0.00021	mg/L	0.000345	0.00021	mg/L	0.000345	165.20%
Sb 206.836†	-8.5	-0.00228	mg/L	0.000995	-0.00228	mg/L	0.000995	43.62%
Se 196.026†	-4.0	0.00040	mg/L	0.001187	0.00040	mg/L	0.001187	294.82%
Si 251.611†	4345.0	0.118	mg/L	0.0040	0.118	mg/L	0.0040	3.34%
Sn 189.927†	-4.6	0.00088	mg/L	0.000295	0.00088	mg/L	0.000295	33.48%
Ti 334.940†	1959.2	0.00585	mg/L	0.000348	0.00585	mg/L	0.000348	5.95%
Tl 190.801†	3.0	0.00163	mg/L	0.001199	0.00163	mg/L	0.001199	73.38%
V 290.880†	416.6	0.00429	mg/L	0.000264	0.00429	mg/L	0.000264	6.14%
Zn 206.200†	189.2	0.00489	mg/L	0.000123	0.00489	mg/L	0.000123	2.52%
K 766.490†	28.7	0.0159	mg/L	0.00470	0.0159	mg/L	0.00470	29.62%
Na 589.592†	344.7	0.00696	mg/L	0.006426	0.00696	mg/L	0.006426	92.31%
Sr 407.771†	283.5	-0.00001	mg/L	0.000057	-0.00001	mg/L	0.000057	411.27%
Li 670.784†	99.1	0.00070	mg/L	0.000389	0.00070	mg/L	0.000389	55.55%

Sequence No.: 122 **Autosampler Location: 137**
Sample ID: L1101022323 **Date Collected: 1/13/2011 1:26:38 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:45 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022323

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022323

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5078778.8						31936.84	0.63%
YRADIAL	294182.5						655.86	0.22%
Ga 417.206	1679116.6						25807.74	1.54%
GaRADIAL	77190.5						1418.54	1.84%
Ag 328.068†	287.6	0.00119	mg/L	0.000610	0.00119	mg/L	0.000610	51.31%
Al 396.153†	93.1	0.0113	mg/L	0.00128	0.0113	mg/L	0.00128	11.35%
As 188.979†	0.1	0.00190	mg/L	0.000965	0.00190	mg/L	0.000965	50.89%
Ba 233.527†	20.7	-0.00051	mg/L	0.000066	-0.00051	mg/L	0.000066	13.09%
Be 234.861†	19.9	0.00006	mg/L	0.000016	0.00006	mg/L	0.000016	26.40%
B 249.677†	118.5	0.00212	mg/L	0.000514	0.00212	mg/L	0.000514	24.21%
Ca 227.546†	-5.2	-0.0291	mg/L	0.04782	-0.0291	mg/L	0.04782	164.06%
Cd 228.802†	4.9	0.00040	mg/L	0.000197	0.00040	mg/L	0.000197	49.04%
Co 228.616†	5.4	0.00020	mg/L	0.000261	0.00020	mg/L	0.000261	131.57%
Cr 267.716†	63.8	0.00023	mg/L	0.000027	0.00023	mg/L	0.000027	11.70%
Cu 327.393†	545.6	0.00333	mg/L	0.000495	0.00333	mg/L	0.000495	14.85%
Fe 239.562†	8.0	0.0147	mg/L	0.00448	0.0147	mg/L	0.00448	30.47%
Mg 279.077†	0.7	0.00261	mg/L	0.005901	0.00261	mg/L	0.005901	226.33%
Mn 257.610†	-7.5	0.00036	mg/L	0.000003	0.00036	mg/L	0.000003	0.98%
Mo 202.031†	0.2	0.00010	mg/L	0.000310	0.00010	mg/L	0.000310	296.87%
Ni 231.604†	52.5	0.00053	mg/L	0.000145	0.00053	mg/L	0.000145	27.43%
Pb 220.353†	-3.1	-0.00087	mg/L	0.000487	-0.00087	mg/L	0.000487	56.18%
Sb 206.836†	-7.3	-0.00172	mg/L	0.000148	-0.00172	mg/L	0.000148	8.60%
Se 196.026†	-8.4	-0.00196	mg/L	0.004622	-0.00196	mg/L	0.004622	236.07%
Si 251.611†	-44.5	0.00615	mg/L	0.000456	0.00615	mg/L	0.000456	7.41%
Sn 189.927†	-5.1	0.00082	mg/L	0.000810	0.00082	mg/L	0.000810	98.36%
Ti 334.940†	169.9	0.00370	mg/L	0.000078	0.00370	mg/L	0.000078	2.10%
Tl 190.801†	3.7	0.00195	mg/L	0.002360	0.00195	mg/L	0.002360	121.18%
V 290.880†	387.7	0.00412	mg/L	0.001214	0.00412	mg/L	0.001214	29.43%
Zn 206.200†	72.3	0.00207	mg/L	0.000107	0.00207	mg/L	0.000107	5.16%
K 766.490†	56.1	0.0261	mg/L	0.04619	0.0261	mg/L	0.04619	176.97%
Na 589.592†	293.0	0.00319	mg/L	0.013126	0.00319	mg/L	0.013126	412.03%
Sr 407.771†	-92.4	-0.00022	mg/L	0.000026	-0.00022	mg/L	0.000026	11.56%
Li 670.784†	-44.0	-0.00101	mg/L	0.000276	-0.00101	mg/L	0.000276	27.22%

Sequence No.: 123 **Autosampler Location: 138**
Sample ID: L1101022324 **Date Collected: 1/13/2011 1:33:18 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:46 AM**

Approved: January 13, 2011
Pierce Morris

Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101022324

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1101022324

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5109099.5						16946.89	0.33%
YRADIAL	288850.3						3092.62	1.07%
Ga 417.206	1679666.8						1756.72	0.10%
GaRADIAL	76108.8						2057.70	2.70%
Ag 328.068†	318.8	0.00134	mg/L	0.000841	0.00134	mg/L	0.000841	62.76%
Al 396.153†	4.7	-0.00501	mg/L	0.007590	-0.00501	mg/L	0.007590	151.41%
As 188.979†	-0.1	0.00180	mg/L	0.002155	0.00180	mg/L	0.002155	119.99%
Ba 233.527†	23.0	-0.00047	mg/L	0.000042	-0.00047	mg/L	0.000042	8.94%
Be 234.861†	34.4	0.00007	mg/L	0.000007	0.00007	mg/L	0.000007	9.16%
B 249.677†	105.6	0.00208	mg/L	0.000104	0.00208	mg/L	0.000104	4.99%
Ca 227.546†	1.8	0.0272	mg/L	0.01481	0.0272	mg/L	0.01481	54.41%
Cd 228.802†	7.0	0.00049	mg/L	0.000019	0.00049	mg/L	0.000019	3.86%
Co 228.616†	6.5	0.00024	mg/L	0.000354	0.00024	mg/L	0.000354	145.22%
Cr 267.716†	7.2	-0.00021	mg/L	0.000303	-0.00021	mg/L	0.000303	146.10%
Cu 327.393†	530.2	0.00324	mg/L	0.000300	0.00324	mg/L	0.000300	9.27%
Fe 239.562†	31.3	0.0483	mg/L	0.00395	0.0483	mg/L	0.00395	8.17%
Mg 279.077†	3.2	0.00508	mg/L	0.005074	0.00508	mg/L	0.005074	99.88%
Mn 257.610†	-52.4	0.00027	mg/L	0.000009	0.00027	mg/L	0.000009	3.43%
Mo 202.031†	-2.4	-0.00004	mg/L	0.000110	-0.00004	mg/L	0.000110	247.18%
Ni 231.604†	36.6	0.00015	mg/L	0.000098	0.00015	mg/L	0.000098	65.85%
Pb 220.353†	-4.0	-0.00098	mg/L	0.001225	-0.00098	mg/L	0.001225	125.59%
Sb 206.836†	-8.4	-0.00222	mg/L	0.001342	-0.00222	mg/L	0.001342	60.51%
Se 196.026†	-7.1	-0.00124	mg/L	0.000301	-0.00124	mg/L	0.000301	24.22%
Si 251.611†	-119.4	0.00424	mg/L	0.000282	0.00424	mg/L	0.000282	6.66%
Sn 189.927†	1.0	0.00165	mg/L	0.000675	0.00165	mg/L	0.000675	40.89%
Ti 334.940†	172.3	0.00371	mg/L	0.000181	0.00371	mg/L	0.000181	4.90%
Tl 190.801†	4.4	0.00226	mg/L	0.003809	0.00226	mg/L	0.003809	168.43%
V 290.880†	490.2	0.00474	mg/L	0.000271	0.00474	mg/L	0.000271	5.71%
Zn 206.200†	112.5	0.00304	mg/L	0.000040	0.00304	mg/L	0.000040	1.30%
K 766.490†	7.3	0.00788	mg/L	0.036278	0.00788	mg/L	0.036278	460.19%
Na 589.592†	340.6	0.00666	mg/L	0.009406	0.00666	mg/L	0.009406	141.22%
Sr 407.771†	-92.9	-0.00022	mg/L	0.000114	-0.00022	mg/L	0.000114	50.66%
Li 670.784†	18.7	-0.00026	mg/L	0.000979	-0.00026	mg/L	0.000979	372.88%

Sequence No.: 124 **Autosampler Location: 26**
Sample ID: FLTBLK **Date Collected: 1/13/2011 1:39:58 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:48 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FLTBLK

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: FLTBLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5050808.3						75982.43	1.50%
YRADIAL	296982.8						4049.80	1.36%
Ga 417.206	1750484.9						16911.49	0.97%
GaRADIAL	78725.3						2042.18	2.59%
Ag 328.068†	270.1	0.00111	mg/L	0.000382	0.00111	mg/L	0.000382	34.52%
Al 396.153†	2.9	-0.00535	mg/L	0.007554	-0.00535	mg/L	0.007554	141.09%
As 188.979†	2.3	0.00338	mg/L	0.002791	0.00338	mg/L	0.002791	82.68%
Ba 233.527†	14.9	-0.00059	mg/L	0.000081	-0.00059	mg/L	0.000081	13.92%
Be 234.861†	70.8	0.00013	mg/L	0.000017	0.00013	mg/L	0.000017	13.16%

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B 249.677†	54.1	0.00099	mg/L	0.000094	0.00099	mg/L	0.000094	9.49%
Ca 227.546†	-7.0	-0.0462	mg/L	0.05606	-0.0462	mg/L	0.05606	121.29%
Cd 228.802†	4.7	0.00039	mg/L	0.000182	0.00039	mg/L	0.000182	46.93%
Co 228.616†	10.4	0.00042	mg/L	0.000190	0.00042	mg/L	0.000190	45.57%
Cr 267.716†	-46.6	-0.00063	mg/L	0.000050	-0.00063	mg/L	0.000050	8.00%
Cu 327.393†	172.5	0.00097	mg/L	0.000462	0.00097	mg/L	0.000462	47.89%
Fe 239.562†	-0.8	0.00203	mg/L	0.003767	0.00203	mg/L	0.003767	185.60%
Mg 279.077†	2.2	0.00406	mg/L	0.002933	0.00406	mg/L	0.002933	72.18%
Mn 257.610†	-359.9	-0.00026	mg/L	0.000023	-0.00026	mg/L	0.000023	9.20%
Mo 202.031†	-8.8	-0.00042	mg/L	0.000092	-0.00042	mg/L	0.000092	21.76%
Ni 231.604†	28.5	-0.00004	mg/L	0.000199	-0.00004	mg/L	0.000199	484.13%
Pb 220.353†	-2.5	-0.00079	mg/L	0.000516	-0.00079	mg/L	0.000516	65.35%
Sb 206.836†	-9.8	-0.00288	mg/L	0.002849	-0.00288	mg/L	0.002849	99.00%
Se 196.026†	-2.3	0.00128	mg/L	0.000753	0.00128	mg/L	0.000753	58.97%
Si 251.611†	20811.0	0.539	mg/L	0.0088	0.539	mg/L	0.0088	1.63%
Sn 189.927†	-3.6	0.00102	mg/L	0.000439	0.00102	mg/L	0.000439	43.11%
Ti 334.940†	-83.0	0.00340	mg/L	0.000133	0.00340	mg/L	0.000133	3.91%
Tl 190.801†	5.5	0.00279	mg/L	0.002533	0.00279	mg/L	0.002533	90.79%
V 290.880†	548.5	0.00509	mg/L	0.000478	0.00509	mg/L	0.000478	9.40%
Zn 206.200†	21.4	0.00084	mg/L	0.000069	0.00084	mg/L	0.000069	8.16%
K 766.490†	31.0	0.0167	mg/L	0.03170	0.0167	mg/L	0.03170	189.57%
Na 589.592†	201.3	-0.00351	mg/L	0.000980	-0.00351	mg/L	0.000980	27.93%
Sr 407.771†	-116.8	-0.00023	mg/L	0.000065	-0.00023	mg/L	0.000065	28.00%
Li 670.784†	6.1	-0.00041	mg/L	0.000980	-0.00041	mg/L	0.000980	236.77%

Sequence No.: 125 **Autosampler Location: 139**
Sample ID: F BLANK **Date Collected: 1/13/2011 1:47:20 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:49 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: F BLANK

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: F BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5057178.5						38609.87	0.76%
YRADIAL	291802.1						2421.46	0.83%
Ga 417.206	1711092.1						15555.45	0.91%
GaRADIAL	77646.6						1217.35	1.57%
Ag 328.068†	160.3	0.00059	mg/L	0.001018	0.00059	mg/L	0.001018	172.76%
Al 396.153†	11.3	-0.00380	mg/L	0.004027	-0.00380	mg/L	0.004027	105.99%
As 188.979†	-0.1	0.00178	mg/L	0.002066	0.00178	mg/L	0.002066	116.04%
Ba 233.527†	17.5	-0.00055	mg/L	0.000046	-0.00055	mg/L	0.000046	8.39%
Be 234.861†	66.6	0.00012	mg/L	0.000013	0.00012	mg/L	0.000013	10.67%
B 249.677†	28.1	0.00056	mg/L	0.000044	0.00056	mg/L	0.000044	7.84%
Ca 227.546†	-7.6	-0.0503	mg/L	0.09175	-0.0503	mg/L	0.09175	182.57%
Cd 228.802†	2.3	0.00030	mg/L	0.000144	0.00030	mg/L	0.000144	48.15%
Co 228.616†	6.5	0.00025	mg/L	0.000149	0.00025	mg/L	0.000149	60.89%
Cr 267.716†	-29.6	-0.00050	mg/L	0.000013	-0.00050	mg/L	0.000013	2.53%
Cu 327.393†	64.5	0.00028	mg/L	0.000524	0.00028	mg/L	0.000524	186.55%
Fe 239.562†	-0.1	0.00296	mg/L	0.003299	0.00296	mg/L	0.003299	111.55%
Mg 279.077†	-4.9	-0.00299	mg/L	0.002943	-0.00299	mg/L	0.002943	98.38%
Mn 257.610†	-372.2	-0.00030	mg/L	0.000012	-0.00030	mg/L	0.000012	3.84%
Mo 202.031†	-7.1	-0.00033	mg/L	0.000411	-0.00033	mg/L	0.000411	125.84%
Ni 231.604†	35.5	0.00012	mg/L	0.000074	0.00012	mg/L	0.000074	59.93%
Pb 220.353†	-4.6	-0.00107	mg/L	0.000828	-0.00107	mg/L	0.000828	77.70%
Sb 206.836†	-7.8	-0.00192	mg/L	0.001647	-0.00192	mg/L	0.001647	85.60%
Se 196.026†	-5.0	-0.00016	mg/L	0.001749	-0.00016	mg/L	0.001749	>999.9%
Si 251.611†	16891.6	0.439	mg/L	0.0058	0.439	mg/L	0.0058	1.32%
Sn 189.927†	-4.7	0.00088	mg/L	0.000172	0.00088	mg/L	0.000172	19.57%
Ti 334.940†	26.1	0.00353	mg/L	0.000125	0.00353	mg/L	0.000125	3.53%
Tl 190.801†	4.1	0.00210	mg/L	0.002512	0.00210	mg/L	0.002512	119.42%
V 290.880†	454.2	0.00452	mg/L	0.001174	0.00452	mg/L	0.001174	25.96%
Zn 206.200†	14.0	0.00066	mg/L	0.000061	0.00066	mg/L	0.000061	9.13%
K 766.490†	-11.4	0.00092	mg/L	0.024033	0.00092	mg/L	0.024033	>999.9%
Na 589.592†	55.3	-0.0142	mg/L	0.00773	-0.0142	mg/L	0.00773	54.58%

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Sr 407.771†	-144.7	-0.00025 mg/L	0.000055	-0.00025 mg/L	0.000055	22.03%
Li 670.784†	-69.7	-0.00132 mg/L	0.000559	-0.00132 mg/L	0.000559	42.29%

Sequence No.: 126 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 1/13/2011 1:54:01 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:50 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4725498.1						23828.84	0.50%
YRADIAL	276576.5						460.85	0.17%
Ga 417.206	1562617.3						23707.80	1.52%
GaRADIAL	73043.3						1535.08	2.10%
Ag 328.068†	85044.1	0.402	mg/L	0.0082	0.402	mg/L	0.0082	2.05%
QC value within limits for Ag 328.068 Recovery = 100.55%								
Al 396.153†	54070.7	9.96	mg/L	0.070	9.96	mg/L	0.070	0.70%
QC value within limits for Al 396.153 Recovery = 99.64%								
As 188.979†	594.2	0.403	mg/L	0.0059	0.403	mg/L	0.0059	1.46%
QC value within limits for As 188.979 Recovery = 100.65%								
Ba 233.527†	73125.1	1.03	mg/L	0.014	1.03	mg/L	0.014	1.39%
QC value within limits for Ba 233.527 Recovery = 102.86%								
Be 234.861†	38566.2	0.0510	mg/L	0.00112	0.0510	mg/L	0.00112	2.21%
QC value within limits for Be 234.861 Recovery = 101.96%								
B 249.677†	29257.9	0.501	mg/L	0.0119	0.501	mg/L	0.0119	2.38%
QC value within limits for B 249.677 Recovery = 100.17%								
Ca 227.546†	1174.0	10.1	mg/L	0.23	10.1	mg/L	0.23	2.30%
QC value within limits for Ca 227.546 Recovery = 101.48%								
Cd 228.802†	1246.5	0.0512	mg/L	0.00077	0.0512	mg/L	0.00077	1.50%
QC value within limits for Cd 228.802 Recovery = 102.50%								
Co 228.616†	4682.4	0.202	mg/L	0.0008	0.202	mg/L	0.0008	0.40%
QC value within limits for Co 228.616 Recovery = 100.95%								
Cr 267.716†	66655.2	0.516	mg/L	0.0073	0.516	mg/L	0.0073	1.42%
QC value within limits for Cr 267.716 Recovery = 103.26%								
Cu 327.393†	78327.6	0.499	mg/L	0.0106	0.499	mg/L	0.0106	2.12%
QC value within limits for Cu 327.393 Recovery = 99.72%								
Fe 239.562†	2715.9	3.92	mg/L	0.069	3.92	mg/L	0.069	1.77%
QC value within limits for Fe 239.562 Recovery = 98.09%								
Mg 279.077†	9887.4	9.83	mg/L	0.134	9.83	mg/L	0.134	1.36%
QC value within limits for Mg 279.077 Recovery = 98.25%								
Mn 257.610†	252265.1	0.514	mg/L	0.0061	0.514	mg/L	0.0061	1.20%
QC value within limits for Mn 257.610 Recovery = 102.71%								
Mo 202.031†	17420.3	1.03	mg/L	0.012	1.03	mg/L	0.012	1.16%
QC value within limits for Mo 202.031 Recovery = 102.99%								
Ni 231.604†	21836.7	0.516	mg/L	0.0062	0.516	mg/L	0.0062	1.19%
QC value within limits for Ni 231.604 Recovery = 103.25%								
Pb 220.353†	4005.5	0.521	mg/L	0.0026	0.521	mg/L	0.0026	0.49%
QC value within limits for Pb 220.353 Recovery = 104.11%								
Sb 206.836†	2496.8	1.22	mg/L	0.017	1.22	mg/L	0.017	1.43%
QC value within limits for Sb 206.836 Recovery = 101.65%								
Se 196.026†	745.0	0.399	mg/L	0.0112	0.399	mg/L	0.0112	2.81%
QC value within limits for Se 196.026 Recovery = 99.76%								
Si 251.611†	194253.4	4.95	mg/L	0.114	4.95	mg/L	0.114	2.29%
QC value within limits for Si 251.611 Recovery = 99.09%								
Sn 189.927†	7541.2	1.02	mg/L	0.004	1.02	mg/L	0.004	0.41%
QC value within limits for Sn 189.927 Recovery = 102.46%								
Ti 334.940†	829019.9	1.00	mg/L	0.003	1.00	mg/L	0.003	0.34%
QC value within limits for Ti 334.940 Recovery = 100.02%								
Tl 190.801†	1059.2	0.528	mg/L	0.0040	0.528	mg/L	0.0040	0.76%
QC value within limits for Tl 190.801 Recovery = 105.52%								
V 290.880†	168511.6	1.01	mg/L	0.010	1.01	mg/L	0.010	1.01%
QC value within limits for V 290.880 Recovery = 101.19%								
Zn 206.200†	43463.7	1.05	mg/L	0.017	1.05	mg/L	0.017	1.64%

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   QC value within limits for Zn 206.200  Recovery = 105.01%
K 766.490†           135226.0        50.3 mg/L          0.10        50.3 mg/L          0.10   0.21%
   QC value within limits for K 766.490  Recovery = 100.52%
Na 589.592†          701447.5        50.9 mg/L          0.66        50.9 mg/L          0.66   1.29%
   QC value within limits for Na 589.592  Recovery = 101.88%
Sr 407.771†         1709981.9       0.978 mg/L        0.0145       0.978 mg/L        0.0145   1.48%
   QC value within limits for Sr 407.771  Recovery = 97.81%
Li 670.784†           82625.8       0.990 mg/L        0.0034       0.990 mg/L        0.0034   0.35%
   QC value within limits for Li 670.784  Recovery = 98.96%
All analyte(s) passed QC.
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Sequence No.: 127 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 1/13/2011 2:00:41 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:20:51 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4991853.9						21738.07	0.44%
YRADIAL	283329.5						5204.00	1.84%
Ga 417.206	1641138.5						17894.59	1.09%
GaRADIAL	74866.8						2098.45	2.80%
Ag 328.068†	252.5	0.00102	mg/L	0.000289	0.00102	mg/L	0.000289	28.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	6.5	-0.00470	mg/L	0.007065	-0.00470	mg/L	0.007065	150.45%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.5	0.00220	mg/L	0.001438	0.00220	mg/L	0.001438	65.36%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.5	-0.00055	mg/L	0.000006	-0.00055	mg/L	0.000006	1.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	14.8	0.00006	mg/L	0.000026	0.00006	mg/L	0.000026	45.57%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	237.0	0.00409	mg/L	0.000325	0.00409	mg/L	0.000325	7.94%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-9.8	-0.0672	mg/L	0.03630	-0.0672	mg/L	0.03630	54.04%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	7.9	0.00053	mg/L	0.000172	0.00053	mg/L	0.000172	32.54%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated								
Co 228.616†	12.0	0.00049	mg/L	0.000171	0.00049	mg/L	0.000171	35.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-17.2	-0.00040	mg/L	0.000120	-0.00040	mg/L	0.000120	29.98%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	61.8	0.00026	mg/L	0.000651	0.00026	mg/L	0.000651	248.30%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.2	0.00345	mg/L	0.000542	0.00345	mg/L	0.000542	15.72%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	4.5	0.00644	mg/L	0.002440	0.00644	mg/L	0.002440	37.92%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-337.6	-0.00031	mg/L	0.000015	-0.00031	mg/L	0.000015	4.94%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-0.2	0.00008	mg/L	0.000345	0.00008	mg/L	0.000345	431.71%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	31.4	0.00003	mg/L	0.000036	0.00003	mg/L	0.000036	127.68%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	3.1	-0.00006	mg/L	0.000163	-0.00006	mg/L	0.000163	260.61%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.3	-0.00123	mg/L	0.001805	-0.00123	mg/L	0.001805	146.32%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.5	0.00009	mg/L	0.000944	0.00009	mg/L	0.000944	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-104.9	0.00461	mg/L	0.000657	0.00461	mg/L	0.000657	14.27%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	4.2	0.00208	mg/L	0.000546	0.00208	mg/L	0.000546	26.25%

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   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†                1.5     0.00350 mg/L      0.000125     0.00350 mg/L      0.000125   3.58%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.9    -0.00032 mg/L      0.003295    -0.00032 mg/L      0.003295 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†               346.1     0.00388 mg/L      0.000631     0.00388 mg/L      0.000631  16.29%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                0.0     0.00033 mg/L      0.000195     0.00033 mg/L      0.000195  59.10%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†                65.5      0.0296 mg/L       0.05228      0.0296 mg/L       0.05228 176.56%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              256.2     0.00050 mg/L      0.008017     0.00050 mg/L      0.008017 >999.9%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†               27.2    -0.00015 mg/L      0.000036    -0.00015 mg/L      0.000036  23.85%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               70.2     0.00035 mg/L      0.001152     0.00035 mg/L      0.001152 325.66%
   QC value within limits for Li 670.784  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 128 **Autosampler Location: 79**
Sample ID: L1101021101 **Date Collected: 1/13/2011 2:07:20 AM**
Analyst: PDM **Data Type: Reprocessed on 1/13/2011 10:21:02 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1101021101

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: L1101021101

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	12234585.2						117361.58	0.96%
YRADIAL	638326.7						20536.23	3.22%
Ga 417.206	3698962.2						37947.68	1.03%
GaRADIAL	167460.1						973.53	0.58%
Ag 328.068†	433.9	0.00186	mg/L	0.000479	0.00186	mg/L	0.000479	25.73%
Al 396.153†	40.4	0.00157	mg/L	0.003993	0.00157	mg/L	0.003993	254.06%
As 188.979†	4.0	0.00459	mg/L	0.001287	0.00459	mg/L	0.001287	28.04%
Ba 233.527†	35.0	-0.00033	mg/L	0.000031	-0.00033	mg/L	0.000031	9.34%
Be 234.861†	247.7	0.00036	mg/L	0.000017	0.00036	mg/L	0.000017	4.68%
B 249.677†	-11.9	-0.00011	mg/L	0.000121	-0.00011	mg/L	0.000121	110.98%
Ca 227.546†	-9.6	-0.0646	mg/L	0.01859	-0.0646	mg/L	0.01859	28.78%
Cd 228.802†	-7.4	-0.00012	mg/L	0.000048	-0.00012	mg/L	0.000048	38.79%
Co 228.616†	-1.8	-0.00011	mg/L	0.000023	-0.00011	mg/L	0.000023	19.98%
Cr 267.716†	-63.5	-0.00076	mg/L	0.000008	-0.00076	mg/L	0.000008	1.07%
Cu 327.393†	255.6	0.00149	mg/L	0.000058	0.00149	mg/L	0.000058	3.91%
Fe 239.562†	-0.2	0.00288	mg/L	0.001650	0.00288	mg/L	0.001650	57.38%
Mg 279.077†	-4.9	-0.00291	mg/L	0.000984	-0.00291	mg/L	0.000984	33.74%
Mn 257.610†	-384.9	-0.00041	mg/L	0.000007	-0.00041	mg/L	0.000007	1.82%
Mo 202.031†	-0.6	0.00005	mg/L	0.000077	0.00005	mg/L	0.000077	146.61%
Ni 231.604†	83.9	0.00126	mg/L	0.000059	0.00126	mg/L	0.000059	4.63%
Pb 220.353†	-10.4	-0.00180	mg/L	0.000322	-0.00180	mg/L	0.000322	17.87%
Sb 206.836†	-13.9	-0.00487	mg/L	0.000843	-0.00487	mg/L	0.000843	17.33%
Se 196.026†	-18.7	-0.00745	mg/L	0.001371	-0.00745	mg/L	0.001371	18.40%
Si 251.611†	-563.2	-0.00710	mg/L	0.000178	-0.00710	mg/L	0.000178	2.50%
Sn 189.927†	2.6	0.00186	mg/L	0.000199	0.00186	mg/L	0.000199	10.69%
Ti 334.940†	-95.8	0.00338	mg/L	0.000049	0.00338	mg/L	0.000049	1.46%
Tl 190.801†	21.1	0.0104	mg/L	0.00251	0.0104	mg/L	0.00251	24.16%
V 290.880†	-1154.0	-0.00512	mg/L	0.000180	-0.00512	mg/L	0.000180	3.52%
Zn 206.200†	-13.4	0.00000	mg/L	0.000055	0.00000	mg/L	0.000055	>999.9%
K 766.490†	161.4	0.0654	mg/L	0.02726	0.0654	mg/L	0.02726	41.66%
Na 589.592†	-492.8	-0.0542	mg/L	0.00368	-0.0542	mg/L	0.00368	6.79%
Sr 407.771†	-337.9	-0.00036	mg/L	0.000034	-0.00036	mg/L	0.000034	9.40%
Li 670.784†	-310.3	-0.00421	mg/L	0.000149	-0.00421	mg/L	0.000149	3.54%

Sequence No.: 129 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 1/13/2011 2:14:03 AM**

Approved: January 13, 2011
Pierce Morris

Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Data Type: Reprocessed on 1/13/2011 10:21:03 AM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4733636.2						39864.79	0.84%
YRADIAL	273084.0						3169.11	1.16%
Ga 417.206	1561403.9						23835.00	1.53%
GaRADIAL	72298.8						628.13	0.87%
Ag 328.068†	86044.7	0.407	mg/L	0.0101	0.407	mg/L	0.0101	2.47%
QC value within limits for Ag 328.068 Recovery = 101.73%								
Al 396.153†	55093.7	10.2	mg/L	0.06	10.2	mg/L	0.06	0.58%
QC value within limits for Al 396.153 Recovery = 101.52%								
As 188.979†	596.7	0.404	mg/L	0.0043	0.404	mg/L	0.0043	1.06%
QC value within limits for As 188.979 Recovery = 101.07%								
Ba 233.527†	73615.8	1.04	mg/L	0.022	1.04	mg/L	0.022	2.12%
QC value within limits for Ba 233.527 Recovery = 103.55%								
Be 234.861†	38995.5	0.0515	mg/L	0.00132	0.0515	mg/L	0.00132	2.56%
QC value within limits for Be 234.861 Recovery = 103.07%								
B 249.677†	29562.6	0.506	mg/L	0.0130	0.506	mg/L	0.0130	2.58%
QC value within limits for B 249.677 Recovery = 101.21%								
Ca 227.546†	1181.8	10.2	mg/L	0.12	10.2	mg/L	0.12	1.13%
QC value within limits for Ca 227.546 Recovery = 102.18%								
Cd 228.802†	1250.0	0.0514	mg/L	0.00108	0.0514	mg/L	0.00108	2.11%
QC value within limits for Cd 228.802 Recovery = 102.77%								
Co 228.616†	4693.8	0.202	mg/L	0.0016	0.202	mg/L	0.0016	0.79%
QC value within limits for Co 228.616 Recovery = 101.18%								
Cr 267.716†	67009.2	0.519	mg/L	0.0104	0.519	mg/L	0.0104	2.00%
QC value within limits for Cr 267.716 Recovery = 103.81%								
Cu 327.393†	79715.1	0.507	mg/L	0.0135	0.507	mg/L	0.0135	2.66%
QC value within limits for Cu 327.393 Recovery = 101.49%								
Fe 239.562†	2754.8	3.98	mg/L	0.006	3.98	mg/L	0.006	0.14%
QC value within limits for Fe 239.562 Recovery = 99.49%								
Mg 279.077†	10001.7	9.94	mg/L	0.030	9.94	mg/L	0.030	0.30%
QC value within limits for Mg 279.077 Recovery = 99.39%								
Mn 257.610†	254163.3	0.517	mg/L	0.0113	0.517	mg/L	0.0113	2.18%
QC value within limits for Mn 257.610 Recovery = 103.48%								
Mo 202.031†	17555.1	1.04	mg/L	0.022	1.04	mg/L	0.022	2.07%
QC value within limits for Mo 202.031 Recovery = 103.79%								
Ni 231.604†	22069.1	0.522	mg/L	0.0117	0.522	mg/L	0.0117	2.23%
QC value within limits for Ni 231.604 Recovery = 104.35%								
Pb 220.353†	4004.3	0.520	mg/L	0.0033	0.520	mg/L	0.0033	0.63%
QC value within limits for Pb 220.353 Recovery = 104.09%								
Sb 206.836†	2512.4	1.23	mg/L	0.023	1.23	mg/L	0.023	1.85%
QC value within limits for Sb 206.836 Recovery = 102.28%								
Se 196.026†	744.3	0.399	mg/L	0.0077	0.399	mg/L	0.0077	1.93%
QC value within limits for Se 196.026 Recovery = 99.67%								
Si 251.611†	196336.0	5.01	mg/L	0.131	5.01	mg/L	0.131	2.61%
QC value within limits for Si 251.611 Recovery = 100.15%								
Sn 189.927†	7547.7	1.03	mg/L	0.008	1.03	mg/L	0.008	0.74%
QC value within limits for Sn 189.927 Recovery = 102.55%								
Ti 334.940†	841688.3	1.02	mg/L	0.002	1.02	mg/L	0.002	0.17%
QC value within limits for Ti 334.940 Recovery = 101.54%								
Tl 190.801†	1057.7	0.527	mg/L	0.0023	0.527	mg/L	0.0023	0.44%
QC value within limits for Tl 190.801 Recovery = 105.41%								
V 290.880†	169915.0	1.02	mg/L	0.024	1.02	mg/L	0.024	2.33%
QC value within limits for V 290.880 Recovery = 102.04%								
Zn 206.200†	43579.8	1.05	mg/L	0.022	1.05	mg/L	0.022	2.10%
QC value within limits for Zn 206.200 Recovery = 105.29%								
K 766.490†	137938.8	51.3	mg/L	0.29	51.3	mg/L	0.29	0.56%
QC value within limits for K 766.490 Recovery = 102.53%								
Na 589.592†	711873.4	51.7	mg/L	0.63	51.7	mg/L	0.63	1.22%
QC value within limits for Na 589.592 Recovery = 103.38%								
Sr 407.771†	1745199.8	0.998	mg/L	0.0115	0.998	mg/L	0.0115	1.15%

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QC value within limits for Sr 407.771 Recovery = 99.82%
Li 670.784† 84090.1 1.01 mg/L 0.010 1.01 mg/L 0.010 0.99%
QC value within limits for Li 670.784 Recovery = 100.71%
All analyte(s) passed QC.

Sequence No.: 130 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 1/13/2011 2:20:40 AM**
Analyst: **Data Type: Reprocessed on 1/13/2011 10:21:05 AM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5008940.5						22248.77	0.44%
YRADIAL	281430.4						2192.53	0.78%
Ga 417.206	1652701.7						20496.15	1.24%
GaRADIAL	73870.8						956.71	1.30%
Ag 328.068†	317.8	0.00133	mg/L	0.000159	0.00133	mg/L	0.000159	11.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	34.2	0.00042	mg/L	0.012786	0.00042	mg/L	0.012786	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.7	0.00071	mg/L	0.002863	0.00071	mg/L	0.002863	403.41%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	14.4	-0.00059	mg/L	0.000035	-0.00059	mg/L	0.000035	5.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	0.9	0.00004	mg/L	0.000008	0.00004	mg/L	0.000008	20.81%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	325.7	0.00560	mg/L	0.000356	0.00560	mg/L	0.000356	6.36%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-6.6	-0.0413	mg/L	0.05297	-0.0413	mg/L	0.05297	128.22%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	3.0	0.00033	mg/L	0.000158	0.00033	mg/L	0.000158	47.29%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	9.8	0.00039	mg/L	0.000114	0.00039	mg/L	0.000114	29.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-9.3	-0.00034	mg/L	0.000091	-0.00034	mg/L	0.000091	26.75%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	102.1	0.00052	mg/L	0.000575	0.00052	mg/L	0.000575	110.80%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.6	0.00544	mg/L	0.006684	0.00544	mg/L	0.006684	122.88%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	1.2	0.00316	mg/L	0.006583	0.00316	mg/L	0.006583	208.24%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-341.2	-0.00031	mg/L	0.000007	-0.00031	mg/L	0.000007	2.17%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	4.9	0.00038	mg/L	0.000400	0.00038	mg/L	0.000400	105.07%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	27.8	-0.00006	mg/L	0.000140	-0.00006	mg/L	0.000140	231.83%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	0.8	-0.00036	mg/L	0.000360	-0.00036	mg/L	0.000360	100.95%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.2	-0.00115	mg/L	0.001423	-0.00115	mg/L	0.001423	124.25%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-6.1	-0.00075	mg/L	0.004046	-0.00075	mg/L	0.004046	536.56%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-183.5	0.00259	mg/L	0.000418	0.00259	mg/L	0.000418	16.13%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	10.9	0.00299	mg/L	0.000331	0.00299	mg/L	0.000331	11.09%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	206.0	0.00375	mg/L	0.000128	0.00375	mg/L	0.000128	3.41%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	8.6	0.00431	mg/L	0.000479	0.00431	mg/L	0.000479	11.10%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	446.4	0.00448	mg/L	0.000933	0.00448	mg/L	0.000933	20.85%

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```
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†                6.3     0.00048 mg/L      0.000045     0.00048 mg/L      0.000045   9.27%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               163.3      0.0661 mg/L       0.05259      0.0661 mg/L       0.05259  79.56%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†              320.2     0.00518 mg/L      0.002081     0.00518 mg/L      0.002081  40.20%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              -11.9    -0.00017 mg/L      0.000064    -0.00017 mg/L      0.000064  36.76%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              136.6     0.00115 mg/L      0.001160     0.00115 mg/L      0.001160 100.93%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

Approved: January 13, 2011

Pierce Morris

2.3.2 Metals ICP-MS Data

2.3.2.1 Summary Data

Login Number: L11010116

Department: Metals

Analyst: Ji Hu

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG353355 - All acceptance criteria were met.All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 19161
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	6020	1	06-JAN-11

Microbac Laboratories Inc.

Report Number: **L11010116**

Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353355**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **01/07/2011 06:10**
Cal Date: **01/07/2011 10:12**
Run Date: **01/07/2011 14:58**
File ID: **EL.010711.145855**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Selenium, Total	7782-49-2	0.00573		0.00100	0.000500

2.3.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG353345
Analyst: VC
Spike Analyst: VC
Run Date: 01/07/2011 06:10
Method: 3015

SOP: ME407 Revison 11
Spike Solution: STD41894
Spike Witness: REK
Digestion Tubes Lot #: COA15103
HNO3 Lot #: COA15089

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG353345-04	BLANK	1	40 mL	100 mL	206.377 g	206.368 g		
2	WG353345-05	LCS	1	40 mL	100 mL	205.519 g	205.508 g	.25 mL	
3	L11010108-01	SAMP	1	40 mL	100 mL	207.866 g	207.842 g		01/11/11
4	WG353345-01	REF	1	40 mL	100 mL	206.688 g	206.671 g		
5	L11010116-01	SAMP	1	40 mL	100 mL	206.688 g	206.671 g		01/17/11
6	WG353345-02	REF	2	40 mL	100 mL	208.292 g	208.277 g		
7	L11010129-01	SAMP	2	40 mL	100 mL	208.292 g	208.277 g		01/17/11
8	WG353345-03	REF	2	40 mL	100 mL	206.324 g	206.307 g		
9	L11010129-02	SAMP	2	40 mL	100 mL	206.324 g	206.307 g		01/17/11
10	WG353345-06	MS	1	40 mL	100 mL	206.221 g	206.206 g	.25 mL	
11	WG353345-07	MSD	1	40 mL	100 mL	206.399 g	206.39 g	.25 mL	
12	WG353345-08	MS	1	40 mL	100 mL	206.058 g	206.041 g	.25 mL	
13	WG353345-09	DUP	1	40 mL	100 mL	206.542 g	206.527 g		

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 09/30/2009
PDF ID: 1886712
Report generated: 01/07/2011 07:07

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP
Dataset: 010711A.REP
Analyst1: JYH
Analyst2: N/A
Method: 6020
SOP: ME700
Rev: 6
Maintenance Log ID: 36035

Calibration Std: STD43302
ICV Std: STD43125
Post Spike: STD42704
ICSA: STD43123
ICSAB: STD43124
Int. Std: STD43303
CCV: STD43109
LLCCV: STD43122

Workgroups: 353319,353318,353355

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.010711.094520	Blank	Blank		1		01/07/11 09:45
2	EL.010711.095204	WG353447-01	Calibration Point		1		01/07/11 09:52
3	EL.010711.095849	WG353447-02	Calibration Point		1		01/07/11 09:58
4	EL.010711.100534	WG353447-03	Calibration Point		1		01/07/11 10:05
5	EL.010711.101221	WG353447-04	Calibration Point		1		01/07/11 10:12
6	EL.010711.101906	WG353447-05	Initial Calibration Verification		1		01/07/11 10:19
7	EL.010711.102630	WG353447-06	Initial Calib Blank		1		01/07/11 10:26
8	EL.010711.103317	WG353447-07	Low Level Initial Calibration V		1		01/07/11 10:33
9	EL.010711.104006	WG353447-08	Interference Check		1		01/07/11 10:40
10	EL.010711.104654	WG353447-09	Interference Check		1		01/07/11 10:46
11	EL.010711.105341	WG353447-10	CCV		1		01/07/11 10:53
12	EL.010711.110047	WG353447-11	CCB		1		01/07/11 11:00
13	EL.010711.110731	WG353259-02	Method/Prep Blank	40/100	1		01/07/11 11:07
14	EL.010711.111416	WG353259-03	Laboratory Control S	40/100	1		01/07/11 11:14
15	EL.010711.112101	L11010048-06	LF4MW02A-110104	40/100	5		01/07/11 11:21
16	EL.010711.112746	WG353259-01	Reference Sample		5	L11010048-07	01/07/11 11:27
17	EL.010711.113432	WG353259-04	Matrix Spike	40/100	5	L11010048-07	01/07/11 11:34
18	EL.010711.114118	WG353259-05	Matrix Spike Duplica	40/100	5	L11010048-07	01/07/11 11:41
19	EL.010711.114804	L11010048-10	W04-3-110104	40/100	5		01/07/11 11:48
20	EL.010711.120151	L11010048-11	DUP-01-110104	40/100	5		01/07/11 12:01
21	EL.010711.120838	WG353319-01	Post Digestion Spike		5	L11010048-11	01/07/11 12:08
22	EL.010711.121525	WG353319-02	Serial Dilution		25	L11010048-11	01/07/11 12:15
23	EL.010711.122212	WG353447-12	CCV		1		01/07/11 12:22
24	EL.010711.122918	WG353447-13	CCB		1		01/07/11 12:29
25	EL.010711.123604	WG353233-02	Method/Prep Blank	.5/200	1		01/07/11 12:36
26	EL.010711.124250	WG353233-03	Laboratory Control S	.5/200	1		01/07/11 12:42
27	EL.010711.124935	WG353233-01	Reference Sample		5	L11010078-03	01/07/11 12:49
28	EL.010711.125620	WG353233-04	Matrix Spike	.514/200	5	L11010078-03	01/07/11 12:56
29	EL.010711.130305	WG353233-05	Matrix Spike Duplica	.513/200	5	L11010078-03	01/07/11 13:03
30	EL.010711.130951	L10120873-21	0922-682A-C-021	.522/200	5		01/07/11 13:09
31	EL.010711.131637	L10120873-22	0922-682A-C-022	.508/200	5		01/07/11 13:16
32	EL.010711.132323	WG353318-01	Post Digestion Spike		5	L10120873-22	01/07/11 13:23
33	EL.010711.133010	WG353318-01	Post Digestion Spike		25	L10120873-22	01/07/11 13:30
34	EL.010711.133657	WG353447-14	CCV		1		01/07/11 13:36

Page: 1 Approved: January 11, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP
Dataset: 010711A.REP
Analyst1: JYH
Analyst2: N/A
Method: 6020
SOP: ME700
Rev: 6
Maintenance Log ID: 36035

Calibration Std: STD43302
ICV Std: STD43125
Post Spike: STD42704
ICSA: STD43123
ICSAB: STD43124
Int. Std: STD43303
CCV: STD43109
LLCCV: STD43122

Workgroups: 353319,353318,353355

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.010711.134403	WG353447-15	CCB		1		01/07/11 13:44
36	EL.010711.135048	L11010074-01	SAMPLE \#1	.515/200	5		01/07/11 13:50
37	EL.010711.135736	L11010075-01	SAMPLE \#1	.501/200	5		01/07/11 13:57
38	EL.010711.140424	L11010076-01	SAMPLE \#2	.503/200	5		01/07/11 14:04
39	EL.010711.141112	L11010077-01	SAMPLE \#3	.513/200	5		01/07/11 14:11
40	EL.010711.141758	L11010078-01	SAMPLE \# 2	.505/200	5		01/07/11 14:17
41	EL.010711.142444	WG353447-16	CCV		1		01/07/11 14:24
42	EL.010711.143150	WG353447-17	CCB		1		01/07/11 14:31
43	EL.010711.143837	WG353447-18	Low Level Continuing Calibra		1		01/07/11 14:38
44	EL.010711.144524	WG353345-04	Method/Prep Blank	40/100	1		01/07/11 14:45
45	EL.010711.145210	WG353345-05	Laboratory Control S	40/100	1		01/07/11 14:52
46	EL.010711.145855	L11010116-01	HTA-IDW-001-0111		1	WG353345-01	01/07/11 14:58
47	EL.010711.150541	WG353345-06	Matrix Spike	40/100	1	L11010116-01	01/07/11 15:05
48	EL.010711.151228	WG353345-07	Matrix Spike Duplica	40/100	1	L11010116-01	01/07/11 15:12
49	EL.010711.151914	L11010108-01	AV-NCB-EB1-010511	40/100	1		01/07/11 15:19
50	EL.010711.152601	WG353355-01	Post Digestion Spike		1	L11010108-01	01/07/11 15:26
51	EL.010711.153249	WG353355-02	Serial Dilution		5	L11010108-01	01/07/11 15:32
52	EL.010711.153936	WG353447-19	CCV		1		01/07/11 15:39
53	EL.010711.154642	WG353447-20	CCB		1		01/07/11 15:46
54	EL.010711.155328	L11010129-01	GN110001		1	WG353345-02	01/07/11 15:53
55	EL.010711.160016	WG353345-08	Matrix Spike	40/100	1	L11010129-01	01/07/11 16:00
56	EL.010711.160704	L11010129-02	GN110002		1	WG353345-03	01/07/11 16:07
57	EL.010711.161351	WG353345-09	Duplicate	40/100	1	L11010129-02	01/07/11 16:13
58	EL.010711.162037	WG353447-21	CCV		1		01/07/11 16:20
59	EL.010711.162743	WG353447-22	CCB		1		01/07/11 16:27
60	EL.010711.163430	WG353447-23	QC Std 8		1		01/07/11 16:34

Page: 2 Approved: January 11, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 07-JAN-2011
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 353447
Runlog ID: 38440
Analytical Workgroups: 353319,353318,353355

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	048,873,074,075,076,077,078,108
	116,129
Client Forms	X
Level X	
Level 3	
Level 4	048,873,108,116
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
11-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-11-2011 15:24:42

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG353355

Login Number: L11010116

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
HTA-IDW-001-0111	01	01/05/11					01/07/11	1.9	180		01/07/11	2.3	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1889076
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: EL.010711.144524
Prep Date: 01/07/11 06:10
Analyzed Date: 01/07/11 14:45
Analyst: JYH

Work Group: WG353355
Blank Sample ID: WG353345-04
Instrument ID: ELAN-ICP
Method: 6020

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353345-05	EL.010711.145210	01/07/11 14:52	01
HTA-IDW-001-0111	L11010116-01	EL.010711.145855	01/07/11 14:58	01
DUP	WG353345-09	EL.010711.161351	01/07/11 16:13	01

Report Name: BLANK_SUMMARY
PDF File ID: 1889077
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 06:10 Sample ID: WG353345-04
Instrument ID: ELAN-ICP Run Date: 01/07/11 14:45 Prep Method: 3015
File ID: EL.010711.144524 Analyst: JYH Method: 6020
Workgroup (AAB#): WG353355 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-07-JAN-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Selenium, Total	0.000500	0.00100	0.000500	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1889078
11-JAN-2011 09:17

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353345-05
Instrument ID: ELAN-ICP Run Time: 14:52 Prep Method: 3015
File ID: EL.010711.145210 Analyst: JYH Method: 6020
Workgroup (AAB#): WG353355 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-07-JAN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Selenium, Total	0.0625	0.0629	101	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1889079
Report generated: 01/11/2011 09:17

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L11010116 Cal ID: ELAN-ICP- Worknum: WG353355
Instrument ID: ELAN-ICP Contract #: Method: 6020
Parent ID: WG353345-01 File ID: EL.010711.145855 Dil: 1 Matrix: WATER
Sample ID: WG353345-06 MS File ID: EL.010711.150541 Dil: 1 Units: mg/L
Sample ID: WG353345-07 MSD File ID: EL.010711.151228 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Selenium, Total	0.00573	0.0625	0.0585	84.4	0.0625	0.0588	84.9	0.518	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID: 1889080
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11010116 **Worknum:** WG353355
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG353355-02 **File ID:** EL.010711.153249 **Dil:** 5 **Units:** ug/L
Sample: L11010108-01 **File ID:** EL.010711.151914 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Selenium	ND	U	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1889074
01/11/2011 09:17

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11010116 **Worknum:** WG353355
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG353355-01 **File ID:** EL.010711.152601 **Dil:** 1 **Units:** ug/L
Sample ID: L11010108-01 **File ID:** EL.010711.151914 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
SELENIUM	44.0		0	U	50	88.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1889075
Report generated: 01/11/2011 09:17

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11010116**	Workgroup (AAB#):	**WG353355**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG353447**	Initial Calibration Date:	**07-JAN-2011 10:12**

	WG353447-01		WG353447-02		WG353447-03		WG353447-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
SELENIUM	0	-9.00	.4	69.4	50	6910	100	12900	.999897	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1889084
Report generated: 11-JAN-2011 09:17

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-06
Instrument ID: ELAN-ICP
Run Time: 10:26
Method: 6020
File ID: EL.010711.102630
Analyst: JYH
Units: ug/L
Workgroup (AAB#): WG353355
Cal ID: ELAN-ICP - 07-JAN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
SELENIUM	.2	.4	.2	U

U = Result is less than 2 x MDL

F = Result is between MDL and 2 x MDL

* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1889086
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-11
Instrument ID: ELAN-ICP
Run Time: 11:00
Method: 6020
File ID: EL.010711.110047
Analyst: JYH
Units: ug/L
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Selenium	0.200	0.400	0.200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1889089
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-17
Instrument ID: ELAN-ICP
Run Time: 14:31
Method: 6020
File ID: EL.010711.143150
Analyst: JYH
Units: ug/L
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Selenium	0.200	0.400	0.200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1889089
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-20
Instrument ID: ELAN-ICP
Run Time: 15:46
Method: 6020
File ID: EL.010711.154642
Analyst: JYH
Units: ug/L
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Selenium	0.200	0.400	0.200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1889089
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11010116 Run Date: 01/07/2011 Sample ID: WG353447-05
Instrument ID: ELAN-ICP Run Time: 10:19 Method: 6020
File ID: EL.010711.101906 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG353355 Cal ID: ELAN-I - 07-JAN-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Selenium		50	51.5	103	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1889085
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Instrument ID: ELAN-ICP
File ID: EL.010711.105341
Workgroup (AAB#): WG353355
Matrix: WATER

Run Date: 01/07/2011
Run Time: 10:53
Analyst: JYH
Cal ID: ELAN-I - 07-JAN-11

Sample ID: WG353447-10
Method: 6020
QC Key: DOD4

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Selenium		50.0	50.5	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1889088
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-16
Instrument ID: ELAN-ICP
Run Time: 14:24
Method: 6020
File ID: EL.010711.142444
Analyst: JYH
QC Key: DOD4
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Selenium		50.0	50.4	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1889088
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-19
Instrument ID: ELAN-ICP
Run Time: 15:39
Method: 6020
File ID: EL.010711.153936
Analyst: JYH
QC Key: DOD4
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Selenium		50.0	50.7	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1889088
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-07
Instrument ID: ELAN-ICP
Run Time: 10:33
Method: 6020
File ID: EL.010711.103317
Analyst: JYH
QC Key: DOD4
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Selenium		0.400	0.350	ug/L	87.4	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1889090
Report generated 01/11/2011 09:18

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11010116
Run Date: 01/07/2011
Sample ID: WG353447-18
Instrument ID: ELAN-ICP
Run Time: 14:38
Method: 6020
File ID: EL.010711.143837
Analyst: JYH
QC Key: DOD4
Workgroup (AAB#): WG353355
Cal ID: ELAN-I - 07-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Selenium		0.400	0.326	ug/L	81.4	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1889090
Report generated 01/11/2011 09:18

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11010116
Instrument ID: ELAN-ICP
Sol. A : WG353447-08 **File ID:** EL.010711.104006
Sol. AB : WG353447-09 **File ID:** EL.010711.104654

Workgroup (AAB#): WG353355
Method: 6020
Units: ug/L
Matrix: Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Selenium	NS	-0.102	NS	100	95.5	95.5	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1889087
Report generated 01/11/2011 09:17

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11010116 **Analytical Method:** 6020
Analytical Workgroup: WG353355 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 07-JAN-2011 09:52

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11010108-01	SAMP	07-JAN-2011 15:19	94.94	91.687	86.813	92.141
L11010116-01	SAMP	07-JAN-2011 14:58	89.667	92.965	86.446	90.386
WG353345-01	REF	07-JAN-2011 14:58	89.667	92.965	86.446	90.386
WG353345-02	REF	07-JAN-2011 15:53	92.502	91.225	86.274	90.528
WG353345-03	REF	07-JAN-2011 16:07	102.235	97.341	92.964	97.821
WG353345-04	BLANK	07-JAN-2011 14:45	98.157	97.779	95.303	95.765
WG353345-05	LCS	07-JAN-2011 14:52	98.084	99.03	94.493	96.026
WG353345-06	MS	07-JAN-2011 15:05	88.354	89.337	82.972	89.583
WG353345-07	MSD	07-JAN-2011 15:12	92.594	92.633	85.373	92.788
WG353345-08	MS	07-JAN-2011 16:00	94.042	93.628	87.337	92.182
WG353345-09	DUP	07-JAN-2011 16:13	98.741	95.856	90.111	94.603
WG353355-01	PSPK	07-JAN-2011 15:26	94.096	89.369	85.972	92.352
WG353355-02	SERIAL	07-JAN-2011 15:32	94.894	91.19	85.793	89.682
WG353447-05	ICV	07-JAN-2011 10:19	98.518	101.034	97.063	97.264
WG353447-06	ICB	07-JAN-2011 10:26	99.964	99.34	97.081	97.813
WG353447-07	LLICV	07-JAN-2011 10:33	102.444	101.671	98.334	99.149
WG353447-08	ICS	07-JAN-2011 10:40	96.304	96.834	93.708	93.418
WG353447-09	ICS	07-JAN-2011 10:46	96.832	98.696	92.684	95.034
WG353447-10	CCV	07-JAN-2011 10:53	100.214	100.598	96.456	97.601
WG353447-11	CCB	07-JAN-2011 11:00	101.012	101.059	98.22	98.592
WG353447-16	CCV	07-JAN-2011 14:24	96.177	97.344	92.044	93.361
WG353447-17	CCB	07-JAN-2011 14:31	97.844	98.655	92.402	95.044
WG353447-18	LLCCV	07-JAN-2011 14:38	97.538	98.871	94.444	95.475
WG353447-19	CCV	07-JAN-2011 15:39	93.166	91.568	86.447	88.424
WG353447-20	CCB	07-JAN-2011 15:46	96.077	92.258	87.496	90.725
WG353447-21	CCV	07-JAN-2011 16:20	101.084	99.632	92.641	96.156
WG353447-22	CCB	07-JAN-2011 16:27	102.098	98.089	92.721	96.222

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1889091
Report generated: 01/11/2011 09:17

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11010116 **Date:** 12/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1889081
Report generated: 01/11/2011 09:17

2.3.2.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Friday, January 07, 2011 09:03:47

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.977	620	2060	0.732	
Li	7.016	7.029	1586	2060	0.705	
Co	58.933	58.929	14277	1972	0.713	
Ce	139.905	139.929	34003	2015	0.717	
Tl	204.975	205.027	49701	2255	0.705	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.903
3.000	1.397
4.000	38.131
5.000	6.340
6.000	1.444
7.000	0.719
8.000	29.080
9.000	2.965
58.000	1.659
59.000	0.729
60.000	20.680
139.000	2.143
140.000	0.260
141.000	4.926
204.000	1.608
205.000	1.360
206.000	1.113

Report Date/Time: Friday, January 07, 2011 09:04:58
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Approved: January 11, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, January 07, 2011 09:07:23
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\010411\Sample.130
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	81423.8	81423.766	681.853	0.8
	Rh	102.9	501028.5	501028.456	4426.337	0.9
	In	114.9	739785.4	739785.410	3174.930	0.4
	Pb	208.0	277525.4	277525.448	3370.053	1.2
	U	238.1	19.9	19.900	3.417	17.2
⌈>	Ba	137.9	385916.5	385916.462	1460.147	0.4
⌊	Ba++	69.0	6826.6	0.018	0.000	1.1
⌈>	Ce	139.9	490020.4	490020.401	2465.237	0.5
⌊	CeO	155.9	16226.0	0.033	0.001	3.0
	Bkgd	220.0	8.4	8.400	1.387	16.5
	Ar2	79.9	5903793.6	5903793.616	75936.082	1.3

Current Optimization File Data

Current Value	Description
1.03	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1806.25	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.0	4423.6
Co	59	33	7.8	114052.0
Rh	103	33	9.3	108080.6
Pb	208	33	10.3	136221.9

Approved: January 11, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, January 07, 2011 09:11:15
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\010411\Sample.131
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	75008.7	75008.688	777.458	1.0
	Rh	102.9	497989.7	497989.688	4170.837	0.8
	In	114.9	699735.2	699735.239	5110.506	0.7
	Pb	208.0	237427.3	237427.322	282.356	0.1
	U	238.1	22.2	22.200	0.447	2.0
⌈>	Ba	137.9	359614.1	359614.058	2729.815	0.8
⌊	Ba++	69.0	6231.9	0.017	0.000	1.7
⌈>	Ce	139.9	457793.3	457793.304	2040.137	0.4
⌊	CeO	155.9	11713.3	0.026	0.000	1.3
	Bkgd	220.0	8.9	8.900	2.793	31.4
	Ar2	79.9	6050638.4	6050638.421	52076.849	0.9

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1806.25	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.0	4423.6
Co	59	33	7.8	114052.0
Rh	103	33	9.3	108080.6
Pb	208	33	10.3	136221.9

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, January 07, 2011 09:45:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28089.529					ug/L
	Be	9	4.667					ug/L
	Al	27	2950.439					ug/L
>	Sc	45	320474.674					ug/L
	Ti	49	40.004					ug/L
	V	51	3932.908					ug/L
	Cr	52	12577.364					ug/L
	Cr	53	326.705					ug/L
	Mn	55	398.345					ug/L
	Co	59	96.668					ug/L
	Ni	60	38.334					ug/L
	Cu	65	183.670					ug/L
	Zn	66	405.346					ug/L
>	Ge	72	595359.565					ug/L
	As	75	-202.751					ug/L
	Se	77	85.334					ug/L
	Se	82	10.702					ug/L
	Rb	85	24.334					mg/L
	Y	89	417877.014					ug/L
	Rh	103	15.000					ug/L
	Mo	98	16.096					ug/L
	Ag	107	19.667					ug/L
	Cd	114	11.879					ug/L
>	In	115	448176.955					ug/L
	Sn	118	130.668					ug/L
	Sb	123	29.285					ug/L
	Ba	135	19.334					ug/L
	Ce	140	20.002					ug/L
>	Tb	159	573133.333					ug/L
	Ho	165	16.668					ug/L
	Tl	203	15.667					ug/L
	Tl	205	20.002					ug/L
	Pb	206	416.346					ug/L
	Pb	207	354.677					ug/L
	Pb	208	1642.403					ug/L
	U	238	14.000					ug/L
>	Bi	209	502789.957					ug/L

Sample ID: Blank
Report Date/Time: Friday, January 07, 2011 09:47:31
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Approved: January 11, 2011

⌈	Na	23	19384.112	mg/L
|	Mg	24	220.025	mg/L
|	K	39	500771.271	mg/L
|	Ca	43	286.699	mg/L
|	Fe	54	70985.868	mg/L
|	Fe	57	9422.051	mg/L
⌊>	Sc-1	45	320474.674	mg/L
	Cl	35	17468.592	mg/L
	Kr	83	72.668	mg/L
	Br	81	12268.860	mg/L
	P	31	13055.227	mg/L
	S	34	196704.160	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Friday, January 07, 2011 09:47:31
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, January 07, 2011 09:47:31
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, January 07, 2011 09:52:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29476.721	-0.00				ug/L
	Be	9	8.000	0.00				ug/L
	Al	27	2817.069	-0.00				ug/L
>	Sc	45	339535.461	339535.46				ug/L
	Ti	49	40.004	-0.00				ug/L
	V	51	3781.906	-0.00				ug/L
	Cr	52	12221.253	-0.00				ug/L
	Cr	53	343.374	0.00				ug/L
	Mn	55	414.013	0.00				ug/L
	Co	59	98.001	-0.00				ug/L
	Ni	60	31.000	-0.00				ug/L
	Cu	65	176.003	-0.00				ug/L
	Zn	66	449.348	0.00				ug/L
>	Ge	72	606069.781	606069.78				ug/L
	As	75	-290.842	-0.00				ug/L
	Se	77	78.000	-0.00				ug/L
	Se	82	-9.000	-0.00				ug/L
	Rb	85	21.667	-0.00				mg/L
	Y	89	415730.839	-2146.17				ug/L
	Rh	103	9.333	-5.67				ug/L
	Mo	98	8.424	-0.00				ug/L
	Ag	107	19.667	0.00				ug/L
	Cd	114	0.619	-0.00				ug/L
>	In	115	442662.019	442662.02				ug/L
	Sn	118	128.134	-0.00				ug/L
	Sb	123	23.119	-0.00				ug/L
	Ba	135	19.000	-0.00				ug/L
	Ce	140	20.002	-0.00				ug/L
>	Tb	159	577981.599	577981.60				ug/L
	Ho	165	10.001	-0.00				ug/L
	Tl	203	13.000	-0.00				ug/L
	Tl	205	20.002	-0.00				ug/L
	Pb	206	413.679	-0.00				ug/L
	Pb	207	336.342	-0.00				ug/L
	Pb	208	1645.071	-0.00				ug/L
	U	238	10.333	-0.00				ug/L
>	Bi	209	513264.925	513264.93				ug/L

Sample ID: Standard 1
Report Date/Time: Friday, January 07, 2011 09:54:15
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Na	23	19060.106	-0.00		mg/L
Mg	24	206.690	-0.00		mg/L
K	39	496934.052	-0.10		mg/L
Ca	43	280.032	-0.00		mg/L
Fe	54	72745.345	-0.01		mg/L
Fe	57	9909.231	-0.00		mg/L
Sc-1	45	339535.461	339535.46		mg/L
Cl	35	16992.432	-476.16		mg/L
Kr	83	76.668	4.00		mg/L
Br	81	12274.870	6.01		mg/L
P	31	15568.129	2512.90		mg/L
S	34	196655.421	-48.74		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 1
Report Date/Time: Friday, January 07, 2011 09:54:15
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, January 07, 2011 09:54:15
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, January 07, 2011 09:58:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29677.635	-0.00				ug/L
	Be	9	183.335	0.00				ug/L
	Al	27	5501.530	0.01				ug/L
>	Sc	45	343322.503	343322.50				ug/L
	Ti	49	773.441	0.00				ug/L
	V	51	9406.307	0.01				ug/L
	Cr	52	17226.998	0.01				ug/L
	Cr	53	756.771	0.00				ug/L
	Mn	55	7618.978	0.01				ug/L
	Co	59	5889.126	0.01				ug/L
	Ni	60	1234.089	0.00				ug/L
	Cu	65	1481.458	0.00				ug/L
	Zn	66	1257.094	0.00				ug/L
>	Ge	72	601654.893	601654.89				ug/L
	As	75	343.815	0.00				ug/L
	Se	77	150.001	0.00				ug/L
	Se	82	69.425	0.00				ug/L
	Rb	85	51.667	0.00				mg/L
	Y	89	412389.019	-5487.99				ug/L
	Rh	103	11.000	-4.00				ug/L
	Mo	98	2654.918	0.01				ug/L
	Ag	107	2557.353	0.01				ug/L
	Cd	114	574.177	0.00				ug/L
>	In	115	441716.360	441716.36				ug/L
	Sn	118	2064.880	0.00				ug/L
	Sb	123	1650.437	0.00				ug/L
	Ba	135	833.710	0.00				ug/L
	Ce	140	30.003	0.00				ug/L
>	Tb	159	570074.176	570074.18				ug/L
	Ho	165	26.669	0.00				ug/L
	Tl	203	3343.592	0.01				ug/L
	Tl	205	8170.827	0.02				ug/L
	Pb	206	3115.517	0.01				ug/L
	Pb	207	2849.435	0.00				ug/L
	Pb	208	12847.054	0.02				ug/L
	U	238	16214.969	0.03				ug/L
>	Bi	209	514110.055	514110.06				ug/L

Sample ID: Standard 2
Report Date/Time: Friday, January 07, 2011 10:01:00
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⌈	Na	23	310355.720	0.85	mg/L
|	Mg	24	188720.011	0.55	mg/L
|	K	39	972870.867	1.27	mg/L
|	Ca	43	1276.876	0.00	mg/L
|	Fe	54	105887.194	0.09	mg/L
|	Fe	57	25013.758	0.04	mg/L
⌊>	Sc-1	45	343322.503	343322.50	mg/L
	Cl	35	17320.997	-147.60	mg/L
	Kr	83	66.334	-6.33	mg/L
	Br	81	12613.298	344.44	mg/L
	P	31	14081.920	1026.69	mg/L
	S	34	207751.624	11047.46	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
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Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, January 07, 2011 10:05:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28607.587	0.00				ug/L
	Be	9	18900.512	0.06	50.0000	1.332	2.664	ug/L
	Al	27	357172.778	1.09	50.0000	3.450	6.900	ug/L
>	Sc	45	324276.686	324276.69				ug/L
	Ti	49	78417.533	0.13	100.0000	1.839	1.839	ug/L
	V	51	636525.728	1.07	50.0000	1.054	2.108	ug/L
	Cr	52	550950.662	0.91	50.0000	0.407	0.813	ug/L
	Cr	53	63742.254	0.11	50.0000	1.340	2.680	ug/L
	Mn	55	850191.391	1.44	50.0000	1.183	2.366	ug/L
	Co	59	677150.669	1.14	50.0000	0.646	1.292	ug/L
	Ni	60	142867.294	0.24	50.0000	1.458	2.916	ug/L
	Cu	65	145605.031	0.25	50.0000	1.148	2.296	ug/L
	Zn	66	82929.673	0.14	50.0000	1.143	2.286	ug/L
>	Ge	72	591893.918	591893.92				ug/L
	As	75	71532.481	0.12	50.0000	1.066	2.132	ug/L
	Se	77	5581.558	0.01	50.0000	1.129	2.258	ug/L
	Se	82	6905.195	0.01	50.0000	1.296	2.591	ug/L
	Rb	85	2958.801	0.00				mg/L
	Y	89	404374.769	-13502.24				ug/L
	Rh	103	36.334	21.33				ug/L
	Mo	98	327708.844	0.76	100.0000	0.720	0.720	ug/L
	Ag	107	307677.921	0.71	50.0000	0.861	1.722	ug/L
	Cd	114	69839.146	0.16	50.0000	0.305	0.610	ug/L
>	In	115	432027.299	432027.30				ug/L
	Sn	118	241303.997	0.56	50.0000	0.215	0.431	ug/L
	Sb	123	212039.781	0.49	50.0000	0.190	0.380	ug/L
	Ba	135	94643.075	0.17	50.0000	0.780	1.559	ug/L
	Ce	140	83.342	0.00				ug/L
>	Tb	159	558340.224	558340.22				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	392804.237	0.80	50.0000	0.446	0.892	ug/L
	Tl	205	948128.608	1.92	50.0000	0.833	1.665	ug/L
	Pb	206	314173.037	0.64	50.0000	0.554	1.108	ug/L
	Pb	207	295535.422	0.60	50.0000	0.806	1.611	ug/L
	Pb	208	1310754.722	2.65	50.0000	0.523	1.045	ug/L
	U	238	1905477.608	3.86	50.0000	0.358	0.717	ug/L
>	Bi	209	493338.756	493338.76				ug/L

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Na	23	29338174.743	90.50	5.0000	0.294	5.876	mg/L
Mg	24	18910831.273	58.37	5.0000	0.235	4.692	mg/L
K	39	47027632.308	143.53	5.0000	0.118	2.357	mg/L
Ca	43	113552.444	0.35	5.0000	0.174	3.489	mg/L
Fe	54	3939104.649	11.94	5.0000	0.251	5.028	mg/L
Fe	57	1713788.050	5.26	5.0000	0.308	6.156	mg/L
Sc-1	45	324276.686	324276.69				mg/L
Cl	35	17417.825	-50.77				mg/L
Kr	83	74.001	1.33				mg/L
Br	81	11795.626	-473.23				mg/L
P	31	14640.221	1584.99				mg/L
S	34	204544.063	7839.90				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
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Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, January 07, 2011 10:12:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28206.644	0.00				ug/L
	Be	9	37022.522	0.12	100.4810	3.863	3.844	ug/L
	Al	27	691602.015	2.19	100.0107	5.490	5.489	ug/L
>	Sc	45	315265.924	315265.92				ug/L
	Ti	49	152049.406	0.27	200.4754	3.962	1.976	ug/L
	V	51	1263445.778	2.20	101.5330	1.321	1.301	ug/L
	Cr	52	1060996.669	1.83	100.4045	2.922	2.911	ug/L
	Cr	53	122234.384	0.21	99.7077	2.464	2.472	ug/L
	Mn	55	1654058.882	2.89	100.3308	3.943	3.930	ug/L
	Co	59	1303846.070	2.28	99.8409	2.091	2.094	ug/L
	Ni	60	274971.372	0.48	99.8442	1.442	1.444	ug/L
	Cu	65	282337.502	0.49	100.2530	0.844	0.842	ug/L
	Zn	66	159830.566	0.28	100.0943	0.535	0.535	ug/L
>	Ge	72	571353.816	571353.82				ug/L
	As	75	138002.881	0.24	99.8853	1.423	1.424	ug/L
	Se	77	10468.825	0.02	99.0064	0.747	0.755	ug/L
	Se	82	12947.048	0.02	98.5794	0.923	0.936	ug/L
	Rb	85	5621.640	0.01				mg/L
	Y	89	390850.463	-27026.55				ug/L
	Rh	103	59.001	44.00				ug/L
	Mo	98	635419.333	1.52	200.2813	4.812	2.403	ug/L
	Ag	107	591100.684	1.42	99.6770	2.067	2.074	ug/L
	Cd	114	133191.394	0.32	99.2936	1.232	1.240	ug/L
>	In	115	418017.613	418017.61				ug/L
	Sn	118	474464.093	1.14	100.8429	2.266	2.247	ug/L
	Sb	123	406665.578	0.97	99.5910	2.448	2.458	ug/L
	Ba	135	186356.118	0.35	100.9841	1.219	1.207	ug/L
	Ce	140	116.679	0.00				ug/L
>	Tb	159	539254.362	539254.36				ug/L
	Ho	165	13.335	-0.00				ug/L
	Tl	203	771958.589	1.63	101.2575	0.678	0.669	ug/L
	Tl	205	1880914.550	3.98	101.7449	1.631	1.603	ug/L
	Pb	206	611363.371	1.29	100.8203	1.697	1.683	ug/L
	Pb	207	567835.782	1.20	100.1719	1.715	1.712	ug/L
	Pb	208	2537823.170	5.37	100.5494	0.820	0.815	ug/L
	U	238	3413839.778	7.22	96.6125	1.406	1.455	ug/L
>	Bi	209	472843.769	472843.77				ug/L

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⌈	Na	23	56095788.363	178.31	9.9288	0.461	4.647	mg/L
|	Mg	24	37768827.344	119.94	10.1385	0.212	2.094	mg/L
|	K	39	89300470.813	282.53	9.9232	0.516	5.205	mg/L
|	Ca	43	218341.779	0.69	9.9649	0.641	6.431	mg/L
|	Fe	54	7644058.116	24.05	10.0359	0.282	2.812	mg/L
|	Fe	57	3034910.869	9.59	9.5419	0.184	1.927	mg/L
⌊>	Sc-1	45	315265.924	315265.92				mg/L
	Cl	35	16717.308	-751.28				mg/L
	Kr	83	64.668	-8.00				mg/L
	Br	81	11188.293	-1080.57				mg/L
	P	31	12715.414	-339.81				mg/L
	S	34	193949.171	-2754.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Friday, January 07, 2011 10:14:33
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Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, January 07, 2011 10:19:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28540.751	0.00				ug/L
	Be	9	19330.002	0.06	52.3490	4.233	8.087	ug/L
	Al	27	386183.482	1.22	55.5598	3.699	6.657	ug/L
>	Sc	45	316308.850	316308.85				ug/L
	Ti	49	79838.752	0.13	99.9743	2.408	2.408	ug/L
	V	51	657512.411	1.09	50.0574	0.940	1.878	ug/L
	Cr	52	573595.966	0.93	51.0511	0.800	1.568	ug/L
	Cr	53	67356.186	0.11	52.1495	1.189	2.280	ug/L
	Mn	55	876431.529	1.46	50.5603	1.591	3.148	ug/L
	Co	59	694300.224	1.15	50.5384	1.515	2.998	ug/L
	Ni	60	147734.420	0.25	50.9635	0.889	1.744	ug/L
	Cu	65	146906.419	0.24	49.5116	0.548	1.106	ug/L
	Zn	66	86116.131	0.14	51.0444	0.247	0.484	ug/L
>	Ge	72	601517.878	601517.88				ug/L
	As	75	72233.021	0.12	49.7447	0.663	1.334	ug/L
	Se	77	5688.285	0.01	50.6499	1.215	2.399	ug/L
	Se	82	7123.041	0.01	51.4832	0.556	1.080	ug/L
	Rb	85	3009.816	0.00				mg/L
	Y	89	403812.319	-14064.69				ug/L
	Rh	103	35.667	20.67				ug/L
	Mo	98	332744.617	0.76	100.7037	1.328	1.319	ug/L
	Ag	107	307297.557	0.71	49.7548	1.024	2.057	ug/L
	Cd	114	70796.898	0.16	50.6946	0.112	0.220	ug/L
>	In	115	435013.431	435013.43				ug/L
	Sn	118	245948.925	0.57	50.1837	0.134	0.267	ug/L
	Sb	123	216905.553	0.50	51.0066	0.326	0.639	ug/L
	Ba	135	95996.881	0.17	50.2951	0.767	1.524	ug/L
	Ce	140	83.342	0.00				ug/L
>	Tb	159	557453.548	557453.55				ug/L
	Ho	165	13.335	-0.00				ug/L
	Tl	203	406480.348	0.82	50.8812	0.142	0.278	ug/L
	Tl	205	996431.024	2.01	51.4148	0.277	0.538	ug/L
	Pb	206	323320.276	0.65	50.8321	0.649	1.276	ug/L
	Pb	207	298733.015	0.60	50.2547	0.568	1.130	ug/L
	Pb	208	1340251.456	2.70	50.6452	0.946	1.868	ug/L
	U	238	1957451.333	3.95	52.9049	1.170	2.211	ug/L
>	Bi	209	495338.383	495338.38				ug/L

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Na	23	31723258.045	100.54	5.5952	0.361	6.450	mg/L
Mg	24	20661344.954	65.52	5.5351	0.337	6.091	mg/L
K	39	46853129.774	147.28	5.1705	0.523	10.122	mg/L
Ca	43	115252.087	0.36	5.2339	0.334	6.379	mg/L
Fe	54	4071459.147	12.70	5.3006	0.418	7.877	mg/L
Fe	57	1785494.834	5.63	5.6022	0.380	6.780	mg/L
Sc-1	45	316308.850	316308.85				mg/L
Cl	35	17322.993	-145.60				mg/L
Kr	83	71.001	-1.67				mg/L
Br	81	12136.028	-132.83				mg/L
P	31	15792.519	2737.29				mg/L
S	34	218462.819	21758.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	104.698				
Al	27	111.120				
Sc	45					
Ti	49	99.974				
V	51	100.115				
Cr	52	102.102				
Cr	53					
Mn	55	101.121				
Co	59	101.077				
Ni	60	101.927				
Cu	65	99.023				
Zn	66	102.089				
Ge	72		101.034			
As	75	99.489				
Se	77					
Se	82	102.966				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.510				
Cd	114	101.389				
In	115		97.063			
Sn	118					
Sb	123	102.013				
Ba	135	100.590				
Ce	140					
Tb	159		97.264			
Ho	165					
Tl	203	101.762				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.290				
U	238	105.810				
Bi	209		98.518			
Na	23	111.905				

Sample ID: QC Std 1
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|	Mg	24	110.702
|	K	39	103.410
|	Ca	43	104.678
|	Fe	54	106.013
|	Fe	57	112.044
|>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, January 07, 2011 10:21:17
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Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, January 07, 2011 10:26:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30379.531	0.00				ug/L
	Be	9	8.667	0.00	-0.0373	0.008	20.273	ug/L
	Al	27	3233.875	0.00	0.0936	0.096	102.686	ug/L
>	Sc	45	343192.669	343192.67				ug/L
	Ti	49	73.341	0.00	-0.0764	0.027	34.899	ug/L
	V	51	3680.114	-0.00	-0.0337	0.005	14.494	ug/L
	Cr	52	11931.233	-0.00	-0.0632	0.014	22.309	ug/L
	Cr	53	250.028	-0.00	0.0093	0.078	831.473	ug/L
	Mn	55	396.345	0.00	-0.0164	0.001	4.331	ug/L
	Co	59	101.002	0.00	-0.0213	0.000	1.491	ug/L
	Ni	60	24.667	-0.00	-0.0170	0.001	6.519	ug/L
	Cu	65	182.004	-0.00	-0.0376	0.010	25.290	ug/L
	Zn	66	482.016	0.00	-0.0567	0.020	35.839	ug/L
>	Ge	72	591429.740	591429.74				ug/L
	As	75	-217.799	-0.00	0.0118	0.051	431.263	ug/L
	Se	77	89.334	0.00	-0.1374	0.048	35.162	ug/L
	Se	82	5.339	-0.00	-0.0632	0.131	206.924	ug/L
	Rb	85	21.334	-0.00				mg/L
	Y	89	405842.296	-12034.72				ug/L
	Rh	103	12.000	-3.00				ug/L
	Mo	98	236.955	0.00	0.0803	0.005	5.960	ug/L
	Ag	107	27.667	0.00	-0.0035	0.001	27.271	ug/L
	Cd	114	6.376	-0.00	-0.0004	0.004	1082.080	ug/L
>	In	115	435095.281	435095.28				ug/L
	Sn	118	488.145	0.00	0.0844	0.004	4.667	ug/L
	Sb	123	437.461	0.00	0.1205	0.007	5.587	ug/L
	Ba	135	15.667	-0.00	-0.0191	0.004	21.686	ug/L
	Ce	140	23.336	0.00				ug/L
>	Tb	159	560598.508	560598.51				ug/L
	Ho	165	6.667	-0.00				ug/L
	Tl	203	25.334	0.00	-0.0001	0.000	236.835	ug/L
	Tl	205	70.007	0.00	-0.0025	0.001	52.081	ug/L
	Pb	206	419.680	0.00	-0.0074	0.004	53.447	ug/L
	Pb	207	376.011	0.00	0.0001	0.003	2917.910	ug/L
	Pb	208	1717.742	0.00	-0.0043	0.000	5.002	ug/L
	U	238	84.335	0.00	-0.0202	0.000	1.789	ug/L
>	Bi	209	502610.411	502610.41				ug/L

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Na	23	20643.370	-0.00	-0.0072	0.000	0.973	mg/L
Mg	24	253.362	0.00	-0.0066	0.000	0.247	mg/L
K	39	488392.771	-0.14	-0.0097	0.001	13.478	mg/L
Ca	43	260.029	-0.00	-0.0025	0.002	82.884	mg/L
Fe	54	69181.373	-0.02	-0.0047	0.007	141.903	mg/L
Fe	57	9225.191	-0.00	-0.0060	0.001	21.768	mg/L
Sc-1	45	343192.669	343192.67				mg/L
Cl	35	16129.671	-1338.92				mg/L
Kr	83	76.001	3.33				mg/L
Br	81	12021.893	-246.97				mg/L
P	31	13213.420	158.19				mg/L
S	34	197191.212	487.05				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.340			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		97.081			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		97.813			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.964			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
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Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, January 07, 2011 10:33:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29627.337	-0.00				ug/L
	Be	9	5.333	0.00	-0.0458	0.003	5.764	ug/L
	Al	27	2433.634	-0.00	-0.0190	0.045	238.070	ug/L
>	Sc	45	350521.717	350521.72				ug/L
	Ti	49	33.337	-0.00	-0.1283	0.040	31.519	ug/L
	V	51	8973.263	0.01	0.3627	0.034	9.491	ug/L
	Cr	52	21153.243	0.01	0.7459	0.074	9.899	ug/L
	Cr	53	1320.219	0.00	0.8315	0.011	1.307	ug/L
	Mn	55	9136.263	0.01	0.4844	0.005	1.084	ug/L
	Co	59	5627.974	0.01	0.3785	0.015	3.842	ug/L
	Ni	60	4711.490	0.01	1.5900	0.017	1.087	ug/L
	Cu	65	2522.677	0.00	0.7464	0.037	5.005	ug/L
	Zn	66	10735.867	0.02	6.0178	0.013	0.209	ug/L
>	Ge	72	605305.523	605305.52				ug/L
	As	75	318.159	0.00	0.3810	0.031	8.175	ug/L
	Se	77	129.334	0.00	0.2045	0.078	37.984	ug/L
	Se	82	62.723	0.00	0.3495	0.128	36.627	ug/L
	Rb	85	21.667	-0.00				mg/L
	Y	89	410683.666	-7193.35				ug/L
	Rh	103	7.333	-7.67				ug/L
	Mo	98	142.724	0.00	0.0512	0.001	2.813	ug/L
	Ag	107	2523.010	0.01	0.3953	0.007	1.752	ug/L
	Cd	114	296.217	0.00	0.2044	0.020	9.628	ug/L
>	In	115	440708.253	440708.25				ug/L
	Sn	118	298.671	0.00	0.0450	0.005	12.198	ug/L
	Sb	123	1816.547	0.00	0.4390	0.018	4.078	ug/L
	Ba	135	1415.448	0.00	0.7005	0.015	2.091	ug/L
	Ce	140	16.668	-0.00				ug/L
>	Tb	159	568253.398	568253.40				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	666.362	0.00	0.0770	0.001	1.874	ug/L
	Tl	205	1610.291	0.00	0.0738	0.005	6.463	ug/L
	Pb	206	2980.140	0.00	0.3786	0.003	0.892	ug/L
	Pb	207	2707.727	0.00	0.3763	0.006	1.559	ug/L
	Pb	208	12379.841	0.02	0.3821	0.008	2.067	ug/L
	U	238	15440.736	0.03	0.3790	0.007	1.898	ug/L
>	Bi	209	515080.150	515080.15				ug/L

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⌈	Na	23	23810.706	0.01	-0.0067	0.000	0.709	mg/L
|	Mg	24	310.036	0.00	-0.0066	0.000	0.314	mg/L
|	K	39	504600.755	-0.12	-0.0091	0.001	10.277	mg/L
|	Ca	43	276.698	-0.00	-0.0020	0.003	158.514	mg/L
|	Fe	54	67225.843	-0.03	-0.0089	0.004	50.801	mg/L
|	Fe	57	9915.914	-0.00	-0.0045	0.001	27.404	mg/L
⌊>	Sc-1	45	350521.717	350521.72				mg/L
	Cl	35	16130.333	-1338.26				mg/L
	Kr	83	70.334	-2.33				mg/L
	Br	81	12300.234	31.37				mg/L
	P	31	14843.257	1788.03				mg/L
	S	34	199356.889	2652.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	90.685				
|	Cr	52	93.235				
|	Cr	53					
|	Mn	55	96.875				
|	Co	59	94.621				
|	Ni	60	99.374				
|	Cu	65	93.300				
|	Zn	66	96.285				
|>	Ge	72		101.671			
|	As	75	95.255				
|	Se	77					
|	Se	82	87.375				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.831				
|	Cd	114	102.210				
|>	In	115		98.334			
|	Sn	118					
⌊	Sb	123	109.756				
⌈	Ba	135	93.403				
|	Ce	140					
⌊>	Tb	159		99.149			
⌈	Ho	165					
|	Tl	203	96.198				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	95.514				
|	U	238	94.759				
⌊>	Bi	209		102.444			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 3
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Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, January 07, 2011 10:40:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29410.039	0.01				ug/L
	Be	9	4.000	-0.00	-0.0481	0.009	18.447	ug/L
	Al	27	27975353.728	89.41	4080.0977	131.495	3.223	ug/L
>	Sc	45	313062.614	313062.61				ug/L
	Ti	49	75370.547	0.13	98.4498	1.964	1.995	ug/L
	V	51	3243.375	-0.00	-0.0612	0.025	41.429	ug/L
	Cr	52	12765.938	0.00	0.0446	0.007	16.432	ug/L
	Cr	53	1580.283	0.00	1.0931	0.062	5.685	ug/L
	Mn	55	4434.694	0.01	0.2274	0.005	2.338	ug/L
	Co	59	2663.715	0.00	0.1736	0.010	6.028	ug/L
	Ni	60	1472.123	0.00	0.5043	0.028	5.467	ug/L
	Cu	65	1077.069	0.00	0.2794	0.012	4.437	ug/L
	Zn	66	1097.071	0.00	0.3338	0.055	16.590	ug/L
>	Ge	72	576512.719	576512.72				ug/L
	As	75	-263.425	-0.00	-0.0246	0.034	139.776	ug/L
	Se	77	178.002	0.00	0.7232	0.047	6.530	ug/L
	Se	82	0.043	-0.00	-0.1019	0.049	48.113	ug/L
	Rb	85	2583.026	0.00				mg/L
	Y	89	381540.501	-36336.51				ug/L
	Rh	103	15.667	0.67				ug/L
	Mo	98	317189.801	0.76	99.4259	0.394	0.396	ug/L
	Ag	107	100.668	0.00	0.0090	0.001	12.156	ug/L
	Cd	114	119.146	0.00	0.0835	0.006	6.666	ug/L
>	In	115	419975.872	419975.87				ug/L
	Sn	118	315.605	0.00	0.0515	0.001	1.829	ug/L
	Sb	123	276.291	0.00	0.0849	0.003	3.470	ug/L
	Ba	135	69.334	0.00	0.0106	0.001	7.108	ug/L
	Ce	140	220.024	0.00				ug/L
>	Tb	159	535412.144	535412.14				ug/L
	Ho	165	23.336	0.00				ug/L
	Tl	203	27.000	0.00	0.0002	0.001	395.072	ug/L
	Tl	205	46.671	0.00	-0.0036	0.001	29.394	ug/L
	Pb	206	490.017	0.00	0.0064	0.005	83.775	ug/L
	Pb	207	418.346	0.00	0.0098	0.001	13.466	ug/L
	Pb	208	1941.427	0.00	0.0068	0.001	16.314	ug/L
	U	238	33.000	0.00	-0.0215	0.000	0.834	ug/L
>	Bi	209	484208.855	484208.86				ug/L

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⌈	Na	23	69917593.614	223.45	12.4438	0.672	5.396	mg/L
|	Mg	24	18349109.647	58.72	4.9598	0.368	7.426	mg/L
|	K	39	44932000.965	141.97	4.9839	0.135	2.718	mg/L
|	Ca	43	335416.286	1.07	15.3812	0.490	3.184	mg/L
|	Fe	54	9587433.608	30.44	12.6991	0.570	4.490	mg/L
|	Fe	57	3721733.899	11.87	11.8028	0.330	2.799	mg/L
⌊>	Sc-1	45	313062.614	313062.61				mg/L
	Cl	35	1980377.732	1962909.14				mg/L
	Kr	83	71.668	-1.00				mg/L
	Br	81	11804.298	-464.56				mg/L
	P	31	1972448.342	1959393.11				mg/L
	S	34	410452.999	213748.84				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.834			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.708			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.418			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.304			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
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Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, January 07, 2011 10:46:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29794.353	0.00				ug/L
	Be	9	36875.197	0.11	97.4613	0.947	0.971	ug/L
	Al	27	28658595.056	88.70	4047.7868	98.692	2.438	ug/L
>	Sc	45	323052.268	323052.27				ug/L
	Ti	49	77866.621	0.13	99.7838	2.596	2.602	ug/L
	V	51	1234144.535	2.09	96.4716	1.358	1.408	ug/L
	Cr	52	1092044.873	1.84	100.5985	1.028	1.022	ug/L
	Cr	53	125147.446	0.21	99.3519	1.507	1.517	ug/L
	Mn	55	1668433.460	2.84	98.5625	2.889	2.931	ug/L
	Co	59	1325350.083	2.26	98.7702	1.586	1.606	ug/L
	Ni	60	276930.757	0.47	97.8056	0.510	0.522	ug/L
	Cu	65	287413.959	0.49	99.2761	3.121	3.144	ug/L
	Zn	66	157163.505	0.27	95.6876	2.617	2.735	ug/L
>	Ge	72	587595.978	587595.98				ug/L
	As	75	136920.906	0.23	96.3674	1.041	1.080	ug/L
	Se	77	10440.114	0.02	96.0184	2.111	2.199	ug/L
	Se	82	12899.545	0.02	95.5304	2.212	2.316	ug/L
	Rb	85	2698.058	0.00				mg/L
	Y	89	373701.991	-44175.02				ug/L
	Rh	103	60.667	45.67				ug/L
	Mo	98	320650.558	0.77	101.6209	1.577	1.552	ug/L
	Ag	107	656383.070	1.58	111.2974	0.284	0.255	ug/L
	Cd	114	131323.380	0.32	98.4813	1.072	1.088	ug/L
>	In	115	415386.882	415386.88				ug/L
	Sn	118	2002.601	0.00	0.4129	0.009	2.241	ug/L
	Sb	123	411959.053	0.99	101.4305	1.309	1.290	ug/L
	Ba	135	183006.700	0.34	98.1455	1.454	1.482	ug/L
	Ce	140	310.036	0.00				ug/L
>	Tb	159	544670.876	544670.88				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	767424.360	1.58	97.7545	1.970	2.015	ug/L
	Tl	205	1847005.734	3.79	96.9972	2.153	2.220	ug/L
	Pb	206	641263.068	1.32	102.6535	1.820	1.773	ug/L
	Pb	207	567477.701	1.16	97.1852	0.961	0.989	ug/L
	Pb	208	2613926.306	5.37	100.5613	1.290	1.283	ug/L
	U	238	3507081.649	7.21	96.4735	2.755	2.856	ug/L
>	Bi	209	486859.513	486859.51				ug/L

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Na	23	74901008.751	231.79	12.9087	0.017	0.136	mg/L
Mg	24	19191692.086	59.41	5.0183	0.081	1.612	mg/L
K	39	47463088.171	145.33	5.1020	0.175	3.433	mg/L
Ca	43	333638.559	1.03	14.8147	0.146	0.986	mg/L
Fe	54	9951868.059	30.59	12.7611	0.098	0.772	mg/L
Fe	57	3888363.503	12.01	11.9436	0.424	3.551	mg/L
Sc-1	45	323052.268	323052.27				mg/L
Cl	35	2044996.518	2027527.93				mg/L
Kr	83	76.668	4.00				mg/L
Br	81	11598.056	-670.80				mg/L
P	31	1867658.884	1854603.66				mg/L
S	34	391068.442	194364.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	96.472				
Cr	52	100.599				
Cr	53					
Mn	55	98.562				
Co	59	98.770				
Ni	60	97.806				
Cu	65	99.276				
Zn	66	95.688				
Ge	72		98.696			
As	75	96.367				
Se	77					
Se	82	95.530				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	111.297				
Cd	114	98.481				
In	115		92.684			
Sn	118					
Sb	123	101.430				
Ba	135	98.145				
Ce	140					
Tb	159		95.034			
Ho	165					
Tl	203	97.754				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.561				
U	238	96.473				
Bi	209		96.832			
Na	23					

Sample ID: QC Std 5
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 10:53:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30814.198	0.01				ug/L
	Be	9	19360.731	0.06	52.0440	2.920	5.612	ug/L
	Al	27	369967.436	1.16	52.8093	3.227	6.110	ug/L
>	Sc	45	317842.979	317842.98				ug/L
	Ti	49	80050.929	0.13	100.6362	4.228	4.201	ug/L
	V	51	653049.565	1.08	49.9273	1.135	2.273	ug/L
	Cr	52	560431.607	0.91	50.0614	1.260	2.518	ug/L
	Cr	53	65523.903	0.11	50.9374	0.768	1.507	ug/L
	Mn	55	871236.763	1.45	50.4659	0.281	0.557	ug/L
	Co	59	692385.915	1.16	50.6040	0.257	0.508	ug/L
	Ni	60	145649.121	0.24	50.4467	1.566	3.105	ug/L
	Cu	65	147348.869	0.25	49.8735	0.408	0.819	ug/L
	Zn	66	84346.766	0.14	50.2066	0.264	0.525	ug/L
>	Ge	72	598921.690	598921.69				ug/L
	As	75	71625.732	0.12	49.5336	0.280	0.565	ug/L
	Se	77	5704.295	0.01	51.0081	1.660	3.255	ug/L
	Se	82	6964.273	0.01	50.5450	0.425	0.840	ug/L
	Rb	85	2923.457	0.00				mg/L
	Y	89	394218.834	-23658.18				ug/L
	Rh	103	35.667	20.67				ug/L
	Mo	98	322943.979	0.75	98.3491	1.460	1.484	ug/L
	Ag	107	303093.601	0.70	49.3821	0.812	1.645	ug/L
	Cd	114	70091.407	0.16	50.5040	0.720	1.426	ug/L
>	In	115	432293.161	432293.16				ug/L
	Sn	118	242192.436	0.56	49.7254	0.530	1.065	ug/L
	Sb	123	214461.450	0.50	50.7491	0.473	0.933	ug/L
	Ba	135	95137.558	0.17	49.6692	1.183	2.381	ug/L
	Ce	140	66.674	0.00				ug/L
>	Tb	159	559385.177	559385.18				ug/L
	Ho	165	13.335	-0.00				ug/L
	Tl	203	400594.840	0.80	49.3053	1.255	2.545	ug/L
	Tl	205	981829.213	1.95	49.8156	1.446	2.903	ug/L
	Pb	206	320256.266	0.63	49.4953	0.392	0.793	ug/L
	Pb	207	299558.545	0.59	49.5421	0.795	1.605	ug/L
	Pb	208	1336810.283	2.65	49.6569	0.685	1.379	ug/L
	U	238	1969878.461	3.91	52.3362	0.587	1.122	ug/L
>	Bi	209	503864.474	503864.47				ug/L

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Na	23	30259713.049	95.16	5.2951	0.261	4.924	mg/L
Mg	24	20142725.730	63.42	5.3579	0.373	6.954	mg/L
K	39	46076673.547	143.53	5.0387	0.221	4.391	mg/L
Ca	43	116509.956	0.37	5.2516	0.085	1.624	mg/L
Fe	54	4116682.319	12.75	5.3211	0.326	6.132	mg/L
Fe	57	1754747.933	5.50	5.4686	0.353	6.448	mg/L
Sc-1	45	317842.979	317842.98				mg/L
Cl	35	18704.816	1236.22				mg/L
Kr	83	69.334	-3.33				mg/L
Br	81	12192.767	-76.09				mg/L
P	31	13786.191	730.96				mg/L
S	34	215031.553	18327.39				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.855				
Cr	52	100.123				
Cr	53					
Mn	55	100.932				
Co	59	101.208				
Ni	60	100.893				
Cu	65	99.747				
Zn	66	100.413				
Ge	72		100.598			
As	75	99.067				
Se	77					
Se	82	101.090				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.764				
Cd	114	101.008				
In	115		96.456			
Sn	118					
Sb	123	101.498				
Ba	135	99.338				
Ce	140					
Tb	159		97.601			
Ho	165					
Tl	203	98.611				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.314				
U	238	104.672				
Bi	209		100.214			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 11:00:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29777.638	0.00				ug/L
	Be	9	6.667	0.00	-0.0420	0.006	13.981	ug/L
	Al	27	2566.999	-0.00	0.0100	0.031	314.875	ug/L
>	Sc	45	338521.272	338521.27				ug/L
	Ti	49	70.007	0.00	-0.0823	0.033	40.026	ug/L
	V	51	3892.645	-0.00	-0.0224	0.005	20.656	ug/L
	Cr	52	12324.385	-0.00	-0.0464	0.028	59.485	ug/L
	Cr	53	430.053	0.00	0.1461	0.068	46.782	ug/L
	Mn	55	399.679	-0.00	-0.0166	0.001	4.978	ug/L
	Co	59	113.668	0.00	-0.0205	0.000	1.970	ug/L
	Ni	60	29.334	-0.00	-0.0156	0.002	14.948	ug/L
	Cu	65	194.671	0.00	-0.0344	0.004	13.018	ug/L
	Zn	66	427.347	0.00	-0.0943	0.015	15.669	ug/L
>	Ge	72	601663.035	601663.03				ug/L
	As	75	-238.524	-0.00	0.0003	0.006	1962.595	ug/L
	Se	77	91.334	0.00	-0.1347	0.294	217.952	ug/L
	Se	82	7.046	-0.00	-0.0510	0.071	139.178	ug/L
	Rb	85	18.334	-0.00				mg/L
	Y	89	402617.018	-15260.00				ug/L
	Rh	103	8.333	-6.67				ug/L
	Mo	98	207.949	0.00	0.0708	0.009	12.621	ug/L
	Ag	107	42.001	0.00	-0.0012	0.001	101.434	ug/L
	Cd	114	-1.615	-0.00	-0.0061	0.001	15.344	ug/L
>	In	115	440200.535	440200.54				ug/L
	Sn	118	359.740	0.00	0.0574	0.005	9.096	ug/L
	Sb	123	516.970	0.00	0.1378	0.004	2.860	ug/L
	Ba	135	14.000	-0.00	-0.0200	0.001	4.410	ug/L
	Ce	140	16.668	-0.00				ug/L
>	Tb	159	565063.652	565063.65				ug/L
	Ho	165	23.336	0.00				ug/L
	Tl	203	30.334	0.00	0.0004	0.000	13.511	ug/L
	Tl	205	56.673	0.00	-0.0032	0.001	31.974	ug/L
	Pb	206	440.347	0.00	-0.0049	0.002	49.497	ug/L
	Pb	207	404.679	0.00	0.0042	0.006	133.918	ug/L
	Pb	208	1788.747	0.00	-0.0023	0.003	111.632	ug/L
	U	238	95.335	0.00	-0.0199	0.000	0.468	ug/L
>	Bi	209	507880.681	507880.68				ug/L

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⌈	Na	23	21525.308	0.00	-0.0070	0.000	0.439	mg/L
|	Mg	24	410.050	0.00	-0.0065	0.000	0.199	mg/L
|	K	39	498177.380	-0.09	-0.0080	0.001	11.878	mg/L
|	Ca	43	210.023	-0.00	-0.0044	0.002	47.220	mg/L
|	Fe	54	72409.799	-0.01	0.0004	0.002	526.323	mg/L
|	Fe	57	9618.931	-0.00	-0.0044	0.002	36.785	mg/L
⌊>	Sc-1	45	338521.272	338521.27				mg/L
	Cl	35	17170.064	-298.53				mg/L
	Kr	83	71.334	-1.33				mg/L
	Br	81	12122.678	-146.18				mg/L
	P	31	13313.558	258.33				mg/L
	S	34	194889.873	-1814.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.059			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.220			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.592			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.012			
⌈	Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 11:02:58
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: PBW 60 WG353259-02

Sample Date/Time: Friday, January 07, 2011 11:07:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	32235.233	0.00				ug/L
	Be	9	7.333	0.00	-0.0416	0.007	16.796	ug/L
	Al	27	3750.704	0.00	0.1346	0.018	13.574	ug/L
>	Sc	45	364025.641	364025.64				ug/L
	Ti	49	70.007	0.00	-0.0863	0.011	13.229	ug/L
	V	51	4075.761	-0.00	-0.0226	0.009	41.642	ug/L
	Cr	52	13235.888	-0.00	-0.0185	0.027	143.822	ug/L
	Cr	53	396.714	0.00	0.1059	0.057	54.241	ug/L
	Mn	55	1352.127	0.00	0.0349	0.045	129.539	ug/L
	Co	59	111.668	0.00	-0.0210	0.002	7.506	ug/L
	Ni	60	94.001	0.00	0.0052	0.007	137.421	ug/L
	Cu	65	250.672	0.00	-0.0193	0.010	50.132	ug/L
	Zn	66	2124.247	0.00	0.8601	0.028	3.220	ug/L
>	Ge	72	630571.342	630571.34				ug/L
	As	75	-227.786	-0.00	0.0148	0.013	84.801	ug/L
	Se	77	102.001	0.00	-0.0797	0.147	185.119	ug/L
	Se	82	10.818	-0.00	-0.0278	0.115	414.290	ug/L
	Rb	85	28.667	0.00				mg/L
	Y	89	417887.202	10.19				ug/L
	Rh	103	8.667	-6.33				ug/L
	Mo	98	133.833	0.00	0.0475	0.005	9.616	ug/L
	Ag	107	34.334	0.00	-0.0026	0.001	38.191	ug/L
	Cd	114	11.995	0.00	0.0033	0.002	58.638	ug/L
>	In	115	453243.605	453243.61				ug/L
	Sn	118	367.473	0.00	0.0568	0.003	5.815	ug/L
	Sb	123	261.039	0.00	0.0765	0.006	8.061	ug/L
	Ba	135	27.334	0.00	-0.0138	0.002	15.334	ug/L
	Ce	140	40.004	0.00				ug/L
>	Tb	159	589752.959	589752.96				ug/L
	Ho	165	16.668	-0.00				ug/L
	Tl	203	17.334	0.00	-0.0013	0.000	12.773	ug/L
	Tl	205	26.669	0.00	-0.0048	0.001	11.619	ug/L
	Pb	206	475.683	0.00	-0.0039	0.002	55.574	ug/L
	Pb	207	444.681	0.00	0.0064	0.001	17.397	ug/L
	Pb	208	1967.429	0.00	-0.0001	0.001	593.874	ug/L
	U	238	57.001	0.00	-0.0210	0.000	1.799	ug/L
>	Bi	209	540163.726	540163.73				ug/L

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Na	23	30974.435	0.02	-0.0058	0.000	5.381	mg/L
Mg	24	1156.850	0.00	-0.0064	0.000	0.359	mg/L
K	39	521223.865	-0.13	-0.0094	0.000	4.895	mg/L
Ca	43	243.361	-0.00	-0.0037	0.001	38.761	mg/L
Fe	54	75981.118	-0.01	-0.0018	0.002	132.735	mg/L
Fe	57	10720.164	0.00	-0.0034	0.002	67.075	mg/L
Sc-1	45	364025.641	364025.64				mg/L
Cl	35	17513.324	44.73				mg/L
Kr	83	59.334	-13.33				mg/L
Br	81	12865.605	596.75				mg/L
P	31	16236.015	3180.79				mg/L
S	34	219992.283	23288.12				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		105.914			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		101.131			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.900			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		107.433			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 60 WG353259-02
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Method 6020 - Summary Report

Sample ID: LCSW 60 WG353259-03

Sample Date/Time: Friday, January 07, 2011 11:14:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28941.997	-0.01				ug/L
	Be	9	9600.606	0.03	22.9008	0.564	2.462	ug/L
	Al	27	188260.634	0.52	23.7270	1.958	8.250	ug/L
>	Sc	45	357340.981	357340.98				ug/L
	Ti	49	100.011	0.00	-0.0502	0.060	119.409	ug/L
	V	51	336086.858	0.53	24.2902	0.345	1.419	ug/L
	Cr	52	300676.469	0.46	24.9936	0.514	2.055	ug/L
	Cr	53	34814.001	0.05	25.6666	0.639	2.490	ug/L
	Mn	55	455635.513	0.72	25.1000	0.094	0.375	ug/L
	Co	59	360270.215	0.57	25.0468	0.206	0.823	ug/L
	Ni	60	76508.710	0.12	25.2117	0.355	1.407	ug/L
	Cu	65	77932.952	0.12	25.0562	0.113	0.451	ug/L
	Zn	66	44431.953	0.07	24.9977	0.333	1.331	ug/L
>	Ge	72	629268.956	629268.96				ug/L
	As	75	36396.960	0.06	24.0421	0.278	1.156	ug/L
	Se	77	2900.421	0.00	24.1935	0.684	2.826	ug/L
	Se	82	3547.078	0.01	24.4503	0.273	1.118	ug/L
	Rb	85	40.000	0.00				mg/L
	Y	89	418843.558	966.54				ug/L
	Rh	103	17.000	2.00				ug/L
	Mo	98	104.577	0.00	0.0392	0.002	5.518	ug/L
	Ag	107	154889.889	0.34	24.2297	0.299	1.236	ug/L
	Cd	114	35602.306	0.08	24.6312	0.314	1.275	ug/L
>	In	115	450162.263	450162.26				ug/L
	Sn	118	273.604	0.00	0.0388	0.001	3.283	ug/L
	Sb	123	110059.212	0.24	25.0187	0.147	0.588	ug/L
	Ba	135	48659.925	0.08	24.4990	0.065	0.264	ug/L
	Ce	140	43.338	0.00				ug/L
>	Tb	159	579733.507	579733.51				ug/L
	Ho	165	16.668	-0.00				ug/L
	Tl	203	206871.990	0.40	24.6465	0.078	0.315	ug/L
	Tl	205	497486.402	0.96	24.4334	0.803	3.287	ug/L
	Pb	206	170609.419	0.33	25.4943	0.541	2.122	ug/L
	Pb	207	148974.994	0.29	23.8202	0.185	0.778	ug/L
	Pb	208	689417.513	1.32	24.7596	0.100	0.403	ug/L
	U	238	974803.300	1.87	25.0627	0.077	0.306	ug/L
>	Bi	209	520392.936	520392.94				ug/L

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⌈	Na	23	40519.391	0.05	-0.0042	0.000	7.739	mg/L
|	Mg	24	910.133	0.00	-0.0064	0.000	0.463	mg/L
|	K	39	531522.308	-0.08	-0.0074	0.001	9.825	mg/L
|	Ca	43	243.361	-0.00	-0.0036	0.002	69.458	mg/L
|	Fe	54	74094.480	-0.01	-0.0024	0.003	140.612	mg/L
|	Fe	57	10336.375	-0.00	-0.0039	0.000	10.035	mg/L
⌊>	Sc-1	45	357340.981	357340.98				mg/L
	Cl	35	17381.096	-87.50				mg/L
	Kr	83	70.334	-2.33				mg/L
	Br	81	13188.025	919.17				mg/L
	P	31	15612.189	2556.96				mg/L
	S	34	206467.418	9763.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.696			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.443			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.152			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.501			
⌈	Na	23					

Sample ID: LCSW 60 WG353259-03
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 60 WG353259-03
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Method 6020 - Summary Report

Sample ID: L1101004806

Sample Date/Time: Friday, January 07, 2011 11:21:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31516.357	0.02				ug/L
	Be	9	8.667	0.00	-0.0322	0.020	63.254	ug/L
	Al	27	24279.450	0.07	3.4480	0.480	13.919	ug/L
>	Sc	45	295608.686	295608.69				ug/L
	Ti	49	2333.847	0.00	3.0295	0.477	15.756	ug/L
	V	51	4819.293	0.00	0.0852	0.015	18.038	ug/L
	Cr	52	13242.913	0.00	0.1574	0.042	26.642	ug/L
	Cr	53	433.386	0.00	0.1805	0.043	23.559	ug/L
	Mn	55	1609664.619	2.93	101.8478	1.360	1.335	ug/L
	Co	59	1997.555	0.00	0.1306	0.012	9.354	ug/L
	Ni	60	7075.618	0.01	2.6425	0.198	7.492	ug/L
	Cu	65	1353.773	0.00	0.4004	0.024	6.010	ug/L
	Zn	66	3538.997	0.01	1.9705	0.080	4.060	ug/L
>	Ge	72	548118.847	548118.85				ug/L
	As	75	-68.659	0.00	0.1114	0.024	21.836	ug/L
	Se	77	100.667	0.00	0.0479	0.137	286.556	ug/L
	Se	82	52.129	0.00	0.3097	0.061	19.572	ug/L
	Rb	85	3604.355	0.01				mg/L
	Y	89	354878.976	-62998.04				ug/L
	Rh	103	214.338	199.34				ug/L
	Mo	98	910.850	0.00	0.3224	0.008	2.488	ug/L
	Ag	107	35.667	0.00	-0.0014	0.001	48.330	ug/L
	Cd	114	35.493	0.00	0.0242	0.005	21.876	ug/L
>	In	115	382493.301	382493.30				ug/L
	Sn	118	212.002	0.00	0.0342	0.003	9.563	ug/L
	Sb	123	390.625	0.00	0.1218	0.008	6.521	ug/L
	Ba	135	10576.384	0.02	6.0215	0.160	2.651	ug/L
	Ce	140	633.417	0.00				ug/L
>	Tb	159	510776.151	510776.15				ug/L
	Ho	165	26.669	0.00				ug/L
	Tl	203	77.668	0.00	0.0077	0.001	10.446	ug/L
	Tl	205	216.691	0.00	0.0068	0.002	35.199	ug/L
	Pb	206	379.011	0.00	-0.0047	0.003	63.436	ug/L
	Pb	207	315.675	0.00	-0.0018	0.002	101.041	ug/L
	Pb	208	1498.726	0.00	-0.0038	0.002	58.960	ug/L
	U	238	236595.623	0.54	7.2412	0.092	1.266	ug/L
>	Bi	209	435967.995	435968.00				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	43762842.021	148.58	12.5612	0.764	6.086	mg/L
|	K	39	12583193.583	41.05	1.4377	0.104	7.261	mg/L
|	Ca	43	1044420.084	3.53	50.7251	5.190	10.231	mg/L
|	Fe	54	49502.699	-0.05	-0.0188	0.005	25.544	mg/L
|	Fe	57	50290.173	0.14	0.1366	0.020	14.503	mg/L
⌊>	Sc-1	45	295608.686	295608.69				mg/L
	Cl	35	206719.167	189250.58				mg/L
	Kr	83	62.001	-10.67				mg/L
	Br	81	33541.512	21272.65				mg/L
	P	31	9046.258	-4008.97				mg/L
	S	34	2564440.390	2367736.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.065			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.344			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.120			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		86.710			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1101004806
Report Date/Time: Friday, January 07, 2011 11:23:12
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Method 6020 - Summary Report

Sample ID: L1101004807 WG353259-01

Sample Date/Time: Friday, January 07, 2011 11:27:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31014.908	0.01				ug/L
	Be	9	10.667	0.00	-0.0312	0.011	34.579	ug/L
	Al	27	9571.252	0.02	0.9858	0.042	4.224	ug/L
>	Sc	45	331009.046	331009.05				ug/L
	Ti	49	42796.516	0.09	69.3722	5.742	8.277	ug/L
	V	51	10850.197	0.02	0.7580	0.026	3.445	ug/L
	Cr	52	19640.487	0.02	1.1533	0.005	0.469	ug/L
	Cr	53	2774.001	0.01	2.6027	0.299	11.503	ug/L
	Mn	55	1374322.774	2.97	102.9629	0.368	0.358	ug/L
	Co	59	4957.281	0.01	0.4396	0.012	2.748	ug/L
	Ni	60	14409.550	0.03	6.4259	0.185	2.881	ug/L
	Cu	65	17452.812	0.04	7.5419	0.417	5.528	ug/L
	Zn	66	16318.515	0.03	12.2844	0.429	3.489	ug/L
>	Ge	72	463280.790	463280.79				ug/L
	As	75	3179.973	0.01	2.9967	0.140	4.657	ug/L
	Se	77	308.005	0.00	2.6626	0.235	8.809	ug/L
	Se	82	1085.502	0.00	10.0936	0.502	4.977	ug/L
	Rb	85	10634.430	0.02				mg/L
	Y	89	297908.407	-119968.61				ug/L
	Rh	103	467.682	452.68				ug/L
	Mo	98	16025.017	0.05	6.7721	0.107	1.577	ug/L
	Ag	107	119.335	0.00	0.0191	0.003	15.606	ug/L
	Cd	114	-3.739	-0.00	-0.0087	0.012	137.482	ug/L
>	In	115	311770.736	311770.74				ug/L
	Sn	118	654.821	0.00	0.1712	0.005	3.093	ug/L
	Sb	123	379.584	0.00	0.1422	0.001	0.692	ug/L
	Ba	135	2263.946	0.01	1.7245	0.039	2.266	ug/L
	Ce	140	10106.117	0.03				ug/L
>	Tb	159	377585.765	377585.77				ug/L
	Ho	165	4111.269	0.01				ug/L
	Tl	203	113.335	0.00	0.0222	0.000	1.557	ug/L
	Tl	205	276.698	0.00	0.0195	0.007	35.049	ug/L
	Pb	206	485.683	0.00	0.0649	0.002	3.402	ug/L
	Pb	207	413.346	0.00	0.0630	0.013	20.363	ug/L
	Pb	208	1921.092	0.00	0.0623	0.001	2.263	ug/L
	U	238	1311262.533	4.76	63.6844	0.894	1.404	ug/L
>	Bi	209	275556.457	275556.46				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	S	S	S	S	S	mg/L
|	K	39	25406928.501	75.16	2.6364	0.071	2.696	mg/L
|	Ca	43	1025272.253	3.10	44.5303	1.590	3.571	mg/L
|	Fe	54	52059.054	-0.06	-0.0232	0.003	11.607	mg/L
|	Fe	57	46941.337	0.11	0.1089	0.010	8.974	mg/L
⌊>	Sc-1	45	331009.046	331009.05				mg/L
	Cl	35	3351590.505	3334121.91				mg/L
	Kr	83	105.002	32.33				mg/L
	Br	81	342724.546	330455.69				mg/L
	P	31	20954.670	7899.44				mg/L
	S	34	54975412.483	54778708.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		77.815			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		69.564			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		65.881			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		54.805			
⌈	Na	23					

Sample ID: L1101004807 WG353259-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1101004807 WG353259-01
Report Date/Time: Friday, January 07, 2011 11:29:58
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101004808S WG353259-04

Sample Date/Time: Friday, January 07, 2011 11:34:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	34526.185	0.02				ug/L
	Be	9	1470.775	0.00	3.6966	0.210	5.693	ug/L
	Al	27	40665.940	0.11	5.2150	0.356	6.823	ug/L
>	Sc	45	334677.167	334677.17				ug/L
	Ti	49	39009.909	0.08	57.7183	2.107	3.650	ug/L
	V	51	73441.697	0.14	6.3372	0.037	0.579	ug/L
	Cr	52	74073.407	0.12	6.8113	0.050	0.735	ug/L
	Cr	53	8844.794	0.02	7.9444	0.133	1.680	ug/L
	Mn	55	1332890.225	2.62	91.0033	0.224	0.246	ug/L
	Co	59	61356.272	0.12	5.2580	0.045	0.853	ug/L
	Ni	60	24292.715	0.05	9.8946	0.051	0.513	ug/L
	Cu	65	28766.604	0.06	11.3956	0.084	0.737	ug/L
	Zn	66	21679.361	0.04	14.9614	0.207	1.381	ug/L
>	Ge	72	508306.985	508306.99				ug/L
	As	75	10212.758	0.02	8.4584	0.131	1.544	ug/L
	Se	77	862.704	0.00	8.3011	0.255	3.068	ug/L
	Se	82	2197.382	0.00	18.7269	0.374	1.998	ug/L
	Rb	85	8721.222	0.02				mg/L
	Y	89	319403.149	-98473.86				ug/L
	Rh	103	421.346	406.35				ug/L
	Mo	98	14383.918	0.04	5.6121	0.102	1.814	ug/L
	Ag	107	18242.474	0.05	3.7948	0.061	1.598	ug/L
	Cd	114	4580.679	0.01	4.2180	0.066	1.569	ug/L
>	In	115	337944.168	337944.17				ug/L
	Sn	118	438.410	0.00	0.1000	0.005	5.240	ug/L
	Sb	123	16277.389	0.05	4.9434	0.071	1.428	ug/L
	Ba	135	8999.138	0.02	6.4224	0.057	0.880	ug/L
	Ce	140	7920.596	0.02				ug/L
>	Tb	159	407697.266	407697.27				ug/L
	Ho	165	2343.842	0.01				ug/L
	Tl	203	24871.487	0.08	5.1466	0.069	1.333	ug/L
	Tl	205	60451.587	0.20	5.1548	0.098	1.893	ug/L
	Pb	206	20741.032	0.07	5.3289	0.052	0.967	ug/L
	Pb	207	18251.159	0.06	5.0224	0.013	0.265	ug/L
	Pb	208	84110.917	0.28	5.1954	0.048	0.922	ug/L
	U	238	1260046.444	4.21	56.3221	0.718	1.275	ug/L
>	Bi	209	299442.412	299442.41				ug/L

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⌈	Na	23	420033605.675	1255.77	69.9661	2.712	3.876	mg/L
|	Mg	24	S	S	S	S	S	mg/L
|	K	39	20978726.596	61.12	2.1430	0.023	1.057	mg/L
|	Ca	43	860550.577	2.57	36.9165	0.634	1.719	mg/L
|	Fe	54	51936.864	-0.07	-0.0242	0.000	1.057	mg/L
|	Fe	57	49162.429	0.12	0.1134	0.008	6.718	mg/L
⌊>	Sc-1	45	334677.167	334677.17				mg/L
	Cl	35	2822078.964	2804610.37				mg/L
	Kr	83	104.002	31.33				mg/L
	Br	81	712693.389	700424.53				mg/L
	P	31	18945.263	5890.04				mg/L
	S	34	46591255.895	46394551.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.378			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		75.404			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		71.135			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		59.556			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101004808S WG353259-04
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Method 6020 - Summary Report

Sample ID: L1101004809SD WG353259-05

Sample Date/Time: Friday, January 07, 2011 11:41:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33773.614	0.01				ug/L
	Be	9	1441.437	0.00	3.6461	0.259	7.090	ug/L
	Al	27	55101.391	0.16	7.2281	0.222	3.076	ug/L
>	Sc	45	332627.719	332627.72				ug/L
	Ti	49	38504.752	0.08	57.5277	3.505	6.093	ug/L
	V	51	70990.561	0.13	6.1805	0.032	0.515	ug/L
	Cr	52	71507.470	0.12	6.6145	0.147	2.227	ug/L
	Cr	53	8280.924	0.02	7.5031	0.218	2.910	ug/L
	Mn	55	1355196.338	2.69	93.4602	0.873	0.934	ug/L
	Co	59	60097.326	0.12	5.2025	0.063	1.218	ug/L
	Ni	60	23526.213	0.05	9.6796	0.085	0.878	ug/L
	Cu	65	28288.572	0.06	11.3210	0.193	1.701	ug/L
	Zn	66	20493.851	0.04	14.2722	0.097	0.680	ug/L
>	Ge	72	503202.465	503202.46				ug/L
	As	75	10599.446	0.02	8.8591	0.188	2.125	ug/L
	Se	77	870.705	0.00	8.4787	0.304	3.590	ug/L
	Se	82	2305.720	0.00	19.8484	0.824	4.151	ug/L
	Rb	85	9881.312	0.02				mg/L
	Y	89	316695.360	-101181.65				ug/L
	Rh	103	405.012	390.01				ug/L
	Mo	98	13421.318	0.04	5.2448	0.056	1.069	ug/L
	Ag	107	18346.331	0.05	3.8224	0.017	0.456	ug/L
	Cd	114	4502.556	0.01	4.1522	0.164	3.953	ug/L
>	In	115	337387.978	337387.98				ug/L
	Sn	118	2905.489	0.01	0.7494	0.012	1.661	ug/L
	Sb	123	16043.760	0.05	4.8804	0.015	0.308	ug/L
	Ba	135	9085.884	0.02	6.4940	0.159	2.450	ug/L
	Ce	140	10002.667	0.02				ug/L
>	Tb	159	407185.586	407185.59				ug/L
	Ho	165	3110.798	0.01				ug/L
	Tl	203	24882.168	0.08	5.1834	0.072	1.396	ug/L
	Tl	205	61233.081	0.21	5.2567	0.177	3.366	ug/L
	Pb	206	20660.527	0.07	5.3437	0.083	1.560	ug/L
	Pb	207	17930.909	0.06	4.9660	0.023	0.465	ug/L
	Pb	208	82793.360	0.28	5.1475	0.047	0.923	ug/L
	U	238	1274471.399	4.28	57.3515	0.717	1.250	ug/L
>	Bi	209	297501.969	297501.97				ug/L

Sample ID: L1101004809SD WG353259-05
Report Date/Time: Friday, January 07, 2011 11:43:30
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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	S	S	S	S	S	mg/L
|	K	39	20810627.825	61.03	2.1399	0.070	3.260	mg/L
|	Ca	43	822902.909	2.47	35.5281	1.049	2.952	mg/L
|	Fe	54	56629.144	-0.05	-0.0179	0.001	6.919	mg/L
|	Fe	57	49118.649	0.12	0.1143	0.004	3.824	mg/L
⌊>	Sc-1	45	332627.719	332627.72				mg/L
	Cl	35	2779186.046	2761717.45				mg/L
	Kr	83	106.668	34.00				mg/L
	Br	81	819163.238	806894.38				mg/L
	P	31	18792.988	5737.76				mg/L
	S	34	46096871.762	45900167.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.521			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		75.280			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		71.046			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		59.170			
⌈	Na	23					

Sample ID: L1101004809SD WG353259-05
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101004809SD WG353259-05
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Method 6020 - Summary Report

Sample ID: L1101004810

Sample Date/Time: Friday, January 07, 2011 11:48:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	42055.013	0.03				ug/L
	Be	9	5.333	0.00	-0.0460	0.007	15.732	ug/L
	Al	27	23093.340	0.06	2.6369	0.441	16.726	ug/L
>	Sc	45	358019.787	358019.79				ug/L
	Ti	49	8330.996	0.01	9.8686	0.846	8.573	ug/L
	V	51	5430.775	0.00	0.0797	0.015	19.447	ug/L
	Cr	52	17406.325	0.01	0.3564	0.019	5.346	ug/L
	Cr	53	1340.225	0.00	0.8147	0.134	16.478	ug/L
	Mn	55	1174541.534	1.88	65.1774	0.864	1.326	ug/L
	Co	59	3330.923	0.01	0.2046	0.012	5.657	ug/L
	Ni	60	4391.347	0.01	1.4308	0.098	6.827	ug/L
	Cu	65	4336.317	0.01	1.3087	0.015	1.121	ug/L
	Zn	66	6705.317	0.01	3.5007	0.096	2.756	ug/L
>	Ge	72	625132.552	625132.55				ug/L
	As	75	2202.512	0.00	1.6173	0.085	5.256	ug/L
	Se	77	194.002	0.00	0.7295	0.125	17.197	ug/L
	Se	82	887.420	0.00	6.0782	0.298	4.896	ug/L
	Rb	85	9128.258	0.01				mg/L
	Y	89	391213.866	-26663.15				ug/L
	Rh	103	299.341	284.34				ug/L
	Mo	98	284.399	0.00	0.0965	0.005	5.661	ug/L
	Ag	107	48.001	0.00	0.0000	0.001	10427.589	ug/L
	Cd	114	4.462	-0.00	-0.0017	0.002	103.606	ug/L
>	In	115	426654.510	426654.51				ug/L
	Sn	118	279.604	0.00	0.0430	0.004	8.447	ug/L
	Sb	123	105.202	0.00	0.0428	0.001	2.207	ug/L
	Ba	135	1544.468	0.00	0.7805	0.006	0.769	ug/L
	Ce	140	1280.211	0.00				ug/L
>	Tb	159	558801.191	558801.19				ug/L
	Ho	165	240.027	0.00				ug/L
	Tl	203	63.668	0.00	0.0056	0.001	19.528	ug/L
	Tl	205	133.348	0.00	0.0016	0.003	185.900	ug/L
	Pb	206	434.347	0.00	0.0039	0.005	119.422	ug/L
	Pb	207	362.344	0.00	0.0059	0.001	8.626	ug/L
	Pb	208	1645.735	0.00	0.0012	0.003	208.853	ug/L
	U	238	170542.386	0.38	5.1285	0.143	2.793	ug/L
>	Bi	209	443342.963	443342.96				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	65593513.429	183.86	15.5453	0.857	5.516	mg/L
|	K	39	15567522.102	42.02	1.4717	0.055	3.731	mg/L
|	Ca	43	720554.453	2.02	28.9346	0.757	2.617	mg/L
|	Fe	54	59279.892	-0.06	-0.0196	0.003	15.519	mg/L
|	Fe	57	46888.762	0.10	0.0974	0.004	3.947	mg/L
⌊>	Sc-1	45	358019.787	358019.79				mg/L
	Cl	35	1017631.675	1000163.08				mg/L
	Kr	83	73.001	0.33				mg/L
	Br	81	432392.482	420123.62				mg/L
	P	31	10763.197	-2292.03				mg/L
	S	34	8196062.703	7999358.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.001			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.198			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.499			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.177			
⌈	Na	23					

Sample ID: L1101004810
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101004810
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Method 6020 - Summary Report

Sample ID: L1101004811

Sample Date/Time: Friday, January 07, 2011 12:01:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	35179.199	0.03				ug/L
	Be	9	4.000	-0.00	-0.0474	0.010	20.841	ug/L
	Al	27	28039.303	0.08	3.8206	0.224	5.868	ug/L
>	Sc	45	308359.615	308359.61				ug/L
	Ti	49	6025.771	0.01	8.0779	0.676	8.362	ug/L
	V	51	4874.429	0.00	0.0877	0.016	18.420	ug/L
	Cr	52	16193.648	0.01	0.4436	0.038	8.587	ug/L
	Cr	53	1003.484	0.00	0.6641	0.029	4.437	ug/L
	Mn	55	990731.784	1.80	62.4936	2.352	3.763	ug/L
	Co	59	2889.447	0.01	0.2015	0.007	3.317	ug/L
	Ni	60	3640.039	0.01	1.3452	0.099	7.336	ug/L
	Cu	65	3509.653	0.01	1.1958	0.024	2.047	ug/L
	Zn	66	5479.227	0.01	3.2265	0.055	1.715	ug/L
>	Ge	72	549788.817	549788.82				ug/L
	As	75	1208.886	0.00	1.0710	0.025	2.303	ug/L
	Se	77	160.001	0.00	0.6272	0.101	16.080	ug/L
	Se	82	528.992	0.00	4.0856	0.085	2.088	ug/L
	Rb	85	8279.512	0.02				mg/L
	Y	89	357190.143	-60686.87				ug/L
	Rh	103	236.672	221.67				ug/L
	Mo	98	281.586	0.00	0.1057	0.007	6.678	ug/L
	Ag	107	35.667	0.00	-0.0014	0.002	117.992	ug/L
	Cd	114	10.972	0.00	0.0040	0.001	25.485	ug/L
>	In	115	381381.420	381381.42				ug/L
	Sn	118	1000.317	0.00	0.2172	0.019	8.562	ug/L
	Sb	123	87.283	0.00	0.0411	0.002	4.542	ug/L
	Ba	135	1341.103	0.00	0.7509	0.023	3.072	ug/L
	Ce	140	1183.522	0.00				ug/L
>	Tb	159	503821.869	503821.87				ug/L
	Ho	165	226.692	0.00				ug/L
	Tl	203	37.000	0.00	0.0025	0.001	30.216	ug/L
	Tl	205	86.676	0.00	-0.0005	0.005	991.332	ug/L
	Pb	206	412.679	0.00	0.0079	0.008	98.261	ug/L
	Pb	207	386.678	0.00	0.0184	0.005	25.853	ug/L
	Pb	208	1703.741	0.00	0.0113	0.002	21.967	ug/L
	U	238	173423.810	0.43	5.7700	0.088	1.519	ug/L
>	Bi	209	400913.279	400913.28				ug/L

Sample ID: L1101004811
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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	60606148.399	196.83	16.6419	0.611	3.672	mg/L
|	K	39	12861382.039	40.16	1.4065	0.022	1.582	mg/L
|	Ca	43	603501.256	1.96	28.0714	0.467	1.664	mg/L
|	Fe	54	64359.608	-0.01	-0.0019	0.002	92.566	mg/L
|	Fe	57	39274.614	0.10	0.0939	0.004	4.180	mg/L
⌊>	Sc-1	45	308359.615	308359.61				mg/L
	Cl	35	807005.765	789537.17				mg/L
	Kr	83	80.334	7.67				mg/L
	Br	81	320703.883	308435.02				mg/L
	P	31	11855.062	-1200.16				mg/L
	S	34	6845983.966	6649279.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.346			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.096			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		87.907			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.738			
⌈	Na	23					

Sample ID: L1101004811
Report Date/Time: Friday, January 07, 2011 12:04:03
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101004811
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Method 6020 - Summary Report

Sample ID: L1101004811PS WG353319-01

Sample Date/Time: Friday, January 07, 2011 12:08:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	38608.046	0.03				ug/L
	Be	9	18934.583	0.06	48.8023	1.264	2.590	ug/L
	Al	27	379138.086	1.14	51.9510	2.086	4.015	ug/L
>	Sc	45	331164.368	331164.37				ug/L
	Ti	49	6819.677	0.01	8.6756	0.425	4.895	ug/L
	V	51	671972.626	1.15	52.9341	0.827	1.563	ug/L
	Cr	52	577777.195	0.97	53.2388	0.701	1.317	ug/L
	Cr	53	67691.764	0.12	54.2178	0.657	1.211	ug/L
	Mn	55	1929878.785	3.32	115.1852	0.560	0.486	ug/L
	Co	59	700493.805	1.20	52.7391	0.972	1.842	ug/L
	Ni	60	147536.601	0.25	52.6453	0.958	1.819	ug/L
	Cu	65	147718.661	0.25	51.4988	0.346	0.673	ug/L
	Zn	66	85362.670	0.15	52.3537	0.861	1.644	ug/L
>	Ge	72	581545.816	581545.82				ug/L
	As	75	75544.412	0.13	53.7914	0.061	0.113	ug/L
	Se	77	6079.848	0.01	56.1071	1.404	2.503	ug/L
	Se	82	7658.340	0.01	57.2661	0.568	0.993	ug/L
	Rb	85	8372.587	0.01				mg/L
	Y	89	375372.706	-42504.31				ug/L
	Rh	103	262.006	247.01				ug/L
	Mo	98	306.030	0.00	0.1093	0.004	3.843	ug/L
	Ag	107	228743.104	0.57	40.2578	1.144	2.841	ug/L
	Cd	114	66300.456	0.17	51.6118	0.156	0.302	ug/L
>	In	115	400145.146	400145.15				ug/L
	Sn	118	639.087	0.00	0.1267	0.006	4.381	ug/L
	Sb	123	216676.901	0.54	55.3915	0.268	0.484	ug/L
	Ba	135	97471.183	0.18	53.5444	0.576	1.076	ug/L
	Ce	140	1326.887	0.00				ug/L
>	Tb	159	531606.720	531606.72				ug/L
	Ho	165	173.352	0.00				ug/L
	Tl	203	357435.926	0.85	52.6720	0.541	1.027	ug/L
	Tl	205	878367.532	2.09	53.3601	0.705	1.321	ug/L
	Pb	206	298305.682	0.71	55.2119	0.626	1.133	ug/L
	Pb	207	263904.059	0.63	52.2625	0.733	1.403	ug/L
	Pb	208	1219103.095	2.89	54.2270	0.822	1.515	ug/L
	U	238	2013598.683	4.79	64.0605	0.881	1.375	ug/L
>	Bi	209	420747.777	420747.78				ug/L

Sample ID: L1101004811PS WG353319-01
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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	63627487.739	192.33	16.2619	0.816	5.021	mg/L
|	K	39	14315561.480	41.71	1.4609	0.077	5.295	mg/L
|	Ca	43	664644.032	2.01	28.8156	0.980	3.400	mg/L
|	Fe	54	71316.000	-0.01	0.0010	0.004	366.486	mg/L
|	Fe	57	42143.231	0.10	0.0942	0.015	15.687	mg/L
⌊>	Sc-1	45	331164.368	331164.37				mg/L
	Cl	35	858704.071	841235.48				mg/L
	Kr	83	84.335	11.67				mg/L
	Br	81	230106.019	217837.16				mg/L
	P	31	13856.983	801.76				mg/L
	S	34	7450319.891	7253615.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.680			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.283			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.754			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		83.683			
⌈	Na	23					

Sample ID: L1101004811PS WG353319-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1101004811PS WG353319-01
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Method 6020 - Summary Report

Sample ID: L1101004811SDL WG353319-02

Sample Date/Time: Friday, January 07, 2011 12:15:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31850.747	0.01				ug/L
	Be	9	8.000	0.00	-0.0378	0.008	21.771	ug/L
	Al	27	19235.410	0.05	2.3846	0.260	10.894	ug/L
>	Sc	45	321634.786	321634.79				ug/L
	Ti	49	1420.244	0.00	1.6003	0.175	10.949	ug/L
	V	51	4358.609	0.00	0.0120	0.005	43.950	ug/L
	Cr	52	13375.085	0.00	0.0445	0.020	45.822	ug/L
	Cr	53	520.066	0.00	0.2138	0.043	19.925	ug/L
	Mn	55	216981.173	0.36	12.4309	0.194	1.563	ug/L
	Co	59	694.698	0.00	0.0216	0.001	5.413	ug/L
	Ni	60	915.385	0.00	0.2886	0.023	7.882	ug/L
	Cu	65	1121.408	0.00	0.2767	0.019	6.746	ug/L
	Zn	66	3107.848	0.00	1.4981	0.015	1.022	ug/L
>	Ge	72	603904.911	603904.91				ug/L
	As	75	175.407	0.00	0.2827	0.054	19.127	ug/L
	Se	77	123.334	0.00	0.1485	0.189	127.523	ug/L
	Se	82	149.018	0.00	0.9672	0.283	29.211	ug/L
	Rb	85	1894.865	0.00				mg/L
	Y	89	402709.260	-15167.75				ug/L
	Rh	103	61.667	46.67				ug/L
	Mo	98	89.837	0.00	0.0361	0.002	5.036	ug/L
	Ag	107	14621.634	0.03	2.3476	1.304	55.561	ug/L
	Cd	114	7.754	-0.00	0.0006	0.003	519.765	ug/L
>	In	115	430596.171	430596.17				ug/L
	Sn	118	330.272	0.00	0.0530	0.004	6.618	ug/L
	Sb	123	64.078	0.00	0.0328	0.003	7.676	ug/L
	Ba	135	285.674	0.00	0.1241	0.015	11.953	ug/L
	Ce	140	326.705	0.00				ug/L
>	Tb	159	551895.270	551895.27				ug/L
	Ho	165	23.336	0.00				ug/L
	Tl	203	98.001	0.00	0.0097	0.003	28.060	ug/L
	Tl	205	240.027	0.00	0.0069	0.005	69.142	ug/L
	Pb	206	408.346	0.00	-0.0046	0.004	97.315	ug/L
	Pb	207	364.010	0.00	0.0025	0.005	199.706	ug/L
	Pb	208	1659.404	0.00	-0.0019	0.002	95.620	ug/L
	U	238	37738.600	0.08	1.0568	0.021	2.010	ug/L
>	Bi	209	468087.299	468087.30				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	13205237.710	41.07	3.4676	0.075	2.172	mg/L
|	K	39	3338761.776	8.83	0.3054	0.009	3.021	mg/L
|	Ca	43	131533.313	0.41	5.8519	0.172	2.941	mg/L
|	Fe	54	40587.171	-0.10	-0.0362	0.002	4.659	mg/L
|	Fe	57	18208.402	0.03	0.0237	0.002	9.859	mg/L
⌊>	Sc-1	45	321634.786	321634.79				mg/L
	Cl	35	183892.146	166423.55				mg/L
	Kr	83	75.001	2.33				mg/L
	Br	81	97178.781	84909.92				mg/L
	P	31	7442.123	-5613.10				mg/L
	S	34	1785444.710	1588740.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.435			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.077			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.294			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.098			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101004811SDL WG353319-02
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 12:22:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29760.929	0.00				ug/L
	Be	9	19277.898	0.06	51.1544	1.472	2.877	ug/L
	Al	27	383900.550	1.18	54.1205	0.955	1.765	ug/L
>	Sc	45	321782.364	321782.36				ug/L
	Ti	49	78709.772	0.13	98.2434	1.006	1.024	ug/L
	V	51	642762.853	1.06	48.7766	0.795	1.630	ug/L
	Cr	52	555839.233	0.90	49.2811	0.354	0.719	ug/L
	Cr	53	63319.525	0.10	48.8680	1.184	2.424	ug/L
	Mn	55	878112.616	1.45	50.4978	0.625	1.238	ug/L
	Co	59	677554.816	1.12	49.1591	0.958	1.949	ug/L
	Ni	60	144270.217	0.24	49.6166	1.031	2.078	ug/L
	Cu	65	148673.195	0.25	49.9590	0.388	0.777	ug/L
	Zn	66	85322.988	0.14	50.4234	0.471	0.933	ug/L
>	Ge	72	603287.514	603287.51				ug/L
	As	75	72619.048	0.12	49.8575	0.507	1.018	ug/L
	Se	77	5654.934	0.01	50.1907	2.093	4.170	ug/L
	Se	82	7181.700	0.01	51.7544	1.080	2.087	ug/L
	Rb	85	3080.172	0.01				mg/L
	Y	89	413900.049	-3976.96				ug/L
	Rh	103	29.334	14.33				ug/L
	Mo	98	333615.919	0.75	99.1496	1.540	1.554	ug/L
	Ag	107	314759.971	0.71	50.0421	0.113	0.225	ug/L
	Cd	114	71702.173	0.16	50.4214	0.489	0.969	ug/L
>	In	115	442980.603	442980.60				ug/L
	Sn	118	249750.582	0.56	50.0437	0.312	0.623	ug/L
	Sb	123	219082.111	0.49	50.5932	0.443	0.875	ug/L
	Ba	135	97955.793	0.17	50.5895	0.842	1.664	ug/L
	Ce	140	63.340	0.00				ug/L
>	Tb	159	565519.272	565519.27				ug/L
	Ho	165	16.668	0.00				ug/L
	Tl	203	402790.433	0.81	50.1542	0.540	1.077	ug/L
	Tl	205	975796.246	1.96	50.0862	0.365	0.729	ug/L
	Pb	206	320970.663	0.64	50.1911	0.111	0.221	ug/L
	Pb	207	300567.254	0.60	50.2921	1.109	2.205	ug/L
	Pb	208	1336413.491	2.68	50.2278	0.504	1.003	ug/L
	U	238	1956115.632	3.93	52.5827	0.296	0.563	ug/L
>	Bi	209	497963.472	497963.47				ug/L

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Na	23	34141344.095	106.14	5.9073	0.262	4.438	mg/L
Mg	24	21894629.811	68.05	5.7497	0.108	1.883	mg/L
K	39	49883710.471	153.71	5.3965	0.387	7.181	mg/L
Ca	43	115299.521	0.36	5.1393	0.347	6.744	mg/L
Fe	54	4300931.643	13.15	5.4879	0.084	1.525	mg/L
Fe	57	1769174.232	5.47	5.4406	0.137	2.511	mg/L
Sc-1	45	321782.364	321782.36				mg/L
Cl	35	17636.207	167.61				mg/L
Kr	83	77.334	4.67				mg/L
Br	81	39040.061	26771.20				mg/L
P	31	15503.575	2448.35				mg/L
S	34	215062.372	18358.21				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	97.553				
Cr	52	98.562				
Cr	53					
Mn	55	100.996				
Co	59	98.318				
Ni	60	99.233				
Cu	65	99.918				
Zn	66	100.847				
Ge	72		101.332			
As	75	99.715				
Se	77					
Se	82	103.509				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.084				
Cd	114	100.843				
In	115		98.841			
Sn	118					
Sb	123	101.186				
Ba	135	101.179				
Ce	140					
Tb	159		98.672			
Ho	165					
Tl	203	100.308				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.456				
U	238	105.165				
Bi	209		99.040			
Na	23					

Sample ID: QC Std 6
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 12:29:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28607.531	0.00				ug/L
	Be	9	5.333	0.00	-0.0447	0.005	12.286	ug/L
	Al	27	2200.250	-0.00	-0.0240	0.062	259.671	ug/L
>	Sc	45	320927.117	320927.12				ug/L
	Ti	49	86.676	0.00	-0.0605	0.019	32.111	ug/L
	V	51	3914.520	-0.00	-0.0186	0.001	5.071	ug/L
	Cr	52	12334.727	-0.00	-0.0374	0.026	70.859	ug/L
	Cr	53	410.050	0.00	0.1325	0.045	34.226	ug/L
	Mn	55	408.679	0.00	-0.0159	0.003	18.913	ug/L
	Co	59	99.001	0.00	-0.0215	0.000	0.773	ug/L
	Ni	60	30.334	-0.00	-0.0151	0.001	7.708	ug/L
	Cu	65	437.347	0.00	0.0486	0.017	35.975	ug/L
	Zn	66	514.685	0.00	-0.0400	0.011	26.259	ug/L
>	Ge	72	597511.972	597511.97				ug/L
	As	75	-182.250	0.00	0.0383	0.064	165.957	ug/L
	Se	77	112.001	0.00	0.0608	0.211	347.144	ug/L
	Se	82	40.824	0.00	0.1958	0.112	56.999	ug/L
	Rb	85	19.000	-0.00				mg/L
	Y	89	407642.948	-10234.07				ug/L
	Rh	103	3.333	-11.67				ug/L
	Mo	98	151.646	0.00	0.0538	0.002	3.166	ug/L
	Ag	107	135.002	0.00	0.0136	0.002	12.852	ug/L
	Cd	114	8.063	-0.00	0.0008	0.006	761.334	ug/L
>	In	115	441276.803	441276.80				ug/L
	Sn	118	498.812	0.00	0.0852	0.003	3.781	ug/L
	Sb	123	305.500	0.00	0.0884	0.011	11.881	ug/L
	Ba	135	15.000	-0.00	-0.0195	0.002	9.408	ug/L
	Ce	140	23.336	0.00				ug/L
>	Tb	159	559063.645	559063.65				ug/L
	Ho	165	3.334	-0.00				ug/L
	Tl	203	22.334	0.00	-0.0005	0.000	84.750	ug/L
	Tl	205	46.671	0.00	-0.0037	0.001	20.328	ug/L
	Pb	206	405.012	-0.00	-0.0097	0.002	20.612	ug/L
	Pb	207	351.676	-0.00	-0.0039	0.003	67.328	ug/L
	Pb	208	1638.736	-0.00	-0.0073	0.001	12.902	ug/L
	U	238	117.669	0.00	-0.0193	0.000	0.654	ug/L
>	Bi	209	502877.822	502877.82				ug/L

Sample ID: QC Std 7
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⌈	Na	23	176986.912	0.49	0.0203	0.002	8.865	mg/L
|	Mg	24	376.712	0.00	-0.0065	0.000	0.261	mg/L
|	K	39	517256.686	0.05	-0.0029	0.003	107.152	mg/L
|	Ca	43	273.364	-0.00	-0.0011	0.002	141.310	mg/L
|	Fe	54	66424.325	-0.01	-0.0023	0.007	303.857	mg/L
|	Fe	57	11103.950	0.01	0.0018	0.003	167.511	mg/L
⌊>	Sc-1	45	320927.117	320927.12				mg/L
	Cl	35	17642.217	173.62				mg/L
	Kr	83	58.667	-14.00				mg/L
	Br	81	29255.400	16986.54				mg/L
	P	31	13338.232	283.00				mg/L
	S	34	209657.076	12952.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.362			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.460			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.545			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.017			
⌈	Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 12:31:29
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Method 6020 - Summary Report

Sample ID: PBS 57 WG353233-02

Sample Date/Time: Friday, January 07, 2011 12:36:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26986.416	-0.01				ug/L
	Be	9	7.333	0.00	-0.0401	0.008	20.944	ug/L
	Al	27	8036.577	0.01	0.7504	0.123	16.439	ug/L
>	Sc	45	338558.443	338558.44				ug/L
	Ti	49	146.682	0.00	0.0123	0.040	329.766	ug/L
	V	51	4046.004	0.00	-0.0135	0.004	26.828	ug/L
	Cr	52	12973.875	0.00	0.0017	0.015	899.193	ug/L
	Cr	53	413.383	0.00	0.1302	0.023	17.643	ug/L
	Mn	55	1378.776	0.00	0.0392	0.002	4.706	ug/L
	Co	59	94.668	-0.00	-0.0219	0.001	3.260	ug/L
	Ni	60	125.335	0.00	0.0171	0.008	44.110	ug/L
	Cu	65	570.022	0.00	0.0906	0.007	7.505	ug/L
	Zn	66	2912.120	0.00	1.3719	0.032	2.322	ug/L
>	Ge	72	607373.593	607373.59				ug/L
	As	75	-199.219	0.00	0.0286	0.016	57.269	ug/L
	Se	77	96.667	0.00	-0.0936	0.167	178.626	ug/L
	Se	82	26.438	0.00	0.0875	0.064	73.013	ug/L
	Rb	85	75.334	0.00				mg/L
	Y	89	415550.363	-2326.65				ug/L
	Rh	103	5.000	-10.00				ug/L
	Mo	98	154.459	0.00	0.0538	0.005	8.947	ug/L
	Ag	107	103.002	0.00	0.0082	0.002	22.376	ug/L
	Cd	114	10.562	-0.00	0.0025	0.007	293.370	ug/L
>	In	115	449974.421	449974.42				ug/L
	Sn	118	1452.639	0.00	0.2715	0.011	4.051	ug/L
	Sb	123	150.830	0.00	0.0519	0.003	6.203	ug/L
	Ba	135	39.000	0.00	-0.0073	0.003	39.785	ug/L
	Ce	140	26.669	0.00				ug/L
>	Tb	159	567765.898	567765.90				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	24.000	0.00	-0.0003	0.001	226.116	ug/L
	Tl	205	23.336	0.00	-0.0049	0.001	26.241	ug/L
	Pb	206	471.016	0.00	0.0002	0.002	1196.762	ug/L
	Pb	207	400.012	0.00	0.0038	0.002	58.982	ug/L
	Pb	208	1881.089	0.00	0.0014	0.001	68.742	ug/L
	U	238	45.667	0.00	-0.0212	0.000	0.962	ug/L
>	Bi	209	505133.408	505133.41				ug/L

Sample ID: PBS 57 WG353233-02
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⌈	Na	23	255117.916	0.69	0.0315	0.002	6.093	mg/L
|	Mg	24	2010.403	0.01	-0.0061	0.000	0.503	mg/L
|	K	39	577139.153	0.14	0.0002	0.001	364.283	mg/L
|	Ca	43	336.706	0.00	0.0009	0.002	229.147	mg/L
|	Fe	54	68463.391	-0.02	-0.0045	0.003	75.955	mg/L
|	Fe	57	10523.257	0.00	-0.0018	0.001	32.434	mg/L
⌊>	Sc-1	45	338558.443	338558.44				mg/L
	Cl	35	17327.679	-140.91				mg/L
	Kr	83	64.668	-8.00				mg/L
	Br	81	25999.762	13730.90				mg/L
	P	31	14101.354	1046.13				mg/L
	S	34	213163.930	16459.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.018			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.401			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.063			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.466			
⌈	Na	23					

Sample ID: PBS 57 WG353233-02
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 57 WG353233-02
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Method 6020 - Summary Report

Sample ID: LCSW 57 WG353233-03

Sample Date/Time: Friday, January 07, 2011 12:42:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27671.736	-0.00				ug/L
	Be	9	9352.372	0.03	23.9945	0.514	2.141	ug/L
	Al	27	184164.156	0.55	24.9646	0.561	2.248	ug/L
>	Sc	45	332318.934	332318.93				ug/L
	Ti	49	100.011	0.00	-0.0458	0.021	46.837	ug/L
	V	51	336412.203	0.55	25.2035	0.265	1.053	ug/L
	Cr	52	302097.658	0.48	26.0671	0.427	1.638	ug/L
	Cr	53	35245.547	0.06	26.9332	0.675	2.507	ug/L
	Mn	55	464597.191	0.76	26.5199	0.311	1.171	ug/L
	Co	59	356822.020	0.59	25.7032	0.423	1.644	ug/L
	Ni	60	77465.328	0.13	26.4502	0.099	0.374	ug/L
	Cu	65	77549.352	0.13	25.8364	0.398	1.539	ug/L
	Zn	66	45651.427	0.07	26.6344	0.244	0.917	ug/L
>	Ge	72	607341.528	607341.53				ug/L
	As	75	36215.955	0.06	24.7814	0.362	1.462	ug/L
	Se	77	2985.112	0.00	25.8617	0.609	2.356	ug/L
	Se	82	3694.248	0.01	26.3929	0.547	2.074	ug/L
	Rb	85	46.001	0.00				mg/L
	Y	89	419768.817	1891.80				ug/L
	Rh	103	24.000	9.00				ug/L
	Mo	98	105.166	0.00	0.0394	0.004	10.418	ug/L
	Ag	107	161724.929	0.36	25.3556	0.060	0.236	ug/L
	Cd	114	37322.075	0.08	25.8800	0.275	1.062	ug/L
>	In	115	449138.872	449138.87				ug/L
	Sn	118	557.482	0.00	0.0950	0.003	2.666	ug/L
	Sb	123	113000.864	0.25	25.7441	0.189	0.733	ug/L
	Ba	135	49627.672	0.09	25.7186	0.209	0.813	ug/L
	Ce	140	43.338	0.00				ug/L
>	Tb	159	563276.552	563276.55				ug/L
	Ho	165	10.001	-0.00				ug/L
	Tl	203	207688.073	0.41	25.4771	0.416	1.634	ug/L
	Tl	205	512155.950	1.01	25.8973	0.458	1.767	ug/L
	Pb	206	169689.118	0.33	26.1092	0.510	1.953	ug/L
	Pb	207	151152.669	0.30	24.8831	0.343	1.379	ug/L
	Pb	208	692583.499	1.37	25.6102	0.130	0.507	ug/L
	U	238	1004308.885	1.99	26.5875	0.360	1.353	ug/L
>	Bi	209	505459.520	505459.52				ug/L

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Na	23	200457.043	0.54	0.0231	0.000	1.163	mg/L
Mg	24	1570.281	0.00	-0.0062	0.000	0.595	mg/L
K	39	582803.413	0.19	0.0020	0.003	130.256	mg/L
Ca	43	286.700	-0.00	-0.0010	0.003	314.705	mg/L
Fe	54	73771.814	0.00	0.0038	0.004	112.869	mg/L
Fe	57	11798.168	0.01	0.0026	0.002	71.408	mg/L
Sc-1	45	332318.934	332318.93				mg/L
Cl	35	17101.294	-367.30				mg/L
Kr	83	56.667	-16.00				mg/L
Br	81	25114.845	12845.98				mg/L
P	31	14943.200	1887.97				mg/L
S	34	217655.126	20950.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.013			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		100.215			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		98.280			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		100.531			
Na	23					

Sample ID: LCSW 57 WG353233-03
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 57 WG353233-03
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Method 6020 - Summary Report

Sample ID: L1101007803 WG353233-01

Sample Date/Time: Friday, January 07, 2011 12:49:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29894.638	0.00				ug/L
	Be	9	90.000	0.00	0.1743	0.013	7.543	ug/L
	Al	27	17294546.122	52.43	2392.7136	70.105	2.930	ug/L
>	Sc	45	329768.197	329768.20				ug/L
	Ti	49	1580.285	0.00	1.8252	0.301	16.501	ug/L
	V	51	107524.507	0.17	7.9750	0.320	4.016	ug/L
	Cr	52	73162.104	0.10	5.5390	0.288	5.191	ug/L
	Cr	53	7363.460	0.01	5.5729	0.481	8.629	ug/L
	Mn	55	2266916.315	3.79	131.7340	5.453	4.139	ug/L
	Co	59	67167.193	0.11	4.8964	0.226	4.610	ug/L
	Ni	60	69766.212	0.12	24.2202	0.996	4.112	ug/L
	Cu	65	120053.309	0.20	40.7283	1.483	3.641	ug/L
	Zn	66	66863.944	0.11	39.8397	1.117	2.803	ug/L
>	Ge	72	597218.756	597218.76				ug/L
	As	75	10131.979	0.02	7.1669	0.292	4.081	ug/L
	Se	77	330.672	0.00	2.0597	0.102	4.946	ug/L
	Se	82	342.788	0.00	2.3983	0.159	6.621	ug/L
	Rb	85	75446.704	0.13				mg/L
	Y	89	443226.507	25349.49				ug/L
	Rh	103	44.334	29.33				ug/L
	Mo	98	11706.432	0.03	3.5737	0.103	2.874	ug/L
	Ag	107	1896.866	0.00	0.3012	0.005	1.776	ug/L
	Cd	114	577.102	0.00	0.4110	0.023	5.547	ug/L
>	In	115	432221.329	432221.33				ug/L
	Sn	118	272.937	0.00	0.0409	0.002	4.079	ug/L
	Sb	123	496.786	0.00	0.1351	0.008	6.015	ug/L
	Ba	135	1034836.054	1.88	548.3158	14.223	2.594	ug/L
	Ce	140	92290.049	0.17				ug/L
>	Tb	159	551358.213	551358.21				ug/L
	Ho	165	2473.889	0.01				ug/L
	Tl	203	3856.450	0.01	0.4864	0.023	4.730	ug/L
	Tl	205	9775.780	0.02	0.5056	0.048	9.522	ug/L
	Pb	206	94992.797	0.19	15.0939	0.564	3.734	ug/L
	Pb	207	79714.266	0.16	13.5540	0.547	4.036	ug/L
	Pb	208	374851.554	0.76	14.3150	0.529	3.692	ug/L
	U	238	29895.619	0.06	0.7973	0.025	3.196	ug/L
>	Bi	209	488393.814	488393.81				ug/L

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⌈	Na	23	4336450.184	13.09	0.7225	0.019	2.592	mg/L
|	Mg	24	6502053.825	19.73	1.6620	0.048	2.896	mg/L
|	K	39	9825148.021	28.23	0.9873	0.018	1.809	mg/L
|	Ca	43	358221.991	1.09	15.5804	0.302	1.938	mg/L
|	Fe	54	8219076.153	24.69	10.3032	0.214	2.082	mg/L
|	Fe	57	3228852.874	9.76	9.7034	0.340	3.506	mg/L
⌊>	Sc-1	45	329768.197	329768.20				mg/L
	Cl	35	126209.561	108740.97				mg/L
	Kr	83	64.001	-8.67				mg/L
	Br	81	31830.669	19561.81				mg/L
	P	31	51417.191	38361.96				mg/L
	S	34	434553.899	237849.74				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.312			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.440			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.201			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.137			
⌈	Na	23					

Sample ID: L1101007803 WG353233-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1101007803 WG353233-01
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007803S WG353233-04

Sample Date/Time: Friday, January 07, 2011 12:56:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30245.841	0.01				ug/L
	Be	9	1733.484	0.01	4.6140	0.248	5.381	ug/L
	Al	27	21007793.808	66.28	3024.8715	96.206	3.181	ug/L
>	Sc	45	316980.211	316980.21				ug/L
	Ti	49	1857.025	0.00	2.2251	0.117	5.258	ug/L
	V	51	173315.958	0.29	13.3312	0.247	1.853	ug/L
	Cr	52	125486.063	0.19	10.5779	0.014	0.129	ug/L
	Cr	53	13824.272	0.02	10.8598	0.502	4.619	ug/L
	Mn	55	2254090.478	3.85	133.7596	3.562	2.663	ug/L
	Co	59	117828.109	0.20	8.7940	0.193	2.189	ug/L
	Ni	60	78075.872	0.13	27.6807	0.771	2.784	ug/L
	Cu	65	121538.096	0.21	42.1058	1.322	3.139	ug/L
	Zn	66	83705.815	0.14	51.0212	1.029	2.017	ug/L
>	Ge	72	584963.754	584963.75				ug/L
	As	75	14068.421	0.02	10.0926	0.009	0.088	ug/L
	Se	77	743.361	0.00	5.9740	0.293	4.901	ug/L
	Se	82	827.164	0.00	6.0579	0.125	2.070	ug/L
	Rb	85	89226.962	0.15				mg/L
	Y	89	439667.688	21790.67				ug/L
	Rh	103	51.667	36.67				ug/L
	Mo	98	12146.437	0.03	3.7731	0.061	1.621	ug/L
	Ag	107	23828.263	0.06	3.9438	0.049	1.254	ug/L
	Cd	114	6682.826	0.02	4.8966	0.170	3.466	ug/L
>	In	115	424741.152	424741.15				ug/L
	Sn	118	324.272	0.00	0.0526	0.001	1.885	ug/L
	Sb	123	537.619	0.00	0.1471	0.005	3.617	ug/L
	Ba	135	1016516.685	1.85	541.6247	12.561	2.319	ug/L
	Ce	140	102176.361	0.19				ug/L
>	Tb	159	548367.407	548367.41				ug/L
	Ho	165	2964.069	0.01				ug/L
	Tl	203	37415.585	0.08	4.7478	0.087	1.833	ug/L
	Tl	205	90685.424	0.19	4.7399	0.127	2.672	ug/L
	Pb	206	128270.113	0.26	20.4096	0.036	0.179	ug/L
	Pb	207	108773.042	0.22	18.5173	0.256	1.381	ug/L
	Pb	208	506672.660	1.03	19.3738	0.213	1.100	ug/L
	U	238	201151.100	0.41	5.4937	0.108	1.961	ug/L
>	Bi	209	488363.582	488363.58				ug/L

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Na	23	4567885.930	14.35	0.7924	0.012	1.513	mg/L
Mg	24	6890388.218	21.74	1.8319	0.043	2.342	mg/L
K	39	11618901.988	35.10	1.2285	0.010	0.825	mg/L
Ca	43	422147.600	1.33	19.1144	0.403	2.107	mg/L
Fe	54	7550409.268	23.60	9.8472	0.273	2.771	mg/L
Fe	57	2984119.386	9.39	9.3350	0.081	0.866	mg/L
Sc-1	45	316980.211	316980.21				mg/L
Cl	35	126075.176	108606.58				mg/L
Kr	83	63.334	-9.33				mg/L
Br	81	29014.035	16745.17				mg/L
P	31	53927.774	40872.55				mg/L
S	34	393520.450	196816.29				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.254			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		94.771			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		95.679			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		97.131			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1101007803S WG353233-04
Report Date/Time: Friday, January 07, 2011 12:58:31
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Method 6020 - Summary Report

Sample ID: L1101007803SD WG353233-05

Sample Date/Time: Friday, January 07, 2011 13:03:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29359.752	0.00				ug/L
	Be	9	1450.772	0.00	3.7129	0.142	3.831	ug/L
	Al	27	15873864.034	48.33	2205.5955	190.048	8.617	ug/L
>	Sc	45	328999.373	328999.37				ug/L
	Ti	49	1320.220	0.00	1.5202	0.170	11.207	ug/L
	V	51	124781.364	0.21	9.4352	0.572	6.058	ug/L
	Cr	52	104558.992	0.16	8.5461	0.447	5.229	ug/L
	Cr	53	10786.916	0.02	8.3644	0.566	6.766	ug/L
	Mn	55	2230302.362	3.78	131.3368	7.753	5.903	ug/L
	Co	59	93309.077	0.16	6.9055	0.380	5.504	ug/L
	Ni	60	54291.487	0.09	19.0974	0.888	4.652	ug/L
	Cu	65	77392.172	0.13	26.5735	1.370	5.156	ug/L
	Zn	66	53363.768	0.09	32.1578	1.271	3.951	ug/L
>	Ge	72	589167.319	589167.32				ug/L
	As	75	10357.818	0.02	7.4189	0.410	5.529	ug/L
	Se	77	626.020	0.00	4.8362	0.111	2.305	ug/L
	Se	82	633.086	0.00	4.5768	0.288	6.299	ug/L
	Rb	85	64764.209	0.11				mg/L
	Y	89	428062.908	10185.89				ug/L
	Rh	103	44.667	29.67				ug/L
	Mo	98	6713.748	0.02	2.1056	0.082	3.905	ug/L
	Ag	107	17764.990	0.04	2.9610	0.185	6.256	ug/L
	Cd	114	5332.738	0.01	3.9369	0.199	5.062	ug/L
>	In	115	421405.107	421405.11				ug/L
	Sn	118	940.978	0.00	0.1831	0.004	2.432	ug/L
	Sb	123	414.542	0.00	0.1182	0.003	2.413	ug/L
	Ba	135	1046318.313	1.94	567.7435	26.773	4.716	ug/L
	Ce	140	105596.670	0.20				ug/L
>	Tb	159	538366.843	538366.84				ug/L
	Ho	165	2677.293	0.01				ug/L
	Tl	203	29762.944	0.06	3.7947	0.154	4.067	ug/L
	Tl	205	72704.329	0.15	3.8188	0.129	3.381	ug/L
	Pb	206	88816.771	0.18	14.1821	0.467	3.290	ug/L
	Pb	207	75758.045	0.16	12.9458	0.462	3.571	ug/L
	Pb	208	354028.259	0.73	13.5848	0.650	4.784	ug/L
	U	238	157490.164	0.32	4.3176	0.230	5.325	ug/L
>	Bi	209	485752.794	485752.79				ug/L

Sample ID: L1101007803SD WG353233-05
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Na	23	3932563.173	11.90	0.6561	0.060	9.193	mg/L
Mg	24	6589084.179	20.03	1.6879	0.122	7.254	mg/L
K	39	8678349.190	24.83	0.8679	0.067	7.744	mg/L
Ca	43	515989.646	1.57	22.5153	1.017	4.515	mg/L
Fe	54	6190351.472	18.62	7.7709	0.808	10.399	mg/L
Fe	57	2432630.501	7.37	7.3342	0.543	7.407	mg/L
Sc-1	45	328999.373	328999.37				mg/L
Cl	35	111320.960	93852.37				mg/L
Kr	83	70.334	-2.33				mg/L
Br	81	25943.614	13674.75				mg/L
P	31	47239.612	34184.38				mg/L
S	34	360120.885	163416.72				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.960			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		94.027			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		93.934			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		96.611			
Na	23					

Sample ID: L1101007803SD WG353233-05
Report Date/Time: Friday, January 07, 2011 13:05:17
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1101007803SD WG353233-05
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Method 6020 - Summary Report

Sample ID: L1012087321

Sample Date/Time: Friday, January 07, 2011 13:09:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28691.152	0.00				ug/L
	Be	9	30.667	0.00	0.0236	0.046	194.595	ug/L
	Al	27	7196675.701	22.72	1037.1308	33.257	3.207	ug/L
>	Sc	45	316635.371	316635.37				ug/L
	Ti	49	9795.779	0.02	12.5180	0.590	4.715	ug/L
	V	51	33909.666	0.05	2.3624	0.112	4.721	ug/L
	Cr	52	30134.663	0.03	1.6649	0.101	6.076	ug/L
	Cr	53	2597.267	0.00	1.8953	0.266	14.057	ug/L
	Mn	55	416588.139	0.71	24.7958	1.215	4.898	ug/L
	Co	59	8364.587	0.01	0.6004	0.039	6.424	ug/L
	Ni	60	5282.451	0.01	1.8571	0.133	7.185	ug/L
	Cu	65	1901.200	0.00	0.5630	0.026	4.676	ug/L
	Zn	66	14076.389	0.02	8.3266	0.462	5.543	ug/L
>	Ge	72	582572.750	582572.75				ug/L
	As	75	741.456	0.00	0.6897	0.059	8.526	ug/L
	Se	77	88.667	0.00	-0.1301	0.164	125.733	ug/L
	Se	82	12.423	0.00	-0.0100	0.117	1167.565	ug/L
	Rb	85	12875.090	0.02				mg/L
	Y	89	415928.724	-1948.29				ug/L
	Rh	103	7.000	-8.00				ug/L
	Mo	98	433.292	0.00	0.1448	0.006	4.232	ug/L
	Ag	107	91.001	0.00	0.0074	0.000	3.966	ug/L
	Cd	114	26.921	0.00	0.0151	0.003	21.032	ug/L
>	In	115	418942.441	418942.44				ug/L
	Sn	118	206.935	0.00	0.0287	0.002	7.831	ug/L
	Sb	123	71.036	0.00	0.0350	0.001	4.123	ug/L
	Ba	135	18096.223	0.03	9.7375	0.446	4.583	ug/L
	Ce	140	173104.882	0.32				ug/L
>	Tb	159	541637.653	541637.65				ug/L
	Ho	165	2023.743	0.00				ug/L
	Tl	203	197.671	0.00	0.0218	0.002	9.116	ug/L
	Tl	205	423.385	0.00	0.0161	0.006	40.112	ug/L
	Pb	206	8576.431	0.02	1.2964	0.052	4.048	ug/L
	Pb	207	7003.857	0.01	1.1337	0.051	4.510	ug/L
	Pb	208	33065.080	0.06	1.2000	0.052	4.342	ug/L
	U	238	5529.252	0.01	0.1292	0.007	5.300	ug/L
>	Bi	209	488679.982	488679.98				ug/L

Sample ID: L1012087321
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⌈	Na	23	184477.955	0.52	0.0219	0.001	4.341	mg/L
|	Mg	24	1359093.125	4.29	0.3565	0.012	3.325	mg/L
|	K	39	1138626.739	2.03	0.0667	0.002	2.566	mg/L
|	Ca	43	15440.163	0.05	0.6865	0.043	6.246	mg/L
|	Fe	54	2303362.578	7.05	2.9450	0.072	2.446	mg/L
|	Fe	57	953858.438	2.98	2.9643	0.141	4.765	mg/L
⌊>	Sc-1	45	316635.371	316635.37				mg/L
	Cl	35	27747.133	10278.54				mg/L
	Kr	83	66.334	-6.33				mg/L
	Br	81	17925.400	5656.54				mg/L
	P	31	113988.061	100932.83				mg/L
	S	34	188058.808	-8645.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.852			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.477			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.505			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.194			
⌈	Na	23					

Sample ID: L1012087321
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1012087321
Report Date/Time: Friday, January 07, 2011 13:12:03
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Method 6020 - Summary Report

Sample ID: L1012087322

Sample Date/Time: Friday, January 07, 2011 13:16:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28590.822	0.00				ug/L
	Be	9	31.333	0.00	0.0230	0.023	98.549	ug/L
	Al	27	5949150.240	18.36	837.7865	85.339	10.186	ug/L
>	Sc	45	324797.555	324797.56				ug/L
	Ti	49	10152.835	0.02	12.8875	0.374	2.905	ug/L
	V	51	35808.139	0.05	2.4925	0.029	1.163	ug/L
	Cr	52	29623.793	0.03	1.5974	0.064	3.986	ug/L
	Cr	53	2333.840	0.00	1.6719	0.128	7.632	ug/L
	Mn	55	375126.117	0.64	22.1639	0.254	1.146	ug/L
	Co	59	6349.078	0.01	0.4453	0.002	0.555	ug/L
	Ni	60	3420.286	0.01	1.1848	0.032	2.701	ug/L
	Cu	65	1594.476	0.00	0.4520	0.007	1.607	ug/L
	Zn	66	11860.816	0.02	6.9096	0.108	1.564	ug/L
>	Ge	72	586568.519	586568.52				ug/L
	As	75	429.726	0.00	0.4665	0.052	11.114	ug/L
	Se	77	92.667	0.00	-0.0995	0.072	71.863	ug/L
	Se	82	11.426	0.00	-0.0172	0.074	428.943	ug/L
	Rb	85	11006.832	0.02				mg/L
	Y	89	421893.889	4016.88				ug/L
	Rh	103	8.000	-7.00				ug/L
	Mo	98	294.509	0.00	0.0999	0.004	3.904	ug/L
	Ag	107	67.668	0.00	0.0033	0.001	26.144	ug/L
	Cd	114	22.024	0.00	0.0112	0.003	26.144	ug/L
>	In	115	424785.481	424785.48				ug/L
	Sn	118	914.575	0.00	0.1760	0.012	7.074	ug/L
	Sb	123	73.036	0.00	0.0352	0.003	9.075	ug/L
	Ba	135	13600.379	0.02	7.2164	0.115	1.591	ug/L
	Ce	140	143817.849	0.26				ug/L
>	Tb	159	548655.622	548655.62				ug/L
	Ho	165	1690.312	0.00				ug/L
	Tl	203	281.007	0.00	0.0316	0.003	8.998	ug/L
	Tl	205	650.086	0.00	0.0272	0.005	17.364	ug/L
	Pb	206	15424.711	0.03	2.3329	0.017	0.739	ug/L
	Pb	207	13066.663	0.03	2.1178	0.004	0.206	ug/L
	Pb	208	61128.540	0.12	2.2228	0.011	0.487	ug/L
	U	238	4764.182	0.01	0.1052	0.002	2.340	ug/L
>	Bi	209	500026.463	500026.46				ug/L

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Na	23	211522.315	0.59	0.0258	0.002	7.710	mg/L
Mg	24	1161275.002	3.58	0.2960	0.008	2.686	mg/L
K	39	1033284.026	1.62	0.0522	0.004	8.469	mg/L
Ca	43	11928.307	0.04	0.5152	0.040	7.806	mg/L
Fe	54	1839727.195	5.46	2.2794	0.193	8.463	mg/L
Fe	57	753783.547	2.29	2.2799	0.121	5.290	mg/L
Sc-1	45	324797.555	324797.56				mg/L
Cl	35	23575.762	6107.17				mg/L
Kr	83	66.001	-6.67				mg/L
Br	81	18239.294	5970.43				mg/L
P	31	91088.989	78033.76				mg/L
S	34	194704.790	-1999.37				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.523			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		94.781			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		95.729			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.450			
Na	23					

Sample ID: L1012087322
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1012087322
Report Date/Time: Friday, January 07, 2011 13:18:49
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Method 6020 - Summary Report

Sample ID: L1012087322PS WG353318-01

Sample Date/Time: Friday, January 07, 2011 13:23:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28507.301	-0.00				ug/L
	Be	9	19279.905	0.06	50.0848	2.274	4.540	ug/L
	Al	27	6214164.347	18.92	863.4777	82.250	9.525	ug/L
>	Sc	45	328735.145	328735.15				ug/L
	Ti	49	10059.406	0.02	12.7174	0.756	5.944	ug/L
	V	51	693483.982	1.17	53.9528	1.496	2.773	ug/L
	Cr	52	596790.676	0.99	54.3221	0.711	1.309	ug/L
	Cr	53	67816.180	0.11	53.6123	1.341	2.501	ug/L
	Mn	55	1256478.890	2.13	74.0581	2.348	3.170	ug/L
	Co	59	697291.190	1.18	51.8366	0.979	1.888	ug/L
	Ni	60	151773.715	0.26	53.4923	2.236	4.180	ug/L
	Cu	65	153708.588	0.26	52.9275	1.354	2.557	ug/L
	Zn	66	98163.141	0.17	59.4888	0.494	0.831	ug/L
>	Ge	72	588960.408	588960.41				ug/L
	As	75	73744.526	0.13	51.8655	0.864	1.666	ug/L
	Se	77	5889.734	0.01	53.6241	0.852	1.589	ug/L
	Se	82	7176.157	0.01	52.9881	1.509	2.848	ug/L
	Rb	85	10512.962	0.02				mg/L
	Y	89	423557.758	5680.74				ug/L
	Rh	103	31.334	16.33				ug/L
	Mo	98	325.579	0.00	0.1088	0.001	1.023	ug/L
	Ag	107	308233.022	0.72	50.7340	0.710	1.399	ug/L
	Cd	114	71714.729	0.17	52.2058	0.602	1.154	ug/L
>	In	115	427923.703	427923.70				ug/L
	Sn	118	389.874	0.00	0.0657	0.002	3.164	ug/L
	Sb	123	222026.260	0.52	53.0757	0.330	0.622	ug/L
	Ba	135	110795.890	0.20	58.3445	0.740	1.269	ug/L
	Ce	140	138983.100	0.25				ug/L
>	Tb	159	554644.863	554644.86				ug/L
	Ho	165	1743.660	0.00				ug/L
	Tl	203	409141.107	0.83	51.5806	0.655	1.270	ug/L
	Tl	205	997083.896	2.03	51.8240	1.714	3.308	ug/L
	Pb	206	354082.968	0.72	56.0722	1.158	2.066	ug/L
	Pb	207	308079.046	0.63	52.1963	0.956	1.832	ug/L
	Pb	208	1421421.732	2.89	54.0952	0.570	1.055	ug/L
	U	238	1989677.704	4.05	54.1538	0.551	1.017	ug/L
>	Bi	209	491843.606	491843.61				ug/L

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⌈	Na	23	190732.961	0.52	0.0218	0.002	10.672	mg/L
|	Mg	24	1110299.084	3.38	0.2794	0.021	7.524	mg/L
|	K	39	1026957.987	1.56	0.0501	0.003	6.915	mg/L
|	Ca	43	11491.090	0.03	0.4890	0.033	6.743	mg/L
|	Fe	54	1770258.575	5.17	2.1585	0.075	3.457	mg/L
|	Fe	57	698073.316	2.10	2.0813	0.094	4.526	mg/L
⌊>	Sc-1	45	328735.145	328735.15				mg/L
	Cl	35	21298.669	3830.08				mg/L
	Kr	83	61.334	-11.33				mg/L
	Br	81	17140.010	4871.15				mg/L
	P	31	89331.285	76276.06				mg/L
	S	34	193700.625	-3003.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.925			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.481			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.774			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.823			
⌈	Na	23					

Sample ID: L1012087322PS WG353318-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1012087322PS WG353318-01
Report Date/Time: Friday, January 07, 2011 13:25:36
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Method 6020 - Summary Report

Sample ID: L1012087322SDL WG353318-01

Sample Date/Time: Friday, January 07, 2011 13:30:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27621.492	0.00				ug/L
	Be	9	13.333	0.00	-0.0216	0.004	18.081	ug/L
	Al	27	1324228.723	4.31	196.7327	6.705	3.408	ug/L
>	Sc	45	306563.313	306563.31				ug/L
	Ti	49	2073.756	0.00	2.5135	0.146	5.815	ug/L
	V	51	9549.862	0.01	0.4342	0.025	5.782	ug/L
	Cr	52	14395.500	0.00	0.1837	0.040	21.726	ug/L
	Cr	53	680.091	0.00	0.3575	0.083	23.334	ug/L
	Mn	55	70474.340	0.12	4.1552	0.140	3.361	ug/L
	Co	59	1294.764	0.00	0.0685	0.003	4.333	ug/L
	Ni	60	752.036	0.00	0.2421	0.012	4.951	ug/L
	Cu	65	490.350	0.00	0.0707	0.009	12.650	ug/L
	Zn	66	4221.266	0.01	2.2491	0.059	2.640	ug/L
>	Ge	72	583380.191	583380.19				ug/L
	As	75	-87.387	0.00	0.1019	0.043	42.518	ug/L
	Se	77	102.001	0.00	-0.0049	0.229	4649.833	ug/L
	Se	82	9.423	-0.00	-0.0322	0.119	368.357	ug/L
	Rb	85	2132.582	0.00				mg/L
	Y	89	393567.703	-24309.31				ug/L
	Rh	103	10.333	-4.67				ug/L
	Mo	98	73.056	0.00	0.0314	0.002	5.822	ug/L
	Ag	107	44.667	0.00	-0.0005	0.001	221.127	ug/L
	Cd	114	13.064	0.00	0.0047	0.007	153.085	ug/L
>	In	115	422664.632	422664.63				ug/L
	Sn	118	269.604	0.00	0.0415	0.003	7.010	ug/L
	Sb	123	460.092	0.00	0.1290	0.012	9.357	ug/L
	Ba	135	2722.064	0.00	1.4172	0.023	1.593	ug/L
	Ce	140	27834.845	0.05				ug/L
>	Tb	159	550654.881	550654.88				ug/L
	Ho	165	393.380	0.00				ug/L
	Tl	203	67.668	0.00	0.0053	0.002	41.376	ug/L
	Tl	205	146.683	0.00	0.0015	0.003	220.540	ug/L
	Pb	206	3346.594	0.01	0.4568	0.019	4.236	ug/L
	Pb	207	2845.767	0.01	0.4192	0.010	2.398	ug/L
	Pb	208	13186.543	0.02	0.4329	0.007	1.545	ug/L
	U	238	1024.396	0.00	0.0054	0.001	20.262	ug/L
>	Bi	209	493090.265	493090.27				ug/L

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⌈	Na	23	109714.190	0.30	0.0094	0.001	12.114	mg/L
|	Mg	24	222444.799	0.73	0.0548	0.003	5.921	mg/L
|	K	39	585730.842	0.35	0.0075	0.001	13.657	mg/L
|	Ca	43	2407.198	0.01	0.0994	0.007	7.181	mg/L
|	Fe	54	360013.407	0.95	0.4011	0.010	2.508	mg/L
|	Fe	57	142273.262	0.43	0.4290	0.006	1.286	mg/L
⌊>	Sc-1	45	306563.313	306563.31				mg/L
	Cl	35	17479.270	10.68				mg/L
	Kr	83	66.334	-6.33				mg/L
	Br	81	15451.929	3183.07				mg/L
	P	31	22593.511	9538.28				mg/L
	S	34	182849.015	-13855.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.988			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.308			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.078			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.071			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1012087322SDL WG353318-01
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 13:36:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28072.723	-0.00				ug/L
	Be	9	18253.980	0.06	47.9574	0.929	1.938	ug/L
	Al	27	366029.438	1.12	51.0500	2.140	4.193	ug/L
>	Sc	45	324861.128	324861.13				ug/L
	Ti	49	76640.324	0.13	99.4175	2.008	2.019	ug/L
	V	51	645002.390	1.10	50.8819	0.986	1.939	ug/L
	Cr	52	555153.758	0.94	51.1963	0.202	0.395	ug/L
	Cr	53	62501.009	0.11	50.1284	0.895	1.785	ug/L
	Mn	55	866530.322	1.49	51.7881	0.988	1.908	ug/L
	Co	59	678074.500	1.17	51.1327	0.814	1.592	ug/L
	Ni	60	141827.104	0.24	50.6902	0.083	0.164	ug/L
	Cu	65	143949.867	0.25	50.2706	0.359	0.715	ug/L
	Zn	66	81823.926	0.14	50.2516	0.509	1.012	ug/L
>	Ge	72	580482.382	580482.38				ug/L
	As	75	68777.665	0.12	49.0757	0.803	1.635	ug/L
	Se	77	5423.471	0.01	50.0334	1.940	3.878	ug/L
	Se	82	6843.930	0.01	51.2542	1.373	2.678	ug/L
	Rb	85	2771.078	0.00				mg/L
	Y	89	385975.770	-31901.24				ug/L
	Rh	103	29.667	14.67				ug/L
	Mo	98	307638.813	0.73	96.7079	0.865	0.895	ug/L
	Ag	107	291334.478	0.70	48.9943	0.274	0.560	ug/L
	Cd	114	68938.826	0.16	51.2777	0.780	1.521	ug/L
>	In	115	418782.376	418782.38				ug/L
	Sn	118	237528.378	0.57	50.3437	0.429	0.853	ug/L
	Sb	123	208182.366	0.50	50.8515	0.459	0.903	ug/L
	Ba	135	93022.965	0.17	50.1629	0.419	0.836	ug/L
	Ce	140	70.007	0.00				ug/L
>	Tb	159	541577.790	541577.79				ug/L
	Ho	165	3.334	-0.00				ug/L
	Tl	203	389806.371	0.81	50.0140	0.456	0.912	ug/L
	Tl	205	949402.908	1.96	50.2174	1.058	2.107	ug/L
	Pb	206	312786.111	0.65	50.4004	0.592	1.174	ug/L
	Pb	207	289162.809	0.60	49.8594	0.856	1.717	ug/L
	Pb	208	1296064.456	2.68	50.1963	0.909	1.811	ug/L
	U	238	1943018.833	4.02	53.8176	0.338	0.629	ug/L
>	Bi	209	483281.717	483281.72				ug/L

Sample ID: QC Std 6
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Na	23	31768954.159	97.64	5.4336	0.332	6.106	mg/L
Mg	24	20493106.546	63.04	5.3258	0.206	3.877	mg/L
K	39	49027207.210	149.43	5.2461	0.167	3.186	mg/L
Ca	43	115440.730	0.35	5.0899	0.060	1.176	mg/L
Fe	54	4107794.926	12.42	5.1848	0.110	2.120	mg/L
Fe	57	1759862.059	5.39	5.3574	0.017	0.317	mg/L
Sc-1	45	324861.128	324861.13				mg/L
Cl	35	18187.191	718.60				mg/L
Kr	83	60.001	-12.67				mg/L
Br	81	15494.666	3225.81				mg/L
P	31	14340.958	1285.73				mg/L
S	34	205120.325	8416.16				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	101.764				
Cr	52	102.393				
Cr	53					
Mn	55	103.576				
Co	59	102.265				
Ni	60	101.380				
Cu	65	100.541				
Zn	66	100.503				
Ge	72		97.501			
As	75	98.151				
Se	77					
Se	82	102.508				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.989				
Cd	114	102.555				
In	115		93.441			
Sn	118					
Sb	123	101.703				
Ba	135	100.326				
Ce	140					
Tb	159		94.494			
Ho	165					
Tl	203	100.028				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.393				
U	238	107.635				
Bi	209		96.120			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, January 07, 2011 13:39:09
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, January 07, 2011 13:39:09
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 13:44:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28574.102	0.00				ug/L
	Be	9	4.000	-0.00	-0.0484	0.005	9.938	ug/L
	Al	27	2600.340	-0.00	0.0280	0.014	50.183	ug/L
>	Sc	45	326288.933	326288.93				ug/L
	Ti	49	66.674	0.00	-0.0832	0.020	23.828	ug/L
	V	51	3743.019	-0.00	-0.0229	0.008	36.638	ug/L
	Cr	52	12046.039	-0.00	-0.0298	0.015	50.291	ug/L
	Cr	53	363.376	0.00	0.1052	0.029	27.161	ug/L
	Mn	55	414.346	0.00	-0.0148	0.000	1.152	ug/L
	Co	59	95.001	0.00	-0.0215	0.001	5.813	ug/L
	Ni	60	30.334	-0.00	-0.0148	0.002	14.150	ug/L
	Cu	65	283.674	0.00	-0.0007	0.004	610.238	ug/L
	Zn	66	385.678	-0.00	-0.1104	0.012	10.742	ug/L
>	Ge	72	579536.880	579536.88				ug/L
	As	75	-202.939	-0.00	0.0194	0.048	245.542	ug/L
	Se	77	82.000	-0.00	-0.1896	0.068	36.031	ug/L
	Se	82	13.849	0.00	0.0019	0.146	7695.805	ug/L
	Rb	85	24.000	0.00				mg/L
	Y	89	381121.850	-36755.16				ug/L
	Rh	103	5.333	-9.67				ug/L
	Mo	98	164.692	0.00	0.0613	0.007	10.951	ug/L
	Ag	107	43.334	0.00	-0.0005	0.001	251.643	ug/L
	Cd	114	7.156	-0.00	0.0005	0.004	718.087	ug/L
>	In	115	412126.383	412126.38				ug/L
	Sn	118	376.140	0.00	0.0659	0.004	6.600	ug/L
	Sb	123	388.799	0.00	0.1141	0.003	2.501	ug/L
	Ba	135	19.667	0.00	-0.0167	0.001	6.785	ug/L
	Ce	140	36.670	0.00				ug/L
>	Tb	159	544388.909	544388.91				ug/L
	Ho	165	3.334	-0.00				ug/L
	Tl	203	33.334	0.00	0.0010	0.001	71.131	ug/L
	Tl	205	106.678	0.00	-0.0005	0.002	323.490	ug/L
	Pb	206	417.013	0.00	-0.0059	0.001	22.830	ug/L
	Pb	207	342.343	-0.00	-0.0038	0.004	118.319	ug/L
	Pb	208	1604.066	0.00	-0.0068	0.001	13.353	ug/L
	U	238	74.001	0.00	-0.0204	0.000	0.720	ug/L
>	Bi	209	488105.676	488105.68				ug/L

Sample ID: QC Std 7
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⌈	Na	23	80833.617	0.19	0.0033	0.001	21.529	mg/L
|	Mg	24	306.702	0.00	-0.0065	0.000	0.274	mg/L
|	K	39	507218.446	-0.00	-0.0049	0.003	66.011	mg/L
|	Ca	43	260.029	-0.00	-0.0019	0.002	122.803	mg/L
|	Fe	54	67418.866	-0.01	-0.0024	0.007	274.568	mg/L
|	Fe	57	9228.519	-0.00	-0.0045	0.002	48.291	mg/L
⌊>	Sc-1	45	326288.933	326288.93				mg/L
	Cl	35	17750.407	281.81				mg/L
	Kr	83	55.667	-17.00				mg/L
	Br	81	15109.408	2840.55				mg/L
	P	31	14142.738	1087.51				mg/L
	S	34	203425.392	6721.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.342			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.956			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.985			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.079			
⌈	Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 13:46:14
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007401

Sample Date/Time: Friday, January 07, 2011 13:50:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29827.826	0.01				ug/L
	Be	9	117.334	0.00	0.2619	0.006	2.347	ug/L
	Al	27	17631239.566	56.40	2573.8497	52.657	2.046	ug/L
>	Sc	45	312475.623	312475.62				ug/L
	Ti	49	2693.966	0.00	3.3171	0.100	3.008	ug/L
	V	51	69940.317	0.11	5.2103	0.168	3.232	ug/L
	Cr	52	67604.678	0.09	5.1847	0.267	5.147	ug/L
	Cr	53	7026.505	0.01	5.4470	0.151	2.775	ug/L
	Mn	55	1880966.186	3.23	112.0366	1.174	1.048	ug/L
	Co	59	52291.655	0.09	3.9015	0.129	3.301	ug/L
	Ni	60	34375.386	0.06	12.2199	0.494	4.046	ug/L
	Cu	65	44347.926	0.08	15.3587	0.314	2.045	ug/L
	Zn	66	38423.434	0.07	23.3210	0.630	2.700	ug/L
>	Ge	72	582717.593	582717.59				ug/L
	As	75	5373.634	0.01	3.9706	0.171	4.295	ug/L
	Se	77	158.001	0.00	0.5186	0.179	34.498	ug/L
	Se	82	65.851	0.00	0.3900	0.038	9.862	ug/L
	Rb	85	49391.257	0.08				mg/L
	Y	89	401705.590	-16171.42				ug/L
	Rh	103	19.334	4.33				ug/L
	Mo	98	6273.899	0.02	2.0291	0.040	1.960	ug/L
	Ag	107	319.675	0.00	0.0472	0.001	1.993	ug/L
	Cd	114	115.248	0.00	0.0829	0.010	12.248	ug/L
>	In	115	408732.153	408732.15				ug/L
	Sn	118	504.946	0.00	0.0945	0.004	4.585	ug/L
	Sb	123	175.950	0.00	0.0616	0.001	1.457	ug/L
	Ba	135	1067865.227	1.98	578.8478	23.659	4.087	ug/L
	Ce	140	156414.233	0.29				ug/L
>	Tb	159	539000.386	539000.39				ug/L
	Ho	165	2023.742	0.00				ug/L
	Tl	203	1645.152	0.00	0.2094	0.015	7.385	ug/L
	Tl	205	3934.501	0.01	0.2036	0.009	4.226	ug/L
	Pb	206	60591.535	0.13	9.7786	0.465	4.759	ug/L
	Pb	207	51155.534	0.11	8.8357	0.428	4.845	ug/L
	Pb	208	242650.999	0.50	9.4129	0.474	5.039	ug/L
	U	238	20121.795	0.04	0.5394	0.030	5.509	ug/L
>	Bi	209	479665.413	479665.41				ug/L

Sample ID: L1101007401
Report Date/Time: Friday, January 07, 2011 13:53:01
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⌈	Na	23	23569040.308	75.35	4.1914	0.059	1.418	mg/L
|	Mg	24	6094123.481	19.50	1.6426	0.028	1.724	mg/L
|	K	39	13203908.300	40.71	1.4258	0.085	5.960	mg/L
|	Ca	43	77618.431	0.25	3.5535	0.187	5.268	mg/L
|	Fe	54	6683231.010	21.17	8.8323	0.299	3.386	mg/L
|	Fe	57	2726418.498	8.70	8.6481	0.139	1.604	mg/L
⌊>	Sc-1	45	312475.623	312475.62				mg/L
	Cl	35	159443.585	141974.99				mg/L
	Kr	83	55.667	-17.00				mg/L
	Br	81	19407.483	7138.62				mg/L
	P	31	47284.360	34229.13				mg/L
	S	34	302132.917	105428.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.877			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.199			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.045			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.401			
⌈	Na	23					

Sample ID: L1101007401
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007501

Sample Date/Time: Friday, January 07, 2011 13:57:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27805.274	-0.00				ug/L
	Be	9	130.668	0.00	0.2892	0.017	5.997	ug/L
	Al	27	18980594.263	59.21	2702.2499	85.247	3.155	ug/L
>	Sc	45	320443.597	320443.60				ug/L
	Ti	49	11824.909	0.02	15.1445	1.888	12.469	ug/L
	V	51	144496.860	0.24	11.1111	1.259	11.333	ug/L
	Cr	52	88373.968	0.13	7.1404	0.776	10.869	ug/L
	Cr	53	9438.781	0.02	7.3866	1.000	13.545	ug/L
	Mn	55	1876978.116	3.22	111.8507	8.869	7.930	ug/L
	Co	59	36015.950	0.06	2.6795	0.291	10.874	ug/L
	Ni	60	33195.639	0.06	11.8050	1.543	13.071	ug/L
	Cu	65	33177.528	0.06	11.4707	1.448	12.626	ug/L
	Zn	66	49004.275	0.08	29.8557	3.363	11.266	ug/L
>	Ge	72	582359.974	582359.97				ug/L
	As	75	3889.574	0.01	2.9208	0.428	14.661	ug/L
	Se	77	188.668	0.00	0.8064	0.089	11.004	ug/L
	Se	82	84.083	0.00	0.5262	0.228	43.361	ug/L
	Rb	85	47424.336	0.08				mg/L
	Y	89	416551.805	-1325.21				ug/L
	Rh	103	31.667	16.67				ug/L
	Mo	98	10766.317	0.03	3.4575	0.425	12.299	ug/L
	Ag	107	316.008	0.00	0.0462	0.006	12.064	ug/L
	Cd	114	460.953	0.00	0.3445	0.040	11.532	ug/L
>	In	115	410903.660	410903.66				ug/L
	Sn	118	1579.992	0.00	0.3262	0.033	10.216	ug/L
	Sb	123	138.368	0.00	0.0521	0.002	4.145	ug/L
	Ba	135	1166510.618	2.20	643.2209	81.937	12.739	ug/L
	Ce	140	128404.941	0.24				ug/L
>	Tb	159	529811.138	529811.14				ug/L
	Ho	165	2610.605	0.01				ug/L
	Tl	203	2076.572	0.00	0.2680	0.036	13.409	ug/L
	Tl	205	5005.095	0.01	0.2635	0.029	10.913	ug/L
	Pb	206	36926.803	0.08	5.9938	0.767	12.799	ug/L
	Pb	207	30422.316	0.06	5.2844	0.668	12.635	ug/L
	Pb	208	142375.195	0.30	5.5528	0.666	11.989	ug/L
	U	238	42198.231	0.09	1.1680	0.124	10.622	ug/L
>	Bi	209	474750.278	474750.28				ug/L

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⌈	Na	23	18216248.247	56.75	3.1548	0.204	6.466	mg/L
|	Mg	24	11063348.136	34.50	2.9112	0.182	6.246	mg/L
|	K	39	11744300.669	35.02	1.2257	0.084	6.889	mg/L
|	Ca	43	629269.424	1.96	28.1428	1.967	6.990	mg/L
|	Fe	54	4295122.931	13.15	5.4890	0.508	9.250	mg/L
|	Fe	57	1903816.511	5.91	5.8771	0.218	3.714	mg/L
⌊>	Sc-1	45	320443.597	320443.60				mg/L
	Cl	35	150773.279	133304.69				mg/L
	Kr	83	67.334	-5.33				mg/L
	Br	81	19090.895	6822.03				mg/L
	P	31	102501.202	89445.97				mg/L
	S	34	261379.149	64674.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.817			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.683			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.441			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.423			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007601

Sample Date/Time: Friday, January 07, 2011 14:04:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29175.861	0.00				ug/L
	Be	9	40.667	0.00	0.0500	0.028	55.884	ug/L
	Al	27	6334177.376	19.99	912.3542	130.933	14.351	ug/L
>	Sc	45	317983.724	317983.72				ug/L
	Ti	49	3074.125	0.01	3.8470	0.829	21.561	ug/L
	V	51	46177.009	0.07	3.3618	0.279	8.293	ug/L
	Cr	52	50605.501	0.07	3.6270	0.333	9.178	ug/L
	Cr	53	4754.949	0.01	3.6594	0.489	13.370	ug/L
	Mn	55	2861470.246	4.95	171.9221	16.828	9.788	ug/L
	Co	59	16972.673	0.03	1.2581	0.154	12.210	ug/L
	Ni	60	16621.391	0.03	5.9460	0.652	10.969	ug/L
	Cu	65	36454.964	0.06	12.7158	1.161	9.133	ug/L
	Zn	66	75392.264	0.13	46.4916	4.063	8.738	ug/L
>	Ge	72	578197.765	578197.77				ug/L
	As	75	23340.567	0.04	16.8429	1.808	10.735	ug/L
	Se	77	112.001	0.00	0.0953	0.009	9.683	ug/L
	Se	82	61.746	0.00	0.3641	0.168	46.261	ug/L
	Rb	85	30824.430	0.05				mg/L
	Y	89	389790.829	-28086.18				ug/L
	Rh	103	507.685	492.68				ug/L
	Mo	98	3379.338	0.01	1.1053	0.101	9.125	ug/L
	Ag	107	563.355	0.00	0.0899	0.010	10.849	ug/L
	Cd	114	223.227	0.00	0.1665	0.016	9.570	ug/L
>	In	115	405783.977	405783.98				ug/L
	Sn	118	753.362	0.00	0.1497	0.015	9.926	ug/L
	Sb	123	393.165	0.00	0.1167	0.007	6.137	ug/L
	Ba	135	2308544.903	4.40	1285.0000	134.248	10.447	ug/L
	Ce	140	80347.549	0.15				ug/L
>	Tb	159	525422.519	525422.52				ug/L
	Ho	165	1123.509	0.00				ug/L
	Tl	203	1212.086	0.00	0.1623	0.019	11.746	ug/L
	Tl	205	2857.370	0.01	0.1549	0.032	20.710	ug/L
	Pb	206	491899.566	1.08	84.4011	9.156	10.848	ug/L
	Pb	207	427043.934	0.94	78.3951	8.653	11.037	ug/L
	Pb	208	1978410.861	4.35	81.5847	9.093	11.146	ug/L
	U	238	10081.203	0.02	0.2749	0.030	10.822	ug/L
>	Bi	209	454657.315	454657.31				ug/L

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⌈	Na	23	10549019.396	33.20	1.8429	0.187	10.148	mg/L
|	Mg	24	70739384.067	223.20	18.8724	2.744	14.538	mg/L
|	K	39	5744175.139	16.54	0.5766	0.055	9.613	mg/L
|	Ca	43	1577048.728	4.98	71.4903	9.918	13.873	mg/L
|	Fe	54	2735959.910	8.42	3.5164	0.557	15.846	mg/L
|	Fe	57	1210984.130	3.79	3.7720	0.522	13.834	mg/L
⌊>	Sc-1	45	317983.724	317983.72				mg/L
	Cl	35	323620.956	306152.36				mg/L
	Kr	83	67.668	-5.00				mg/L
	Br	81	39813.220	27544.36				mg/L
	P	31	29874.383	16819.16				mg/L
	S	34	421187.920	224483.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.117			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.541			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.675			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.427			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007701

Sample Date/Time: Friday, January 07, 2011 14:11:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26819.319	-0.01				ug/L
	Be	9	137.334	0.00	0.2984	0.047	15.625	ug/L
	Al	27	12529454.043	38.14	1740.5760	307.222	17.651	ug/L
>	Sc	45	329309.464	329309.46				ug/L
	Ti	49	1726.991	0.00	2.0391	0.334	16.385	ug/L
	V	51	65887.436	0.11	4.8286	0.756	15.656	ug/L
	Cr	52	49704.520	0.06	3.4475	0.558	16.173	ug/L
	Cr	53	5071.810	0.01	3.8315	0.577	15.067	ug/L
	Mn	55	1909823.226	3.24	112.4046	12.166	10.824	ug/L
	Co	59	33135.518	0.06	2.4325	0.351	14.430	ug/L
	Ni	60	34988.535	0.06	12.2913	1.707	13.886	ug/L
	Cu	65	43346.062	0.07	14.8321	2.134	14.390	ug/L
	Zn	66	59704.183	0.10	35.9987	5.082	14.118	ug/L
>	Ge	72	589791.009	589791.01				ug/L
	As	75	5384.556	0.01	3.9339	0.602	15.312	ug/L
	Se	77	196.669	0.00	0.8578	0.265	30.911	ug/L
	Se	82	106.368	0.00	0.6838	0.248	36.237	ug/L
	Rb	85	43014.099	0.07				mg/L
	Y	89	482633.095	64756.08				ug/L
	Rh	103	33.667	18.67				ug/L
	Mo	98	11595.879	0.03	3.6768	0.422	11.469	ug/L
	Ag	107	478.350	0.00	0.0730	0.010	14.166	ug/L
	Cd	114	429.661	0.00	0.3165	0.066	20.837	ug/L
>	In	115	415798.355	415798.36				ug/L
	Sn	118	425.209	0.00	0.0756	0.008	10.772	ug/L
	Sb	123	97.696	0.00	0.0417	0.001	2.122	ug/L
	Ba	135	1140009.136	2.12	620.4823	85.705	13.813	ug/L
	Ce	140	421357.346	0.78				ug/L
>	Tb	159	536718.408	536718.41				ug/L
	Ho	165	5825.632	0.01				ug/L
	Tl	203	3281.912	0.01	0.4217	0.059	13.964	ug/L
	Tl	205	7984.040	0.02	0.4201	0.066	15.804	ug/L
	Pb	206	100990.227	0.21	16.3725	2.237	13.661	ug/L
	Pb	207	84131.044	0.17	14.5945	1.849	12.669	ug/L
	Pb	208	394903.562	0.82	15.3856	2.114	13.737	ug/L
	U	238	97675.442	0.20	2.7088	0.391	14.451	ug/L
>	Bi	209	478618.322	478618.32				ug/L

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⌈	Na	23	28893906.965	87.97	4.8949	0.582	11.885	mg/L
|	Mg	24	5831011.994	17.76	1.4958	0.211	14.089	mg/L
|	K	39	11589184.527	33.70	1.1794	0.174	14.744	mg/L
|	Ca	43	164108.451	0.50	7.1581	0.973	13.597	mg/L
|	Fe	54	4234370.851	12.68	5.2905	0.888	16.783	mg/L
|	Fe	57	1780441.427	5.39	5.3619	0.782	14.575	mg/L
⌊>	Sc-1	45	329309.464	329309.46				mg/L
	Cl	35	155288.444	137819.85				mg/L
	Kr	83	73.001	0.33				mg/L
	Br	81	17199.446	4930.59				mg/L
	P	31	55146.884	42091.66				mg/L
	S	34	282188.271	85484.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.065			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.775			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.646			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.192			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101007801

Sample Date/Time: Friday, January 07, 2011 14:17:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29710.788	-0.00				ug/L
	Be	9	99.334	0.00	0.1832	0.047	25.857	ug/L
	Al	27	2841716.122	8.08	368.9415	34.615	9.382	ug/L
>	Sc	45	352171.033	352171.03				ug/L
	Ti	49	3117.465	0.01	3.7278	0.137	3.678	ug/L
	V	51	413397.863	0.68	31.2513	0.851	2.724	ug/L
	Cr	52	39981.840	0.05	2.4610	0.027	1.116	ug/L
	Cr	53	3324.219	0.00	2.3872	0.084	3.521	ug/L
	Mn	55	1039826.335	1.72	59.7991	1.487	2.487	ug/L
	Co	59	84611.914	0.14	6.1132	0.164	2.690	ug/L
	Ni	60	227244.727	0.38	78.1524	2.609	3.338	ug/L
	Cu	65	194341.496	0.32	65.3208	3.254	4.982	ug/L
	Zn	66	143362.276	0.24	84.9503	2.434	2.866	ug/L
>	Ge	72	603270.663	603270.66				ug/L
	As	75	17673.209	0.03	12.2561	0.484	3.946	ug/L
	Se	77	868.038	0.00	6.8914	0.197	2.864	ug/L
	Se	82	974.211	0.00	6.9310	0.251	3.617	ug/L
	Rb	85	49409.731	0.08				mg/L
	Y	89	464747.724	46870.71				ug/L
	Rh	103	36.334	21.33				ug/L
	Mo	98	181644.858	0.43	56.4232	2.605	4.617	ug/L
	Ag	107	1580.808	0.00	0.2548	0.019	7.630	ug/L
	Cd	114	1798.477	0.00	1.3166	0.124	9.431	ug/L
>	In	115	423960.465	423960.47				ug/L
	Sn	118	546.282	0.00	0.0992	0.008	7.774	ug/L
	Sb	123	810.952	0.00	0.2132	0.002	0.862	ug/L
	Ba	135	998835.420	1.80	526.7379	11.608	2.204	ug/L
	Ce	140	84104.402	0.15				ug/L
>	Tb	159	554014.374	554014.37				ug/L
	Ho	165	4938.382	0.01				ug/L
	Tl	203	25737.072	0.05	3.2385	0.188	5.818	ug/L
	Tl	205	62638.761	0.13	3.2464	0.152	4.690	ug/L
	Pb	206	112984.618	0.23	17.8240	0.621	3.483	ug/L
	Pb	207	89120.644	0.18	15.0401	0.612	4.067	ug/L
	Pb	208	423139.977	0.86	16.0397	0.710	4.429	ug/L
	U	238	432738.361	0.88	11.7490	0.547	4.660	ug/L
>	Bi	209	492324.944	492324.94				ug/L

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⌈	Na	23	3072369.521	8.69	0.4770	0.042	8.761	mg/L
|	Mg	24	3995922.885	11.35	0.9536	0.034	3.615	mg/L
|	K	39	6095106.338	15.80	0.5504	0.059	10.665	mg/L
|	Ca	43	309475.204	0.88	12.6318	0.973	7.704	mg/L
|	Fe	54	9052739.298	25.56	10.6647	0.934	8.762	mg/L
|	Fe	57	3521353.115	9.99	9.9406	0.771	7.757	mg/L
⌊>	Sc-1	45	352171.033	352171.03				mg/L
	Cl	35	171773.478	154304.89				mg/L
	Kr	83	59.667	-13.00				mg/L
	Br	81	24704.497	12435.64				mg/L
	P	31	70191.569	57136.34				mg/L
	S	34	684279.417	487575.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.329			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.597			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.664			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.919			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	

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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 14:24:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29359.811	0.01				ug/L
	Be	9	18755.574	0.06	50.5971	1.204	2.379	ug/L
	Al	27	385238.274	1.21	55.2916	5.095	9.216	ug/L
>	Sc	45	316448.783	316448.78				ug/L
	Ti	49	76979.654	0.13	100.0204	2.491	2.491	ug/L
	V	51	638470.433	1.10	50.4462	0.637	1.262	ug/L
	Cr	52	547535.388	0.92	50.5634	0.450	0.889	ug/L
	Cr	53	63852.993	0.11	51.3092	1.589	3.097	ug/L
	Mn	55	853426.502	1.47	51.0918	1.108	2.169	ug/L
	Co	59	678224.042	1.17	51.2280	0.543	1.059	ug/L
	Ni	60	143258.345	0.25	51.2877	0.789	1.538	ug/L
	Cu	65	145639.359	0.25	50.9449	0.218	0.428	ug/L
	Zn	66	83106.433	0.14	51.1295	0.583	1.141	ug/L
>	Ge	72	579548.932	579548.93				ug/L
	As	75	68712.460	0.12	49.1102	0.807	1.644	ug/L
	Se	77	5400.791	0.01	49.8976	0.433	0.868	ug/L
	Se	82	6721.180	0.01	50.4175	1.073	2.128	ug/L
	Rb	85	2722.732	0.00				mg/L
	Y	89	374249.935	-43627.08				ug/L
	Rh	103	38.334	23.33				ug/L
	Mo	98	300093.786	0.73	95.7790	0.848	0.886	ug/L
	Ag	107	285735.274	0.69	48.7901	0.705	1.446	ug/L
	Cd	114	67964.121	0.16	51.3153	0.344	0.670	ug/L
>	In	115	412520.197	412520.20				ug/L
	Sn	118	233227.298	0.57	50.1845	0.343	0.683	ug/L
	Sb	123	206349.727	0.50	51.1734	0.632	1.235	ug/L
	Ba	135	91877.791	0.17	50.1455	0.664	1.324	ug/L
	Ce	140	43.338	0.00				ug/L
>	Tb	159	535083.382	535083.38				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	386059.565	0.80	49.5006	0.162	0.328	ug/L
	Tl	205	957589.583	1.98	50.6171	1.395	2.756	ug/L
	Pb	206	309948.275	0.64	49.9104	0.366	0.734	ug/L
	Pb	207	288236.877	0.60	49.6643	0.811	1.632	ug/L
	Pb	208	1283894.744	2.65	49.6890	0.125	0.252	ug/L
	U	238	1946259.299	4.02	53.8753	0.116	0.215	ug/L
>	Bi	209	483567.978	483567.98				ug/L

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Na	23	32244955.350	101.84	5.6676	0.132	2.322	mg/L
Mg	24	21178573.778	66.93	5.6546	0.093	1.642	mg/L
K	39	48322793.313	151.22	5.3090	0.137	2.576	mg/L
Ca	43	109814.372	0.35	4.9695	0.086	1.739	mg/L
Fe	54	4090987.972	12.71	5.3063	0.143	2.697	mg/L
Fe	57	1743454.604	5.48	5.4511	0.104	1.916	mg/L
Sc-1	45	316448.783	316448.78				mg/L
Cl	35	32318.172	14849.58				mg/L
Kr	83	59.667	-13.00				mg/L
Br	81	14777.586	2508.73				mg/L
P	31	13939.758	884.53				mg/L
S	34	204015.871	7311.71				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.892				
Cr	52	101.127				
Cr	53					
Mn	55	102.184				
Co	59	102.456				
Ni	60	102.575				
Cu	65	101.890				
Zn	66	102.259				
Ge	72		97.344			
As	75	98.220				
Se	77					
Se	82	100.835				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.580				
Cd	114	102.631				
In	115		92.044			
Sn	118					
Sb	123	102.347				
Ba	135	100.291				
Ce	140					
Tb	159		93.361			
Ho	165					
Tl	203	99.001				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.378				
U	238	107.751				
Bi	209		96.177			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 14:31:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28524.323	0.00				ug/L
	Be	9	7.333	0.00	-0.0388	0.004	9.383	ug/L
	Al	27	2867.083	-0.00	0.0824	0.070	85.540	ug/L
>	Sc	45	314075.857	314075.86				ug/L
	Ti	49	70.007	0.00	-0.0802	0.034	41.914	ug/L
	V	51	3852.156	-0.00	-0.0183	0.002	13.376	ug/L
	Cr	52	12166.520	-0.00	-0.0336	0.026	77.471	ug/L
	Cr	53	360.043	0.00	0.0986	0.029	29.256	ug/L
	Mn	55	473.016	0.00	-0.0117	0.002	19.144	ug/L
	Co	59	106.002	0.00	-0.0208	0.000	1.771	ug/L
	Ni	60	26.000	-0.00	-0.0165	0.002	13.050	ug/L
	Cu	65	281.007	0.00	-0.0029	0.004	138.262	ug/L
	Zn	66	375.011	-0.00	-0.1201	0.021	17.808	ug/L
>	Ge	72	587349.862	587349.86				ug/L
	As	75	-207.215	-0.00	0.0184	0.026	141.798	ug/L
	Se	77	78.667	-0.00	-0.2310	0.156	67.606	ug/L
	Se	82	6.145	-0.00	-0.0566	0.012	20.564	ug/L
	Rb	85	23.334	-0.00				mg/L
	Y	89	383134.565	-34742.45				ug/L
	Rh	103	12.333	-2.67				ug/L
	Mo	98	218.278	0.00	0.0781	0.014	17.975	ug/L
	Ag	107	39.667	0.00	-0.0012	0.001	79.468	ug/L
	Cd	114	9.496	-0.00	0.0023	0.010	441.954	ug/L
>	In	115	414123.725	414123.72				ug/L
	Sn	118	323.072	0.00	0.0541	0.003	5.675	ug/L
	Sb	123	324.708	0.00	0.0978	0.003	3.512	ug/L
	Ba	135	26.334	0.00	-0.0132	0.004	31.652	ug/L
	Ce	140	20.002	0.00				ug/L
>	Tb	159	544730.927	544730.93				ug/L
	Ho	165	20.002	0.00				ug/L
	Tl	203	31.334	0.00	0.0007	0.000	50.748	ug/L
	Tl	205	40.004	0.00	-0.0040	0.001	34.873	ug/L
	Pb	206	425.680	0.00	-0.0051	0.004	76.838	ug/L
	Pb	207	343.676	-0.00	-0.0040	0.002	56.075	ug/L
	Pb	208	1675.740	0.00	-0.0045	0.001	30.771	ug/L
	U	238	100.335	0.00	-0.0197	0.000	1.778	ug/L
>	Bi	209	491948.708	491948.71				ug/L

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Na	23	61970.976	0.14	0.0005	0.000	103.858	mg/L
Mg	24	960.143	0.00	-0.0064	0.000	0.577	mg/L
K	39	499109.404	0.03	-0.0038	0.002	48.230	mg/L
Ca	43	273.365	-0.00	-0.0009	0.002	266.156	mg/L
Fe	54	67372.170	-0.01	0.0007	0.007	976.287	mg/L
Fe	57	9372.000	0.00	-0.0030	0.001	18.534	mg/L
Sc-1	45	314075.857	314075.86				mg/L
Cl	35	24242.023	6773.43				mg/L
Kr	83	60.001	-12.67				mg/L
Br	81	14172.040	1903.18				mg/L
P	31	14004.482	949.25				mg/L
S	34	197457.386	753.23				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.655			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		92.402			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		95.044			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		97.844			
Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
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Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 07, 2011 14:38:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28825.175	0.00				ug/L
	Be	9	8.000	0.00	-0.0380	0.005	13.843	ug/L
	Al	27	2750.379	-0.00	0.0466	0.018	39.274	ug/L
>	Sc	45	328599.453	328599.45				ug/L
	Ti	49	73.341	0.00	-0.0760	0.066	86.412	ug/L
	V	51	8981.059	0.01	0.3826	0.018	4.824	ug/L
	Cr	52	21217.367	0.01	0.8058	0.033	4.038	ug/L
	Cr	53	1510.266	0.00	1.0112	0.132	13.018	ug/L
	Mn	55	9122.251	0.01	0.4984	0.008	1.559	ug/L
	Co	59	5563.604	0.01	0.3852	0.014	3.546	ug/L
	Ni	60	4679.809	0.01	1.6246	0.046	2.816	ug/L
	Cu	65	2598.697	0.00	0.7967	0.033	4.095	ug/L
	Zn	66	10506.623	0.02	6.0584	0.145	2.390	ug/L
>	Ge	72	588635.679	588635.68				ug/L
	As	75	352.300	0.00	0.4111	0.069	16.823	ug/L
	Se	77	136.668	0.00	0.3053	0.126	41.173	ug/L
	Se	82	57.813	0.00	0.3256	0.119	36.410	ug/L
	Rb	85	22.334	-0.00				mg/L
	Y	89	382363.223	-35513.79				ug/L
	Rh	103	9.667	-5.33				ug/L
	Mo	98	101.312	0.00	0.0401	0.001	2.122	ug/L
	Ag	107	2374.639	0.01	0.3873	0.008	1.945	ug/L
	Cd	114	288.891	0.00	0.2076	0.007	3.313	ug/L
>	In	115	423276.451	423276.45				ug/L
	Sn	118	194.002	0.00	0.0255	0.001	2.042	ug/L
	Sb	123	1702.407	0.00	0.4290	0.009	2.067	ug/L
	Ba	135	1412.447	0.00	0.7270	0.006	0.879	ug/L
	Ce	140	23.336	0.00				ug/L
>	Tb	159	547196.922	547196.92				ug/L
	Ho	165	6.667	-0.00				ug/L
	Tl	203	651.694	0.00	0.0791	0.001	1.081	ug/L
	Tl	205	1656.970	0.00	0.0803	0.004	5.287	ug/L
	Pb	206	2866.439	0.01	0.3833	0.008	2.007	ug/L
	Pb	207	2659.714	0.00	0.3903	0.011	2.695	ug/L
	Pb	208	11898.246	0.02	0.3864	0.010	2.514	ug/L
	U	238	15576.947	0.03	0.4029	0.003	0.729	ug/L
>	Bi	209	490411.051	490411.05				ug/L

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⌈	Na	23	66497.022	0.14	0.0008	0.000	53.239	mg/L
|	Mg	24	276.698	0.00	-0.0066	0.000	0.294	mg/L
|	K	39	520443.531	0.02	-0.0040	0.003	82.688	mg/L
|	Ca	43	216.691	-0.00	-0.0038	0.002	54.724	mg/L
|	Fe	54	64116.313	-0.03	-0.0074	0.004	47.274	mg/L
|	Fe	57	9178.466	-0.00	-0.0048	0.002	41.885	mg/L
⌊>	Sc-1	45	328599.453	328599.45				mg/L
	Cl	35	22385.698	4917.11				mg/L
	Kr	83	60.001	-12.67				mg/L
	Br	81	13993.789	1724.93				mg/L
	P	31	14475.835	1420.61				mg/L
	S	34	204771.347	8067.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	95.644				
|	Cr	52	100.720				
|	Cr	53					
|	Mn	55	99.679				
|	Co	59	96.310				
|	Ni	60	101.539				
|	Cu	65	99.585				
|	Zn	66	96.934				
|>	Ge	72		98.871			
|	As	75	102.768				
|	Se	77					
|	Se	82	81.389				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	96.826				
|	Cd	114	103.816				
|>	In	115		94.444			
|	Sn	118					
⌊	Sb	123	107.246				
⌈	Ba	135	96.930				
|	Ce	140					
⌊>	Tb	159		95.475			
⌈	Ho	165					
|	Tl	203	98.931				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	96.603				
|	U	238	100.736				
⌊>	Bi	209		97.538			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 8
Report Date/Time: Friday, January 07, 2011 14:40:51
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Method 6020 - Summary Report

Sample ID: PBW 40 WG353345-04

Sample Date/Time: Friday, January 07, 2011 14:45:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28390.256	-0.00				ug/L
	Be	9	2.000	-0.00	-0.0537	0.005	9.378	ug/L
	Al	27	2833.743	-0.00	0.0601	0.054	90.413	ug/L
>	Sc	45	325383.511	325383.51				ug/L
	Ti	49	80.008	0.00	-0.0662	0.039	59.156	ug/L
	V	51	3987.025	0.00	-0.0049	0.002	39.687	ug/L
	Cr	52	12722.549	0.00	0.0288	0.011	39.541	ug/L
	Cr	53	293.367	-0.00	0.0475	0.052	110.481	ug/L
	Mn	55	520.019	0.00	-0.0086	0.001	13.828	ug/L
	Co	59	93.001	-0.00	-0.0217	0.002	7.278	ug/L
	Ni	60	269.340	0.00	0.0704	0.006	8.796	ug/L
	Cu	65	295.007	0.00	0.0028	0.004	146.897	ug/L
	Zn	66	3615.356	0.01	1.8802	0.030	1.611	ug/L
>	Ge	72	582133.886	582133.89				ug/L
	As	75	-268.587	-0.00	-0.0265	0.016	58.962	ug/L
	Se	77	86.000	0.00	-0.1555	0.052	33.264	ug/L
	Se	82	6.128	-0.00	-0.0564	0.019	34.155	ug/L
	Rb	85	23.667	-0.00				mg/L
	Y	89	388835.836	-29041.18				ug/L
	Rh	103	8.667	-6.33				ug/L
	Mo	98	81.946	0.00	0.0339	0.003	9.568	ug/L
	Ag	107	26.334	0.00	-0.0036	0.000	10.091	ug/L
	Cd	114	12.558	0.00	0.0042	0.000	6.582	ug/L
>	In	115	427124.601	427124.60				ug/L
	Sn	118	253.470	0.00	0.0375	0.001	2.890	ug/L
	Sb	123	97.955	0.00	0.0411	0.002	3.856	ug/L
	Ba	135	23.000	0.00	-0.0150	0.001	5.365	ug/L
	Ce	140	20.002	0.00				ug/L
>	Tb	159	548862.452	548862.45				ug/L
	Ho	165	0.000	-0.00				ug/L
	Tl	203	16.334	0.00	-0.0012	0.000	35.023	ug/L
	Tl	205	16.668	-0.00	-0.0052	0.001	11.394	ug/L
	Pb	206	413.346	0.00	-0.0073	0.003	43.848	ug/L
	Pb	207	338.342	-0.00	-0.0051	0.001	15.379	ug/L
	Pb	208	1603.733	-0.00	-0.0074	0.001	14.414	ug/L
	U	238	21.667	0.00	-0.0218	0.000	0.726	ug/L
>	Bi	209	493522.104	493522.10				ug/L

Sample ID: PBW 40 WG353345-04
Report Date/Time: Friday, January 07, 2011 14:47:36
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⌈	Na	23	63031.157	0.13	0.0003	0.001	316.562	mg/L
|	Mg	24	476.726	0.00	-0.0065	0.000	0.420	mg/L
|	K	39	508870.160	0.00	-0.0046	0.004	87.270	mg/L
|	Ca	43	253.362	-0.00	-0.0022	0.003	128.101	mg/L
|	Fe	54	67859.661	-0.01	-0.0018	0.004	223.130	mg/L
|	Fe	57	9475.439	-0.00	-0.0036	0.003	71.608	mg/L
⌊>	Sc-1	45	325383.511	325383.51				mg/L
	Cl	35	21199.114	3730.52				mg/L
	Kr	83	62.001	-10.67				mg/L
	Br	81	14514.529	2245.67				mg/L
	P	31	15592.917	2537.69				mg/L
	S	34	195600.288	-1103.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.779			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.303			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.765			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.157			
⌈	Na	23					

Sample ID: PBW 40 WG353345-04
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 40 WG353345-04
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Method 6020 - Summary Report

Sample ID: LCSW 40 WG353345-05

Sample Date/Time: Friday, January 07, 2011 14:52:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29560.329	-0.00				ug/L
	Be	9	9294.986	0.03	23.3701	0.856	3.662	ug/L
	Al	27	186427.509	0.54	24.8363	2.965	11.936	ug/L
>	Sc	45	339285.303	339285.30				ug/L
	Ti	49	86.676	0.00	-0.0592	0.059	98.800	ug/L
	V	51	319860.363	0.54	24.6803	0.452	1.832	ug/L
	Cr	52	290517.251	0.47	25.8143	0.404	1.565	ug/L
	Cr	53	33900.878	0.06	26.6919	1.727	6.471	ug/L
	Mn	55	449086.360	0.76	26.4059	0.112	0.425	ug/L
	Co	59	346804.561	0.59	25.7342	0.389	1.511	ug/L
	Ni	60	74828.361	0.13	26.3208	0.429	1.631	ug/L
	Cu	65	75457.044	0.13	25.8971	0.135	0.523	ug/L
	Zn	66	42475.444	0.07	25.5139	0.160	0.628	ug/L
>	Ge	72	589583.849	589583.85				ug/L
	As	75	34127.370	0.06	24.0601	0.181	0.751	ug/L
	Se	77	2742.376	0.00	24.4259	0.708	2.899	ug/L
	Se	82	3420.830	0.01	25.1746	0.766	3.041	ug/L
	Rb	85	37.334	0.00				mg/L
	Y	89	392185.359	-25691.65				ug/L
	Rh	103	20.334	5.33				ug/L
	Mo	98	86.019	0.00	0.0353	0.004	10.692	ug/L
	Ag	107	145211.214	0.34	24.1489	0.410	1.699	ug/L
	Cd	114	34735.848	0.08	25.5474	0.238	0.930	ug/L
>	In	115	423494.307	423494.31				ug/L
	Sn	118	374.140	0.00	0.0633	0.002	2.799	ug/L
	Sb	123	105187.484	0.25	25.4215	0.469	1.843	ug/L
	Ba	135	47095.113	0.09	24.9769	0.034	0.138	ug/L
	Ce	140	26.669	0.00				ug/L
>	Tb	159	550355.584	550355.58				ug/L
	Ho	165	23.336	0.00				ug/L
	Tl	203	198265.913	0.40	24.9272	0.191	0.768	ug/L
	Tl	205	472384.135	0.96	24.4896	1.127	4.601	ug/L
	Pb	206	163648.148	0.33	25.8066	0.242	0.938	ug/L
	Pb	207	140658.069	0.28	23.7355	0.383	1.613	ug/L
	Pb	208	657074.246	1.33	24.9036	0.239	0.958	ug/L
	U	238	986172.212	2.00	26.7586	0.272	1.016	ug/L
>	Bi	209	493154.950	493154.95				ug/L

Sample ID: LCSW 40 WG353345-05
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⌈	Na	23	103069.051	0.24	0.0064	0.001	19.114	mg/L
|	Mg	24	1480.258	0.00	-0.0063	0.000	0.188	mg/L
|	K	39	557750.608	0.08	-0.0018	0.002	127.827	mg/L
|	Ca	43	243.361	-0.00	-0.0031	0.001	29.662	mg/L
|	Fe	54	71833.590	-0.01	-0.0004	0.006	1542.354	mg/L
|	Fe	57	10029.370	0.00	-0.0033	0.001	17.677	mg/L
⌊>	Sc-1	45	339285.303	339285.30				mg/L
	Cl	35	20083.483	2614.89				mg/L
	Kr	83	54.667	-18.00				mg/L
	Br	81	14059.878	1791.02				mg/L
	P	31	14003.134	947.91				mg/L
	S	34	202740.652	6036.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.030			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.493			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.026			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.084			
⌈	Na	23					

Sample ID: LCSW 40 WG353345-05
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 40 WG353345-05
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101011601 WG353345-01

Sample Date/Time: Friday, January 07, 2011 14:58:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31767.127	0.01				ug/L
	Be	9	12.667	0.00	-0.0262	0.012	47.089	ug/L
	Al	27	286819.371	0.85	38.9900	5.001	12.827	ug/L
>	Sc	45	332625.310	332625.31				ug/L
	Ti	49	1440.249	0.00	1.7920	0.297	16.576	ug/L
	V	51	9926.230	0.01	0.5059	0.012	2.450	ug/L
	Cr	52	21782.920	0.02	0.9870	0.025	2.483	ug/L
	Cr	53	1556.946	0.00	1.1260	0.237	21.020	ug/L
	Mn	55	716144.352	1.29	44.8822	0.725	1.614	ug/L
	Co	59	6651.945	0.01	0.4977	0.009	1.797	ug/L
	Ni	60	4960.282	0.01	1.8342	0.099	5.377	ug/L
	Cu	65	3856.115	0.01	1.3151	0.022	1.665	ug/L
	Zn	66	28995.274	0.05	18.4563	0.220	1.189	ug/L
>	Ge	72	553478.557	553478.56				ug/L
	As	75	641.873	0.00	0.6426	0.033	5.060	ug/L
	Se	77	165.335	0.00	0.6683	0.032	4.818	ug/L
	Se	82	304.152	0.00	2.2911	0.063	2.746	ug/L
	Rb	85	11766.373	0.02				mg/L
	Y	89	363771.344	-54105.67				ug/L
	Rh	103	53.001	38.00				ug/L
	Mo	98	13951.213	0.04	4.7491	0.057	1.202	ug/L
	Ag	107	434.680	0.00	0.0711	0.005	7.411	ug/L
	Cd	114	50.012	0.00	0.0352	0.009	26.581	ug/L
>	In	115	387430.655	387430.65				ug/L
	Sn	118	561.882	0.00	0.1136	0.002	1.388	ug/L
	Sb	123	633.269	0.00	0.1846	0.026	14.346	ug/L
	Ba	135	20514.893	0.04	11.5447	0.071	0.612	ug/L
	Ce	140	5211.879	0.01				ug/L
>	Tb	159	518031.593	518031.59				ug/L
	Ho	165	116.679	0.00				ug/L
	Tl	203	89.668	0.00	0.0091	0.001	10.496	ug/L
	Tl	205	233.359	0.00	0.0072	0.003	36.171	ug/L
	Pb	206	1540.467	0.00	0.1939	0.004	2.221	ug/L
	Pb	207	1256.091	0.00	0.1702	0.002	1.215	ug/L
	Pb	208	6143.486	0.01	0.1871	0.005	2.630	ug/L
	U	238	791098.946	1.76	23.4802	0.260	1.107	ug/L
>	Bi	209	450834.348	450834.35				ug/L

Sample ID: L1101011601 WG353345-01
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⌈	Na	23	205245366.898	616.98	34.3719	1.120	3.259	mg/L
|	Mg	24	40443957.068	121.58	10.2772	0.153	1.484	mg/L
|	K	39	79605174.089	237.79	8.3510	0.140	1.674	mg/L
|	Ca	43	785812.351	2.36	33.9054	0.439	1.296	mg/L
|	Fe	54	425051.229	1.06	0.4443	0.025	5.651	mg/L
|	Fe	57	162482.827	0.46	0.4533	0.008	1.721	mg/L
⌊>	Sc-1	45	332625.310	332625.31				mg/L
	Cl	35	461570.024	444101.43				mg/L
	Kr	83	60.334	-12.33				mg/L
	Br	81	177831.822	165562.96				mg/L
	P	31	798511.168	785455.94				mg/L
	S	34	1063847.196	867143.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.965			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.446			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.386			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.667			
⌈	Na	23					

Sample ID: L1101011601 WG353345-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101011601 WG353345-01
Report Date/Time: Friday, January 07, 2011 15:01:07
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Method 6020 - Summary Report

Sample ID: L1101011601S WG353345-06

Sample Date/Time: Friday, January 07, 2011 15:05:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31215.394	0.01				ug/L
	Be	9	8771.180	0.03	22.2161	0.840	3.782	ug/L
	Al	27	370415.110	1.09	49.8644	1.397	2.802	ug/L
>	Sc	45	336715.567	336715.57				ug/L
	Ti	49	2150.548	0.00	2.8715	2.456	85.528	ug/L
	V	51	304616.057	0.57	26.0689	0.261	1.000	ug/L
	Cr	52	270875.140	0.49	26.7171	0.030	0.113	ug/L
	Cr	53	30676.758	0.06	26.7602	0.479	1.791	ug/L
	Mn	55	1071418.065	2.01	69.8978	0.192	0.275	ug/L
	Co	59	323022.716	0.61	26.5646	0.484	1.823	ug/L
	Ni	60	70034.530	0.13	27.3065	0.380	1.392	ug/L
	Cu	65	69025.560	0.13	26.2587	0.273	1.041	ug/L
	Zn	66	63394.972	0.12	42.4432	0.279	0.657	ug/L
>	Ge	72	531873.858	531873.86				ug/L
	As	75	30238.956	0.06	23.6326	0.196	0.829	ug/L
	Se	77	2320.269	0.00	22.8599	1.257	5.500	ug/L
	Se	82	2868.664	0.01	23.3909	0.182	0.777	ug/L
	Rb	85	11135.976	0.02				mg/L
	Y	89	347286.009	-70591.01				ug/L
	Rh	103	51.001	36.00				ug/L
	Mo	98	13170.518	0.04	4.6732	0.114	2.444	ug/L
	Ag	107	115846.500	0.31	21.9426	0.323	1.474	ug/L
	Cd	114	28198.889	0.08	23.6249	0.296	1.251	ug/L
>	In	115	371861.656	371861.66				ug/L
	Sn	118	502.946	0.00	0.1050	0.006	5.910	ug/L
	Sb	123	91448.002	0.25	25.1699	0.441	1.753	ug/L
	Ba	135	61689.024	0.12	35.0804	0.404	1.152	ug/L
	Ce	140	4958.393	0.01				ug/L
>	Tb	159	513430.348	513430.35				ug/L
	Ho	165	160.017	0.00				ug/L
	Tl	203	177910.627	0.40	24.8331	0.237	0.953	ug/L
	Tl	205	437395.057	0.98	25.1701	0.355	1.412	ug/L
	Pb	206	149839.276	0.34	26.2312	0.174	0.663	ug/L
	Pb	207	132099.588	0.30	24.7518	0.382	1.545	ug/L
	Pb	208	609635.210	1.37	25.6529	0.291	1.135	ug/L
	U	238	1733690.802	3.90	52.2354	0.910	1.743	ug/L
>	Bi	209	444234.468	444234.47				ug/L

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⌈	Na	23	192843949.201	573.40	31.9436	1.420	4.445	mg/L
|	Mg	24	36283880.076	107.80	9.1119	0.130	1.422	mg/L
|	K	39	75913404.895	224.12	7.8707	0.280	3.560	mg/L
|	Ca	43	748785.204	2.23	31.9551	2.054	6.427	mg/L
|	Fe	54	388689.639	0.94	0.3935	0.031	7.794	mg/L
|	Fe	57	150407.638	0.42	0.4129	0.046	11.168	mg/L
⌊>	Sc-1	45	336715.567	336715.57				mg/L
	Cl	35	431827.205	414358.61				mg/L
	Kr	83	52.667	-20.00				mg/L
	Br	81	122872.723	110603.86				mg/L
	P	31	743466.593	730411.37				mg/L
	S	34	1013837.367	817133.21				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.337			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.972			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.583			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.354			
⌈	Na	23					

Sample ID: L1101011601S WG353345-06
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101011601S WG353345-06
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Method 6020 - Summary Report

Sample ID: L1101011601SD WG353345-07

Sample Date/Time: Friday, January 07, 2011 15:12:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	34760.341	0.01				ug/L
	Be	9	9124.162	0.03	22.3401	0.757	3.389	ug/L
	Al	27	354233.678	1.01	46.1442	2.496	5.409	ug/L
>	Sc	45	348267.221	348267.22				ug/L
	Ti	49	1260.206	0.00	1.5536	0.239	15.409	ug/L
	V	51	320990.684	0.58	26.4990	0.295	1.113	ug/L
	Cr	52	284174.590	0.49	27.0436	0.517	1.911	ug/L
	Cr	53	32689.958	0.06	27.5119	0.372	1.352	ug/L
	Mn	55	1124199.886	2.04	70.7325	0.489	0.692	ug/L
	Co	59	334175.213	0.61	26.5078	0.422	1.594	ug/L
	Ni	60	72637.850	0.13	27.3105	0.896	3.279	ug/L
	Cu	65	71887.265	0.13	26.3755	0.415	1.572	ug/L
	Zn	66	66270.209	0.12	42.7885	0.392	0.916	ug/L
>	Ge	72	551498.832	551498.83				ug/L
	As	75	31200.710	0.06	23.5184	0.505	2.148	ug/L
	Se	77	2471.639	0.00	23.4933	0.622	2.646	ug/L
	Se	82	2990.052	0.01	23.5124	0.275	1.168	ug/L
	Rb	85	11370.241	0.02				mg/L
	Y	89	356104.988	-61772.03				ug/L
	Rh	103	55.001	40.00				ug/L
	Mo	98	13365.670	0.03	4.6073	0.102	2.208	ug/L
	Ag	107	118536.946	0.31	21.8147	0.114	0.522	ug/L
	Cd	114	29513.166	0.08	24.0264	0.378	1.571	ug/L
>	In	115	382621.185	382621.18				ug/L
	Sn	118	510.146	0.00	0.1032	0.004	3.654	ug/L
	Sb	123	93241.284	0.24	24.9357	0.198	0.795	ug/L
	Ba	135	64242.368	0.12	35.2707	0.222	0.628	ug/L
	Ce	140	4905.030	0.01				ug/L
>	Tb	159	531798.746	531798.75				ug/L
	Ho	165	163.351	0.00				ug/L
	Tl	203	190249.647	0.41	25.3361	0.431	1.701	ug/L
	Tl	205	463972.398	1.00	25.4706	0.485	1.905	ug/L
	Pb	206	159607.677	0.34	26.6664	0.473	1.775	ug/L
	Pb	207	138826.800	0.30	24.8174	0.284	1.145	ug/L
	Pb	208	644849.800	1.38	25.8910	0.161	0.623	ug/L
	U	238	1838669.356	3.95	52.8619	0.675	1.276	ug/L
>	Bi	209	465552.427	465552.43				ug/L

Sample ID: L1101011601SD WG353345-07
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⌈	Na	23	204124542.760	586.91	32.6963	1.852	5.664	mg/L
|	Mg	24	40104699.452	115.24	9.7413	0.286	2.933	mg/L
|	K	39	82549303.990	235.78	8.2804	0.422	5.095	mg/L
|	Ca	43	827050.778	2.38	34.1422	2.628	7.696	mg/L
|	Fe	54	409586.445	0.95	0.4016	0.003	0.724	mg/L
|	Fe	57	158015.935	0.42	0.4187	0.003	0.616	mg/L
⌊>	Sc-1	45	348267.221	348267.22				mg/L
	Cl	35	452341.093	434872.50				mg/L
	Kr	83	50.667	-22.00				mg/L
	Br	81	117021.304	104752.44				mg/L
	P	31	796976.951	783921.72				mg/L
	S	34	1098639.129	901934.97				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.633			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.373			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.788			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.594			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101011601SD WG353345-07
Report Date/Time: Friday, January 07, 2011 15:14:40
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101010801

Sample Date/Time: Friday, January 07, 2011 15:19:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30279.181	0.01				ug/L
	Be	9	10.667	0.00	-0.0304	0.007	21.769	ug/L
	Al	27	46742.354	0.14	6.2964	0.014	0.215	ug/L
>	Sc	45	321624.958	321624.96				ug/L
	Ti	49	193.355	0.00	0.0973	0.023	23.987	ug/L
	V	51	4106.950	0.00	0.0262	0.006	24.333	ug/L
	Cr	52	14464.267	0.01	0.2830	0.025	8.671	ug/L
	Cr	53	493.395	0.00	0.2344	0.032	13.597	ug/L
	Mn	55	3493.979	0.01	0.1825	0.007	4.093	ug/L
	Co	59	175.670	0.00	-0.0146	0.002	11.950	ug/L
	Ni	60	199.004	0.00	0.0500	0.001	2.256	ug/L
	Cu	65	366.344	0.00	0.0362	0.007	18.831	ug/L
	Zn	66	2334.963	0.00	1.1865	0.032	2.688	ug/L
>	Ge	72	545870.167	545870.17				ug/L
	As	75	-178.130	0.00	0.0293	0.061	209.126	ug/L
	Se	77	78.000	-0.00	-0.1823	0.191	104.809	ug/L
	Se	82	15.174	0.00	0.0196	0.130	665.222	ug/L
	Rb	85	118.002	0.00				mg/L
	Y	89	351917.177	-65959.84				ug/L
	Rh	103	8.000	-7.00				ug/L
	Mo	98	41.644	0.00	0.0227	0.001	6.225	ug/L
	Ag	107	54.667	0.00	0.0020	0.001	57.100	ug/L
	Cd	114	24.272	0.00	0.0146	0.009	58.792	ug/L
>	In	115	389074.735	389074.73				ug/L
	Sn	118	254.537	0.00	0.0429	0.001	1.430	ug/L
	Sb	123	305.045	0.00	0.0979	0.014	13.826	ug/L
	Ba	135	256.006	0.00	0.1144	0.007	6.088	ug/L
	Ce	140	546.736	0.00				ug/L
>	Tb	159	528092.798	528092.80				ug/L
	Ho	165	46.671	0.00				ug/L
	Tl	203	64.668	0.00	0.0052	0.001	22.644	ug/L
	Tl	205	120.013	0.00	0.0004	0.002	557.978	ug/L
	Pb	206	551.354	0.00	0.0175	0.003	17.403	ug/L
	Pb	207	458.682	0.00	0.0179	0.005	27.787	ug/L
	Pb	208	2125.109	0.00	0.0151	0.000	3.157	ug/L
	U	238	489.351	0.00	-0.0086	0.004	42.600	ug/L
>	Bi	209	477349.908	477349.91				ug/L

Sample ID: L1101010801
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Na	23	254111.269	0.73	0.0335	0.001	2.713	mg/L
Mg	24	95412.712	0.30	0.0185	0.000	1.319	mg/L
K	39	603875.495	0.32	0.0063	0.002	26.364	mg/L
Ca	43	1686.979	0.00	0.0619	0.007	10.982	mg/L
Fe	54	122916.611	0.16	0.0706	0.006	8.595	mg/L
Fe	57	11667.970	0.01	0.0034	0.000	12.352	mg/L
Sc-1	45	321624.958	321624.96				mg/L
Cl	35	30927.087	13458.49				mg/L
Kr	83	56.667	-16.00				mg/L
Br	81	20666.034	8397.17				mg/L
P	31	22216.805	9161.58				mg/L
S	34	212984.071	16279.91				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		91.687			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		86.813			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		92.141			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		94.940			
Na	23					

Sample ID: L1101010801
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101010801
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101010801PS WG353355-01

Sample Date/Time: Friday, January 07, 2011 15:26:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28323.673	-0.00				ug/L
	Be	9	17520.671	0.05	46.1720	1.743	3.775	ug/L
	Al	27	395689.690	1.21	55.4791	4.300	7.751	ug/L
>	Sc	45	323966.482	323966.48				ug/L
	Ti	49	190.021	0.00	0.0989	0.105	106.101	ug/L
	V	51	608857.874	1.14	52.4119	0.464	0.885	ug/L
	Cr	52	545220.026	1.00	54.9442	1.012	1.843	ug/L
	Cr	53	62819.665	0.12	54.9919	1.008	1.833	ug/L
	Mn	55	841631.309	1.58	54.8824	0.997	1.817	ug/L
	Co	59	659998.313	1.24	54.3038	1.166	2.148	ug/L
	Ni	60	137521.295	0.26	53.6279	0.864	1.611	ug/L
	Cu	65	139201.781	0.26	53.0429	0.984	1.855	ug/L
	Zn	66	72565.403	0.14	48.6109	0.058	0.120	ug/L
>	Ge	72	532066.563	532066.56				ug/L
	As	75	58618.808	0.11	45.6494	0.647	1.416	ug/L
	Se	77	4352.281	0.01	43.6759	0.946	2.165	ug/L
	Se	82	5383.366	0.01	43.9739	1.044	2.374	ug/L
	Rb	85	106.335	0.00				mg/L
	Y	89	348072.610	-69804.40				ug/L
	Rh	103	27.667	12.67				ug/L
	Mo	98	59.685	0.00	0.0290	0.003	10.881	ug/L
	Ag	107	264653.439	0.69	48.3806	0.798	1.649	ug/L
	Cd	114	61112.289	0.16	49.3942	1.152	2.333	ug/L
>	In	115	385305.513	385305.51				ug/L
	Sn	118	290.404	0.00	0.0517	0.002	3.324	ug/L
	Sb	123	193022.730	0.50	51.2496	1.152	2.247	ug/L
	Ba	135	89274.209	0.17	49.2504	0.878	1.782	ug/L
	Ce	140	503.397	0.00				ug/L
>	Tb	159	529302.760	529302.76				ug/L
	Ho	165	16.668	0.00				ug/L
	Tl	203	390210.106	0.82	51.1434	0.565	1.106	ug/L
	Tl	205	957588.307	2.02	51.7378	0.655	1.267	ug/L
	Pb	206	325837.985	0.69	53.6385	0.755	1.408	ug/L
	Pb	207	282016.591	0.60	49.6692	0.319	0.642	ug/L
	Pb	208	1312086.470	2.77	51.9108	0.643	1.238	ug/L
	U	238	1991776.006	4.21	56.3590	0.492	0.873	ug/L
>	Bi	209	473107.176	473107.18				ug/L

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Na	23	208590.779	0.58	0.0254	0.001	3.462	mg/L
Mg	24	85556.370	0.26	0.0157	0.001	6.204	mg/L
K	39	586454.442	0.25	0.0040	0.004	101.823	mg/L
Ca	43	1420.243	0.00	0.0496	0.001	1.200	mg/L
Fe	54	120624.988	0.15	0.0664	0.009	13.776	mg/L
Fe	57	10937.077	0.00	0.0009	0.002	185.883	mg/L
Sc-1	45	323966.482	323966.48				mg/L
Cl	35	29591.737	12123.14				mg/L
Kr	83	57.667	-15.00				mg/L
Br	81	15767.091	3498.23				mg/L
P	31	25968.655	12913.43				mg/L
S	34	199899.574	3195.41				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		89.369			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		85.972			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		92.352			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		94.096			
Na	23					

Sample ID: L1101010801PS WG353355-01
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101010801PS WG353355-01
Report Date/Time: Friday, January 07, 2011 15:28:14
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101010801SDL WG353355-02

Sample Date/Time: Friday, January 07, 2011 15:32:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27370.743	0.00				ug/L
	Be	9	8.667	0.00	-0.0342	0.016	48.066	ug/L
	Al	27	11056.120	0.03	1.3433	0.095	7.053	ug/L
>	Sc	45	300567.114	300567.11				ug/L
	Ti	49	73.341	0.00	-0.0681	0.021	31.257	ug/L
	V	51	3634.353	0.00	-0.0120	0.010	83.813	ug/L
	Cr	52	11278.471	-0.00	-0.0304	0.025	82.245	ug/L
	Cr	53	293.367	-0.00	0.0647	0.035	54.012	ug/L
	Mn	55	983.392	0.00	0.0232	0.002	9.751	ug/L
	Co	59	126.002	0.00	-0.0186	0.000	1.150	ug/L
	Ni	60	79.001	0.00	0.0045	0.003	73.545	ug/L
	Cu	65	227.005	0.00	-0.0152	0.004	25.702	ug/L
	Zn	66	2769.078	0.00	1.4817	0.026	1.751	ug/L
>	Ge	72	542909.683	542909.68				ug/L
	As	75	-192.962	-0.00	0.0172	0.047	271.678	ug/L
	Se	77	70.000	-0.00	-0.2582	0.164	63.597	ug/L
	Se	82	2.168	-0.00	-0.0848	0.081	95.020	ug/L
	Rb	85	65.334	0.00				mg/L
	Y	89	344161.950	-73715.06				ug/L
	Rh	103	7.667	-7.33				ug/L
	Mo	98	20.420	0.00	0.0156	0.002	9.786	ug/L
	Ag	107	52.334	0.00	0.0017	0.000	29.457	ug/L
	Cd	114	18.808	0.00	0.0103	0.005	50.233	ug/L
>	In	115	384506.364	384506.36				ug/L
	Sn	118	253.470	0.00	0.0433	0.004	9.067	ug/L
	Sb	123	341.375	0.00	0.1084	0.009	8.510	ug/L
	Ba	135	63.334	0.00	0.0087	0.002	18.962	ug/L
	Ce	140	156.684	0.00				ug/L
>	Tb	159	513999.199	513999.20				ug/L
	Ho	165	23.336	0.00				ug/L
	Tl	203	63.001	0.00	0.0049	0.002	41.363	ug/L
	Tl	205	176.686	0.00	0.0034	0.001	40.135	ug/L
	Pb	206	483.017	0.00	0.0064	0.006	91.799	ug/L
	Pb	207	408.012	0.00	0.0091	0.001	11.935	ug/L
	Pb	208	1876.421	0.00	0.0054	0.002	35.761	ug/L
	U	238	201.671	0.00	-0.0167	0.001	3.115	ug/L
>	Bi	209	477115.242	477115.24				ug/L

Sample ID: L1101010801SDL WG353355-02
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⌈	Na	23	138760.234	0.40	0.0152	0.001	3.310	mg/L
|	Mg	24	17697.463	0.06	-0.0016	0.000	18.156	mg/L
|	K	39	530836.616	0.20	0.0024	0.002	85.385	mg/L
|	Ca	43	453.389	0.00	0.0083	0.001	9.459	mg/L
|	Fe	54	44285.384	-0.07	-0.0274	0.002	6.678	mg/L
|	Fe	57	8871.498	0.00	-0.0033	0.002	66.873	mg/L
⌊>	Sc-1	45	300567.114	300567.11				mg/L
	Cl	35	19126.274	1657.68				mg/L
	Kr	83	57.334	-15.33				mg/L
	Br	81	13188.694	919.83				mg/L
	P	31	8711.131	-4344.10				mg/L
	S	34	200867.705	4163.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.190			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.793			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.682			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.894			
⌈	Na	23					

Sample ID: L1101010801SDL WG353355-02
Report Date/Time: Friday, January 07, 2011 15:35:02
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101010801SDL WG353355-02
Report Date/Time: Friday, January 07, 2011 15:35:02
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 15:39:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29025.439	0.00				ug/L
	Be	9	18328.114	0.06	49.3732	1.582	3.205	ug/L
	Al	27	354116.576	1.11	50.6747	2.233	4.406	ug/L
>	Sc	45	316982.803	316982.80				ug/L
	Ti	49	75216.032	0.14	103.9225	2.673	2.572	ug/L
	V	51	602018.247	1.10	50.5769	1.698	3.358	ug/L
	Cr	52	519033.233	0.93	50.9717	1.408	2.762	ug/L
	Cr	53	59388.426	0.11	50.7245	0.310	0.611	ug/L
	Mn	55	821773.515	1.51	52.3065	1.423	2.721	ug/L
	Co	59	642516.326	1.18	51.5920	0.216	0.418	ug/L
	Ni	60	134159.614	0.25	51.0638	1.499	2.936	ug/L
	Cu	65	136491.619	0.25	50.7638	1.076	2.120	ug/L
	Zn	66	79109.816	0.14	51.7492	0.702	1.356	ug/L
>	Ge	72	545157.079	545157.08				ug/L
	As	75	64231.247	0.12	48.8090	0.774	1.586	ug/L
	Se	77	5129.315	0.01	50.3891	0.685	1.360	ug/L
	Se	82	6361.256	0.01	50.7258	0.366	0.722	ug/L
	Rb	85	2585.693	0.00				mg/L
	Y	89	353854.508	-64022.51				ug/L
	Rh	103	23.000	8.00				ug/L
	Mo	98	282916.772	0.73	96.1302	1.438	1.495	ug/L
	Ag	107	266434.860	0.69	48.4309	0.572	1.182	ug/L
	Cd	114	62756.082	0.16	50.4560	0.706	1.399	ug/L
>	In	115	387434.856	387434.86				ug/L
	Sn	118	220101.945	0.57	50.4235	0.416	0.826	ug/L
	Sb	123	194156.731	0.50	51.2620	0.336	0.655	ug/L
	Ba	135	87126.443	0.17	50.2106	0.363	0.723	ug/L
	Ce	140	73.341	0.00				ug/L
>	Tb	159	506787.599	506787.60				ug/L
	Ho	165	10.001	-0.00				ug/L
	Tl	203	370097.147	0.79	48.9876	0.410	0.838	ug/L
	Tl	205	921295.564	1.97	50.2708	0.617	1.228	ug/L
	Pb	206	299819.445	0.64	49.8397	0.542	1.088	ug/L
	Pb	207	279267.234	0.60	49.6739	0.099	0.199	ug/L
	Pb	208	1250617.893	2.67	49.9659	0.212	0.425	ug/L
	U	238	1932117.464	4.12	55.2127	0.527	0.955	ug/L
>	Bi	209	468428.429	468428.43				ug/L

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Na	23	30748407.605	97.06	5.4010	0.383	7.100	mg/L
Mg	24	19977268.123	63.12	5.3325	0.382	7.162	mg/L
K	39	47584759.663	148.65	5.2185	0.240	4.608	mg/L
Ca	43	112679.786	0.35	5.0964	0.305	5.987	mg/L
Fe	54	3945109.145	12.23	5.1049	0.145	2.838	mg/L
Fe	57	1657492.927	5.21	5.1762	0.282	5.453	mg/L
Sc-1	45	316982.803	316982.80				mg/L
Cl	35	17646.231	177.64				mg/L
Kr	83	61.667	-11.00				mg/L
Br	81	13119.274	850.41				mg/L
P	31	13929.744	874.52				mg/L
S	34	204803.960	8099.80				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	101.154				
Cr	52	101.943				
Cr	53					
Mn	55	104.613				
Co	59	103.184				
Ni	60	102.128				
Cu	65	101.528				
Zn	66	103.498				
Ge	72		91.568			
As	75	97.618				
Se	77					
Se	82	101.452				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	96.862				
Cd	114	100.912				
In	115		86.447			
Sn	118					
Sb	123	102.524				
Ba	135	100.421				
Ce	140					
Tb	159		88.424			
Ho	165					
Tl	203	97.975				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.932				
U	238	110.425				
Bi	209		93.166			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Friday, January 07, 2011 15:41:49
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 15:46:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29493.499	0.01				ug/L
	Be	9	7.333	0.00	-0.0387	0.013	34.787	ug/L
	Al	27	2300.265	-0.00	0.0076	0.020	255.727	ug/L
>	Sc	45	306054.051	306054.05				ug/L
	Ti	49	63.340	0.00	-0.0830	0.016	18.720	ug/L
	V	51	3512.503	-0.00	-0.0258	0.008	31.970	ug/L
	Cr	52	11246.774	-0.00	-0.0468	0.044	93.126	ug/L
	Cr	53	360.043	0.00	0.1185	0.031	25.770	ug/L
	Mn	55	366.344	-0.00	-0.0165	0.001	4.169	ug/L
	Co	59	98.668	0.00	-0.0209	0.001	2.667	ug/L
	Ni	60	22.334	-0.00	-0.0172	0.002	12.572	ug/L
	Cu	65	248.006	0.00	-0.0084	0.002	22.607	ug/L
	Zn	66	357.010	-0.00	-0.1159	0.022	19.284	ug/L
>	Ge	72	549264.545	549264.55				ug/L
	As	75	-181.643	0.00	0.0274	0.024	88.873	ug/L
	Se	77	102.667	0.00	0.0581	0.066	113.721	ug/L
	Se	82	14.545	0.00	0.0131	0.052	397.386	ug/L
	Rb	85	21.334	-0.00				mg/L
	Y	89	352342.655	-65534.36				ug/L
	Rh	103	9.000	-6.00				ug/L
	Mo	98	166.053	0.00	0.0645	0.012	18.993	ug/L
	Ag	107	29.000	0.00	-0.0027	0.001	48.391	ug/L
	Cd	114	8.022	-0.00	0.0015	0.006	391.285	ug/L
>	In	115	392134.944	392134.94				ug/L
	Sn	118	394.808	0.00	0.0743	0.006	8.243	ug/L
	Sb	123	394.420	0.00	0.1205	0.005	4.510	ug/L
	Ba	135	20.667	0.00	-0.0157	0.002	15.043	ug/L
	Ce	140	23.336	0.00				ug/L
>	Tb	159	519978.053	519978.05				ug/L
	Ho	165	6.667	-0.00				ug/L
	Tl	203	16.667	0.00	-0.0011	0.000	17.364	ug/L
	Tl	205	56.672	0.00	-0.0031	0.001	20.189	ug/L
	Pb	206	406.346	0.00	-0.0069	0.002	31.704	ug/L
	Pb	207	336.676	-0.00	-0.0041	0.003	65.829	ug/L
	Pb	208	1590.066	0.00	-0.0067	0.002	22.736	ug/L
	U	238	104.668	0.00	-0.0195	0.000	1.719	ug/L
>	Bi	209	483066.136	483066.14				ug/L

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Na	23	49487.281	0.10	-0.0015	0.000	9.836	mg/L
Mg	24	453.389	0.00	-0.0065	0.000	0.209	mg/L
K	39	496367.536	0.06	-0.0027	0.001	22.214	mg/L
Ca	43	200.022	-0.00	-0.0039	0.002	52.589	mg/L
Fe	54	60382.416	-0.02	-0.0065	0.003	43.304	mg/L
Fe	57	8411.052	-0.00	-0.0053	0.001	17.308	mg/L
Sc-1	45	306054.051	306054.05				mg/L
Cl	35	16991.097	-477.49				mg/L
Kr	83	52.334	-20.33				mg/L
Br	81	12768.146	499.29				mg/L
P	31	14018.574	963.35				mg/L
S	34	203298.378	6594.22				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.258			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		87.496			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		90.725			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		96.077			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 15:48:53
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: L1101012901 WG353345-02

Sample Date/Time: Friday, January 07, 2011 15:53:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30078.541	0.00				ug/L
	Be	9	10.000	0.00	-0.0334	0.008	23.833	ug/L
	Al	27	306727.476	0.91	41.5264	4.173	10.049	ug/L
>	Sc	45	334505.737	334505.74				ug/L
	Ti	49	2444.177	0.00	3.2137	4.148	129.085	ug/L
	V	51	6398.472	0.01	0.2225	0.018	8.295	ug/L
	Cr	52	18059.474	0.01	0.6529	0.030	4.646	ug/L
	Cr	53	690.093	0.00	0.4055	0.094	23.229	ug/L
	Mn	55	222059.035	0.41	14.1566	0.174	1.227	ug/L
	Co	59	1314.766	0.00	0.0773	0.001	1.654	ug/L
	Ni	60	3041.827	0.01	1.1369	0.056	4.940	ug/L
	Cu	65	1394.111	0.00	0.4213	0.008	1.830	ug/L
	Zn	66	3018.152	0.00	1.6459	0.056	3.392	ug/L
>	Ge	72	543115.119	543115.12				ug/L
	As	75	401.287	0.00	0.4691	0.053	11.228	ug/L
	Se	77	92.000	0.00	-0.0368	0.118	320.625	ug/L
	Se	82	34.888	0.00	0.1777	0.063	35.458	ug/L
	Rb	85	3154.862	0.01				mg/L
	Y	89	352632.985	-65244.03				ug/L
	Rh	103	40.334	25.33				ug/L
	Mo	98	1010.746	0.00	0.3528	0.012	3.513	ug/L
	Ag	107	47.001	0.00	0.0006	0.001	194.810	ug/L
	Cd	114	16.607	0.00	0.0084	0.010	115.574	ug/L
>	In	115	386659.383	386659.38				ug/L
	Sn	118	1644.935	0.00	0.3626	0.017	4.636	ug/L
	Sb	123	335.417	0.00	0.1064	0.006	5.239	ug/L
	Ba	135	32870.602	0.06	18.4866	0.249	1.345	ug/L
	Ce	140	1253.538	0.00				ug/L
>	Tb	159	518844.288	518844.29				ug/L
	Ho	165	40.004	0.00				ug/L
	Tl	203	28.334	0.00	0.0005	0.001	97.436	ug/L
	Tl	205	53.339	0.00	-0.0031	0.002	51.660	ug/L
	Pb	206	728.701	0.00	0.0496	0.007	14.003	ug/L
	Pb	207	635.360	0.00	0.0517	0.002	4.761	ug/L
	Pb	208	2907.529	0.00	0.0488	0.005	10.280	ug/L
	U	238	7226.683	0.02	0.1858	0.007	3.759	ug/L
>	Bi	209	465091.536	465091.54				ug/L

Sample ID: L1101012901 WG353345-02
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⌈	Na	23	32407430.423	96.89	5.3914	0.242	4.482	mg/L
|	Mg	24	18374136.849	54.94	4.6404	0.131	2.826	mg/L
|	K	39	11978763.434	34.25	1.1987	0.023	1.878	mg/L
|	Ca	43	588071.203	1.76	25.2342	0.678	2.686	mg/L
|	Fe	54	157023.790	0.25	0.1071	0.008	7.128	mg/L
|	Fe	57	48844.897	0.12	0.1130	0.020	18.086	mg/L
⌊>	Sc-1	45	334505.737	334505.74				mg/L
	Cl	35	269818.106	252349.51				mg/L
	Kr	83	51.334	-21.33				mg/L
	Br	81	21428.943	9160.08				mg/L
	P	31	26474.766	13419.54				mg/L
	S	34	642968.541	446264.38				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.225			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.274			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.528			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.502			
⌈	Na	23					

Sample ID: L1101012901 WG353345-02
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101012901 WG353345-02
Report Date/Time: Friday, January 07, 2011 15:55:41
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Method 6020 - Summary Report

Sample ID: L1101012901S WG353345-08

Sample Date/Time: Friday, January 07, 2011 16:00:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31633.341	0.00				ug/L
	Be	9	8985.368	0.03	22.2788	0.559	2.508	ug/L
	Al	27	508987.690	1.47	67.2970	6.509	9.672	ug/L
>	Sc	45	343796.167	343796.17				ug/L
	Ti	49	846.790	0.00	0.9736	0.369	37.876	ug/L
	V	51	319087.085	0.57	26.0607	0.603	2.313	ug/L
	Cr	52	290014.562	0.50	27.3244	0.755	2.764	ug/L
	Cr	53	33138.134	0.06	27.5964	0.476	1.725	ug/L
	Mn	55	643238.113	1.15	40.0281	0.882	2.204	ug/L
	Co	59	333517.455	0.60	26.1779	0.260	0.993	ug/L
	Ni	60	73101.339	0.13	27.1955	0.364	1.339	ug/L
	Cu	65	70447.995	0.13	25.5713	0.104	0.408	ug/L
	Zn	66	39981.505	0.07	25.3994	0.078	0.306	ug/L
>	Ge	72	557424.574	557424.57				ug/L
	As	75	30910.128	0.06	23.0583	0.320	1.387	ug/L
	Se	77	2321.603	0.00	21.7714	0.542	2.488	ug/L
	Se	82	2785.651	0.00	21.6660	0.270	1.248	ug/L
	Rb	85	2808.757	0.00				mg/L
	Y	89	357641.583	-60235.43				ug/L
	Rh	103	55.334	40.33				ug/L
	Mo	98	968.627	0.00	0.3343	0.014	4.225	ug/L
	Ag	107	121862.370	0.31	21.9215	0.155	0.709	ug/L
	Cd	114	29626.590	0.08	23.5730	0.101	0.430	ug/L
>	In	115	391424.241	391424.24				ug/L
	Sn	118	870.171	0.00	0.1822	0.004	2.100	ug/L
	Sb	123	94901.310	0.24	24.8129	0.440	1.774	ug/L
	Ba	135	75210.967	0.14	41.5708	0.986	2.371	ug/L
	Ce	140	1123.509	0.00				ug/L
>	Tb	159	528325.435	528325.44				ug/L
	Ho	165	60.006	0.00				ug/L
	Tl	203	191441.008	0.40	25.1108	0.796	3.170	ug/L
	Tl	205	468975.025	0.99	25.3500	0.181	0.712	ug/L
	Pb	206	159434.201	0.34	26.2259	0.413	1.573	ug/L
	Pb	207	140569.834	0.30	24.7433	0.357	1.443	ug/L
	Pb	208	645117.627	1.36	25.5055	0.433	1.696	ug/L
	U	238	990759.329	2.10	28.0423	0.455	1.623	ug/L
>	Bi	209	472833.658	472833.66				ug/L

Sample ID: L1101012901S WG353345-08
Report Date/Time: Friday, January 07, 2011 16:02:29
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⌈	Na	23	33229960.481	96.63	5.3771	0.109	2.030	mg/L
|	Mg	24	19076288.881	55.51	4.6888	0.128	2.738	mg/L
|	K	39	11895014.225	33.07	1.1571	0.059	5.086	mg/L
|	Ca	43	618066.777	1.80	25.8130	1.021	3.956	mg/L
|	Fe	54	157163.354	0.24	0.1018	0.005	5.292	mg/L
|	Fe	57	44533.429	0.10	0.0962	0.004	4.470	mg/L
⌊>	Sc-1	45	343796.167	343796.17				mg/L
	Cl	35	225749.921	208281.33				mg/L
	Kr	83	51.334	-21.33				mg/L
	Br	81	52630.884	40362.02				mg/L
	P	31	31884.946	18829.72				mg/L
	S	34	654906.058	458201.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.628			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.337			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.182			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.042			
⌈	Na	23					

Sample ID: L1101012901S WG353345-08
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101012901S WG353345-08
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Method 6020 - Summary Report

Sample ID: L1101012902 WG353345-03

Sample Date/Time: Friday, January 07, 2011 16:07:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33656.548	0.00				ug/L
	Be	9	7.333	0.00	-0.0421	0.008	17.822	ug/L
	Al	27	287407.733	0.75	34.1925	2.299	6.723	ug/L
>	Sc	45	380584.061	380584.06				ug/L
	Ti	49	690.093	0.00	0.7279	0.075	10.291	ug/L
	V	51	5983.447	0.00	0.1552	0.020	12.894	ug/L
	Cr	52	17217.317	0.01	0.4588	0.014	2.956	ug/L
	Cr	53	876.793	0.00	0.5191	0.028	5.334	ug/L
	Mn	55	162368.644	0.28	9.6870	0.148	1.528	ug/L
	Co	59	1399.446	0.00	0.0770	0.007	8.823	ug/L
	Ni	60	3521.657	0.01	1.2354	0.079	6.392	ug/L
	Cu	65	1436.451	0.00	0.4034	0.010	2.396	ug/L
	Zn	66	3307.914	0.01	1.7002	0.085	4.975	ug/L
>	Ge	72	579530.208	579530.21				ug/L
	As	75	413.316	0.00	0.4583	0.023	4.924	ug/L
	Se	77	108.667	0.00	0.0619	0.069	111.966	ug/L
	Se	82	36.893	0.00	0.1749	0.034	19.281	ug/L
	Rb	85	3023.487	0.01				mg/L
	Y	89	369061.866	-48815.15				ug/L
	Rh	103	54.667	39.67				ug/L
	Mo	98	735.084	0.00	0.2409	0.007	3.079	ug/L
	Ag	107	50.334	0.00	0.0006	0.000	76.754	ug/L
	Cd	114	22.866	0.00	0.0122	0.002	15.288	ug/L
>	In	115	416644.388	416644.39				ug/L
	Sn	118	310.671	0.00	0.0510	0.001	2.437	ug/L
	Sb	123	512.969	0.00	0.1437	0.013	8.851	ug/L
	Ba	135	35740.789	0.06	18.6008	0.082	0.442	ug/L
	Ce	140	1046.827	0.00				ug/L
>	Tb	159	560642.653	560642.65				ug/L
	Ho	165	63.340	0.00				ug/L
	Tl	203	46.667	0.00	0.0024	0.000	8.738	ug/L
	Tl	205	133.348	0.00	0.0005	0.002	444.029	ug/L
	Pb	206	684.364	0.00	0.0313	0.006	19.924	ug/L
	Pb	207	579.023	0.00	0.0317	0.006	20.403	ug/L
	Pb	208	2778.850	0.00	0.0330	0.001	2.143	ug/L
	U	238	8553.744	0.02	0.2004	0.004	2.123	ug/L
>	Bi	209	514024.850	514024.85				ug/L

Sample ID: L1101012902 WG353345-03
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⌈	Na	23	37762761.157	99.24	5.5226	0.135	2.443	mg/L
|	Mg	24	21727781.803	57.15	4.8275	0.176	3.642	mg/L
|	K	39	14176354.686	35.67	1.2485	0.027	2.123	mg/L
|	Ca	43	725377.620	1.91	27.3781	1.002	3.661	mg/L
|	Fe	54	168439.098	0.22	0.0960	0.008	8.668	mg/L
|	Fe	57	54216.042	0.11	0.1089	0.005	4.957	mg/L
⌊>	Sc-1	45	380584.061	380584.06				mg/L
	Cl	35	258164.960	240696.37				mg/L
	Kr	83	50.667	-22.00				mg/L
	Br	81	27420.216	15151.36				mg/L
	P	31	33294.451	20239.22				mg/L
	S	34	748874.626	552170.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.341			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.964			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.821			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.235			
⌈	Na	23					

Sample ID: L1101012902 WG353345-03
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101012902 WG353345-03
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Method 6020 - Summary Report

Sample ID: L1101012902DP WG353345-09

Sample Date/Time: Friday, January 07, 2011 16:13:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33188.443	0.00				ug/L
	Be	9	8.000	0.00	-0.0403	0.009	22.360	ug/L
	Al	27	302447.790	0.81	37.2725	9.786	26.255	ug/L
>	Sc	45	370101.818	370101.82				ug/L
	Ti	49	780.111	0.00	0.8613	0.344	39.982	ug/L
	V	51	5652.331	0.00	0.1359	0.015	11.053	ug/L
	Cr	52	17091.767	0.01	0.4720	0.028	5.989	ug/L
	Cr	53	830.118	0.00	0.4919	0.043	8.778	ug/L
	Mn	55	166067.871	0.29	10.0634	0.177	1.759	ug/L
	Co	59	1380.442	0.00	0.0772	0.002	3.191	ug/L
	Ni	60	3705.724	0.01	1.3222	0.022	1.659	ug/L
	Cu	65	1524.131	0.00	0.4424	0.016	3.604	ug/L
	Zn	66	2647.377	0.00	1.3160	0.027	2.033	ug/L
>	Ge	72	570689.802	570689.80				ug/L
	As	75	451.380	0.00	0.4905	0.024	4.864	ug/L
	Se	77	99.334	0.00	-0.0119	0.079	665.240	ug/L
	Se	82	31.293	0.00	0.1366	0.034	24.844	ug/L
	Rb	85	2980.474	0.01				mg/L
	Y	89	362837.795	-55039.22				ug/L
	Rh	103	58.001	43.00				ug/L
	Mo	98	797.090	0.00	0.2684	0.002	0.773	ug/L
	Ag	107	34.667	0.00	-0.0019	0.001	56.501	ug/L
	Cd	114	13.207	0.00	0.0053	0.008	160.829	ug/L
>	In	115	403855.125	403855.12				ug/L
	Sn	118	252.137	0.00	0.0403	0.002	5.778	ug/L
	Sb	123	295.501	0.00	0.0924	0.006	6.597	ug/L
	Ba	135	35739.458	0.07	19.2322	0.224	1.164	ug/L
	Ce	140	926.802	0.00				ug/L
>	Tb	159	542202.980	542202.98				ug/L
	Ho	165	26.669	0.00				ug/L
	Tl	203	43.001	0.00	0.0021	0.001	62.128	ug/L
	Tl	205	63.340	0.00	-0.0028	0.001	45.966	ug/L
	Pb	206	665.695	0.00	0.0320	0.004	11.555	ug/L
	Pb	207	547.354	0.00	0.0297	0.002	5.687	ug/L
	Pb	208	2593.492	0.00	0.0296	0.002	8.076	ug/L
	U	238	8526.052	0.02	0.2076	0.002	1.077	ug/L
>	Bi	209	496458.745	496458.74				ug/L

Sample ID: L1101012902DP WG353345-09
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Na	23	37362920.156	101.01	5.6210	0.206	3.662	mg/L
Mg	24	21998909.816	59.51	5.0270	0.179	3.552	mg/L
K	39	14301953.485	37.16	1.3009	0.085	6.501	mg/L
Ca	43	751541.160	2.03	29.1798	1.127	3.861	mg/L
Fe	54	161066.267	0.21	0.0931	0.015	16.535	mg/L
Fe	57	47688.283	0.10	0.0958	0.010	10.128	mg/L
Sc-1	45	370101.818	370101.82				mg/L
Cl	35	268885.025	251416.43				mg/L
Kr	83	43.001	-29.67				mg/L
Br	81	23615.186	11346.33				mg/L
P	31	33577.727	20522.50				mg/L
S	34	733359.855	536655.69				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		95.856			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		90.111			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		94.603			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		98.741			
Na	23					

Sample ID: L1101012902DP WG353345-09
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101012902DP WG353345-09
Report Date/Time: Friday, January 07, 2011 16:16:03
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Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 07, 2011 16:20:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	32302.156	0.01				ug/L
	Be	9	20010.669	0.06	49.5661	1.976	3.986	ug/L
	Al	27	392423.991	1.13	51.6416	2.404	4.656	ug/L
>	Sc	45	344744.935	344744.94				ug/L
	Ti	49	80991.489	0.14	102.8256	0.388	0.377	ug/L
	V	51	671648.485	1.13	51.8720	1.315	2.536	ug/L
	Cr	52	571887.045	0.94	51.6322	1.000	1.937	ug/L
	Cr	53	66238.661	0.11	52.0052	1.073	2.062	ug/L
	Mn	55	884902.500	1.49	51.7688	1.015	1.960	ug/L
	Co	59	716911.786	1.21	52.9028	0.227	0.429	ug/L
	Ni	60	150543.405	0.25	52.6542	0.849	1.613	ug/L
	Cu	65	150860.087	0.25	51.5637	0.269	0.521	ug/L
	Zn	66	85960.140	0.14	51.6764	0.379	0.734	ug/L
>	Ge	72	593168.524	593168.52				ug/L
	As	75	69182.458	0.12	48.3137	0.372	0.770	ug/L
	Se	77	5484.837	0.01	49.5115	0.909	1.835	ug/L
	Se	82	6626.815	0.01	48.5627	0.685	1.411	ug/L
	Rb	85	2740.736	0.00				mg/L
	Y	89	375159.002	-42718.01				ug/L
	Rh	103	31.334	16.33				ug/L
	Mo	98	298523.713	0.72	94.6587	1.806	1.908	ug/L
	Ag	107	283567.832	0.68	48.1022	0.755	1.569	ug/L
	Cd	114	66383.238	0.16	49.8008	0.343	0.689	ug/L
>	In	115	415197.550	415197.55				ug/L
	Sn	118	234089.942	0.56	50.0419	0.533	1.065	ug/L
	Sb	123	207972.373	0.50	51.2377	0.426	0.831	ug/L
	Ba	135	94468.743	0.17	50.0616	0.238	0.475	ug/L
	Ce	140	66.674	0.00				ug/L
>	Tb	159	551104.497	551104.50				ug/L
	Ho	165	10.001	-0.00				ug/L
	Tl	203	409249.928	0.81	49.9267	0.691	1.385	ug/L
	Tl	205	995037.183	1.96	50.0387	0.640	1.279	ug/L
	Pb	206	330047.079	0.65	50.5716	0.491	0.971	ug/L
	Pb	207	307526.341	0.60	50.4219	0.980	1.944	ug/L
	Pb	208	1370828.603	2.69	50.4837	0.584	1.157	ug/L
	U	238	2004168.061	3.94	52.7953	1.396	2.644	ug/L
>	Bi	209	508238.336	508238.34				ug/L

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Na	23	34660502.728	100.60	5.5982	0.494	8.821	mg/L
Mg	24	22587049.043	65.59	5.5414	0.386	6.967	mg/L
K	39	53293714.107	153.05	5.3734	0.049	0.903	mg/L
Ca	43	125017.298	0.36	5.1908	0.142	2.728	mg/L
Fe	54	4283756.898	12.22	5.0996	0.291	5.701	mg/L
Fe	57	1809366.358	5.22	5.1901	0.066	1.267	mg/L
Sc-1	45	344744.935	344744.94				mg/L
Cl	35	19232.486	1763.89				mg/L
Kr	83	55.667	-17.00				mg/L
Br	81	13788.168	1519.31				mg/L
P	31	15640.889	2585.66				mg/L
S	34	227668.723	30964.56				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	103.744				
Cr	52	103.264				
Cr	53					
Mn	55	103.538				
Co	59	105.806				
Ni	60	105.308				
Cu	65	103.127				
Zn	66	103.353				
Ge	72		99.632			
As	75	96.627				
Se	77					
Se	82	97.125				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	96.204				
Cd	114	99.602				
In	115		92.641			
Sn	118					
Sb	123	102.475				
Ba	135	100.123				
Ce	140					
Tb	159		96.156			
Ho	165					
Tl	203	99.853				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.967				
U	238	105.591				
Bi	209		101.084			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, January 07, 2011 16:22:50
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, January 07, 2011 16:22:50
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 07, 2011 16:27:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	32803.856	0.01				ug/L
	Be	9	4.667	-0.00	-0.0473	0.008	16.521	ug/L
	Al	27	2717.038	-0.00	0.0204	0.041	201.983	ug/L
>	Sc	45	348884.993	348884.99				ug/L
	Ti	49	53.339	0.00	-0.1011	0.015	14.597	ug/L
	V	51	3867.815	0.00	-0.0152	0.011	72.729	ug/L
	Cr	52	12193.552	-0.00	-0.0244	0.022	88.541	ug/L
	Cr	53	280.032	-0.00	0.0362	0.016	43.051	ug/L
	Mn	55	428.680	0.00	-0.0142	0.001	5.154	ug/L
	Co	59	96.668	0.00	-0.0215	0.000	1.648	ug/L
	Ni	60	31.667	-0.00	-0.0144	0.001	10.037	ug/L
	Cu	65	217.338	0.00	-0.0244	0.011	45.221	ug/L
	Zn	66	367.010	-0.00	-0.1238	0.013	10.697	ug/L
>	Ge	72	583985.204	583985.20				ug/L
	As	75	-189.331	0.00	0.0305	0.043	142.428	ug/L
	Se	77	94.667	0.00	-0.0756	0.177	234.578	ug/L
	Se	82	12.861	0.00	-0.0050	0.164	3304.255	ug/L
	Rb	85	17.334	-0.00				mg/L
	Y	89	376217.785	-41659.23				ug/L
	Rh	103	6.333	-8.67				ug/L
	Mo	98	160.131	0.00	0.0593	0.010	16.829	ug/L
	Ag	107	31.667	0.00	-0.0026	0.001	38.978	ug/L
	Cd	114	9.328	-0.00	0.0021	0.003	151.052	ug/L
>	In	115	415552.036	415552.04				ug/L
	Sn	118	406.408	0.00	0.0716	0.006	7.721	ug/L
	Sb	123	362.171	0.00	0.1068	0.001	1.015	ug/L
	Ba	135	12.667	-0.00	-0.0206	0.001	3.888	ug/L
	Ce	140	23.336	0.00				ug/L
>	Tb	159	551481.612	551481.61				ug/L
	Ho	165	16.668	-0.00				ug/L
	Tl	203	18.000	0.00	-0.0011	0.001	46.926	ug/L
	Tl	205	36.670	0.00	-0.0043	0.001	29.823	ug/L
	Pb	206	437.014	0.00	-0.0062	0.003	50.671	ug/L
	Pb	207	378.678	0.00	-0.0007	0.004	497.402	ug/L
	Pb	208	1721.075	0.00	-0.0055	0.001	24.109	ug/L
	U	238	93.668	0.00	-0.0200	0.001	3.616	ug/L
>	Bi	209	513338.597	513338.60				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 16:29:54
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⌈	Na	23	45873.104	0.07	-0.0032	0.000	8.637	mg/L
|	Mg	24	610.080	0.00	-0.0065	0.000	0.220	mg/L
|	K	39	531521.030	-0.04	-0.0061	0.002	32.999	mg/L
|	Ca	43	253.362	-0.00	-0.0029	0.001	33.083	mg/L
|	Fe	54	69274.400	-0.02	-0.0060	0.003	56.738	mg/L
|	Fe	57	9805.787	-0.00	-0.0047	0.000	10.361	mg/L
⌊>	Sc-1	45	348884.993	348884.99				mg/L
	Cl	35	18879.140	1410.55				mg/L
	Kr	83	54.334	-18.33				mg/L
	Br	81	13790.176	1521.32				mg/L
	P	31	17516.090	4460.86				mg/L
	S	34	246613.406	49909.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.089			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.721			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.222			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.098			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 16:29:54
Page 2

Approved: January 11, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, January 07, 2011 16:29:54
Page 3

Approved: January 11, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 07, 2011 16:34:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31248.755	-0.00				ug/L
	Be	9	5.333	0.00	-0.0463	0.003	5.768	ug/L
	Al	27	2767.060	-0.00	0.0100	0.062	619.996	ug/L
>	Sc	45	364406.050	364406.05				ug/L
	Ti	49	80.008	0.00	-0.0692	0.022	31.997	ug/L
	V	51	8815.875	0.01	0.3578	0.003	0.955	ug/L
	Cr	52	21159.242	0.01	0.7665	0.021	2.676	ug/L
	Cr	53	1286.879	0.00	0.8155	0.120	14.713	ug/L
	Mn	55	9320.435	0.01	0.5006	0.008	1.664	ug/L
	Co	59	5763.386	0.01	0.3927	0.017	4.249	ug/L
	Ni	60	4941.270	0.01	1.6867	0.025	1.466	ug/L
	Cu	65	2581.026	0.00	0.7752	0.014	1.757	ug/L
	Zn	66	10727.525	0.02	6.0811	0.076	1.249	ug/L
>	Ge	72	598932.514	598932.51				ug/L
	As	75	287.850	0.00	0.3625	0.025	6.794	ug/L
	Se	77	135.334	0.00	0.2720	0.146	53.802	ug/L
	Se	82	56.839	0.00	0.3114	0.101	32.445	ug/L
	Rb	85	24.334	-0.00				mg/L
	Y	89	381983.212	-35893.80				ug/L
	Rh	103	4.000	-11.00				ug/L
	Mo	98	58.160	0.00	0.0266	0.001	2.130	ug/L
	Ag	107	2329.295	0.01	0.3771	0.009	2.448	ug/L
	Cd	114	284.285	0.00	0.2029	0.025	12.349	ug/L
>	In	115	426170.868	426170.87				ug/L
	Sn	118	200.135	0.00	0.0265	0.002	9.269	ug/L
	Sb	123	1708.991	0.00	0.4277	0.015	3.467	ug/L
	Ba	135	1439.118	0.00	0.7253	0.009	1.213	ug/L
	Ce	140	6.667	-0.00				ug/L
>	Tb	159	558696.535	558696.53				ug/L
	Ho	165	13.335	-0.00				ug/L
	Tl	203	674.029	0.00	0.0767	0.005	6.429	ug/L
	Tl	205	1857.025	0.00	0.0847	0.004	5.305	ug/L
	Pb	206	3071.169	0.01	0.3853	0.012	3.136	ug/L
	Pb	207	2813.424	0.00	0.3864	0.012	3.163	ug/L
	Pb	208	12605.919	0.02	0.3832	0.007	1.763	ug/L
	U	238	16805.611	0.03	0.4078	0.004	1.020	ug/L
>	Bi	209	523232.146	523232.15				ug/L

Sample ID: QC Std 8
Report Date/Time: Friday, January 07, 2011 16:36:44
Page 1

Approved: January 11, 2011

Na	23	47262.868	0.07	-0.0033	0.000	5.918	mg/L
Mg	24	626.749	0.00	-0.0065	0.000	0.015	mg/L
K	39	526541.455	-0.12	-0.0089	0.001	14.150	mg/L
Ca	43	236.693	-0.00	-0.0040	0.001	29.932	mg/L
Fe	54	69182.407	-0.03	-0.0097	0.003	30.777	mg/L
Fe	57	9588.914	-0.00	-0.0065	0.003	46.412	mg/L
Sc-1	45	364406.050	364406.05				mg/L
Cl	35	17917.375	448.78				mg/L
Kr	83	57.001	-15.67				mg/L
Br	81	13475.073	1206.21				mg/L
P	31	16368.170	3312.94				mg/L
S	34	237040.022	40335.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	89.447				
Cr	52	95.817				
Cr	53					
Mn	55	100.129				
Co	59	98.184				
Ni	60	105.419				
Cu	65	96.894				
Zn	66	97.298				
Ge	72		100.600			
As	75	90.621				
Se	77					
Se	82	77.850				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	94.268				
Cd	114	101.437				
In	115		95.090			
Sn	118					
Sb	123	106.920				
Ba	135	96.712				
Ce	140					
Tb	159		97.481			
Ho	165					
Tl	203	95.829				
Tl	205					
Pb	206					
Pb	207					
Pb	208	95.804				
U	238	101.938				
Bi	209		104.066			
Na	23					

Sample ID: QC Std 8
Report Date/Time: Friday, January 07, 2011 16:36:44
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Approved: January 11, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Friday, January 07, 2011 16:36:44
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Approved: January 11, 2011

2.3.3 Metals CVAA Data (Mercury)

2.3.3.1 Summary Data

Login Number: L11010116

Department: Metals - AA

Analyst: Pierce Morris

METHOD

Preparation: SW-846 7471(solid)/SW-846 7470(water)

Analysis: SW-846 7471(solid)/SW-846 7470(water)

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 19584
Approved By: Sheri Pfalzgraf
Sheri L. Pfalzgraf

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	7470A	1	06-JAN-11

Microbac Laboratories Inc.

Report Number: **L11010116**

Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353654**
Collect Date: **01/05/2011 08:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **01/07/2011 14:45**
Cal Date: **01/14/2011 13:56**
Run Date: **01/14/2011 14:19**
File ID: **HY.011411.141930**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

2.3.3.2 QC Summary

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG353412
Analyst: REK
Spike Analyst: REK
Method: 7470A
Run Date: 01/07/2011 14:45
Hotblock Start Temp: 95.8 @ 11:55
Hotblock End Temp: 95.6 @ 13:55

SOP: ME404 Revison 12
Spike Solution: STD43344
Spike Witness: VC
H2SO4 Lot #: COA14202
HNO3 Lot #: COA15089
Digestion Tubes Lot #: COA15103
K2S2O8 1:1 Lot #: RGT15459
KMnO4 1:1 Lot #: RGT15577
Mercury Water ICV Lot #: STD43346
HG H2O STDS 10PPM Lot #: STD43352

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG353412-02	BLANK	1	40 mL	40 mL		
2	WG353334-01	FBLK	18	40 mL	40 mL		
3	WG353412-03	LCS	1	40 mL	40 mL	4 mL	
4	L11010032-01	SAMP	1	40 mL	40 mL		01/18/11
5	L11010032-02	SAMP	1	40 mL	40 mL		01/18/11
6	L11010108-01	SAMP	1	40 mL	40 mL		01/11/11
7	L11010108-03	SAMP	18	40 mL	40 mL		01/11/11
8	L11010109-02	SAMP	18	40 mL	40 mL		01/11/11
9	L11010109-04	SAMP	18	40 mL	40 mL		01/11/11
10	L11010109-06	SAMP	18	40 mL	40 mL		01/11/11
11	WG353412-01	REF	18	40 mL	40 mL		
12	L11010109-08	RS02	18	40 mL	40 mL		01/11/11
13	WG353412-04	MS	18	36 mL	40 mL	4 mL	
14	L11010109-10	MS02	18	36 mL	40 mL	4 mL	01/11/11
15	WG353412-05	MSD	18	36 mL	40 mL	4 mL	
16	L11010109-12	SD02	18	36 mL	40 mL	4 mL	01/11/11
17	L11010116-01	SAMP	1	40 mL	40 mL		01/17/11

Analyst: [signature]

Reviewer: Brenda Gregory

HB_DIG - Modified 09/30/2009
PDF ID: 1887520
Report generated: 01/07/2011 14:45

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA
Dataset: 011411E.PRN
Analyst1: PDM
Analyst2: N/A
Method: 7470
SOP: ME404
Rev: 13
Maintenance Log ID: 36123

Calibration Std: STD43352
ICV Std: STD43346
Post Spike: STD43352
ICSA: N/A
ICSAB: N/A
Int. Std:
CCV:
LLCCV:

353654
Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.011411.134702	WG354238-01	Calibration Point		1		01/14/11 13:47
2	HY.011411.134846	WG354238-02	Calibration Point		1		01/14/11 13:48
3	HY.011411.135053	WG354238-03	Calibration Point		1		01/14/11 13:50
4	HY.011411.135236	WG354238-04	Calibration Point		1		01/14/11 13:52
5	HY.011411.135438	WG354238-05	Calibration Point		1		01/14/11 13:54
6	HY.011411.135631	WG354238-06	Calibration Point		1		01/14/11 13:56
7	HY.011411.135851	WG354238-07	Initial Calibration Verification		1		01/14/11 13:58
8	HY.011411.140054	WG354238-08	Initial Calib Blank		1		01/14/11 14:00
9	HY.011411.140250	WG354238-09	CCV		1		01/14/11 14:02
10	HY.011411.140453	WG354238-10	CCB		1		01/14/11 14:04
11	HY.011411.140940	WG353412-02	Method/Prep Blank	40/40	1		01/14/11 14:09
12	HY.011411.141121	WG353412-03	Laboratory Control S		1		01/14/11 14:11
13	HY.011411.141324	WG353412-01	Reference Sample		1	L11010109-08	01/14/11 14:13
14	HY.011411.141511	WG353412-04	Matrix Spike	36/40	1	L11010109-08	01/14/11 14:15
15	HY.011411.141658	WG353412-05	Matrix Spike Duplica	36/40	1	L11010109-08	01/14/11 14:16
16	HY.011411.141930	L11010116-01	HTA-IDW-001-0111	40/40	1		01/14/11 14:19
17	HY.011411.142117	WG353654-03	Post Digestion Spike		1	L11010116-01	01/14/11 14:21
18	HY.011411.142321	WG354238-11	CCV		1		01/14/11 14:23
19	HY.011411.142508	WG354238-12	CCB		1		01/14/11 14:25
20	HY.011411.142653	WG353412-03	Laboratory Control S	40/40	1		01/14/11 14:26
21	HY.011411.143325	WG353412-03	Laboratory Control S		1		01/14/11 14:33
22	HY.011411.143516	WG354238-13	CCV		1		01/14/11 14:35
23	HY.011411.143710	WG354238-14	CCB		1		01/14/11 14:37

Comments

Seq.	Rerun	Dil.	Reason	Analytes
12			LCS not loaded; reanalyzed.	
20				
21			Reran LCS to verify.	

Page: 1 Approved: January 18, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 14-JAN-2011
Analyst: PDM
Analyst: NA
Method: 7470
Instrument: HYDRA
Curve Workgroup: 354238
Runlog ID: 38592
Analytical Workgroups: 353654

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0116
Client Forms	X
Level X	
Level 3	
Level 4	0116
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	SLP
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
18-JAN-2011

Secondary Reviewer:
18-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-18-2011 18:50:51

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7470A

AAB#: WG353654

Login Number: L11010116

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
HTA-IDW-001-0111	01	01/05/11					01/07/11	2.3	28		01/14/11	9.2	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1895897
Report generated 01/18/2011 10:52

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11010116
Blank File ID: HY.011411.140940
Prep Date: 01/07/11 14:45
Analyzed Date: 01/14/11 14:09
Analyst: PDM

Work Group: WG353654
Blank Sample ID: WG353412-02
Instrument ID: HYDRA
Method: 7470A

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG353412-03	HY.011111.133254	01/11/11 13:32	01
HTA-IDW-001-0111	L11010116-01	HY.011411.141930	01/14/11 14:19	01
LCS	WG353412-03	HY.011411.142653	01/14/11 14:26	02

Report Name: BLANK_SUMMARY
PDF File ID: 1895901
Report generated 01/18/2011 18:47

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11010116 Prep Date: 01/07/11 14:45 Sample ID: WG353412-02
Instrument ID: HYDRA Run Date: 01/14/11 14:09 Prep Method: 7470A
File ID: HY.011411.140940 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG353654 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-14-JAN-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name: BLANK
PDF ID: 1895903
18-JAN-2011 10:52

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11010116 Run Date: 01/14/2011 Sample ID: WG353412-03
Instrument ID: HYDRA Run Time: 14:26 Prep Method: 7470A
File ID: HY.011411.142653 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG353654 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD43344 Cal ID: HYDRA-14-JAN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00462	116	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1895904
Report generated: 01/18/2011 18:46

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L11010116 Cal ID: HYDRA- Worknum: WG353654
Instrument ID: HYDRA Contract #: Method: 7470A
Parent ID: WG353412-01 File ID: HY.011411.141324 Dil: 1 Matrix: WATER
Sample ID: WG353412-04 MS File ID: HY.011411.141511 Dil: 1 Units: mg/L
Sample ID: WG353412-05 MSD File ID: HY.011411.141658 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.00444	0.00484	109	0.00444	0.00464	105	4.22	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID: 1895905
Report generated 01/18/2011 10:52

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11010116 **Worknum:** WG353654
Instrument ID: HYDRA **Method:** 7470A
Post Spike ID: WG353654-03 **File ID:** HY.011411.142117 **Dil:** 1 **Units:** ug/L
Sample ID: L11010116-01 **File ID:** HY.011411.141930 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	0.911		0	U	1	91.1	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1895896
Report generated: 01/18/2011 10:52

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 7470A
ICAL Worknum: WG354238

Workgroup (AAB#): WG353654
Instrument ID: HYDRA
Initial Calibration Date: 01/14/2011 13:56

Analyte	WG354238-01		WG354238-02		WG354238-03		WG354238-04		WG354238-05		WG354238-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	141	0.200	732	1.00	3302	2.00	6416	5.00	15922	10.0	31893

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1895906
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11010116
Analytical Method: 7470A
ICAL Worknum: WG354238

Workgroup (AAB#): WG353654
Instrument ID: HYDRA
Initial Calibration Date: 01/14/2011 13:56

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1895906
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-08
Instrument ID: HYDRA
Run Time: 14:00
Method: 7470A
File ID: HY.011411.140054
Analyst: PDM
Units: ug/L
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1895912
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-10
Instrument ID: HYDRA
Run Time: 14:04
Method: 7470A
File ID: HY.011411.140453
Analyst: PDM
Units: ug/L
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1895914
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-12
Instrument ID: HYDRA
Run Time: 14:25
Method: 7470A
File ID: HY.011411.142508
Analyst: PDM
Units: ug/L
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1895914
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-14
Instrument ID: HYDRA
Run Time: 14:37
Method: 7470A
File ID: HY.011411.143710
Analyst: PDM
Units: ug/L
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER
QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1895914
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11010116 Run Date: 01/14/2011 Sample ID: WG354238-07
Instrument ID: HYDRA Run Time: 13:58 Method: 7470A
File ID: HY.011411.135851 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG353654 Cal ID: HYDRA - 14-JAN-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.06	103	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1895911
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-09
Instrument ID: HYDRA
Run Time: 14:02
Method: 7470A
File ID: HY.011411.140250
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00208	mg/L	104	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1895913
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11010116
Instrument ID: HYDRA
File ID: HY.011411.142321
Workgroup (AAB#): WG353654
Matrix: WATER

Run Date: 01/14/2011
Run Time: 14:23
Analyst: PDM
Cal ID: HYDRA - 14-JAN-11

Sample ID: WG354238-11
Method: 7470A
QC Key: DOD4

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00203	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1895913
Report generated 01/18/2011 10:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

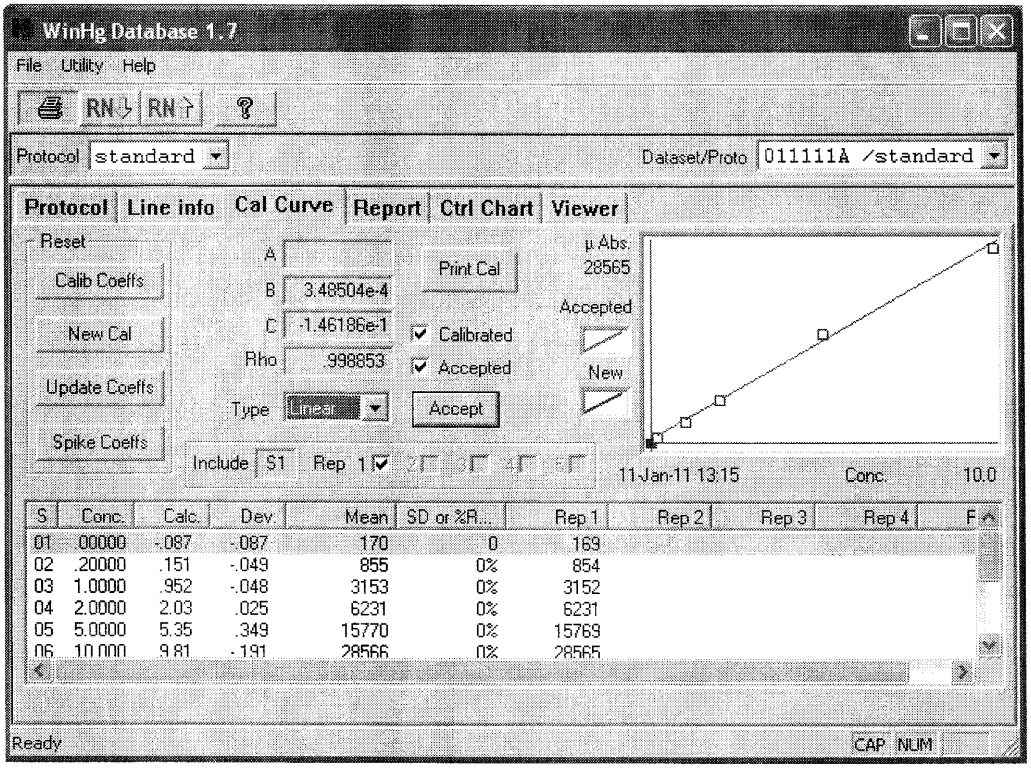
Login Number: L11010116
Run Date: 01/14/2011
Sample ID: WG354238-13
Instrument ID: HYDRA
Run Time: 14:35
Method: 7470A
File ID: HY.011411.143516
Analyst: PDM
QC Key: DOD4
Workgroup (AAB#): WG353654
Cal ID: HYDRA - 14-JAN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00198	mg/L	99.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1895913
Report generated 01/18/2011 10:53

2.3.3.3 Raw Data



Approved: January 11, 2011

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       13:06:12 11 Jan 11   HG

Hg    .000    ppb      169

*** Standard: 2 Rep: 1              Seq:  2       13:07:56 11 Jan 11   HG

Hg    .200    ppb      854

*** Standard: 3 Rep: 1              Seq:  3       13:09:38 11 Jan 11   HG

Hg    1.00    ppb      3152

*** Standard: 4 Rep: 1              Seq:  4       13:11:43 11 Jan 11   HG

Hg    2.00    ppb      6231

*** Standard: 5 Rep: 1              Seq:  5       13:13:26 11 Jan 11   HG

Hg    5.00    ppb      15769

*** Standard: 6 Rep: 1              Seq:  6       13:15:44 11 Jan 11   HG

Hg    10.0    ppb      28565

*** Check Standard: 2  Ck2ICV       Seq:  7       13:17:27 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.7     1.91    2.00   ppb        .000

*** Check Standard: 3  Ck3ICB       Seq:  8       13:19:20 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -71.2    -.142    .200   ppb        .000

*** Check Standard: 4  Ck4CCV       Seq:  9       13:21:02 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     2.16    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  10      13:22:43 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -71.9    -.144    .200   ppb        .000

*** Sample ID: WG35341202            Seq:  11      13:29:24 11 Jan 11   HG
                            PBW 11
Hg   -.093    ppb       .000     -.093

*** Sample ID: WG35333401            Seq:  12      13:31:08 11 Jan 11   HG
                            FBLK
Hg   -.110    ppb       .000     -.110
```

Approved: January 11, 2011

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: WG35341203           Seq:  13     13:32:54 11 Jan 11   HG
                           LCSW 11
Hg    4.50    ppb       .000      4.50

*** Sample ID: 1101003201           Seq:  14     13:34:37 11 Jan 11   HG

Hg   -.163    ppb       .000     -.163

*** Sample ID: WG35365401           Seq:  15     13:36:20 11 Jan 11   HG
                           1101003201PS.9
Hg    1.01    ppb       .000      1.01

*** Sample ID: 1101003202           Seq:  16     13:38:12 11 Jan 11   HG

Hg   -.096    ppb       .000     -.096

*** Sample ID: 1101010801           Seq:  17     13:39:54 11 Jan 11   HG

Hg   -.108    ppb       .000     -.108

*** Sample ID: 1101010803           Seq:  18     13:41:38 11 Jan 11   HG

Hg   -.088    ppb       .000     -.088

*** Sample ID: 1101010902           Seq:  19     13:43:22 11 Jan 11   HG

Hg   -.100    ppb       .000     -.100

*** Sample ID: WG35365402           Seq:  20     13:45:06 11 Jan 11   HG
                           1101010902PS.9
Hg    1.03    ppb       .000      1.03

*** Check Standard: 4  Ck4CCV       Seq:  21     13:46:48 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          110.     2.19    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  22     13:49:22 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -61.8    -.124    .200   ppb        .000

*** Sample ID: 1101010904           Seq:  23     13:51:05 11 Jan 11   HG

Hg   -.116    ppb       .000     -.116

*** Sample ID: 1101010906           Seq:  24     13:52:47 11 Jan 11   HG

Hg   -.103    ppb       .000     -.103
```

Approved: January 11, 2011

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: 1101010908            Seq:  25     13:54:35 11 Jan 11   HG
                           WG35341201
Hg   -.098    ppb       .000     -.098

*** Sample ID: 1101010910            Seq:  26     13:56:28 11 Jan 11   HG
                           WG35341204
Hg    3.98    ppb       .000      3.98

*** Sample ID: 1101010912            Seq:  27     13:58:23 11 Jan 11   HG
                           WG35341205
Hg    4.81    ppb       .000      4.81

*** Sample ID: 1101011601            Seq:  28     14:00:06 11 Jan 11   HG

Hg   -.162    ppb       .000     -.162

*** Check Standard: 4  Ck4CCV        Seq:  29      14:02:09 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          110.     2.20    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB        Seq:  30      14:04:07 11 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -56.2    -.112    .200   ppb        .000
```

Approved: January 11, 2011

WinHg Database 1.7

File Utility Help

Protocol standard

Dataset/Proto 011411E /standard

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 3.14878e-4

C -3.17953e-2

Rho .999995

Type Linear

Print Cal

Calibrated

Accepted

Accept

µ Abs. 31893

Accepted

New

Include S1 Rep 1

14-Jan-11 13:57 Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %R	Rep 1	Rep 2	Rep 3	Rep 4	F
01	.00000	.013	.013	142	0	141				
02	.20000	.199	-.001	732	0%	732				
03	1.0000	1.01	.008	3303	0%	3302				
04	2.0000	1.99	-.012	6416	0%	6416				
05	5.0000	4.98	-.018	15923	0%	15922				
06	10.000	10.0	.011	31894	0%	31893				

Ready NUM

Approved: January 18, 2011

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       13:47:02 14 Jan 11   HG

Hg    .000    ppb      141

*** Standard: 2 Rep: 1              Seq:  2       13:48:46 14 Jan 11   HG

Hg    .200    ppb      732

*** Standard: 3 Rep: 1              Seq:  3       13:50:53 14 Jan 11   HG

Hg    1.00    ppb      3302

*** Standard: 4 Rep: 1              Seq:  4       13:52:36 14 Jan 11   HG

Hg    2.00    ppb      6416

*** Standard: 5 Rep: 1              Seq:  5       13:54:38 14 Jan 11   HG

Hg    5.00    ppb      15922

*** Standard: 6 Rep: 1              Seq:  6       13:56:31 14 Jan 11   HG

Hg    10.0    ppb      31893

*** Check Standard: 2  Ck2ICV       Seq:  7       13:58:51 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.06    2.00   ppb        .000

*** Check Standard: 3  Ck3ICB       Seq:  8       14:00:54 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          3.00     .006    .200   ppb        .000

*** Check Standard: 4  Ck4CCV       Seq:  9       14:02:50 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     2.08    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  10      14:04:53 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          1.42     .003    .200   ppb        .000

*** Sample ID: WG35341202            Seq:  11      14:09:40 14 Jan 11   HG
                          PBW 11
Hg    .024    ppb       .000      .024

*** Sample ID: WG35341203            Seq:  12      14:11:21 14 Jan 11   HG
                          LCSW 11
Hg   -.008    ppb       .000     -.008
```

LCS not loaded; reanalyzed.

Approved: January 18, 2011

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: 1101010908            Seq:  13     14:13:24 14 Jan 11   HG
                           WG35341201
Hg   -.006    ppb       .000     -.006

*** Sample ID: WG35341204            Seq:  14     14:15:11 14 Jan 11   HG
                           1101010910S
Hg    4.36    ppb       .000      4.36

*** Sample ID: WG35341205            Seq:  15     14:16:58 14 Jan 11   HG
                           1101010912SD
Hg    4.18    ppb       .000      4.18

*** Sample ID: 1101011601            Seq:  16     14:19:30 14 Jan 11   HG

Hg    .009    ppb       .000      .009

*** Sample ID: WG35365403            Seq:  17     14:21:17 14 Jan 11   HG
                           1101011601PS.9
Hg    .911    ppb       .000      .911

*** Check Standard: 4  Ck4CCV       Seq:  18      14:23:21 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.03    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  19      14:25:08 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -11.0    -.022    .200   ppb        .000

*** Sample ID: WG35341203            Seq:  20     14:26:53 14 Jan 11   HG
                           LCSW 11
Hg    4.62    ppb       .000      4.62

*** Sample ID: WG35341203            Seq:  21     14:33:25 14 Jan 11   HG
                           LCSW 11
Hg    4.52    ppb       .000      4.52

*** Check Standard: 4  Ck4CCV       Seq:  22      14:35:16 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.1     1.98    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  23      14:37:10 14 Jan 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -7.71    -.015    .200   ppb        .000
```

LCS exceeded upper control limit; reanalyzed.

Approved: January 18, 2011

2.4 General Chemistry Data

2.4.1 PH Data

2.4.1.1 Summary Data

Login Number: L11010116

Department: Conventionals

Analyst: Tammy Morris

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 19124
Approved By: Deanna Hesson

LABORATORY REPORT

L11010116

01/19/11 11:07

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
1401 Enclave Parkway
Suite 250
Houston, TX 77077
Attention: Larry Duty

Project Number: 2773.044
Project: White Sands Missile Range
Site: WHITE SANDS MISSILE RANGE

P.O. Number: 620349

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
HTA-IDW-001-0111	L11010116-01	9040C	1	06-JAN-11

Microbac Laboratories Inc.

Report Number: **L11010116**

Report Date : **January 19, 2011**

Sample Number: **L11010116-01**
Client ID: **HTA-IDW-001-0111**
Matrix: **Water**
Workgroup Number: **WG353313**
Collect Date: **01/05/2011 08:30**

PrePrep Method: **NONE**
Prep Method: **9040C**
Analytical Method: **9040C**
Analyst: **TMM**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **01/06/2011 14:40**
Cal Date:
Run Date: **01/06/2011 14:40**
File ID: **OS11010716231001**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	8.03			

2.4.1.2 QC Summary Data

Example pH Calculations
(Direct Readout Parameter)

Readout from instrument = result in S.U.

where:

Readout = direct readout from the instrument

Microbac Laboratories Inc.

Data Checklist

Date: 06-JAN-2011
Analyst: TMM
Analyst: NA
Method: PH
Instrument: ORION4-STAR
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG353313

Calibration/Linearity	1/06/11
Second Source Check	
ICV/CCV (std)	
ICB/CCB	
Blank	
LCS/LCS Dup	
MS/MSD	
Duplicate	X
Upload Results	X
Client Forms	X
QC Violation Sheet	
Case Narratives	
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	TMM
Secondary Reviewer	DIH
Comments	

Primary Reviewer:
07-JAN-2011

Secondary Reviewer:
07-JAN-2011

CHECKLIST1 - Modified 03/05/2008
Generated: JAN-07-2011 16:08:13

2.4.1.3 Raw Data

pH

Sample	Calibration Buffers	A Water Misc. Liquid	B 50% Slurry Of Solid	C 50% Water Org. Liq. Mix
LCS 8 ~~STD 42947~~	7,4,10	5.99		
01-050-01		~~8.92~~ 5.59		
02		8.92		
03		6.54		
04		9.80		
01-112-01		6.95		
1-116-01 4:30		8.03		
01-118-1 4:52		7.57		
01-089-01			10.41	
DUP Dup 1-50-4		9.78		
LCS 9 ~~STD 42945~~	7,4,10	9.00		

B,C) SW846 9045D

A) SM 4500-H(+)-B

A) EPA 150.1

A) SW846 9040C

SOP K1501 Rev 11

Circle Instrument:

Orion 4-Star

~~Orion 710A #1~~

Orion 710A #2

Sargent - Welch

Analyst: Tammy Marino Date: 1/6/11 @ 1440

DCN#85677

Donna Hesson

Approved: January 07, 2011

[redacted]

Kemron#	Client	Due	Me	Sv	Pest	Herb	Voa	PCB	ph-l		Comments
01-00029-01	AES	1/07	✓								NOTE Quick T.A.T.
02			✓								
03			✓								
04			✓						✓		
01-00580-01	SHAW	1/10	✓						✓		
03			✓								
01-00520-01			✓								
FBLK											
ZHE(A) BLK	OVL	ASAP					✓				ZHE Equip BLKS
B							✓				
C							✓				
D							✓				
E							✓				
J							✓				

☑ perform analysis
★ perform analysis and spike sample

Comments:

Date: 01-05-10

Start Time:

Solids: 1500

Filtration:

Work Groups | Run ID's

Filtered:

	WG	R
TC-Me:	WG	R
TC-Sv:	WG	R
TC-Pest:	WG	R
TC-Herb:	WG	R
TC-Voa:	WG	R
TC-Me(org):	WG	R
TC-Sv(org):	WG	R
TC-Voa(org):	WG	R

Agitated:

	WG	R
TC-Me:	WG 353210	R
TC-Sv:	WG	R
TC-Pest:	WG	R
TC-Herb:	WG	R
TC-Voa:	WG	R
pH-L:	WG 353209	R
	WG	R
	WG	R
	WG	R
	WG	R
	WG	R
	WG	R
	WG	R

Approved: January 07, 2011

[redacted]

Microbact	Client	Due	Me	8270	8081	8151	8082	827-pahl	VOA	pH-L	Comments
7-0050-02	SLAW	1/10	✓							✓	
04			✓								
FLSK	—	—	✓								

Date: 01-05-10

Start Time:

Solids: 1500

Filtration:

Work Groups		Run ID's
Agitated:		
Spip-Me:	WG 353201	R
Spip-8270:	WG	R
Spip-Voa:	WG	R
Spip-827-pahl:	WG	R
Spip-8081:	WG	R
Spip-8082:	WG	R
pH-L:	WG 353205	R
	WG	R
	WG	R
	WG	R
	WG	R
	WG	R
	WG	R

☑ perform analysis
★ perform analysis and spike sample

Comments:

Approved: January 07, 2011

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
January 19, 2011

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
ALV - AMY L. VALENTINE	AML - TONY M. LONG	AZH - AFTER HOURS
BLG - BRENDA L. GREENWALT	BRG - BRENDA R. GREGORY	CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS	CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD
CLS - CARA L. STRICKLER	CLW - CHARISSA L. WINTERS	CPD - CHAD P. DAVIS
CSH - CHRIS S. HILL	DDE - DEBRA D. ELLIOTT	DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE	DLR - DIANNA L. RAUCH
ECL - ERIC C. LAWSON	EDA - ERIN D. AGEE	ERP - ERIN R. PORTER
FJB - FRANCES J. BOLDEN	HAV - HEMA VILASAGAR	HJR - HOLLY J. REED
JAL - JOHN A. LENT	JBK - JEREMY B. KINNEY	JDH - JUSTIN D. HESSON
JKT - JANE K. THOMPSON	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATIE E. BARNES	KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON	LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA
MDA - MIKE D. ALBERTSON	MDC - MIKE D. COCHRAN	MES - MARY E. SCHILLING
MMB - MAREN M. BEERY	MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON
PDM - PIERCE D. MORRIS	PWD - PAUL W. DENT	RAH - ROY A. HALSTEAD
RB - BOB BUCHANAN	REK - BOB E. KYER	RLK - ROBIN L. KLINGER
RWC - RODNEY W. CAMPBELL	SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF
TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY	TMM - TAMMY M. MORRIS
VC - VICKI COLLIER	WJB - WILL J. BEASLEY	WTD - WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
January 19, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 22001

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Zia Engineering/SHAW Environmental

Project Contact: Mark Lyons

Contact Phone #: 505-262-8920

Turn Around Requirements:

Location: HTA

Project ID: 2773.044

Sampler (print): Juan Padilla

Signature: Juan Padilla

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	RRA 8	pH	VOC	SVOC	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
HTA-IDW-001-0111		X	1-5-11	0830	WATER	7		X	X	X	X		
HTA-IDW-TB-0111			1-5-11	0830	WATER	2				X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)
Juan Padilla	1-5-11	0830				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)			Remarks:

Microbac OVD
221000011534
Received: 01/06/2011 10:15
By: JANE THOMPSON
Janet Thompson

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

1000011534

COOLER INSPECTION

Received: 01/06/2011 10:15
Delivery Method: FedEx
Opened By: Jane Thompson
Comments:

Login(s): L11010116|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015410	H	2.0	3457500611000004873013170430215 1	22001	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	Yes	Were pH ranges acceptable? (voa's excluded)
11	No	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

11	Sample HTA-IDW-TB-0111 has headspace >6mm.

Look closer. Go further. Do more.

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11010116
Account: 2773
Project: 2773.044
Samples: 2
Due Date: 17-JAN-2011

Samplenum	Container ID	Products
L11010116-01	784455	

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	06-JAN-2011 15:54	JKT	
2	ANALYZ	V1	ORG4	07-JAN-2011 08:50	MRT	RLK

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	06-JAN-2011 15:54	JKT	
2	ANALYZ	V1	ORG4	07-JAN-2011 08:50	MRT	RLK

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	06-JAN-2011 15:54	JKT	
2	ANALYZ	V1	ORG4	07-JAN-2011 08:50	MRT	RLK

Samplenum	Container ID	Products
L11010116-01	784456	827-SPE 826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	06-JAN-2011 15:54	JKT	
2	PREP	W1	EXT	10-JAN-2011 11:04	CSH	RLK
3	DISP	EXT	DISP	10-JAN-2011 12:04	RB	RB
4	ANALYZ*	EXT	SEMI	12-JAN-2011 12:01	CAA	CSH

Sample extract/digestate/leachate

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	06-JAN-2011 15:54	JKT	
2	STORE	W1	A1	14-JAN-2011 08:01	BLG	BLG

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11010116-01	784457	COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	06-JAN-2011 15:54	JKT	
2	ANALYZ	W1	WET	06-JAN-2011 16:56	JDH	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11010116
Account: 2773
Project: 2773.044
Samples: 2
Due Date: 17-JAN-2011

Samplenum	Container ID	Products
L11010116-01	784458	HG BA AG CD CR AS-AX PB-AX SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	06-JAN-2011 15:54	JKT	
2	PREP	W1	DIG	07-JAN-2011 05:06	REK	AZH
3	ANALYZ*	DIG	METALS	07-JAN-2011 08:08	JYH	REK
4	STORE	DIG	A1	07-JAN-2011 14:25	RLK	ERP

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11010116-02	784459	

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	06-JAN-2011 15:54	JKT	
2	ANALYZ	V1	ORG4	07-JAN-2011 08:50	MRT	RLK

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	06-JAN-2011 15:54	JKT	
2	ANALYZ	V1	ORG4	07-JAN-2011 08:50	MRT	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login