UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

US EPA RECORDS CENTER REGION 5

1004605

Date: **4/8/2010**

Subject: **Review of Region 5 Data for BASF Wyandotte, MI Sediments**

From: **Kathleen Swan** KS
Region 5 Chicago Regional Laboratory

To: **RCRA, LCD, US EPA Region 5**
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin APR 0 8 2010 / /

Data Management Coordinator and Date Received

APR 0 8 2010

Date Transmitted: ____/____/_____

Analyses included in this report:

Metals full ICP (S)

4/14/10

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Apr-08-10 14:05

ANALYSIS CASE NARRATIVE
12 353 9071
General Information

All holding times were met. Temperature upon arrival was below 6 degrees C.

Sample Analysis and Results

Sample preparation occurred by using CRL SOP Metals 025, Revision No. 4, EPA sample preparation procedure 200.2, and analysis occurred by using CRL SOP Metals Method 004, Revision No. 6, EPA ICP Method 200.7.

Quality Control

All quality control (QC) audits were within CRL limits, with the following exceptions:

Blanks (Limit ± MDL) A few elements were very slightly outside currently calculated detection limit. This does not affect data quality.

Laboratory Fortified Blank (Limit ± 15%) This audit came out high for several elements, likely due to a new pipet. These elements are flagged K.

Digestion Matrix Duplicate (Limit ± 20%) Sample 0910013-10 is inhomogeneous in copper (36.5%) and lead (25.3%) and is flagged J.

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Apr-14-10 09:01

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

SP1-U16 (0910013-01) Soil Sampled: Oct-08-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**6.83**	J	0.662	27.6	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.73	4.60	"	"	"	"	"
Sulfate as SO4	**3000**	J	9.85	27.6	"	4	"	"	Mar-30-10

T29-25 (0910013-02) Soil Sampled: Oct-13-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**411**	J	3.50	146	mg/kg dry	4	B100332	Mar-17-10	Mar-29-10
Nitrate - NO3	**U**	J, U	2.28	6.07	"	1	"	"	Mar-18-10
Sulfate as SO4	**8.23**	J	3.25	9 10	"	"	"	"	"

T26-50 (0910013-03) Soil Sampled: Oct-14-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**108**	J	0.772	32.2	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**3.39**	J	2.02	5.36	"	"	"	"	"
Sulfate as SO4	**34.3**	J	2.87	8.04	"	"	"	"	"

T25-50 (0910013-04) Soil Sampled: Oct-14-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**55.9**	J, L	0.772	32.2	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**2.20**	J, L	2.02	5.36	"	"	"	"	"
Sulfate as SO4	**34.8**	J	2.87	8.04	"	"	"	"	"

T24-75 (0910013-05) Soil Sampled: Oct-14-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**87.3**	J	0.664	27.6	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.73	4.61	"	"	"	"	"
Sulfate as SO4	**43.3**	J	2.47	6.91	"	"	"	"	"

T17-50 (0910013-06) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed

AA 4-19-10

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Apr-14-10 09:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1-U16	0910013-01	Soil	Oct-08-09 00:00	Oct-16-09 16:28
T29-25	0910013-02	Soil	Oct-13-09 00:00	Oct-16-09 16:28
T26-50	0910013-03	Soil	Oct-14-09 00:00	Oct-16-09 16:28
T25-50	0910013-04	Soil	Oct-14-09 00:00	Oct-16-09 16:28
T24-75	0910013-05	Soil	Oct-14-09 00:00	Oct-16-09 16:28
T17-50	0910013-06	Soil	Oct-15-09 00:00	Oct-16-09 16:28
T30-25	0910013-07	Soil	Oct-15-09 00:00	Oct-16-09 16:28
T20-175	0910013-08	Soil	Oct-15-09 00:00	Oct-16-09 16:28
T22-25	0910013-09	Soil	Oct-15-09 00:00	Oct-16-09 16:28
T23-75	0910013-10	Soil	Oct-15-09 00:00	Oct-16-09 16:28
SP1-U17	0910013-11	Soil	Oct-15-09 00:00	Oct-16-09 16:28
SP1-U04	0910013-12	Soil	Oct-15-09 00:00	Oct-16-09 16:28
SP1-U15	0910013-13	Soil	Oct-15-09 00:00	Oct-16-09 16:28
SP1-U10	0910013-14	Soil	Oct-15-09 00:00	Oct-16-09 16:28

AA 4-14-10

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Apr-14-10 09:01

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T17-50 (0910013-06) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**6.69**	J	0 541	22 5	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.41	3.76	"	"	"	"	"
Sulfate as SO4	**11.5**	J	2.01	5.63	"	"	"	"	"

T30-25 (0910013-07) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**122**	J	0.545	22.7	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.42	3.78	"	"	"	"	"
Sulfate as SO4	**98.7**	J	2.03	5.68	"	"	"	"	"

T20-175 (0910013-08) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**197**	J	2.03	84.4	mg/kg dry	4	B100332	Mar-17-10	Mar-29-10
Nitrate - NO3	**U**	J, U	1.32	3.52	"	1	"	"	Mar-18-10
Sulfate as SO4	**135**	J	1 89	5.28	"	"	"	"	"

T22-25 (0910013-09) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**126**	J	0.546	22.8	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.43	3.79	"	"	"	"	"
Sulfate as SO4	**83.6**	J	2.03	5.69	"	"	"	"	"

T23-75 (0910013-10) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**47.2**	J	0.749	31.2	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.95	5 20	"	"	"	"	"
Sulfate as SO4	**23.5**	J	2.79	7.80	"	"	"	"	"

SP1-U17 (0910013-11) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed

AA 4-14-10

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Apr-14-10 09:01

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

SP1-U17 (0910013-11) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**6.51**	J	0.478	19.9	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.25	3.32	"	"	"	"	"
Sulfate as SO4	**75.2**	J	1.78	4.98	"	"	"	"	"

SP1-U04 (0910013-12) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**18.5**	J	0.600	25.0	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**570**	J	1.57	4.16	"	"	"	"	"
Sulfate as SO4	**1610**	J	8.93	25.0	"	4	"	"	Mar-30-10

SP1-U15 (0910013-13) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**10.4**	J	0.592	24.7	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**U**	J, U	1.54	4.11	"	"	"	"	"
Sulfate as SO4	**14.7**	J	2.20	6.16	"	"	"	"	"

SP1-U10 (0910013-14) Soil Sampled: Oct-15-09 00:00 Received: Oct-16-09 16:28

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**3.99**	J	0.434	18.1	mg/kg dry	1	B100332	Mar-17-10	Mar-18-10
Nitrate - NO3	**86.2**	J	1.13	3.01	"	"	"	"	"
Sulfate as SO4	**506**	J	1.61	4.52	"	"	"	"	"

AA 4-14-10
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Apr-14-10 09:01

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

AA 4-14-10

Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			Error in Query(59).
			3127 - The INSERT INTO statement contains the following unknown field name 'AssignedAnalyst' Make VERSION 6 01.4034
	Anions by IC	(Soil)	J-Flags used
	Anions by IC	(Soil)	Result calculations based on MDL
	Anions by IC	(Soil)	U-Flags used
	Anions by IC	(Water)	J-Flags used
	Anions by IC	(Water)	Result calculations based on MDL
	Anions by IC	(Water)	Special Units (mg/L)
	Anions by IC	(Water)	U-Flags used
0910013-01	Anions by IC		Missing Bromide
0910013-01	Anions by IC		Missing Orthophosphate as PO4
0910013-01	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-01	Anions by IC		Sampled->Analyzed > 28.00 days
0910013-02	Anions by IC		Missing Bromide
0910013-02	Anions by IC		Missing Orthophosphate as PO4
0910013-02	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-02	Anions by IC		Sampled->Analyzed > 28.00 days
0910013-03	Anions by IC		Missing Bromide
0910013-03	Anions by IC		Missing Orthophosphate as PO4
0910013-03	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-04	Anions by IC		Missing Bromide
0910013-04	Anions by IC		Missing Orthophosphate as PO4
0910013-04	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-04	Anions by IC	Chloride	L The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value.
0910013-04	Anions by IC	Nitrate - NO3	L. The identification of the analyte is acceptable, the reported value may be biased low The actual value is expected to be greater than the reported value
0910013-05	Anions by IC		Missing Bromide
0910013-05	Anions by IC		Missing Orthophosphate as PO4
0910013-05	Anions by IC		Sampled->Analyzed > 28.00 days
0910013-06	Anions by IC		Missing Bromide
0910013-06	Anions by IC		Missing Orthophosphate as PO4
0910013-06	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-07	Anions by IC		Missing Bromide
0910013-07	Anions by IC		Missing Orthophosphate as PO4
0910013-07	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-08	Anions by IC		Missing Bromide
0910013-08	Anions by IC		Missing Orthophosphate as PO4
0910013-08	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-08	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-09	Anions by IC		Missing Bromide
0910013-09	Anions by IC		Missing Orthophosphate as PO4
0910013-09	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-10	Anions by IC		Missing Bromide
0910013-10	Anions by IC		Missing Orthophosphate as PO4
0910013-10	Anions by IC		Sampled->Analyzed > 28.00 days

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
0910013-11	Anions by IC		Missing Bromide
0910013-11	Anions by IC		Missing Orthophosphate as PO4
0910013-11	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-12	Anions by IC		Missing Bromide
0910013-12	Anions by IC		Missing Orthophosphate as PO4
0910013-12	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-12	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-13	Anions by IC		Missing Bromide
0910013-13	Anions by IC		Missing Orthophosphate as PO4
0910013-13	Anions by IC		Sampled->Analyzed > 28 00 days
0910013-14	Anions by IC		Missing Bromide
0910013-14	Anions by IC		Missing Orthophosphate as PO4
0910013-14	Anions by IC		Sampled->Analyzed > 28 00 days

Sample, Log and Extraction Comments

0910013-04
Anions by IC

MS/MSD

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 4/14/2010 8:51:03AM**

0910013

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Dec-03-09 15:00 (45 day TAT)
Received By: Marilyn Jupp Date Received: Oct-16-09 16:28
Logged In By: Marilyn Jupp Date Logged In: Oct-16-09 16:28

Samples Received at	0°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0910013-01 SP1-U16 [Soil] Sampled Oct-08-09 00:00 Central				
Metals full ICP (S)	May-01-10 12:00	45	Apr-06-10 00:00	
Anions by IC	May-01-10 12:00	45	Nov-05-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-05-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-15-09 00:00	
0910013-02 T29-25 [Soil] Sampled Oct-13-09 00:00 Central				
Anions by IC	May-01-10 12:00	45	Nov-10-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-11-10 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-20-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-10-09 00:00	
0910013-03 T26-50 [Soil] Sampled Oct-14-09 00:00 Central				
Metals full ICP (S)	May-01-10 12:00	45	Apr-12-10 00:00	
Anions by IC	May-01-10 12:00	45	Nov-11-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-11-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-21-09 00:00	

WORK ORDER

Printed: 4/14/2010 8:51:03AM

0910013

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments

Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0910013-04 T25-50 [Soil] Sampled Oct-14-09 00:00 Central				**MS/MSD**
Anions by IC	May-01-10 12:00	45	Nov-11-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-12-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-11-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-21-09 00:00	
0910013-05 T24-75 [Soil] Sampled Oct-14-09 00:00 Central				
Anions by IC	May-01-10 12:00	45	Nov-11-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-12-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-11-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-21-09 00:00	
0910013-06 T17-50 [Soil] Sampled Oct-15-09 00:00 Central				
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
0910013-07 T30-25 [Soil] Sampled Oct-15-09 00:00 Central				
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
0910013-08 T20-175 [Soil] Sampled Oct-15-09 00:00 Central				
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
0910013-09 T22-25 [Soil] Sampled Oct-15-09 00:00 Central				
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	

WORK ORDER

Printed: 4/14/2010 8:51:03AM

0910013

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0910013-10 T23-75 [Soil] Sampled Oct-15-09 00:00 Central				
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
0910013-11 SP1-U17 [Soil] Sampled Oct-15-09 00:00 Central				
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
0910013-12 SP1-U04 [Soil] Sampled Oct-15-09 00:00 Central				
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
0910013-13 SP1-U15 [Soil] Sampled Oct-15-09 00:00 Central				
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	
0910013-14 SP1-U10 [Soil] Sampled Oct-15-09 00:00 Central				
Total % Dry Solids 105C	Dec-03-09 12:00	45	Oct-22-09 00:00	
Metals full ICP (S)	May-01-10 12:00	45	Apr-13-10 00:00	
Anions by IC	May-01-10 12:00	45	Nov-12-09 00:00	
Ammonia N DA	Dec-03-09 12:00	45	Nov-12-09 00:00	

Reviewed By

Date

ıvironmental Protection Agency Region 5
:ago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 3/17/2010

Date: 3-17-10
Analyst (initials): P
Extraction Solution: De-ionized water

.ıNIONS IN SOIL AND SEDIMENT SAMPLES BY AQUEOUS EXTRACTION

Batch Number: B100332

Analyses Included On This Benchsheet

Anions by IC

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	0910013-01					10.0170	50	SO_4^{2-} dilution - 6.25/25mL
	0910013-02					10.0481		Cl^- dilution - 6.25mL/25mL
	0910013-03					10.0289		
	0910013-04					10.1176		
	0910013-05					10.0655		
	0910013-06					10.1613		
	0910013-07					10.0268		
	0910013-08					10.1539		Cl^- dilution - 6.25mL/25mL
	0910013-09					10.0477		
	0910013-10					10.1890		
	0910013-11					10.2164		
	0910013-12					10.1235		

Comments:

ts:

Environmental Pr
Chicago Regional L
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

PREPARATION LOG FOR ANIONS IN SOIL AND SEDIMENT SAMPLES BY

Date: 3-17-10
Analyst (initials): AA
Extraction Solution: **De-ionized water**

Ba
Analyses Inclu
Date: 3/17/2010

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	0910013-13					10.0413	50	
	0910013-14					10.2835		
	B100332-BLK1					—		NO SAND
	B100332-BS1		Pre-Prep	9061222	3750	—		NO SAND
	B100332-DUP1	0910013-04				10.8561		
	B100332-MS1	0910013-04	Pre-Prep	9061222	3750	~~10.16~~ AA 3/17/10 10.1593		

Batch Comments:

nts:

Batch Comments:

Comments:

Analyst: Anna Aleszczyk
Date Completed: 3/19/2010
CRL SOP#: AIG039 Revision #03, AIG045A Revision #0.1
Parameter: Anions by IC in Soil

Chloride

Sample ID	Sample Name	Spiked Conc. (ppm)	Measured Conc. (ppm)	Weight (g)	% Solids	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	% Recovery
0910013-04	T25-50	~	5.214	10.1176	46.1	~	55.9	~
0910013-04 DUP	T25-50	~	5.551	10.8561	46.1	~	55.5	~
0910013-05 MS1	T25-50	6.0	9.906	10.1593	46.1	64	105.8	77.8

Sulfate

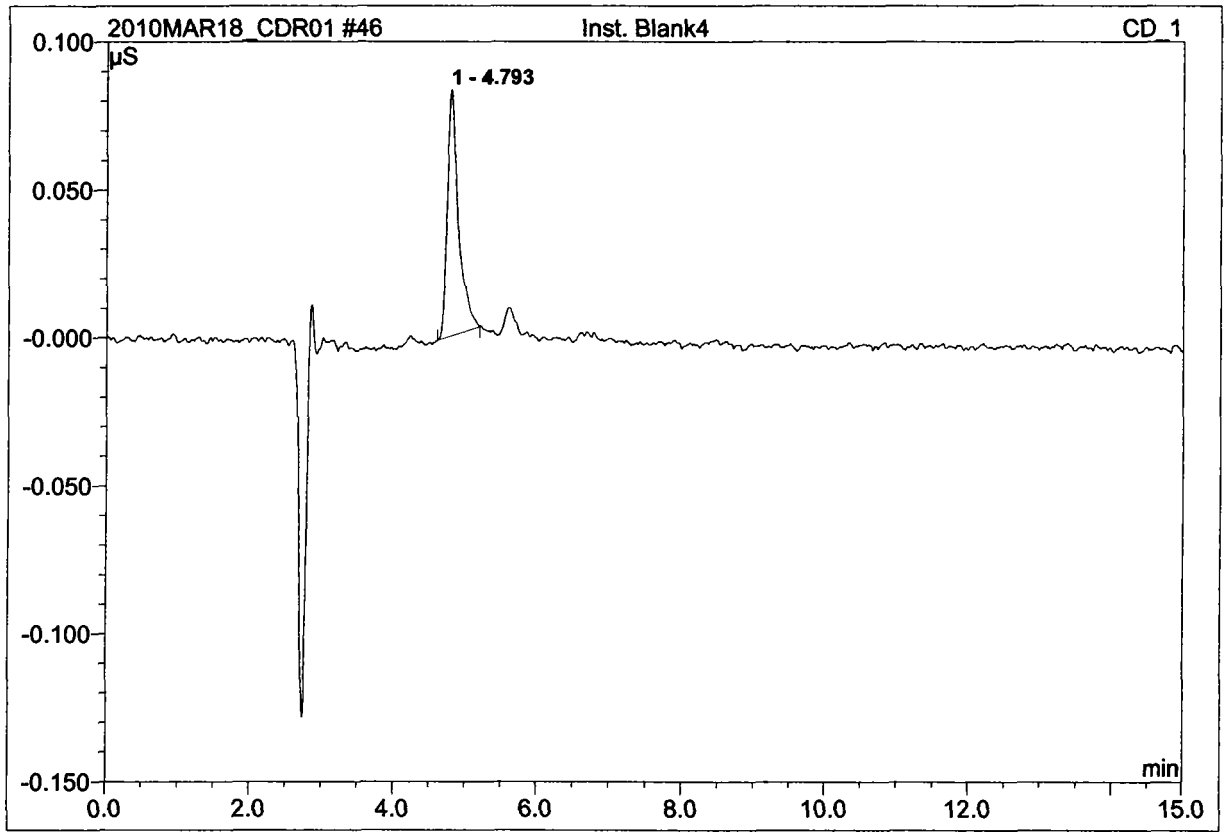
Sample ID	Sample Name	Spiked Conc. (ppm)	Measured Conc. (ppm)	Weight (g)	% Solids	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	% Recovery
0910013-04	T25-50	~	3.243	10.1176	46.1	~	34.8	~
0910013-04 DUP	T25-50	~	3.789	10.8561	46.1	~	37.9	~
0910013-05 MS1	T25-50	30.0	28.393	10.1593	46.1	320	303.1	83.8

Nitrate

Sample ID	Sample Name	Spiked Conc. (ppm)	Measured Conc. (ppm)	Weight (g)	% Solids	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	% Recovery
0910013-04	T25-50	~	0.205	10.1176	46.1	~	2.2	~
0910013-04 DUP	T25-50	~	0.272	10.8561	46.1	~	2.7	~
0910013-05 MS1	T25-50	6.0	4.515	10.1593	46.1	64	48.2	71.8

46 Inst. Blank4

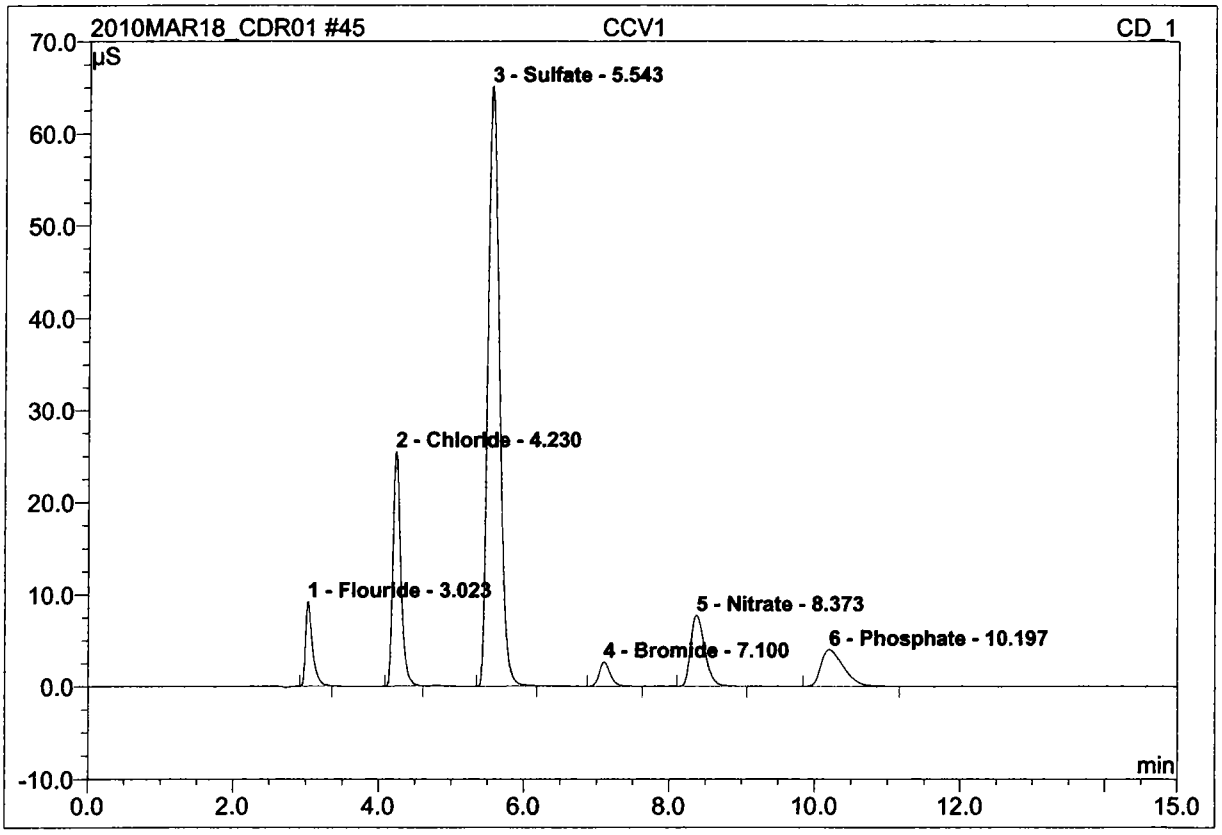
Sample Name:	**Inst. Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**36**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 20:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.79	n.a.	0.083	0.015	100.00	n.a.	BMB
Total:			0.083	0.015	100.00	0.000	

45 CCV1

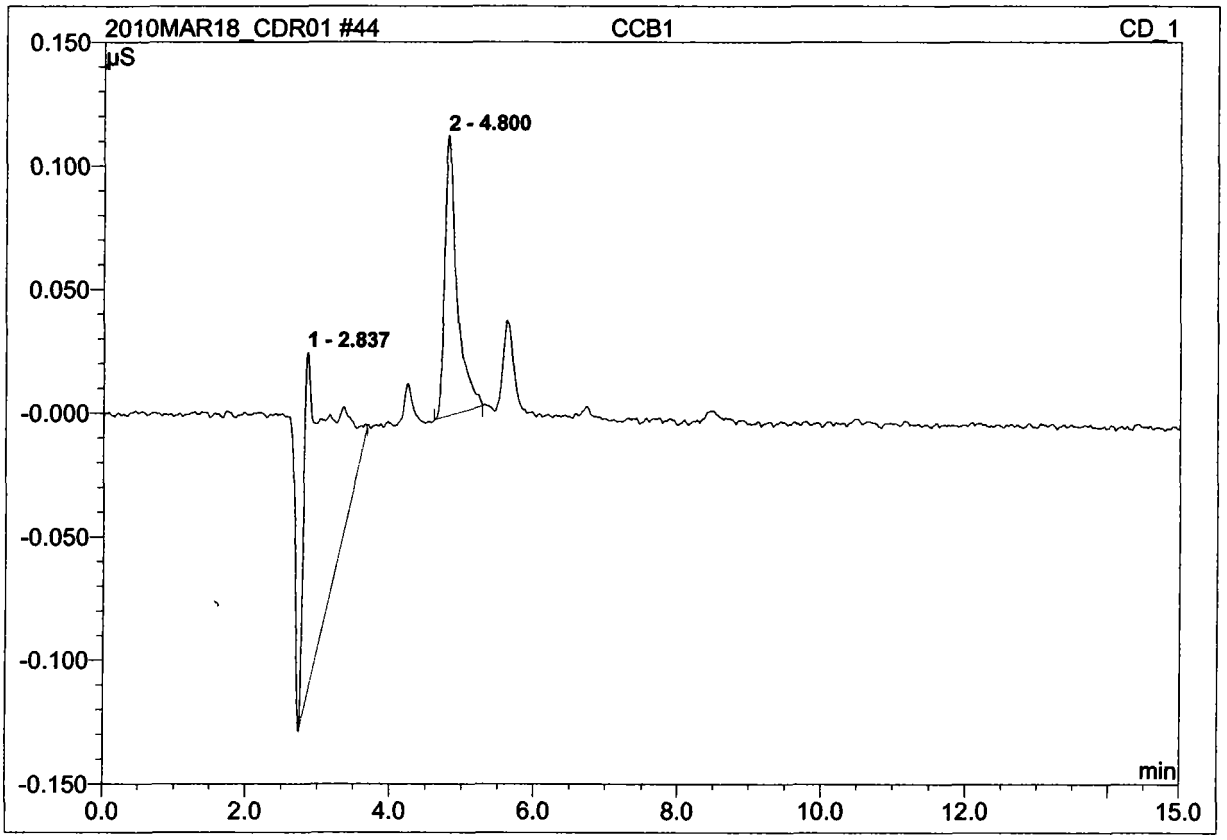
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**35**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 19:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	9.215	0.995	5.04	2.282	BMB
2	4.23	Chloride	25.490	3.157	15.98	11.696	BMB
3	5.54	Sulfate	65.100	12.004	60.75	60.973	BMB
4	7.10	Bromide	2.642	0.466	2.36	4.471	BMB
5	8.37	Nitrate	7.720	1.727	8.74	11.897	BMB
6	10.20	Phosphate	3.989	1.411	7.14	17.706	BMB
Total:			114.155	19.760	100.00	109.025	

44 CCB1

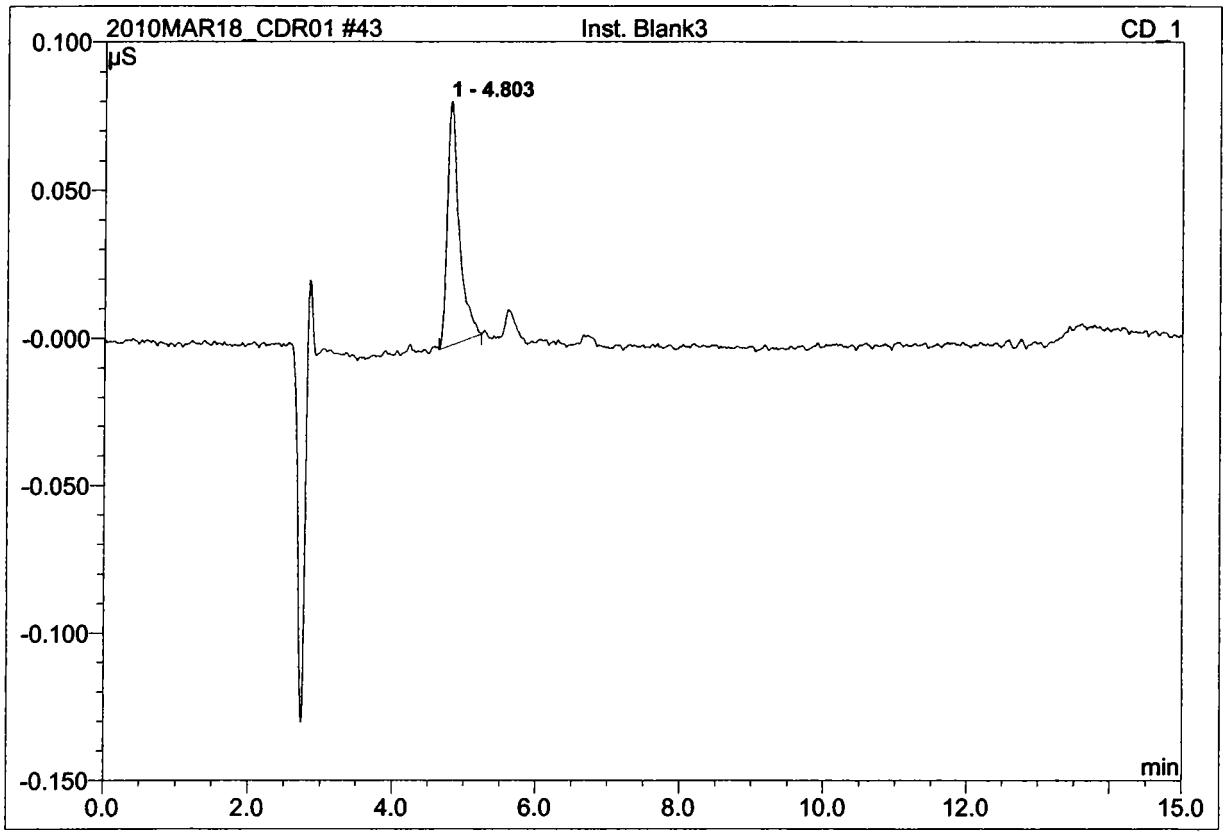
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**34**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 19:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.139	0.057	71.64	n.a.	BMB
2	4.80	n.a.	0.114	0.022	28.36	n.a.	BMB
Total:			0.253	0.079	100.00	0.000	

43 Inst. Blank3

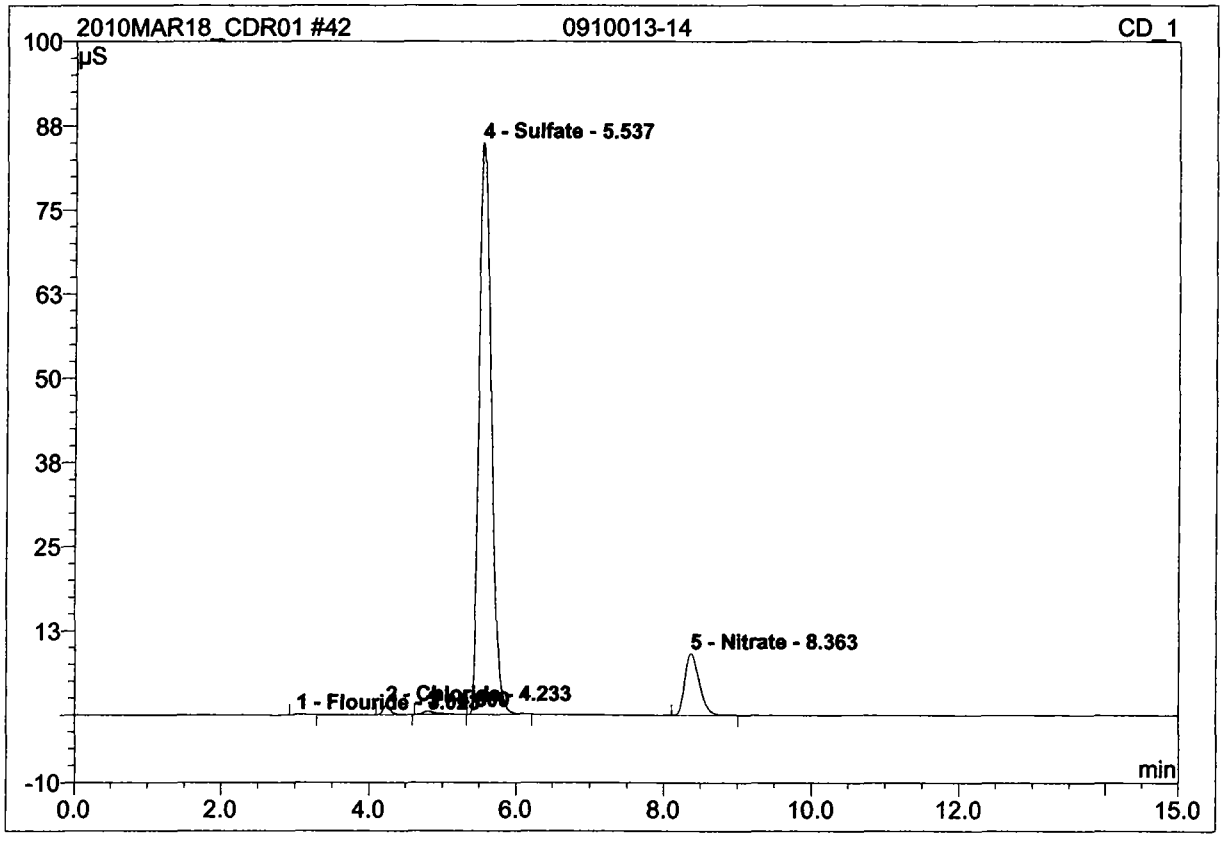
Sample Name:	**Inst. Blank3**	*Injection Volume:*	**25.0**
Vial Number:	**33**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 19:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.80	n.a.	0.082	0.016	100.00	n.a.	BMB
Total:			0.082	0.016	100.00	0.000	

42 0910013-14

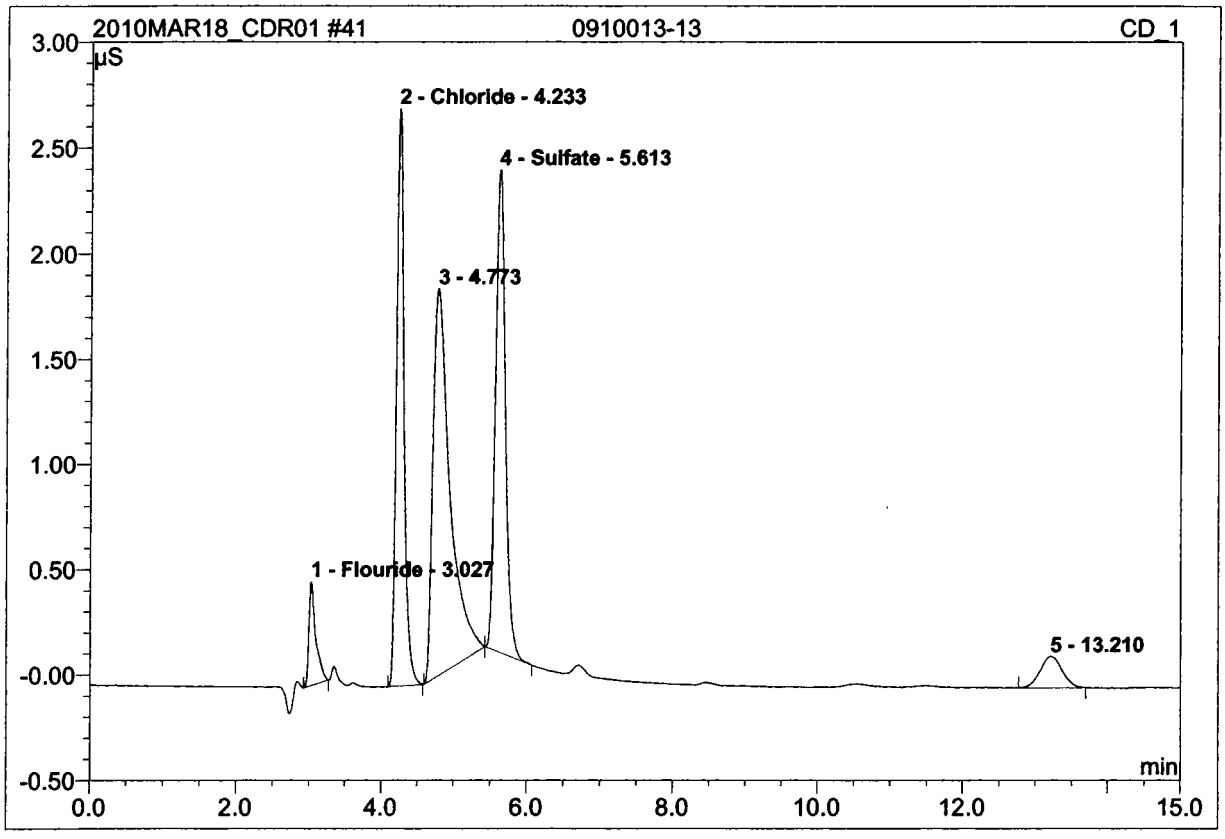
Sample Name:	**0910013-14**	*Injection Volume:*	**25.0**
Vial Number:	**32**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 18:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.141	0.015	0.08	0.094	BMB
2	4.23	Chloride	1.355	0.162	0.86	0.662	BMB
3	4.80	n.a.	0.509	0.109	0.58	n.a.	BMB
4	5.54	Sulfate	84.957	16.526	87.46	83.959	BMB
5	8.36	Nitrate	9.156	2.084	11.03	14.300	BMB
Total:			96.117	18.895	100.00	99.016	

41 0910013-13

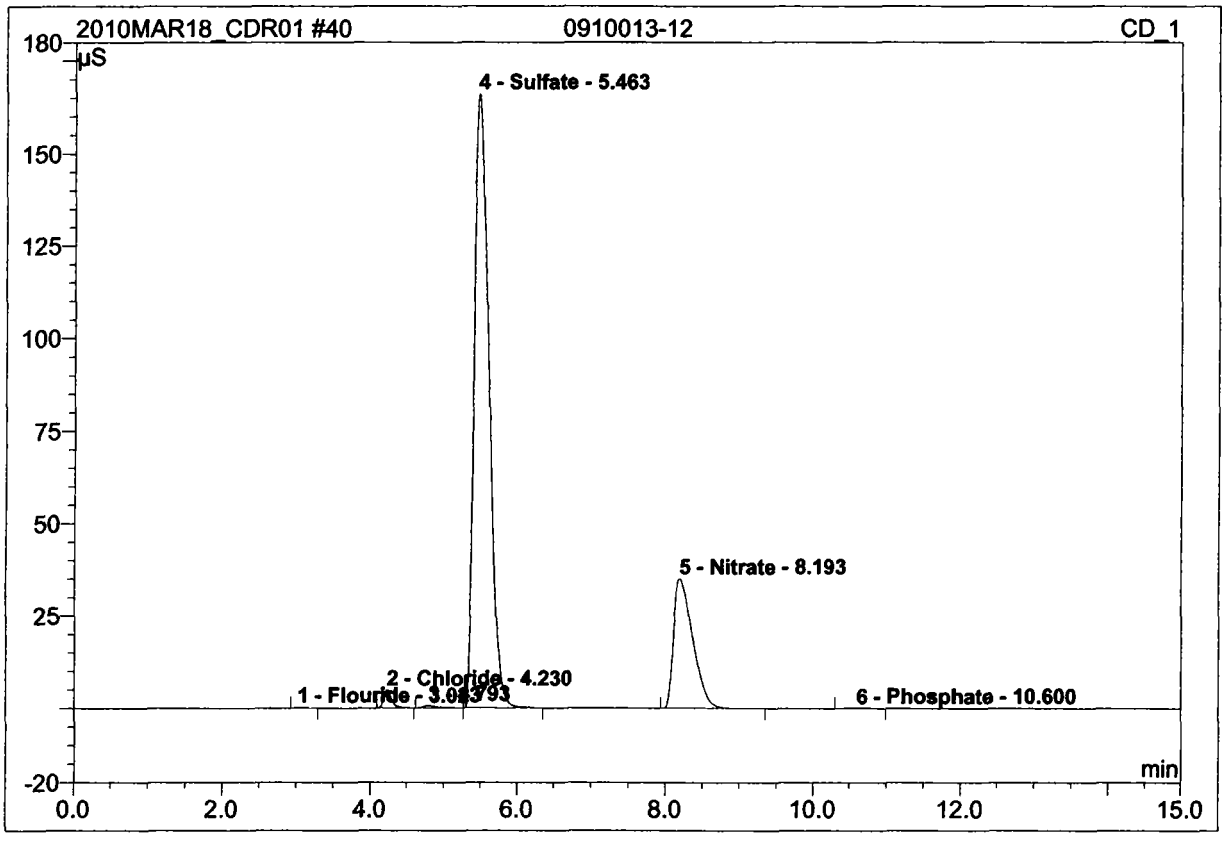
Sample Name:	**0910013-13**	*Injection Volume:*	**25.0**
Vial Number:	**31**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 18:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.03	Flouride	0.497	0.055	4.27	0.182	BMB
2	4.23	Chloride	2.741	0.325	25.07	1.262	BMB
3	4.77	n.a.	1.843	0.503	38.81	n.a.	BMb
4	5.61	Sulfate	2.291	0.361	27.87	1.784	bMB
5	13.21	n.a.	0.149	0.052	3.99	n.a.	BMB
Total:			7.521	1.295	100.00	3.228	

40 0910013-12

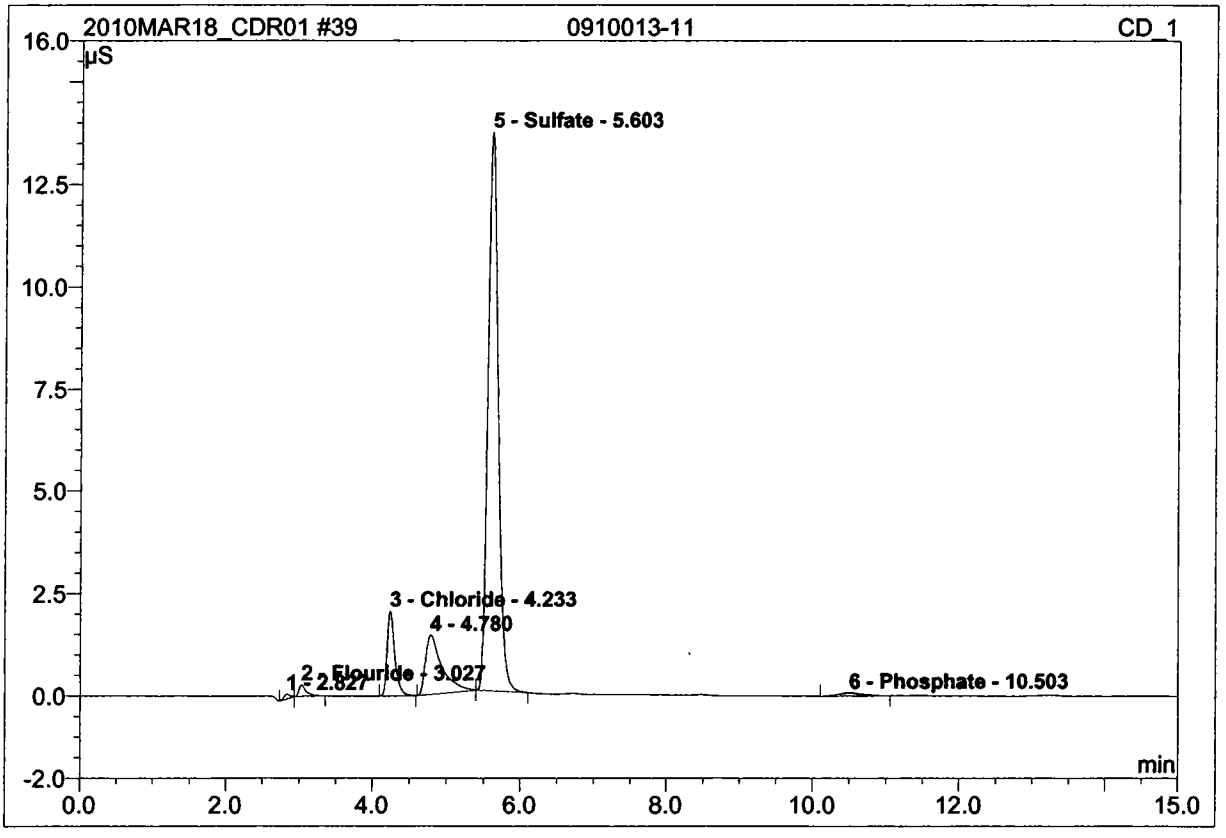
Sample Name:	**0910013-12**	*Injection Volume:*	**25.0**
Vial Number:	**30**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 18:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.291	0.031	0.06	0.129	BMB
2	4.23	Chloride	4.894	0.585	1.17	2.222	BMB
3	4.79	n.a.	0.672	0.148	0.30	n.a.	BMB
4	5.46	Sulfate	165.940	38.667	77.35	196.515	BMB
5	8.19	Nitrate	34.994	10.549	21.10	68.482	BMB
6	10.60	Phosphate	0.030	0.011	0.02	0.387	BMB
Total:			206.821	49.991	100.00	267.735	

39 0910013-11

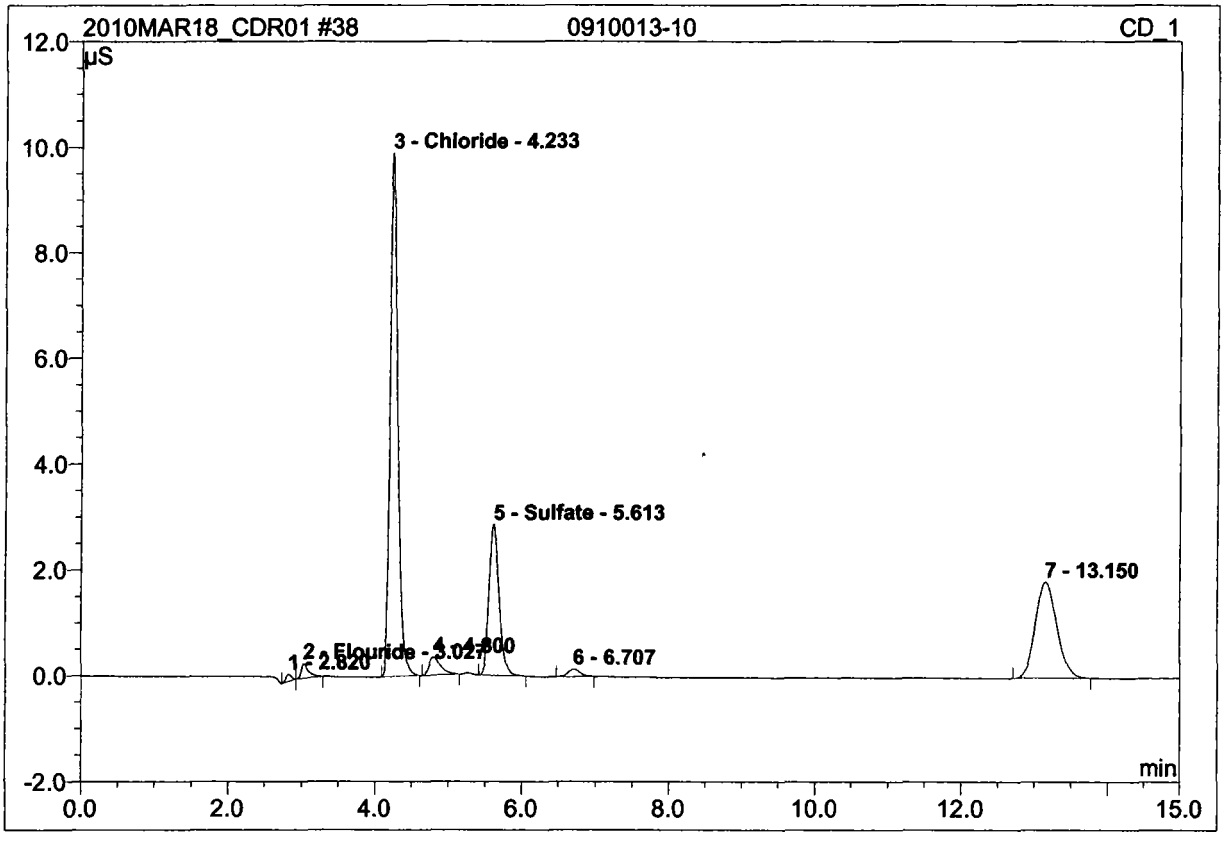
Sample Name:	**0910013-11**	*Injection Volume:*	**25.0**
Vial Number:	**29**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 18:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.116	0.011	0.38	n.a.	BMb
2	3.03	Flouride	0.284	0.032	1.08	0.130	bMB
3	4.23	Chloride	2.079	0.248	8.47	0.980	BMB
4	4.78	n.a.	1.446	0.374	12.76	n.a.	BMB
5	5.60	Sulfate	13.651	2.237	76.40	11.323	BMB
6	10.50	Phosphate	0.074	0.027	0.91	0.592	BMB
Total:			17.649	2.929	100.00	13.025	

38 0910013-10

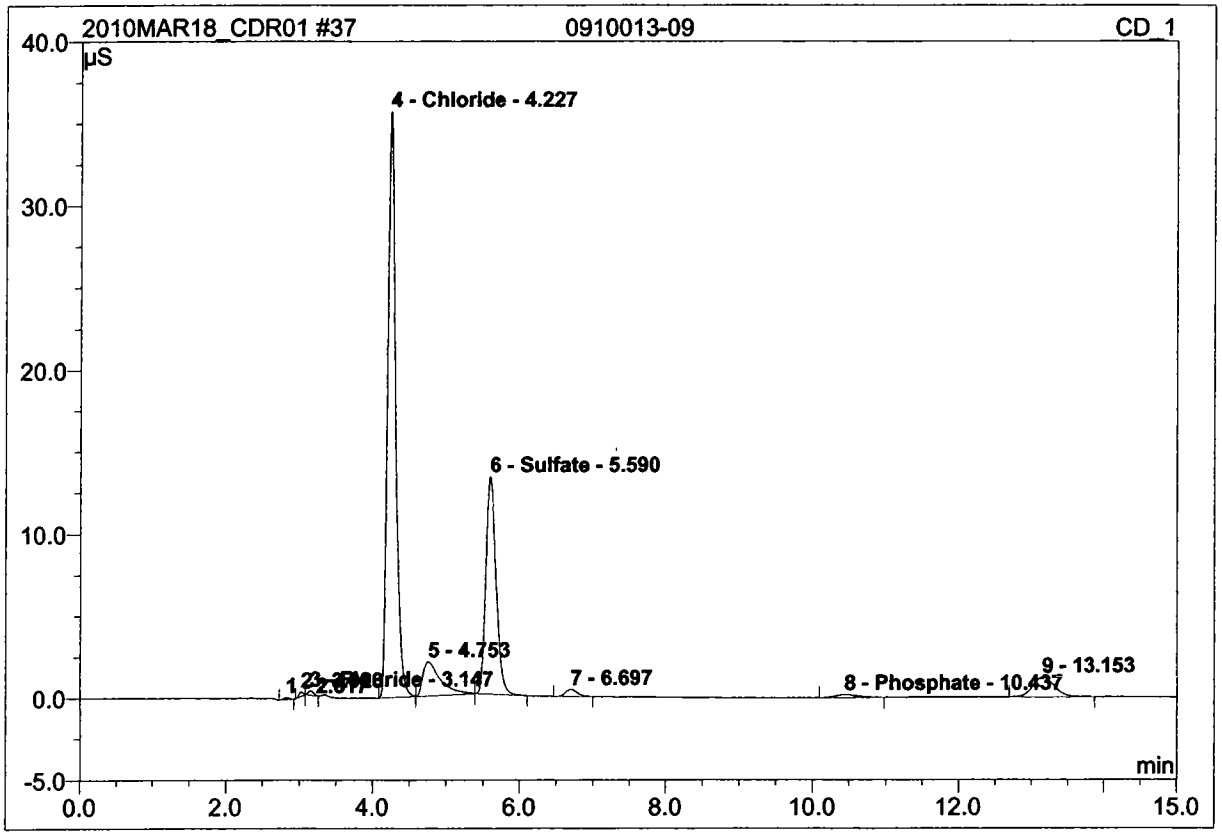
Sample Name:	**0910013-10**	*Injection Volume:*	**25.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 17:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.138	0.012	0.49	n.a.	BMB
2	3.03	Flouride	0.278	0.031	1.30	0.129	bMB
3	4.23	Chloride	9.918	1.214	50.16	4.536	BMB
4	4.80	n.a.	0.340	0.062	2.58	n.a.	BMB
5	5.61	Sulfate	2.859	0.455	18.81	2.263	BMB
6	6.71	n.a.	0.142	0.027	1.11	n.a.	BMB
7	13.15	n.a.	1.819	0.618	25.55	n.a.	BMB
Total:			15.493	2.419	100.00	6.928	

37 0910013-09

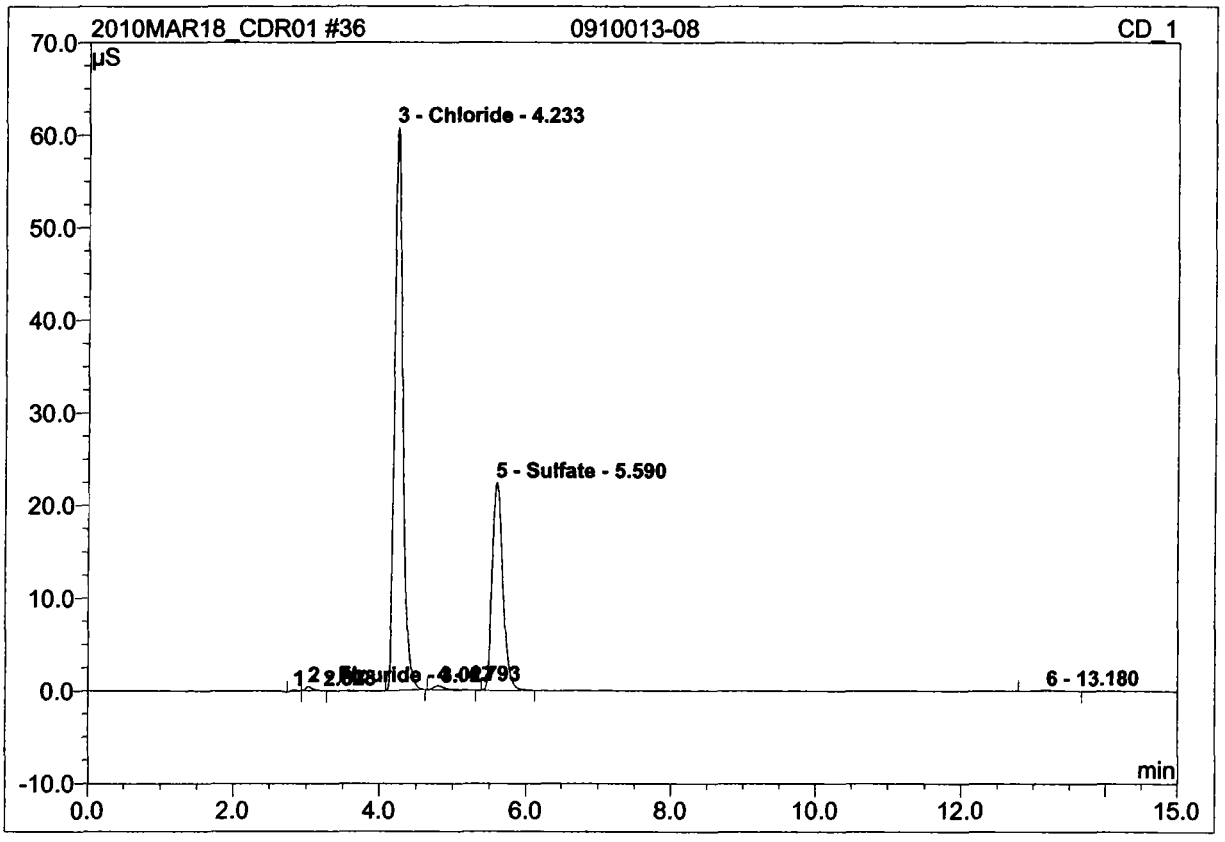
Sample Name:	**0910013-09**	*Injection Volume:*	**25.0**
Vial Number:	**27**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 17:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.139	0.012	0.16	n.a.	BMB
2	3.02	n.a.	0.282	0.019	0.24	n.a.	BMb
3	3.15	Flouride	0.264	0.021	0.27	0.107	bMB
4	4.23	Chloride	35.715	4.485	57.21	16.587	BMb
5	4.75	n.a.	2.067	0.569	7.26	n.a.	bMb
6	5.59	Sulfate	13.258	2.177	27.77	11.018	bMB
7	6.70	n.a.	0.441	0.082	1.05	n.a.	BMB
8	10.44	Phosphate	0.189	0.061	0.78	1.027	BMB
9	13.15	n.a.	1.202	0.412	5.25	n.a.	BMB
Total:			53.557	7.839	100.00	28.739	

36 0910013-08

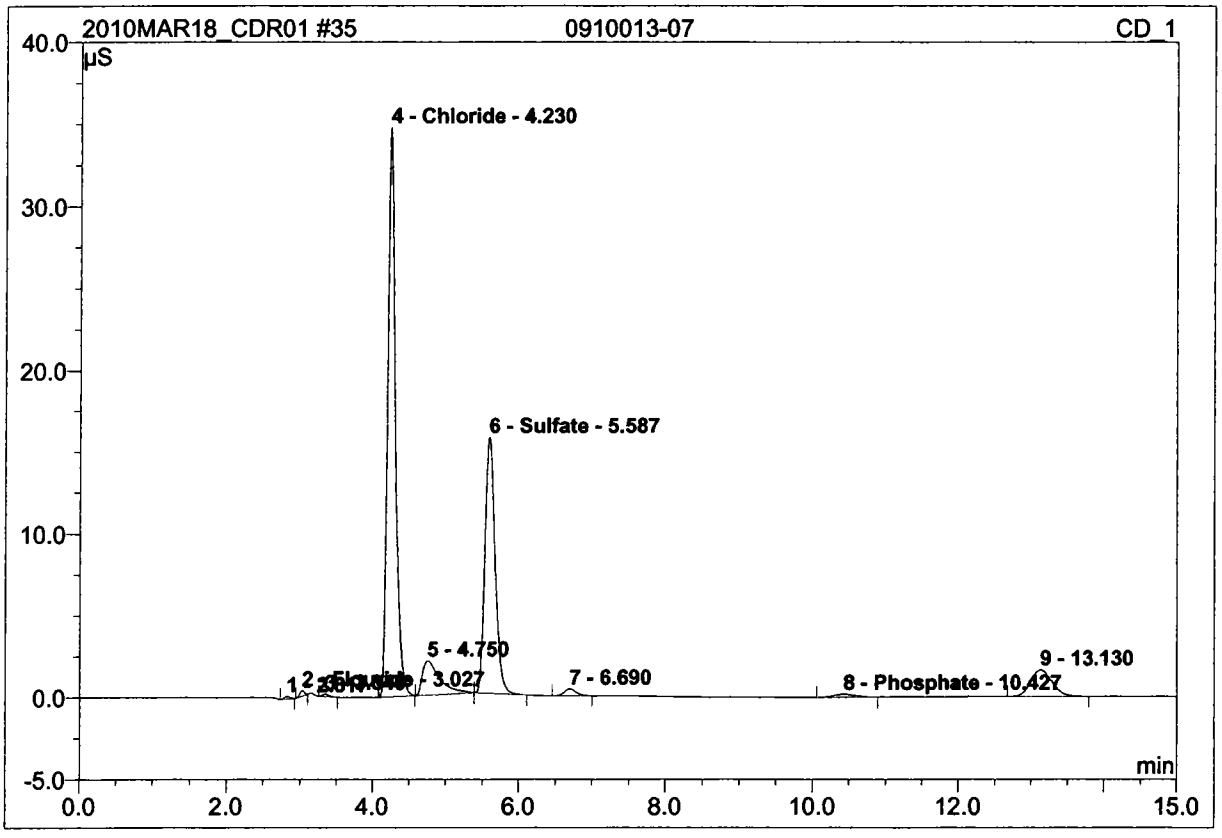
Sample Name:	**0910013-08**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 17:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.164	0.015	0.13	n.a.	BMb
2	3.03	Flouride	0.468	0.050	0.42	0.170	bMB
3	4.23	Chloride	60.826	7.797	66.16	28.789	BMB
4	4.79	n.a.	0.459	0.092	0.78	n.a.	BMB
5	5.59	Sulfate	22.448	3.783	32.10	19.182	BMB
6	13.18	n.a.	0.140	0.048	0.41	n.a.	BMB
Total:			84.504	11.786	100.00	48.141	

35 0910013-07

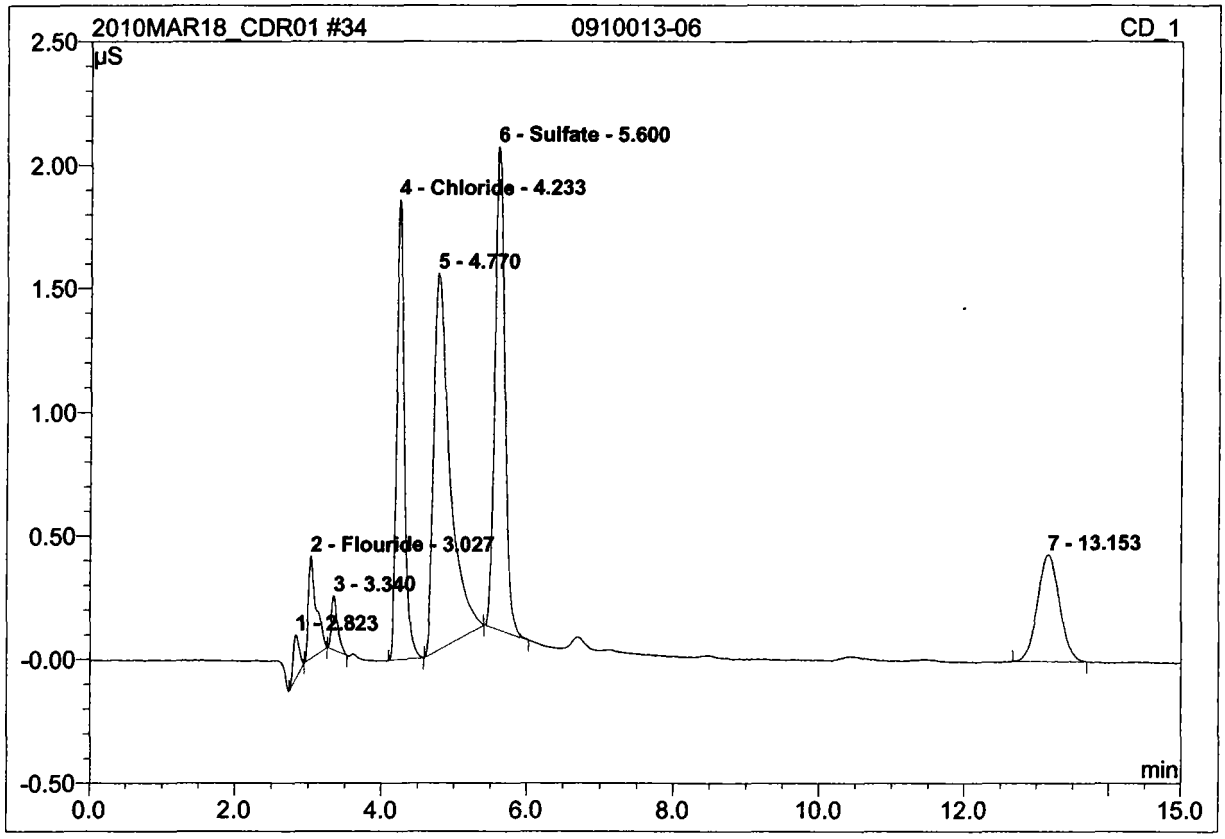
Sample Name:	**0910013-07**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 16:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.159	0.014	0.17	n.a.	BMB
2	3.03	Flouride	0.339	0.024	0.29	0.113	BMB
3	3.34	n.a.	0.154	0.015	0.18	n.a.	BMB
4	4.23	Chloride	34.759	4.364	52.83	16.142	BMB
5	4.75	n.a.	2.089	0.578	6.99	n.a.	BMb
6	5.59	Sulfate	15.609	2.576	31.18	13.044	bMB
7	6.69	n.a.	0.425	0.079	0.96	n.a.	BMB
8	10.43	Phosphate	0.182	0.058	0.70	0.983	BMB
9	13.13	n.a.	1.621	0.553	6.70	n.a.	BMB
Total:			55.337	8.261	100.00	30.283	

34 0910013-06

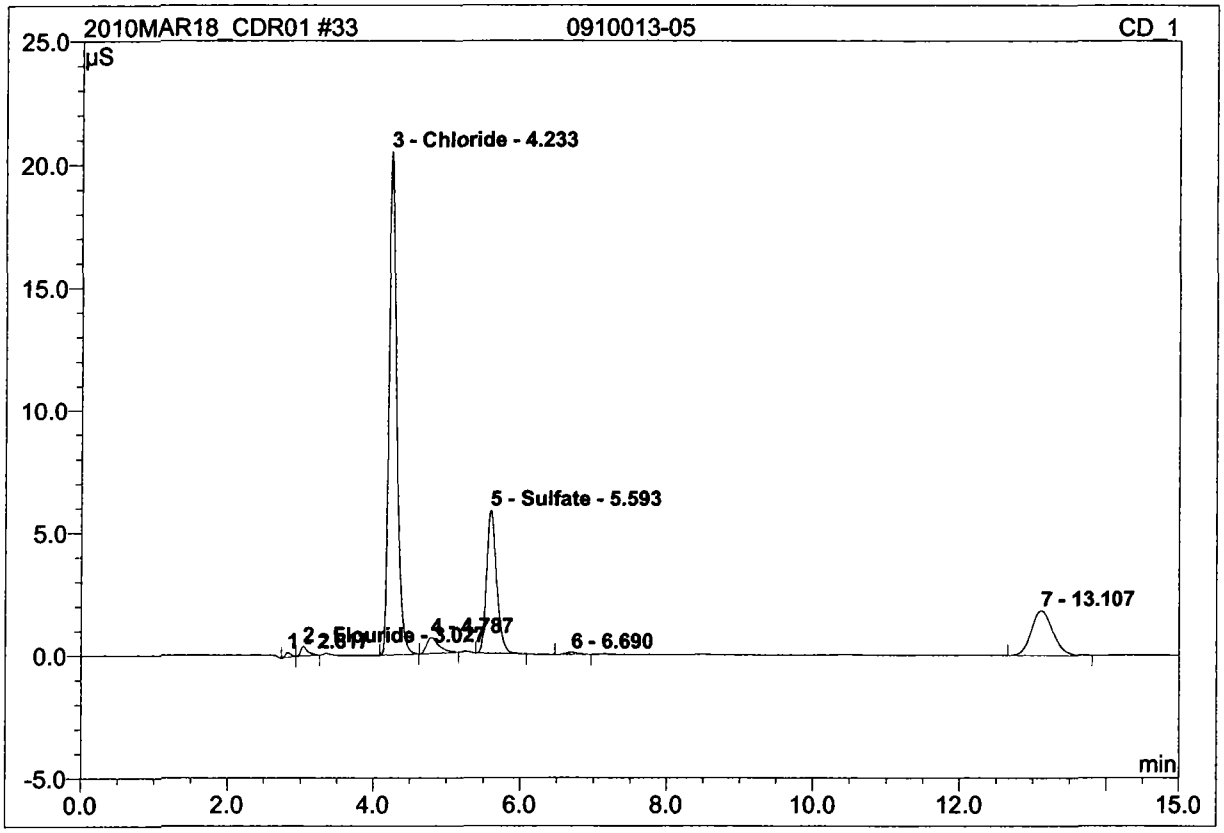
Sample Name:	**0910013-06**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 16:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.178	0.016	1.38	n.a.	BMb
2	3.03	Flouride	0.415	0.052	4.40	0.174	bMB
3	3.34	n.a.	0.221	0.022	1.86	n.a.	BMB
4	4.23	Chloride	1.862	0.224	19.05	0.891	BMB
5	4.77	n.a.	1.526	0.399	33.95	n.a.	BMb
6	5.60	Sulfate	1.957	0.310	26.39	1.525	bMB
7	13.15	n.a.	0.433	0.152	12.97	n.a.	BMB
Total:			6.591	1.175	100.00	2.590	

33 0910013-05

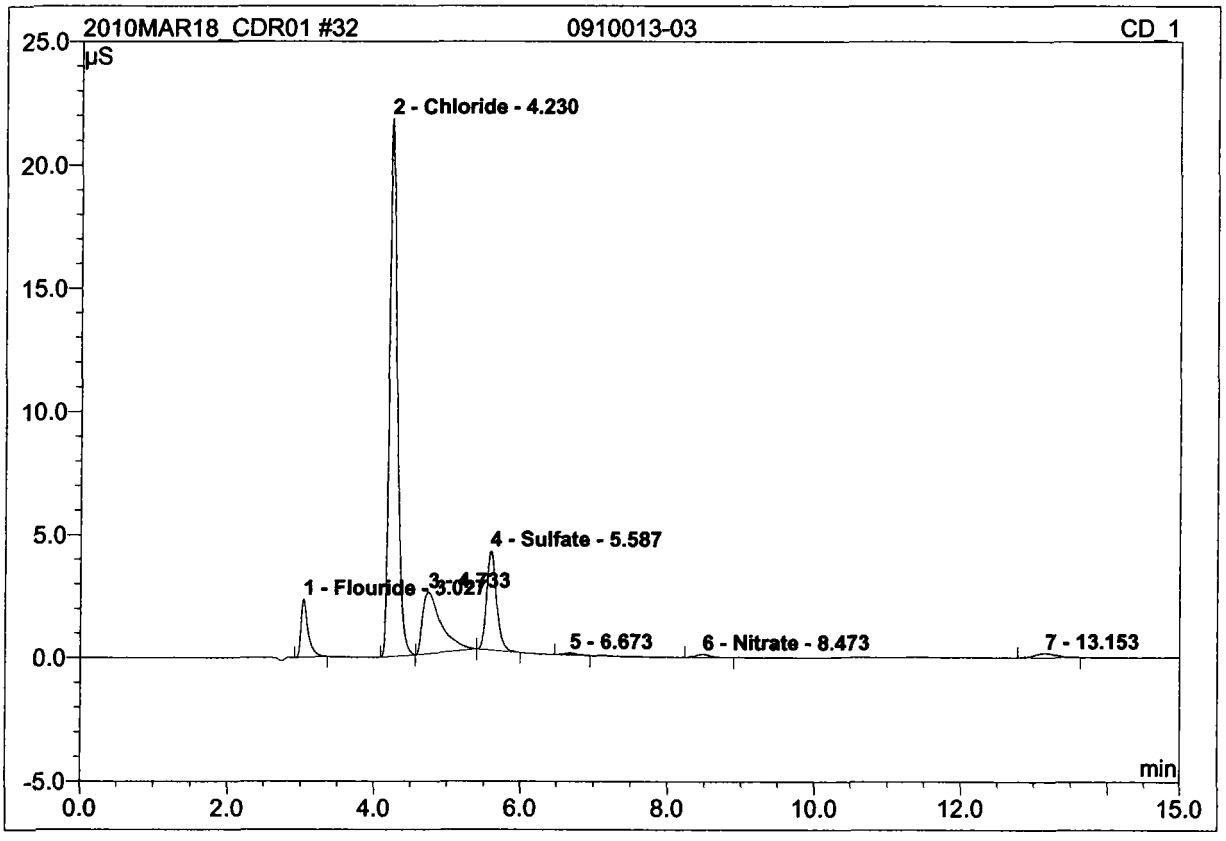
Sample Name:	**0910013-05**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 16:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.82	n.a.	0.207	0.018	0.42	n.a.	BMb
2	3.03	Flouride	0.399	0.044	1.02	0.157	bMB
3	4.23	Chloride	20.521	2.555	59.14	9.478	BMB
4	4.79	n.a.	0.650	0.127	2.95	n.a.	BMB
5	5.59	Sulfate	5.830	0.935	21.64	4.702	BMB
6	6.69	n.a.	0.089	0.017	0.39	n.a.	BMB
7	13.11	n.a.	1.828	0.624	14.44	n.a.	BMB
Total:			29.524	4.320	100.00	14.337	

32 0910013-03

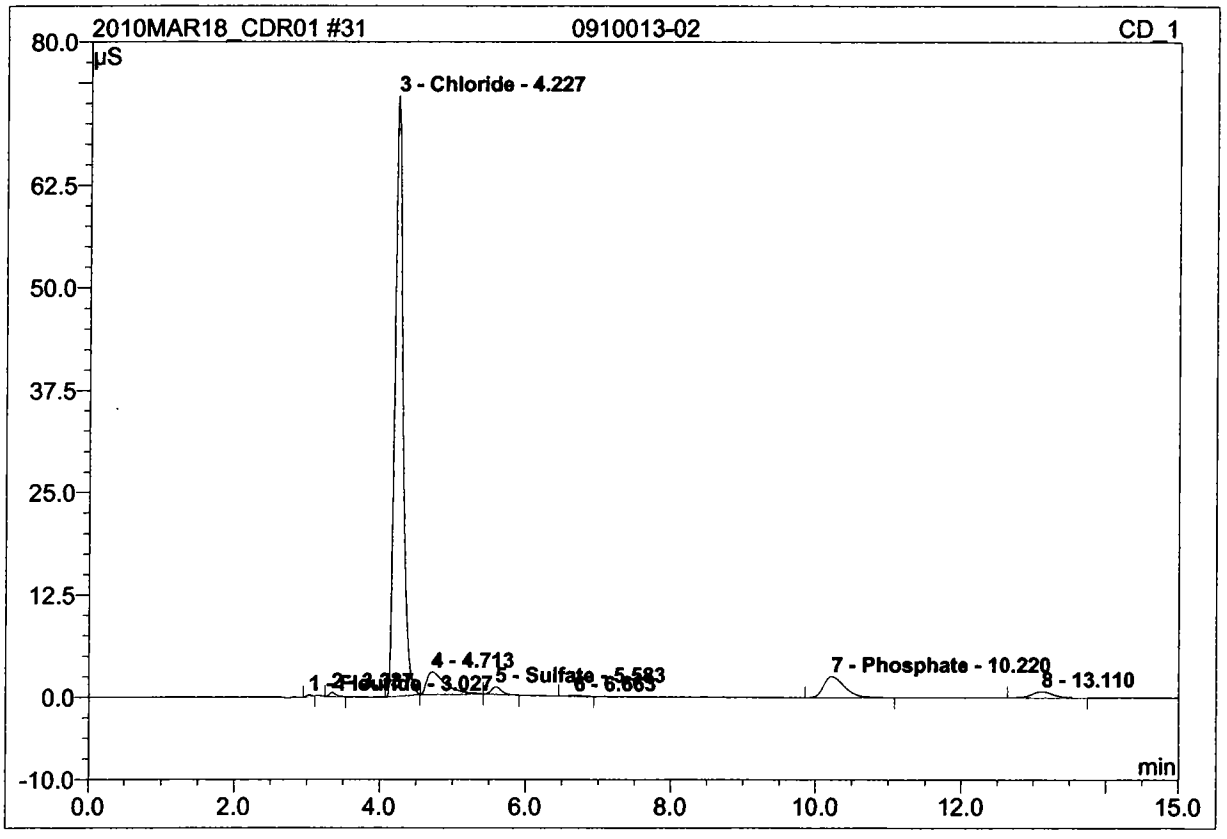
Sample Name:	**0910013-03**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 15:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.03	Flouride	2.362	0.258	5.81	0.631	BMB
2	4.23	Chloride	21.836	2.707	60.85	10.037	BMB
3	4.73	n.a.	2.509	0.740	16.64	n.a.	BMb
4	5.59	Sulfate	4.034	0.640	14.38	3.202	bMB
5	6.67	n.a.	0.082	0.015	0.35	n.a.	BMB
6	8.47	Nitrate	0.129	0.028	0.62	0.316	BMB
7	13.15	n.a.	0.175	0.060	1.34	n.a.	BMB
Total:			31.127	4.448	100.00	14.186	

31 0910013-02

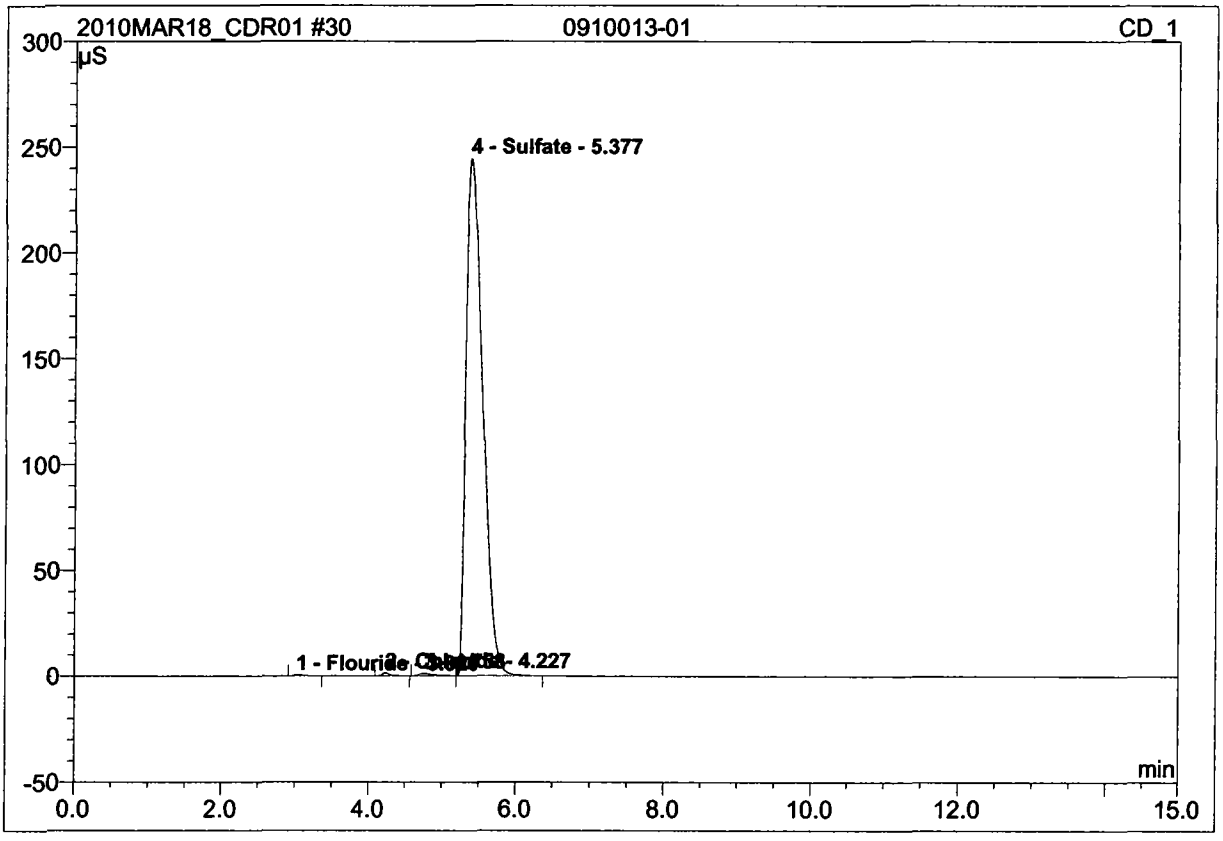
Sample Name:	**0910013-02**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 15:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.03	Flouride	0.176	0.012	0.11	0.087	BMB
2	3.34	n.a.	0.518	0.053	0.46	n.a.	BMB
3	4.23	Chloride	73.299	9.362	81.50	34.552	BMB
4	4.71	n.a.	2.718	0.802	6.99	n.a.	BMb
5	5.58	Sulfate	0.905	0.143	1.25	0.678	bMB
6	6.66	n.a.	0.096	0.018	0.16	n.a.	BMB
7	10.22	Phosphate	2.542	0.836	7.28	10.711	BMB
8	13.11	n.a.	0.756	0.260	2.26	n.a.	BMB
Total:			81.010	11.487	100.00	46.028	

30 0910013-01

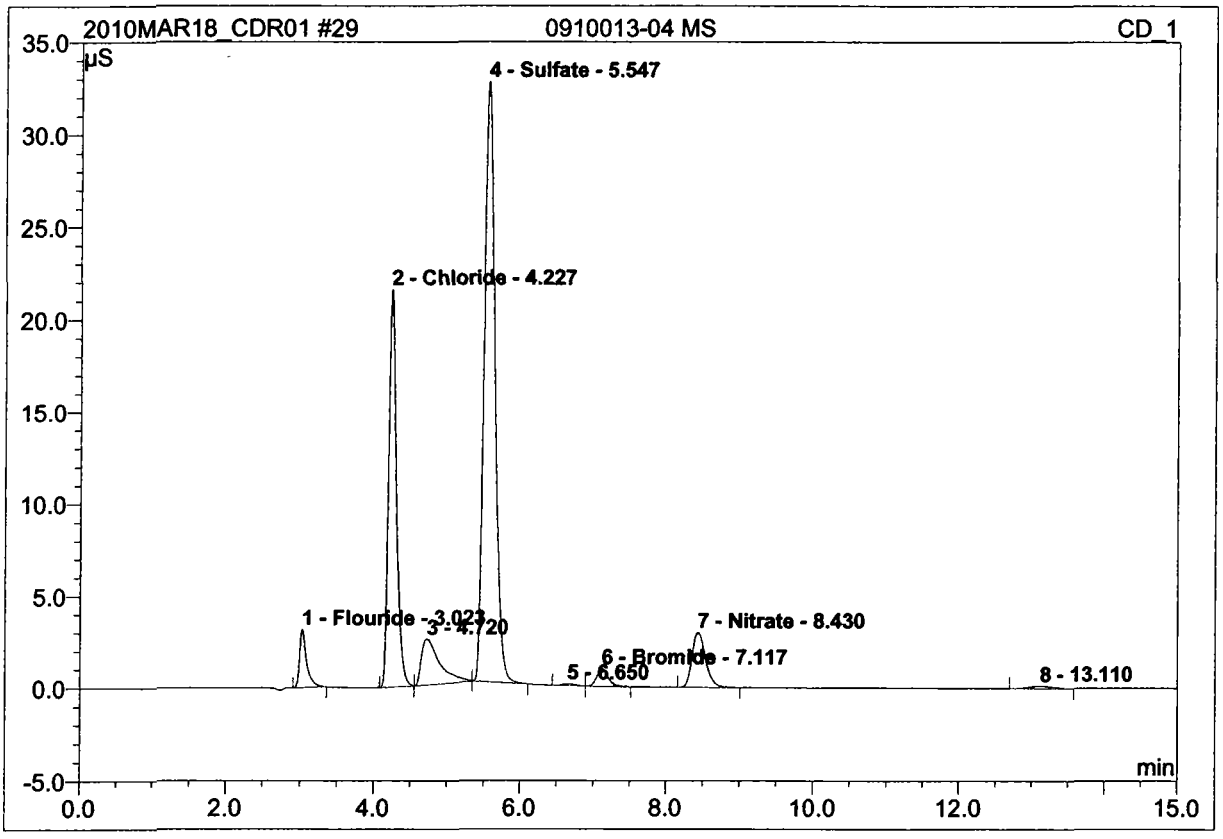
Sample Name:	**0910013-01**	*Injection Volume:*	**25.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 15:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.541	0.061	0.09	0.194	BMB
2	4.23	Chloride	1.530	0.184	0.28	0.743	BMB
3	4.75	n.a.	1.233	0.279	0.43	n.a.	BMB
4	5.38	Sulfate	244.482	64.052	99.19	325.562	BMB
Total:			247.787	64.576	100.00	326.499	

29 0910013-04 MS

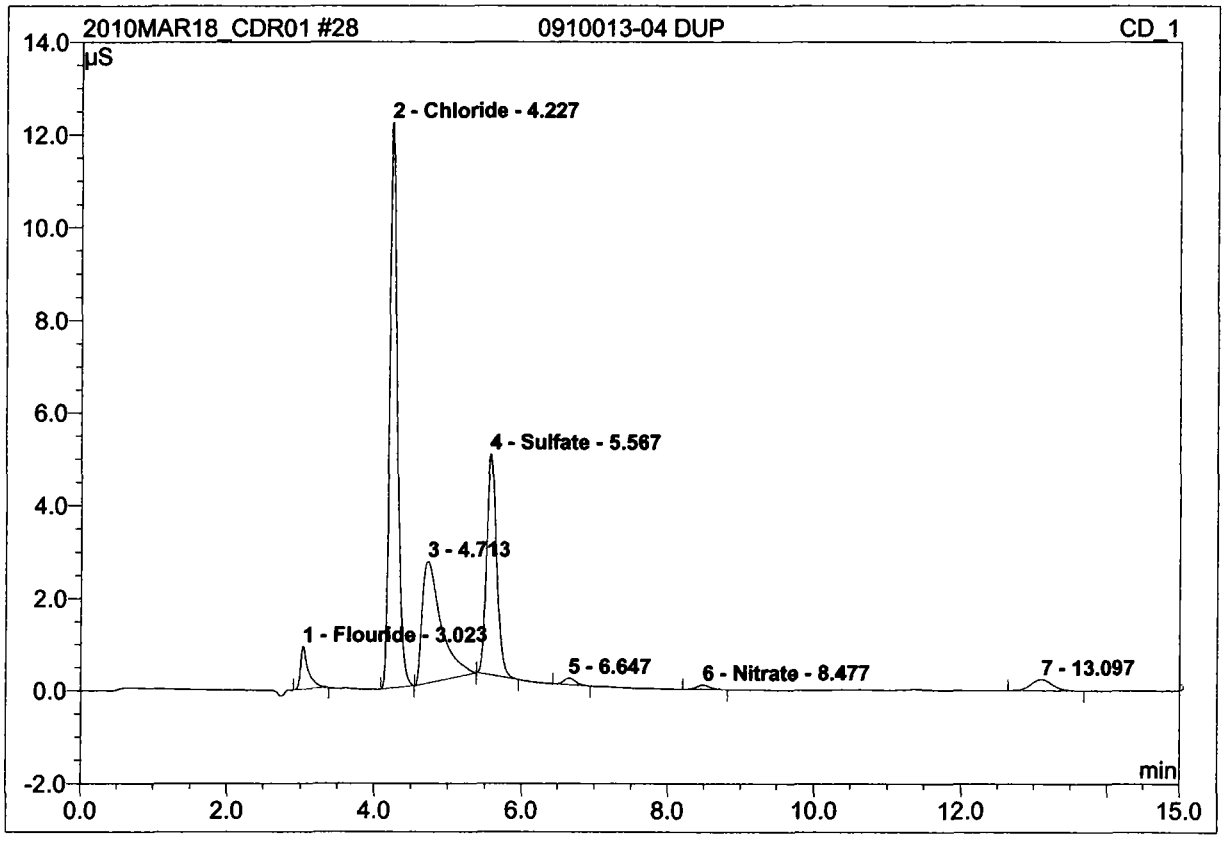
Sample Name:	**0910013-04 MS**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 14:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	3.172	0.352	3.45	0.839	BMB
2	4.23	Chloride	21.564	2.671	26.14	9.906	BMB
3	4.72	n.a.	2.485	0.726	7.11	n.a.	BMb
4	5.55	Sulfate	32.527	5.595	54.76	28.393	bMB
5	6.65	n.a.	0.100	0.018	0.18	n.a.	BMB
6	7.12	Bromide	0.964	0.171	1.67	1.750	BMB
7	8.43	Nitrate	2.990	0.639	6.26	4.515	BMB
8	13.11	n.a.	0.127	0.044	0.43	n.a.	BMB
Total:			63.929	10.217	100.00	45.403	

28 0910013-04 DUP

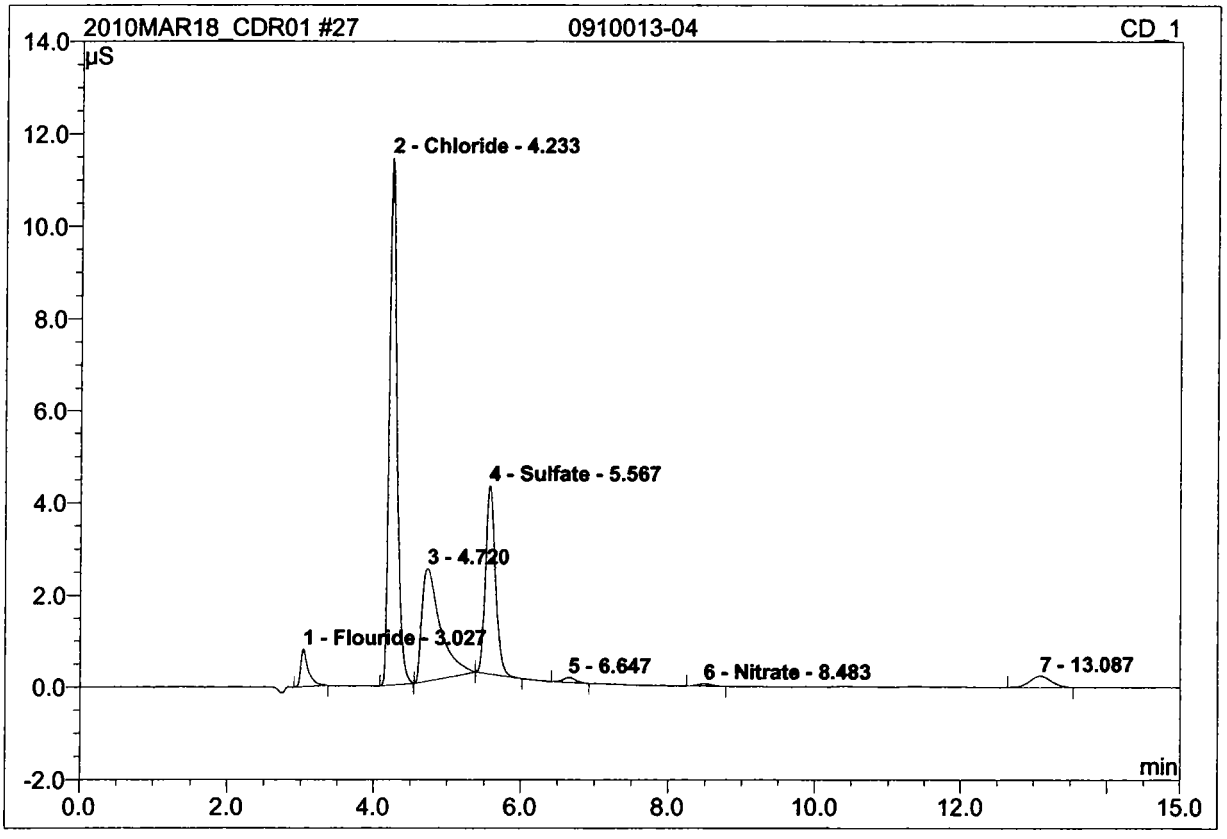
Sample Name:	**0910013-04 DUP**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 14:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.929	0.115	3.52	0.315	BMB
2	4.23	Chloride	12.211	1.489	45.35	5.551	BMB
3	4.71	n.a.	2.638	0.790	24.06	n.a.	BMb
4	5.57	Sulfate	4.772	0.755	23.01	3.789	bMB
5	6.65	n.a.	0.145	0.027	0.83	n.a.	BMB
6	8.48	Nitrate	0.099	0.021	0.65	0.272	BMB
7	13.10	n.a.	0.243	0.084	2.57	n.a.	BMB
Total:			21.037	3.283	100.00	9.928	

27 0910013-04

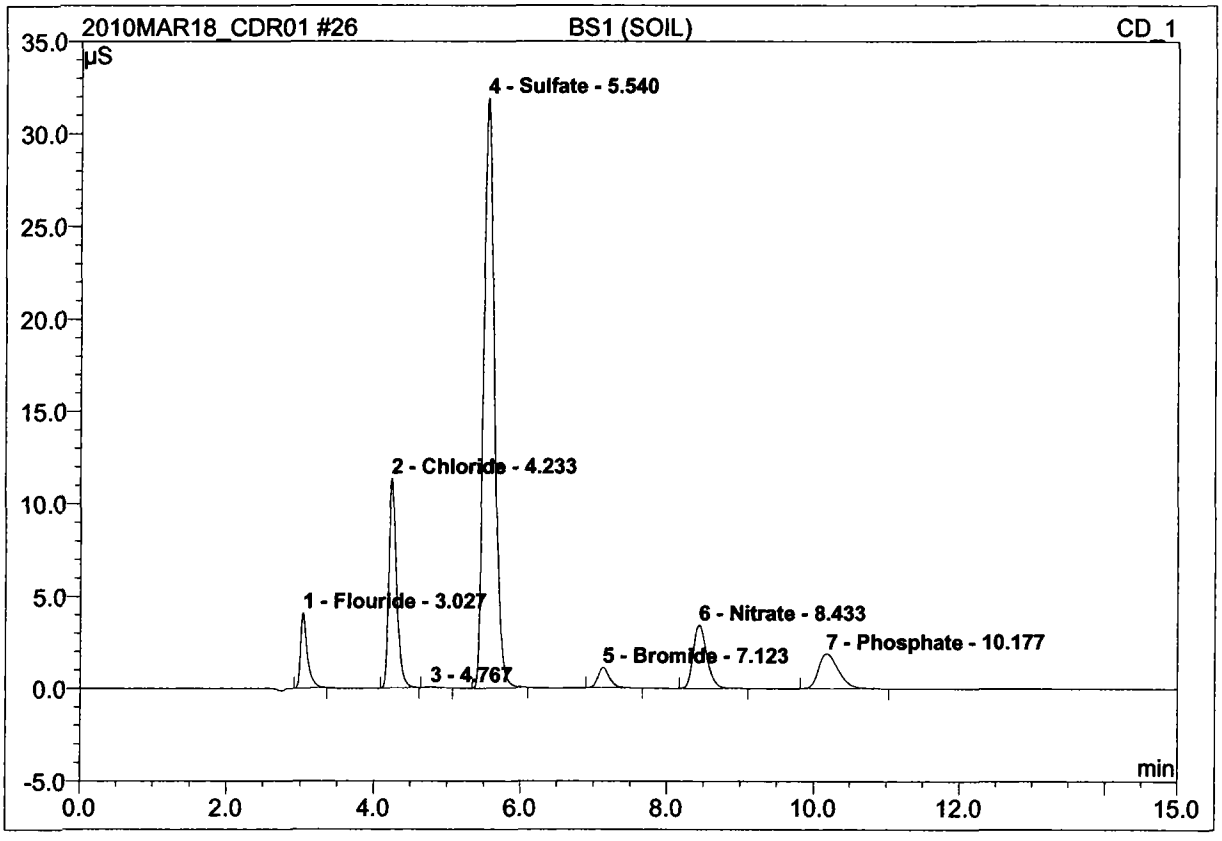
Sample Name:	**0910013-04**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 14:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.03	Flouride	0.821	0.098	3.29	0.276	BMB
2	4.23	Chloride	11.447	1.398	46.99	5.214	BMB
3	4.72	n.a.	2.446	0.715	24.03	n.a.	BMb
4	5.57	Sulfate	4.095	0.648	21.78	3.243	bMB
5	6.65	n.a.	0.109	0.021	0.70	n.a.	BMB
6	8.48	Nitrate	0.055	0.012	0.39	0.205	BMB
7	13.09	n.a.	0.247	0.084	2.82	n.a.	BMB
Total:			19.220	2.974	100.00	8.938	

26 BS1 (SOIL)

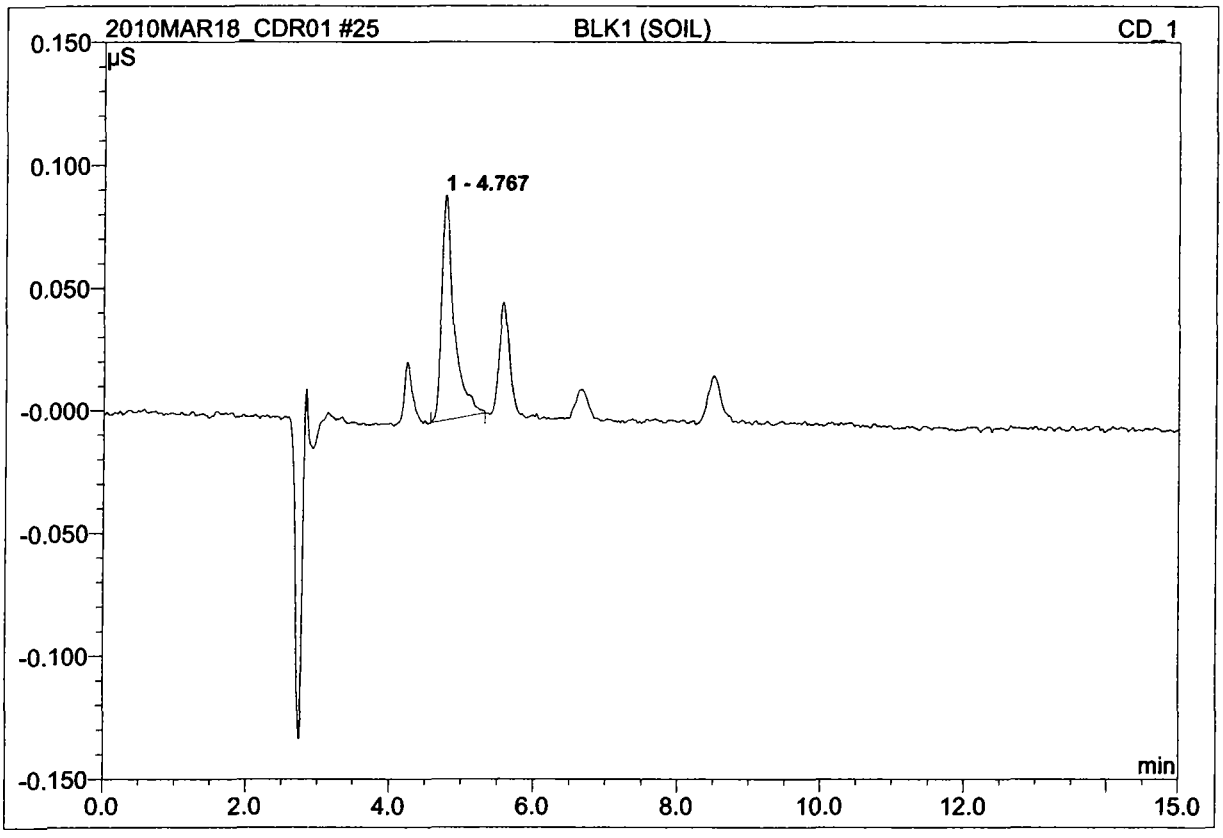
Sample Name:	**BS1 (SOIL)**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 14:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.03	Flouride	4.105	0.439	4.97	1.034	BMB
2	4.23	Chloride	11.364	1.398	15.80	5.216	BMB
3	4.77	n.a.	0.073	0.011	0.13	n.a.	BMB
4	5.54	Sulfate	31.910	5.456	61.68	27.683	BMB
5	7.12	Bromide	1.110	0.200	2.26	2.024	BMB
6	8.43	Nitrate	3.449	0.741	8.37	5.207	BMB
7	10.18	Phosphate	1.887	0.601	6.79	7.800	BMB
Total:			53.896	8.846	100.00	48.964	

25 BLK1 (SOIL)

Sample Name:	**BLK1 (SOIL)**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 13:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

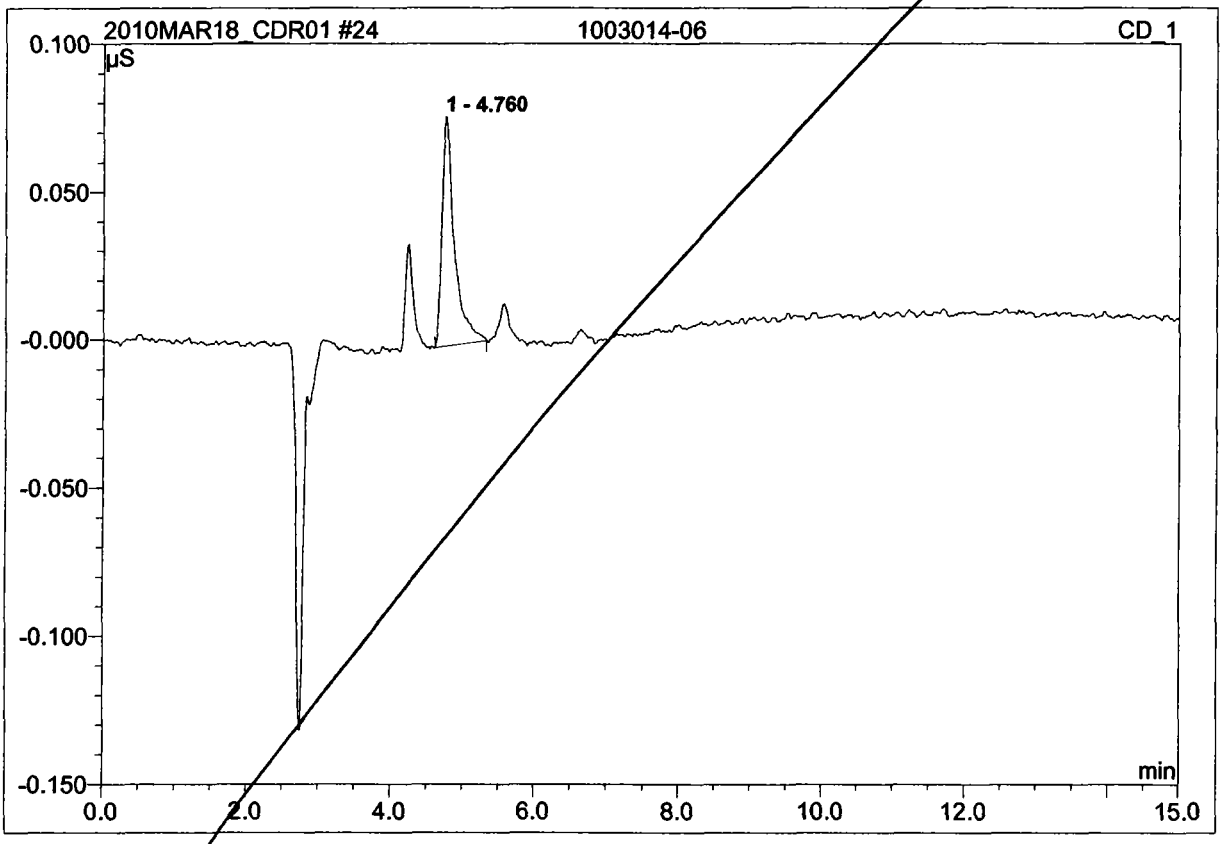


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.77	n.a.	0.092	0.019	100.00	n.a.	BMB
Total:			0.092	0.019	100.00	0.000	

24 1003014-06

Sample Name:	**1003014-06**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 13:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA 4-14-10 not RCRA data

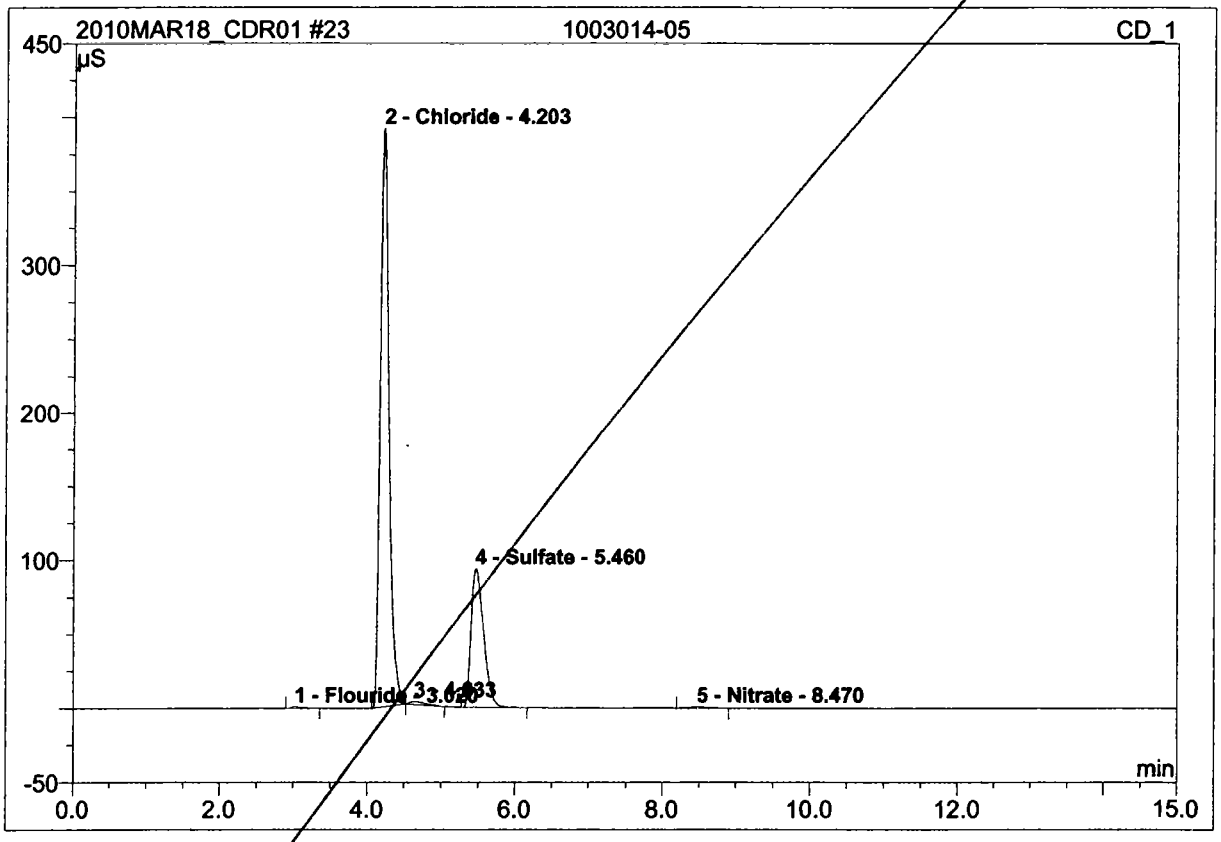


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.76	n.a.	0.078	0.016	100.00	n.a.	BMB
Total:			0.078	0.016	100.00	0.000	

23 1003014-05

Sample Name:	**1003014-05**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA 4-19-10 not RCRA data

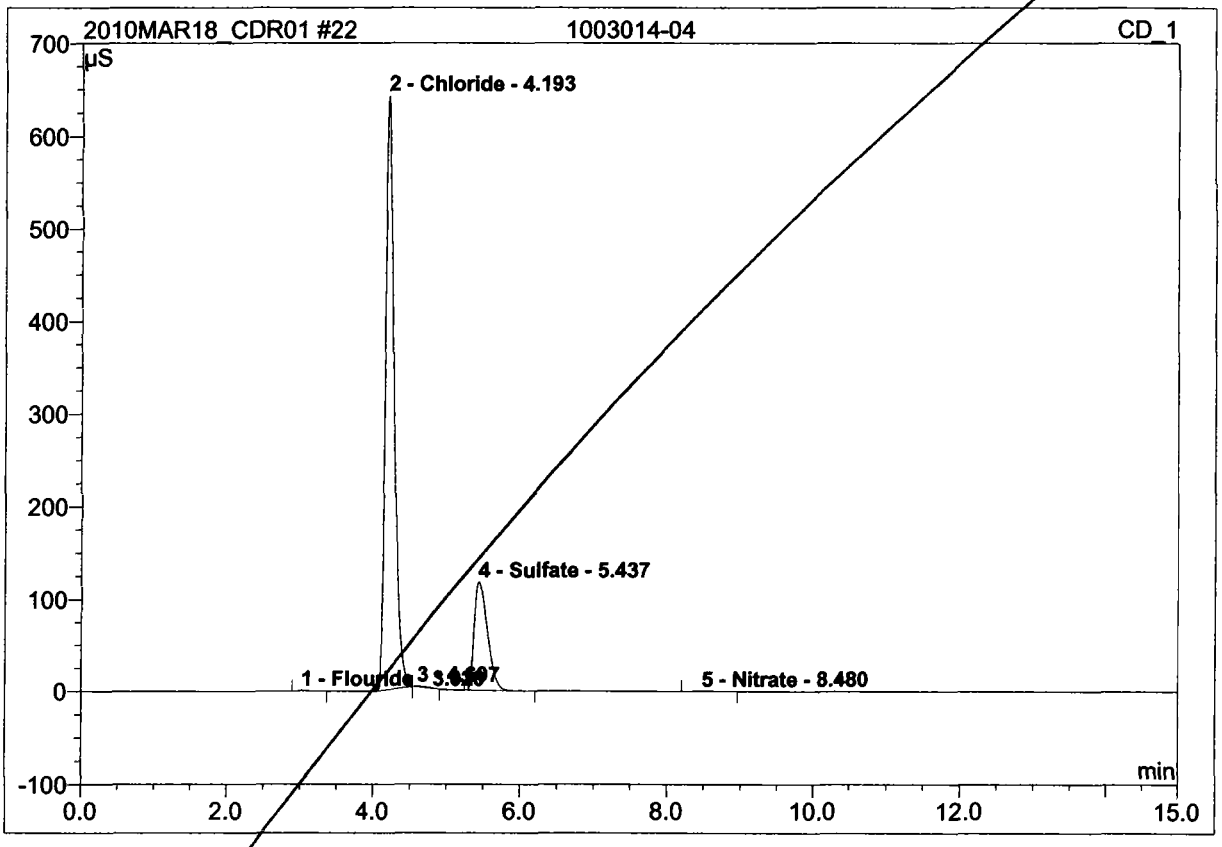


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.996	0.111	0.15	0.306	BMB
2	4.20	Chloride	391.728	52.723	73.27	194.277	BMb
3	4.63	n.a.	1.951	0.447	0.62	n.a.	bMB
4	5.46	Sulfate	93.683	18.504	25.71	94.015	BMB
5	8.47	Nitrate	0.834	0.177	0.25	1.340	BMB
Total:			489.191	71.962	100.00	289.938	

22 1003014-04

Sample Name:	**1003014-04**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA 4-14-10 not in CCA data

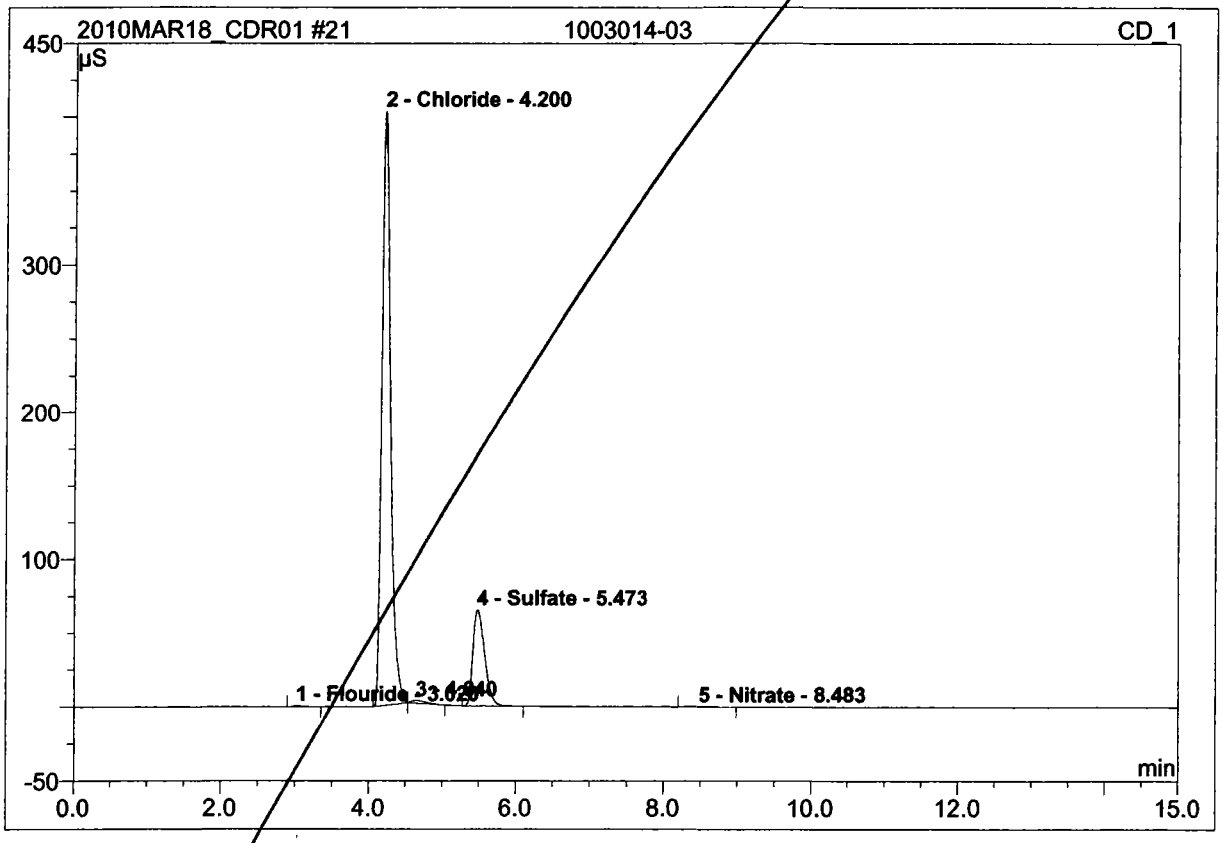


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.963	0.110	0.10	0.302	BMB
2	4.19	Chloride	641.654	89.669	78.22	330.368	BMb
3	4.61	n.a.	0.953	0.202	0.18	n.a.	bMB
4	5.44	Sulfate	117.725	24.524	21.39	124.616	BMB
5	8.48	Nitrate	0.614	0.131	0.11	1.026	BMB
Total:			761.908	114.634	100.00	456.313	

21 1003014-03

AA 4-14-10 not RCA data

Sample Name:	**1003014-03**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 12:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

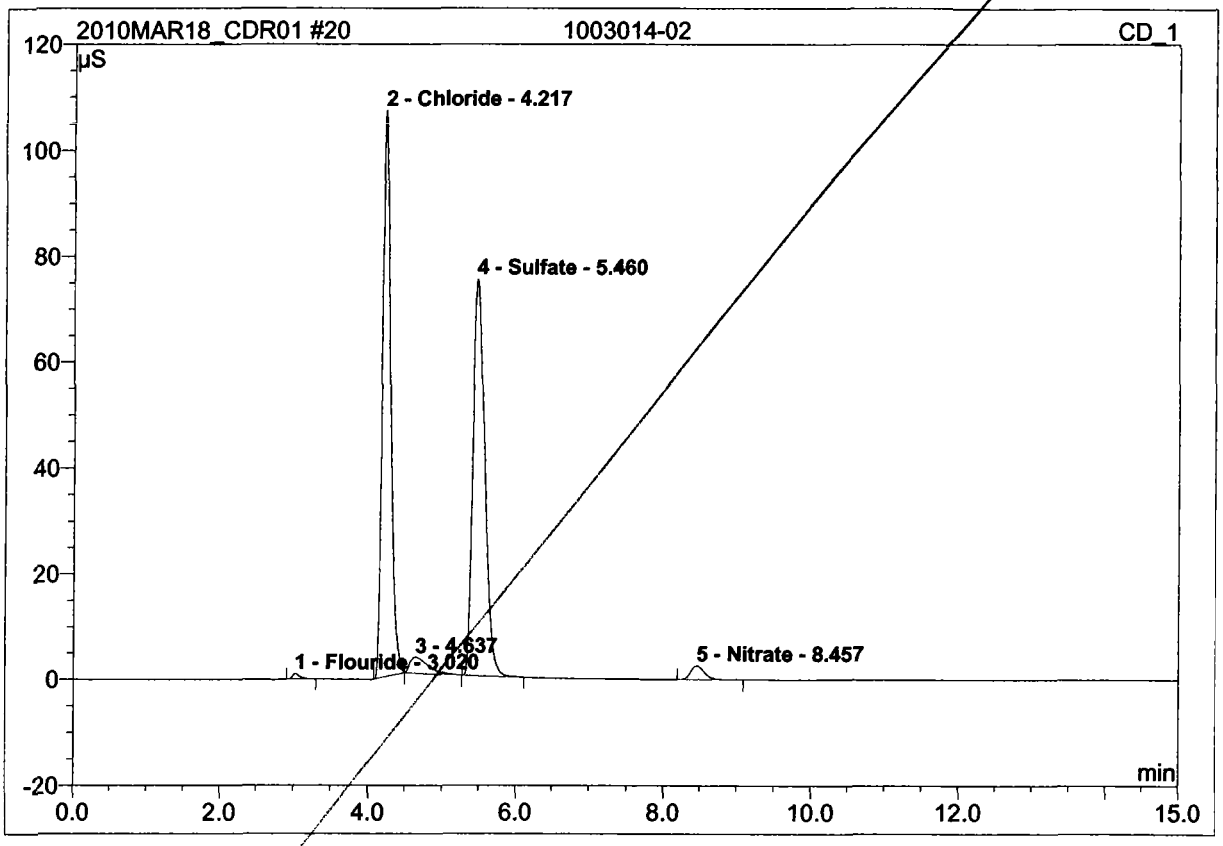


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.899	0.101	0.15	0.282	BMB
2	4.20	Chloride	403.335	54.633	81.14	201.312	BMb
3	4.64	n.a.	1.826	0.401	0.60	n.a.	bMB
4	5.47	Sulfate	65.377	12.079	17.94	61.353	BMB
5	8.48	Nitrate	0.541	0.116	0.17	0.925	BMB
Total:			471.979	67.330	100.00	263.872	

20 1003014-02

Sample Name:	**1003014-02**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 12:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA 4-14-10 not RLRA data

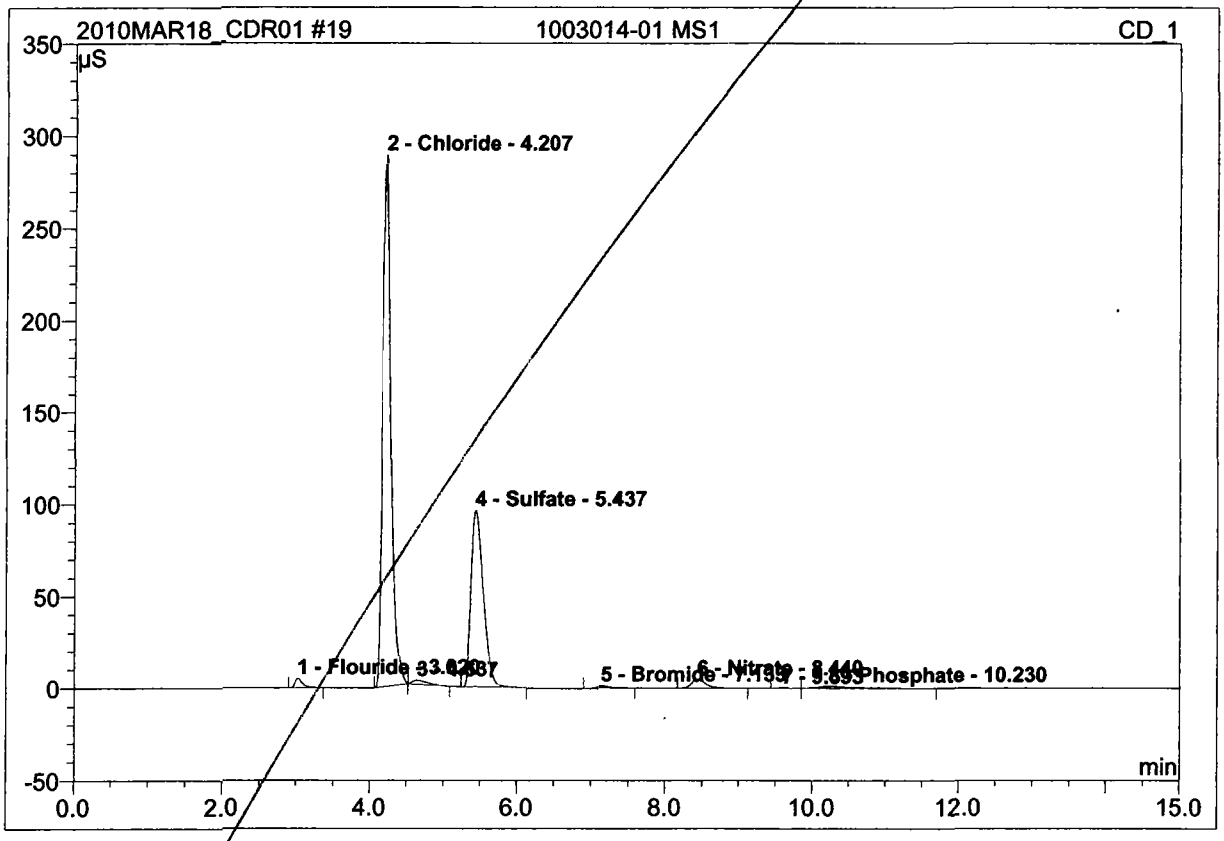


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	1.022	0.110	0.38	0.304	BMB
2	4.22	Chloride	107.105	13.717	46.63	50.594	BMb
3	4.64	n.a.	3.076	0.886	3.01	n.a.	bMB
4	5.46	Sulfate	75.052	14.153	48.11	71.899	BMB
5	8.46	Nitrate	2.573	0.551	1.87	3.909	BMB
Total:			188.828	29.418	100.00	126.706	

AA 4-14-10 not RCRA data

19 1003014-01 MS1

Sample Name:	**1003014-01 MS1**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 11:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

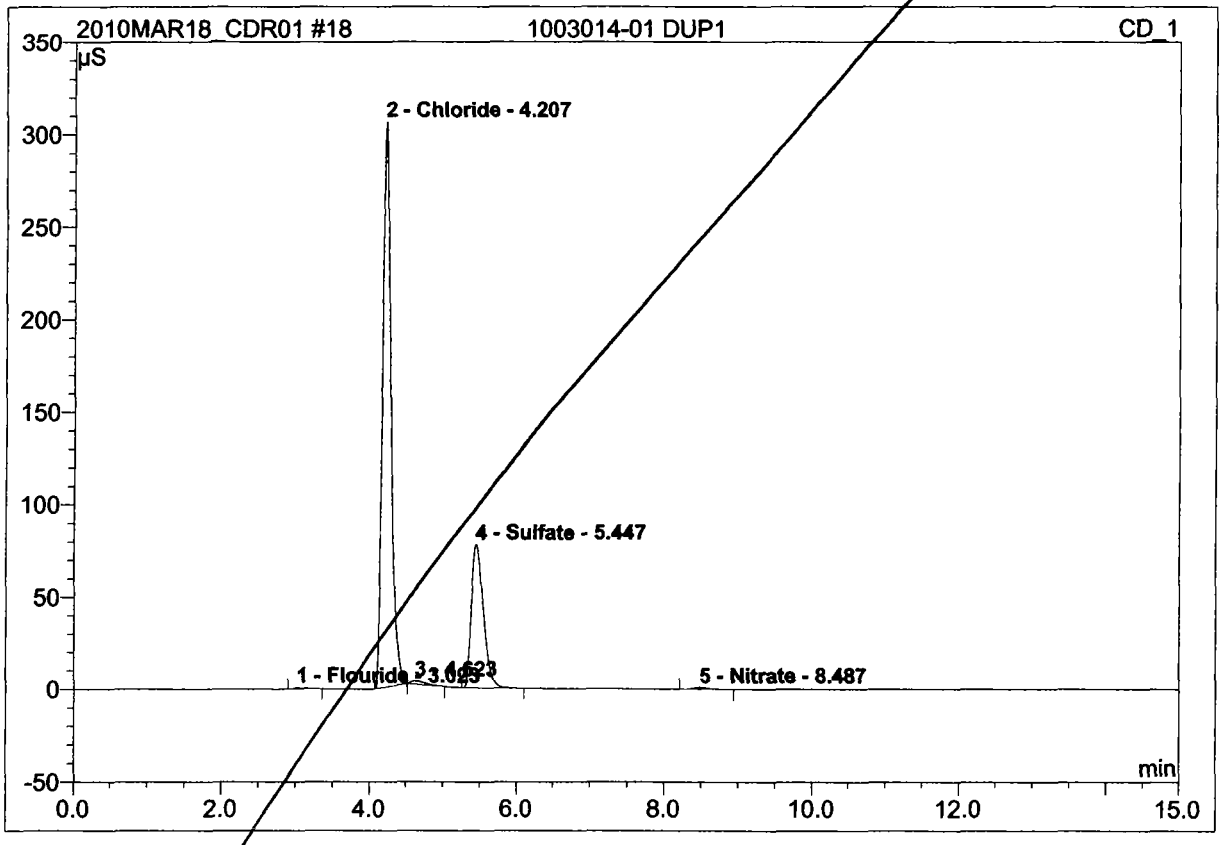


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	5.159	0.577	0.96	1.342	BMB
2	4.21	Chloride	288.782	38.053	63.59	140.236	BMb
3	4.64	n.a.	2.062	0.474	0.79	n.a.	bMB
4	5.44	Sulfate	96.293	18.991	31.74	96.490	BMB
5	7.13	Bromide	1.171	0.210	0.35	2.116	BMB
6	8.44	Nitrate	4.692	1.029	1.72	7.170	BMB
7	9.59	n.a.	0.089	0.018	0.03	n.a.	BMb
8	10.23	Phosphate	0.993	0.487	0.81	6.391	bMB
Total:			399.242	59.839	100.00	253.745	

18 1003014-01 DUP1

AA 4-14-10 not RCRA data

Sample Name:	**1003014-01 DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 11:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

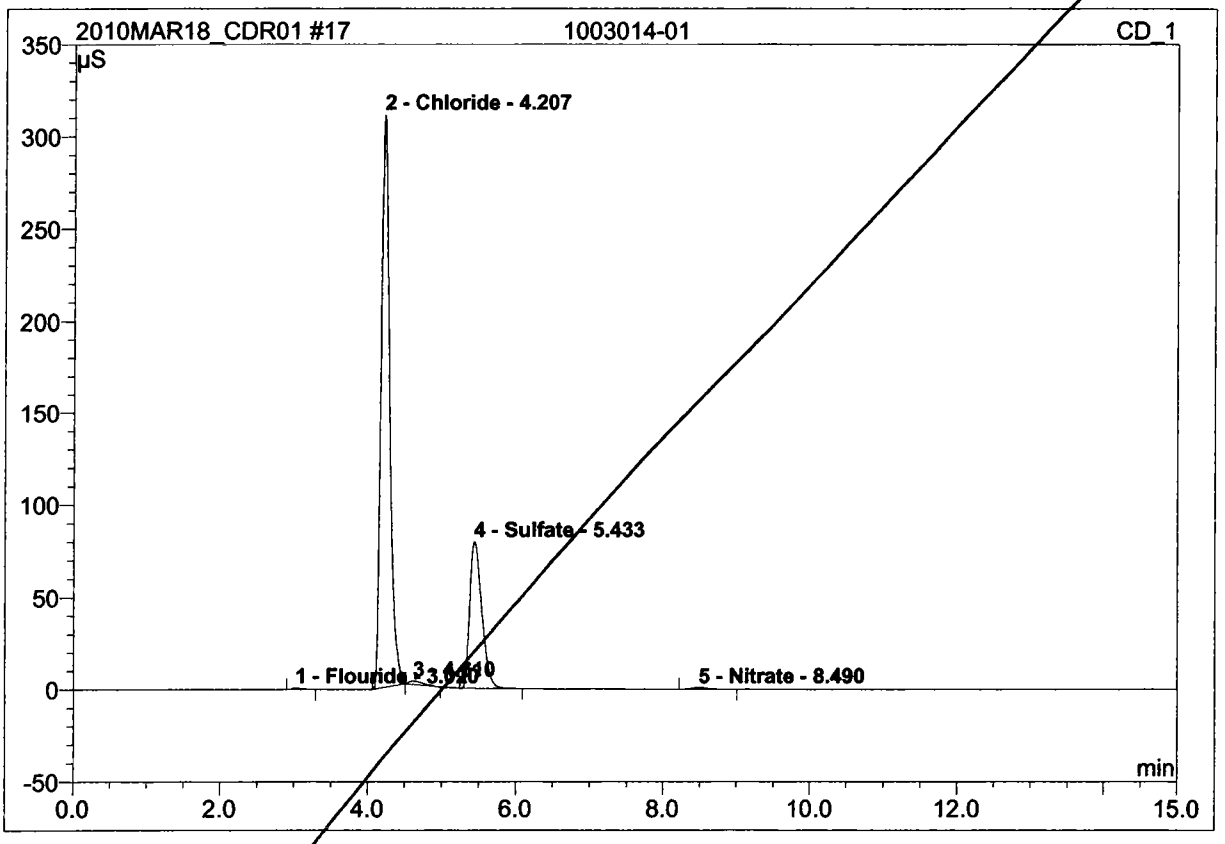


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.953	0.107	0.19	0.295	BMB
2	4.21	Chloride	305.978	40.448	72.34	149.059	BMb
3	4.62	n.a.	1.899	0.421	0.75	n.a.	bMB
4	5.45	Sulfate	77.897	14.733	26.35	74.848	BMB
5	8.49	Nitrate	0.972	0.206	0.37	1.544	BMB
Total:			387.698	55.915	100.00	225.747	

AA 4-14-10
not RCRA
data

17 1003014-01

Sample Name:	**1003014-01**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 11:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

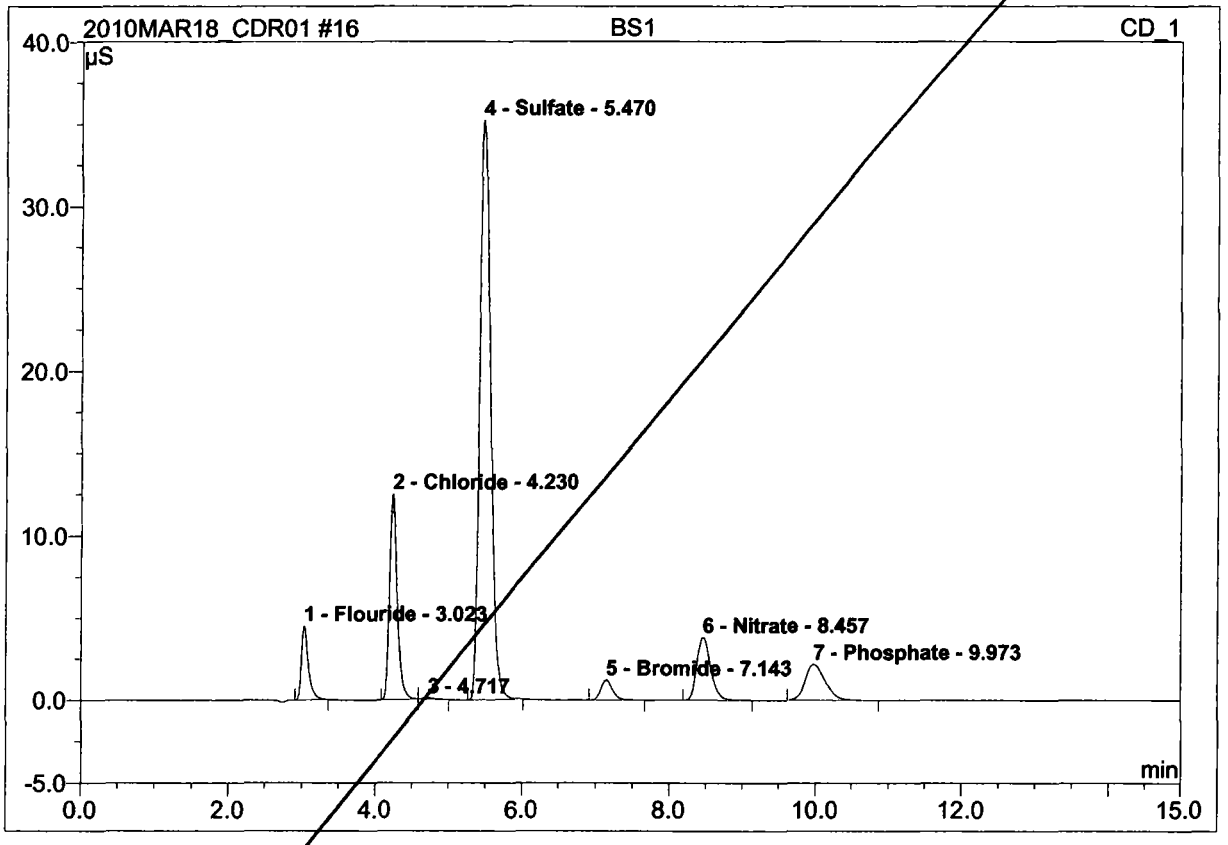


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.969	0.105	0.18	0.291	BMB
2	4.21	Chloride	311.004	41.133	72.32	151.583	BMb
3	4.61	n.a.	1.748	0.379	0.67	n.a.	bMB
4	5.43	Sulfate	79.520	15.050	26.46	76.456	BMB
5	8.49	Nitrate	0.995	0.212	0.37	1.587	BMB
Total:			394.237	56.879	100.00	229.917	

16 BS1

Sample Name:	**BS1**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 10:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

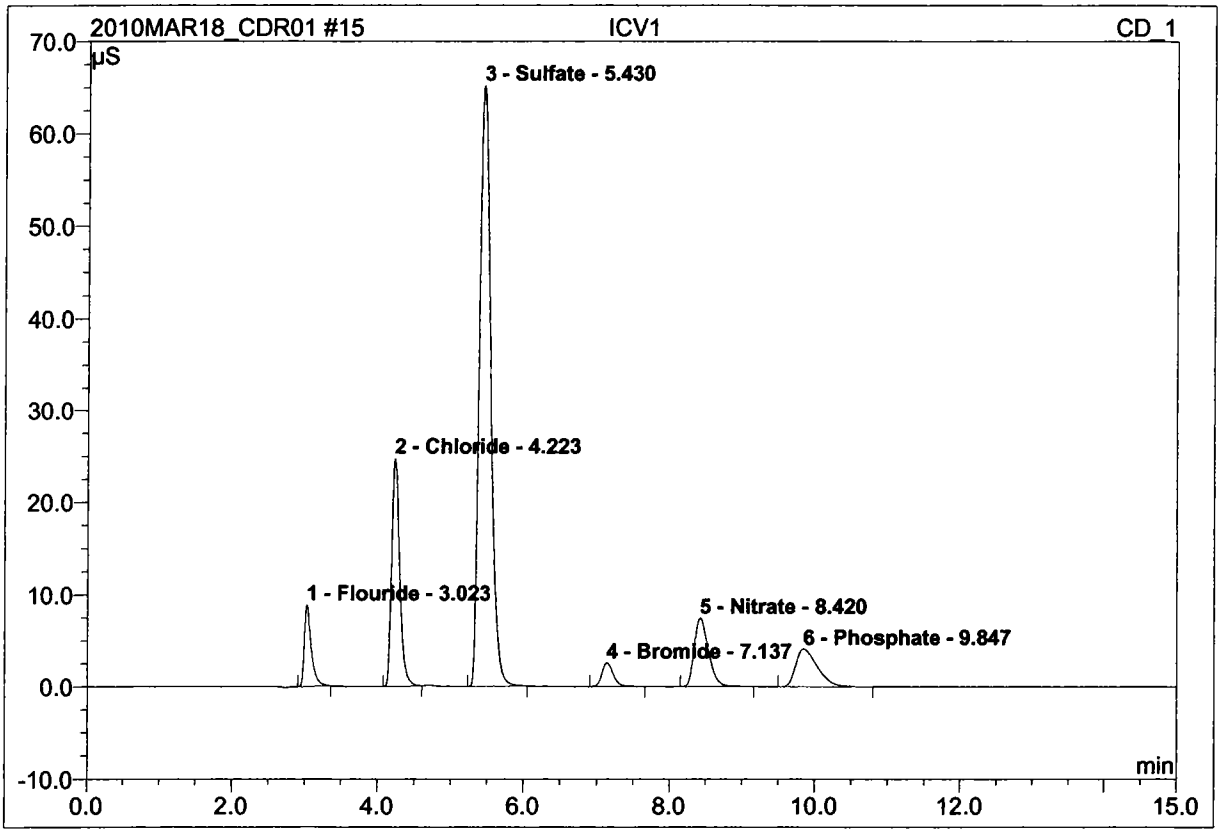
AA 4-14-10 not RCRA data



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	4.511	0.487	4.98	1.141	BMB
2	4.23	Chloride	12.517	1.544	15.78	5.755	BMb
3	4.72	n.a.	0.095	0.015	0.15	n.a.	bMB
4	5.47	Sulfate	35.219	6.000	61.32	30.453	BMB
5	7.14	Bromide	1.220	0.218	2.23	2.197	BMB
6	8.46	Nitrate	3.812	0.827	8.46	5.799	BMB
7	9.97	Phosphate	2.173	0.693	7.09	8.948	BMB
Total:			59.549	9.786	100.00	54.293	

15 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 10:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

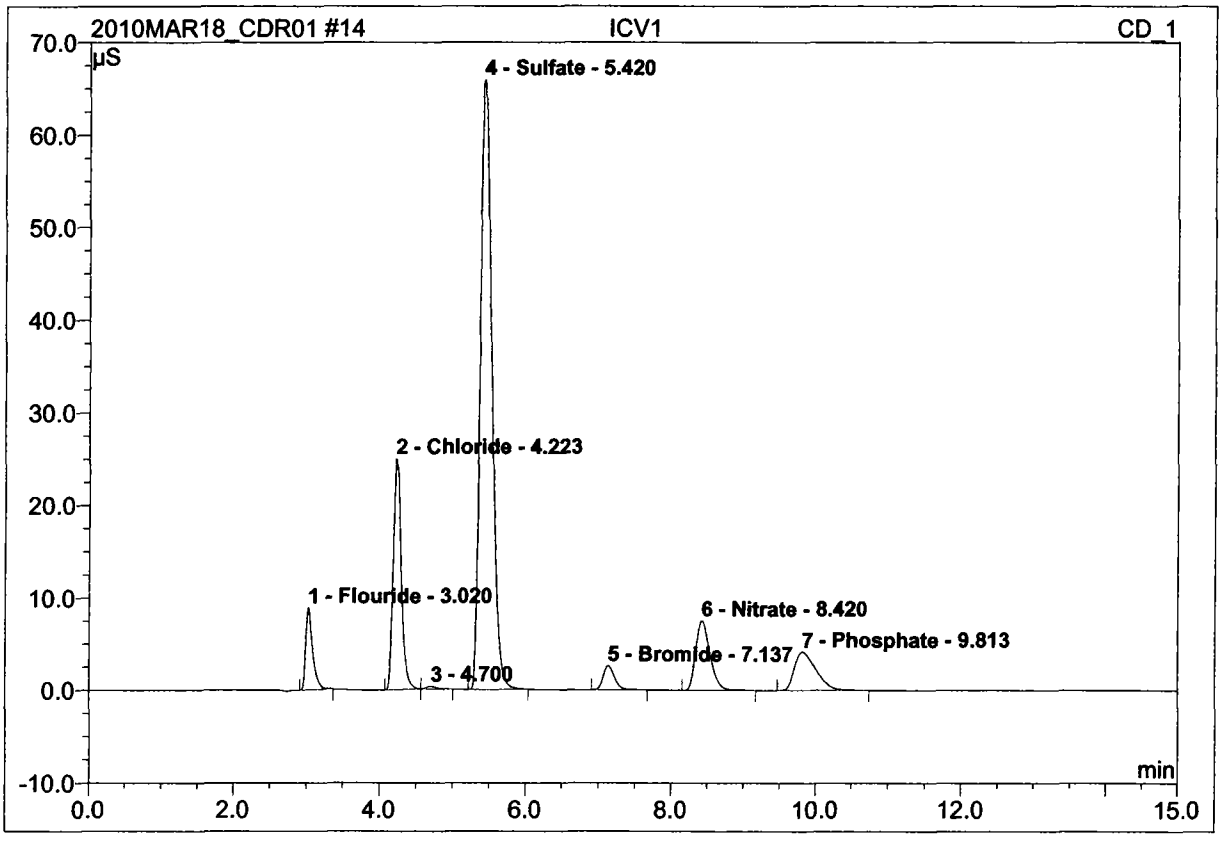


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	8.908	0.982	5.04	2.251	BMB
2	4.22	Chloride	24.770	3.103	15.94	11.496	BMB
3	5.43	Sulfate	65.214	11.831	60.76	60.092	BMB
4	7.14	Bromide	2.572	0.458	2.35	4.395	BMB
5	8.42	Nitrate	7.482	1.696	8.71	11.691	BMB
6	9.85	Phosphate	4.094	1.402	7.20	17.598	BMB
Total:			113.041	19.471	100.00	107.523	

14 ICV1

not reported 3-19-10 AA

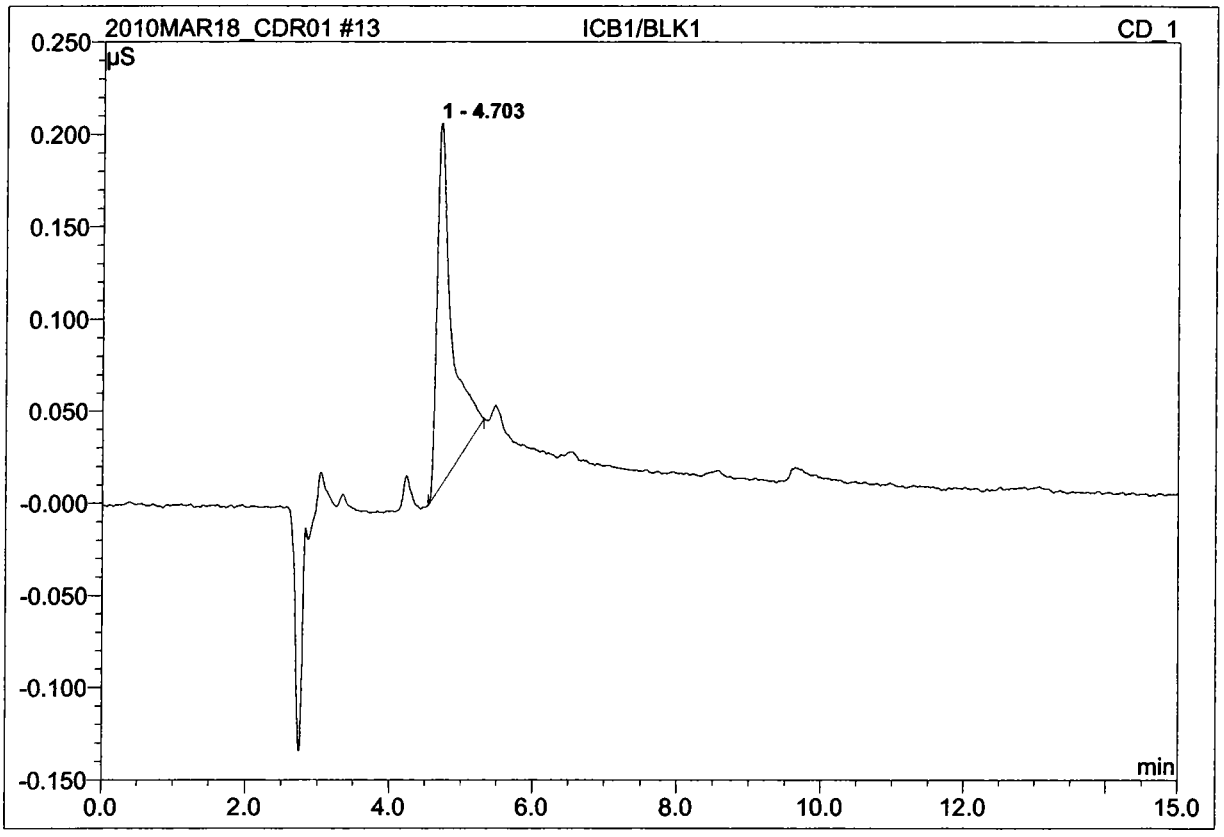
Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 10:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	8.933	0.991	5.02	2.272	BMB
2	4.22	Chloride	25.000	3.131	15.87	11.600	BMB
3	4.70	n.a.	0.327	0.055	0.28	n.a.	bMB
4	5.42	Sulfate	65.871	11.947	60.56	60.681	BMB
5	7.14	Bromide	2.592	0.463	2.35	4.443	BMB
6	8.42	Nitrate	7.554	1.717	8.70	11.834	BMB
7	9.81	Phosphate	4.157	1.424	7.22	17.868	BMB
Total:			114.435	19.728	100.00	108.698	

13 ICB1/BLK1

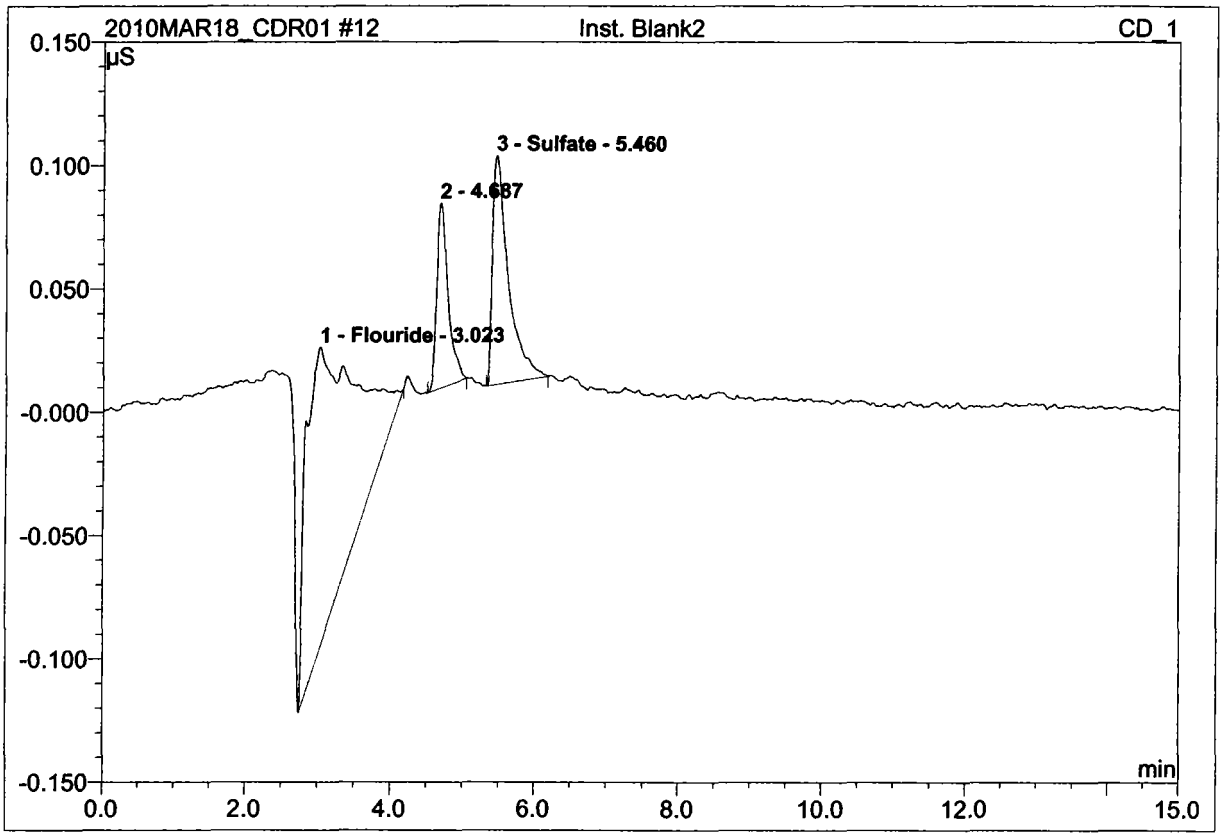
Sample Name:	**ICB1/BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 10:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.70	n.a.	0.197	0.046	100.00	n.a.	BMB
Total:			0.197	0.046	100.00	0.000	

12 Inst. Blank2

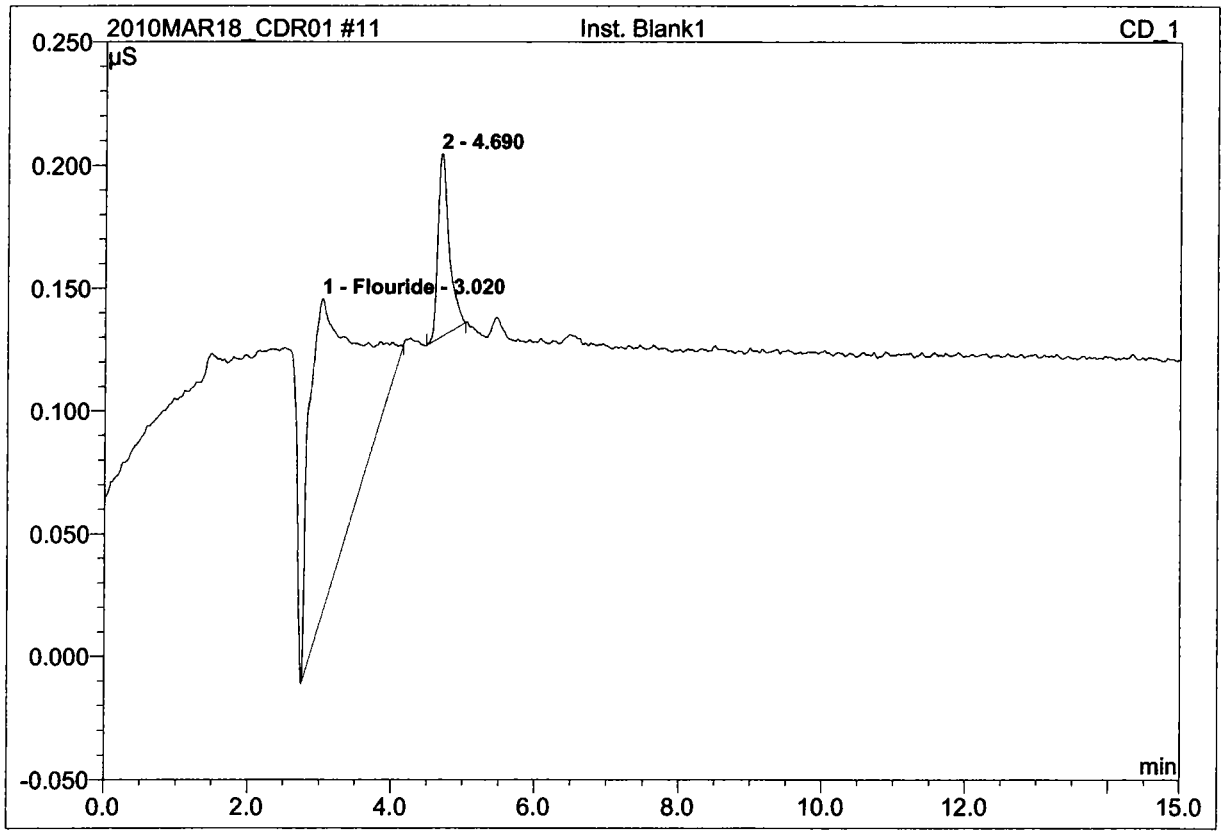
Sample Name:	**Inst. Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 9:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.122	0.091	70.73	0.260	BMB
2	4.69	n.a.	0.075	0.014	10.68	n.a.	BMB
3	5.46	Sulfate	0.093	0.024	18.58	0.070	BMB
Total:			0.290	0.128	100.00	0.330	

11 Inst. Blank1

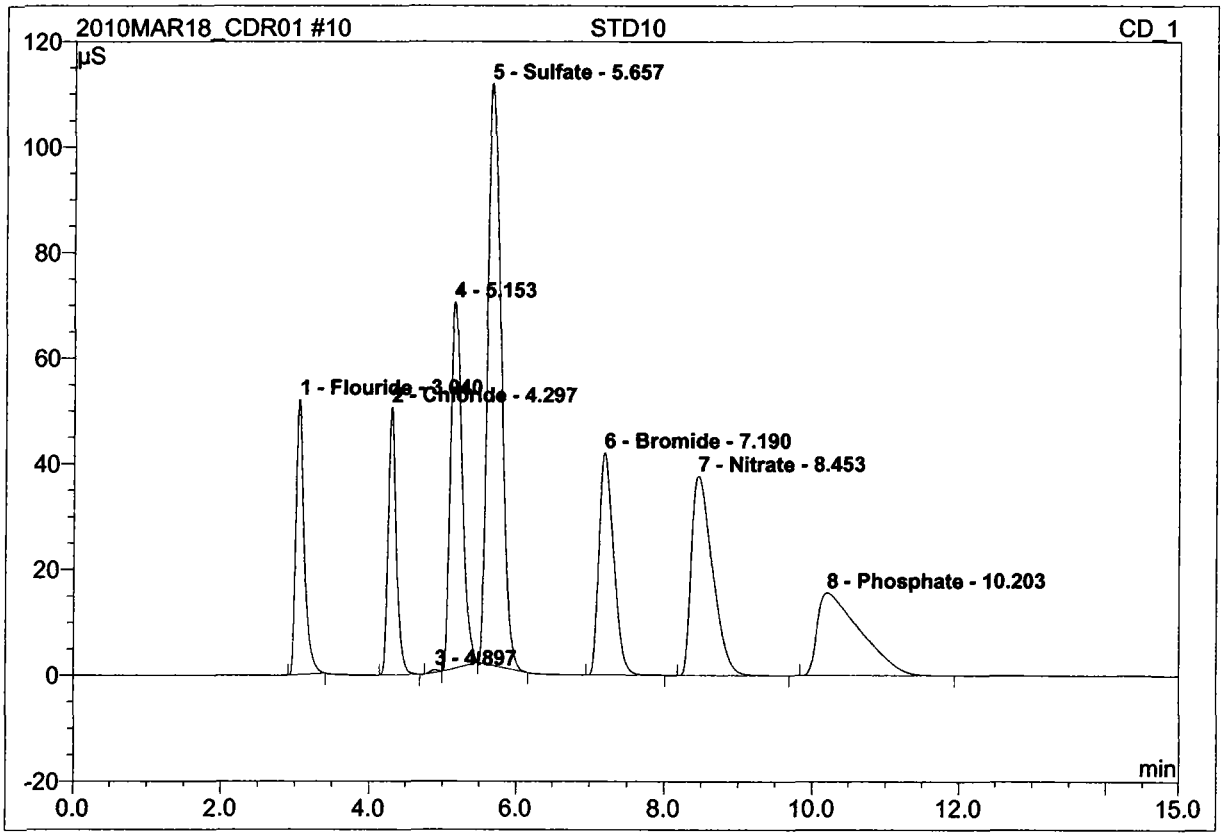
Sample Name:	**Inst. Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/18/2010 9:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.02	Flouride	0.129	0.093	87.33	0.265	BMB
2	4.69	n.a.	0.074	0.013	12.67	n.a.	BMB
Total:			0.204	0.106	100.00	0.265	

10 STD10

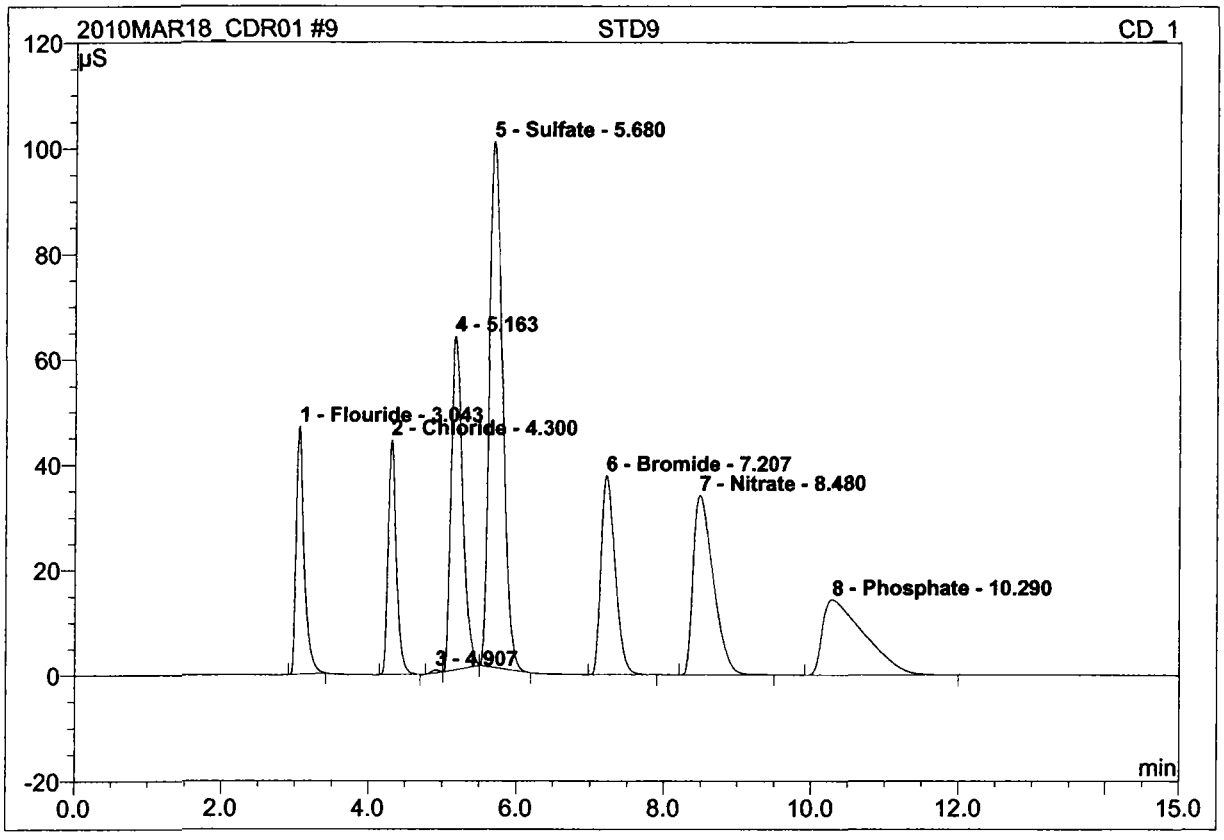
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	52.094	6.522	7.96	15.946	BMB
2	4.30	Chloride	50.719	6.560	8.01	24.231	BMB
3	4.90	n.a.	0.576	0.074	0.09	n.a.	BMB
4	5.15	n.a.	69.414	12.617	15.41	n.a.	bMb
5	5.66	Sulfate	110.093	23.530	28.73	119.564	bMB
6	7.19	Bromide	42.040	9.672	11.81	59.186	BMB
7	8.45	Nitrate	37.627	12.351	15.08	79.399	BMB
8	10.20	Phosphate	15.614	10.569	12.91	113.944	BMB
Total:			378.176	81.896	100.00	412.270	

9 STD9

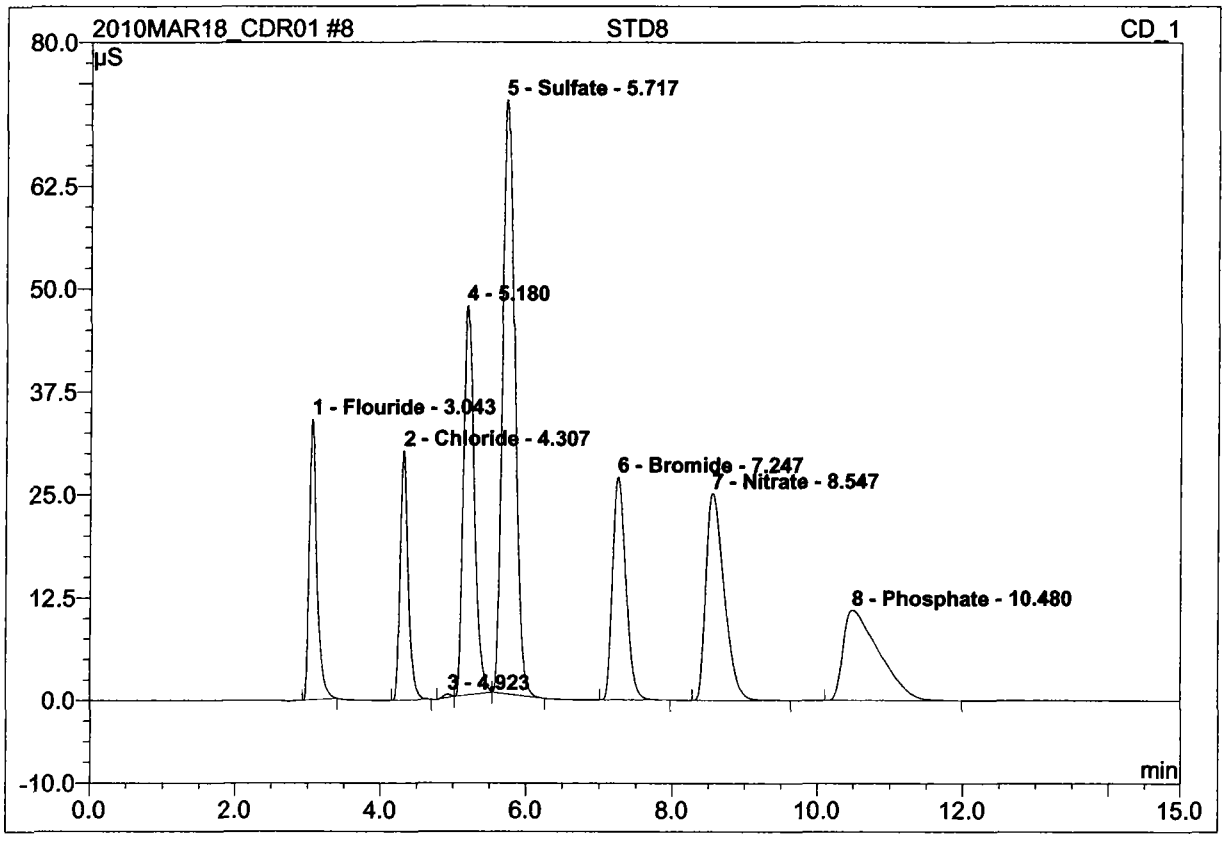
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	47.100	5.826	8.02	14.076	BMB
2	4.30	Chloride	44.638	5.766	7.94	21.305	BMB
3	4.91	n.a.	0.526	0.066	0.09	n.a.	BMB
4	5.16	n.a.	63.418	11.355	15.64	n.a.	bMb
5	5.68	Sulfate	99.857	20.913	28.80	106.261	bMB
6	7.21	Bromide	37.833	8.494	11.70	53.820	BMB
7	8.48	Nitrate	34.153	10.849	14.94	70.312	BMB
8	10.29	Phosphate	14.370	9.343	12.87	102.353	BMB
Total:			341.894	72.611	100.00	368.125	

8 STD8

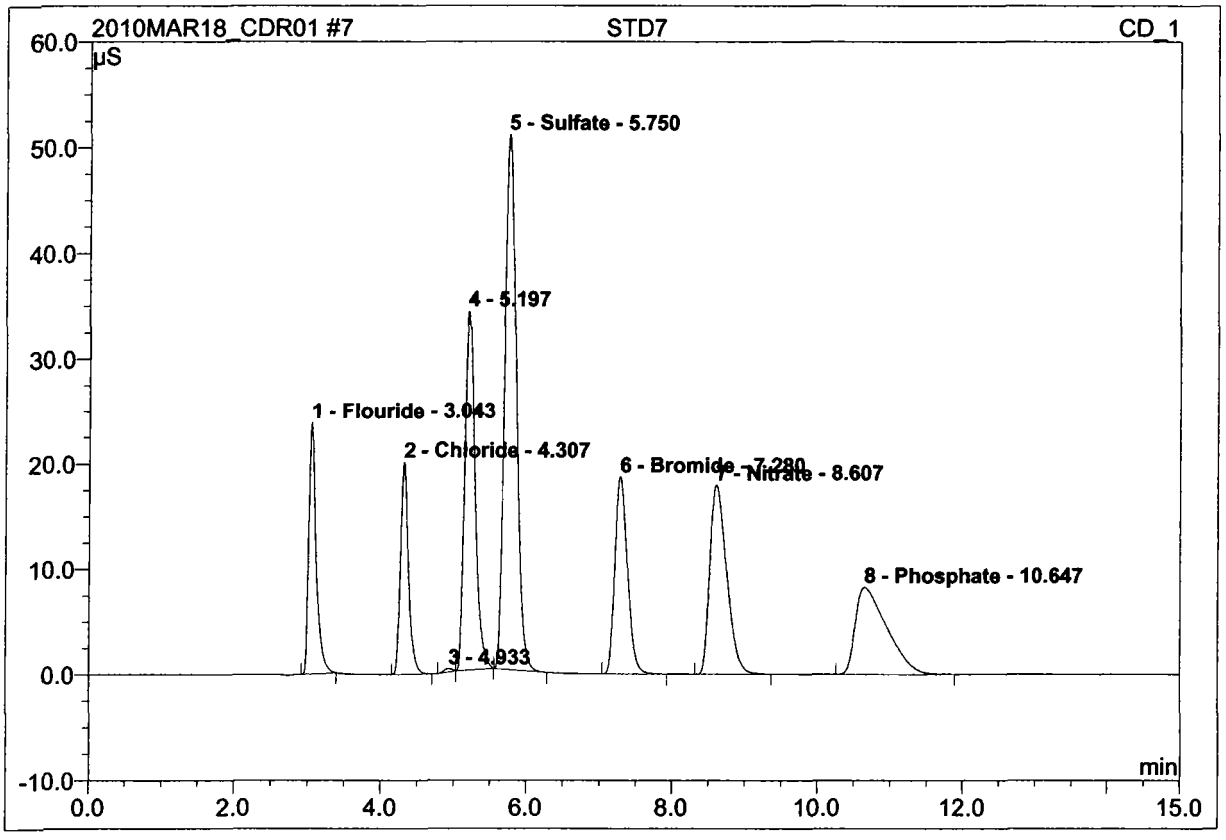
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	34.146	4.072	8.20	9.575	BMB
2	4.31	Chloride	30.331	3.887	7.83	14.384	BMB
3	4.92	n.a.	0.418	0.053	0.11	n.a.	BMb
4	5.18	n.a.	47.383	8.112	16.34	n.a.	bMb
5	5.72	Sulfate	72.243	14.233	28.67	72.302	bMB
6	7.25	Bromide	27.082	5.730	11.54	39.969	BMB
7	8.55	Nitrate	25.154	7.314	14.73	48.374	BMB
8	10.48	Phosphate	10.985	6.242	12.57	71.501	BMB
Total:			247.743	49.644	100.00	256.105	

7 STD7

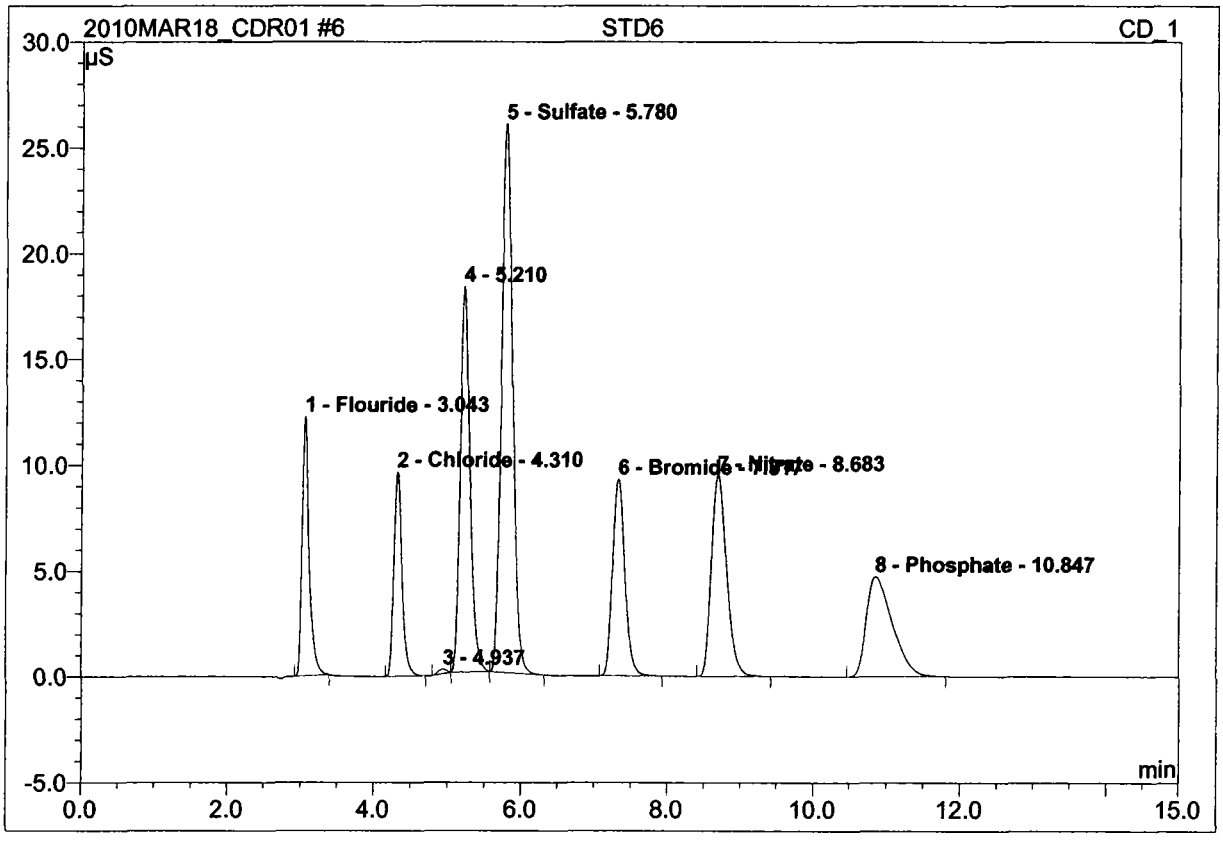
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	23.883	2.784	8.36	6.437	BMB
2	4.31	Chloride	20.150	2.574	7.73	9.547	BMB
3	4.93	n.a.	0.320	0.040	0.12	n.a.	BMb
4	5.20	n.a.	34.127	5.630	16.90	n.a.	bMB
5	5.75	Sulfate	50.783	9.541	28.64	48.450	BMB
6	7.28	Bromide	18.712	3.791	11.38	28.796	BMB
7	8.61	Nitrate	17.983	4.834	14.51	32.472	BMB
8	10.65	Phosphate	8.259	4.121	12.37	48.868	BMB
Total:			174.218	33.314	100.00	174.570	

6 STD6

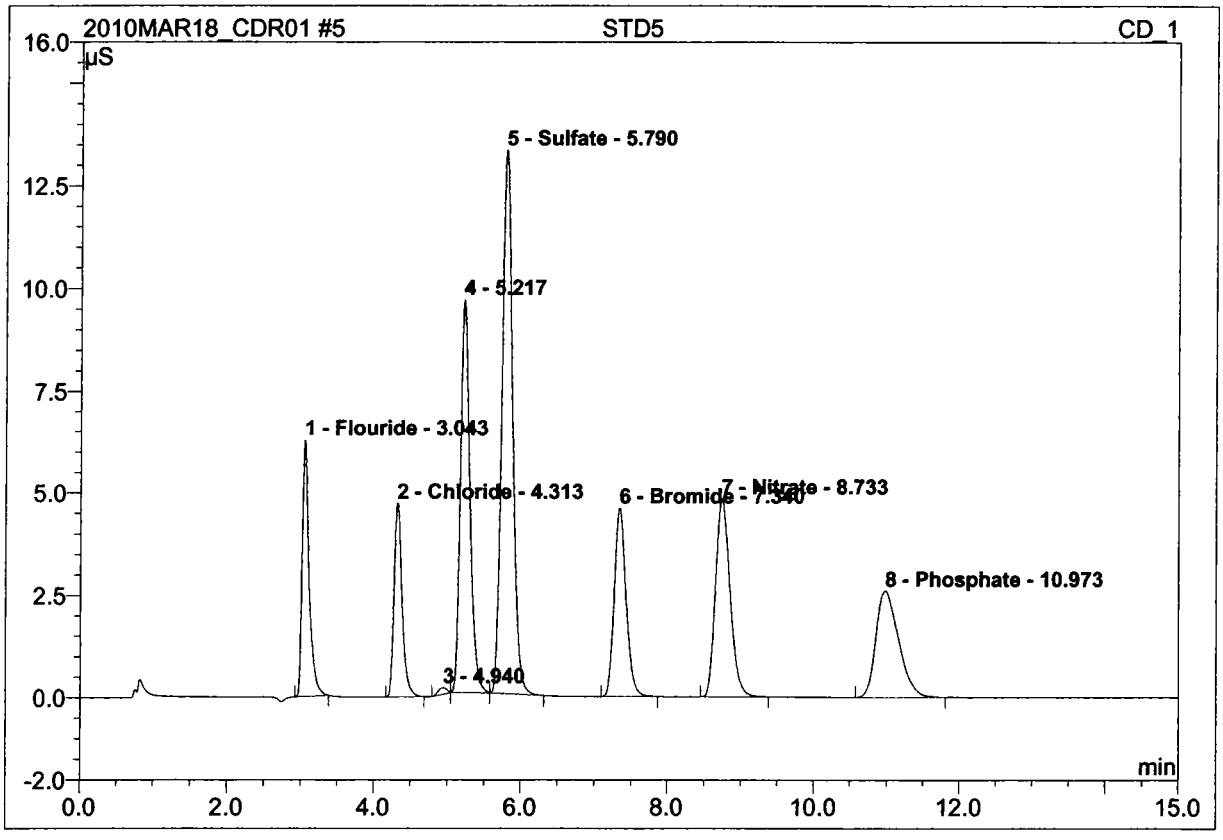
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	12.279	1.376	8.52	3.148	BMB
2	4.31	Chloride	9.681	1.221	7.57	4.564	BMB
3	4.94	n.a.	0.224	0.029	0.18	n.a.	BMB
4	5.21	n.a.	18.247	2.851	17.66	n.a.	bMB
5	5.78	Sulfate	25.949	4.617	28.61	23.421	BMB
6	7.32	Bromide	9.304	1.800	11.15	15.338	BMB
7	8.68	Nitrate	9.490	2.314	14.34	15.847	BMB
8	10.85	Phosphate	4.745	1.933	11.98	23.935	BMB
Total:			89.918	16.141	100.00	86.254	

5 STD5

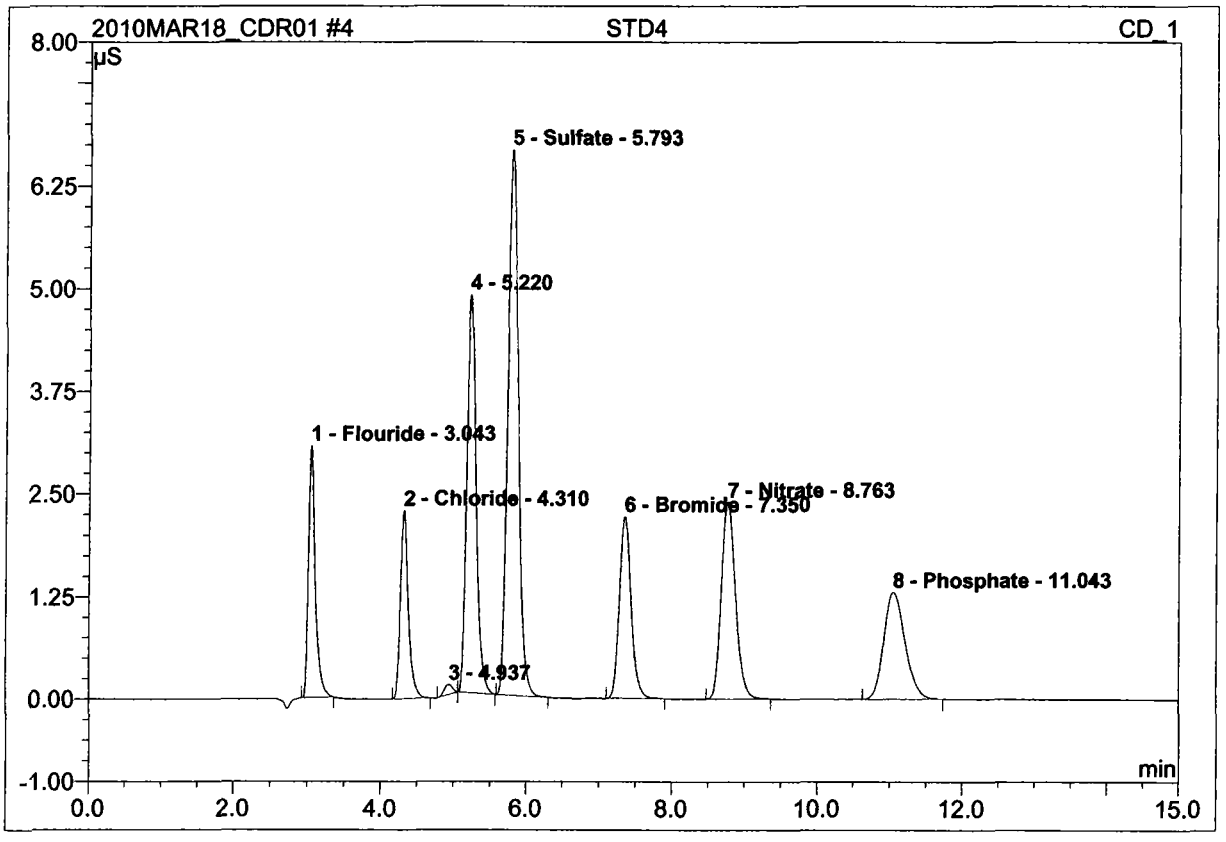
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	6.266	0.684	8.59	1.580	BMB
2	4.31	Chloride	4.732	0.592	7.44	2.247	BMB
3	4.94	n.a.	0.158	0.021	0.26	n.a.	BMB
4	5.22	n.a.	9.606	1.445	18.16	n.a.	BMB
5	5.79	Sulfate	13.277	2.292	28.80	11.603	BMB
6	7.34	Bromide	4.609	0.872	10.96	7.996	BMB
7	8.73	Nitrate	4.840	1.120	14.07	7.788	BMB
8	10.97	Phosphate	2.600	0.934	11.74	11.916	BMB
Total:			46.089	7.960	100.00	43.131	

4 STD4

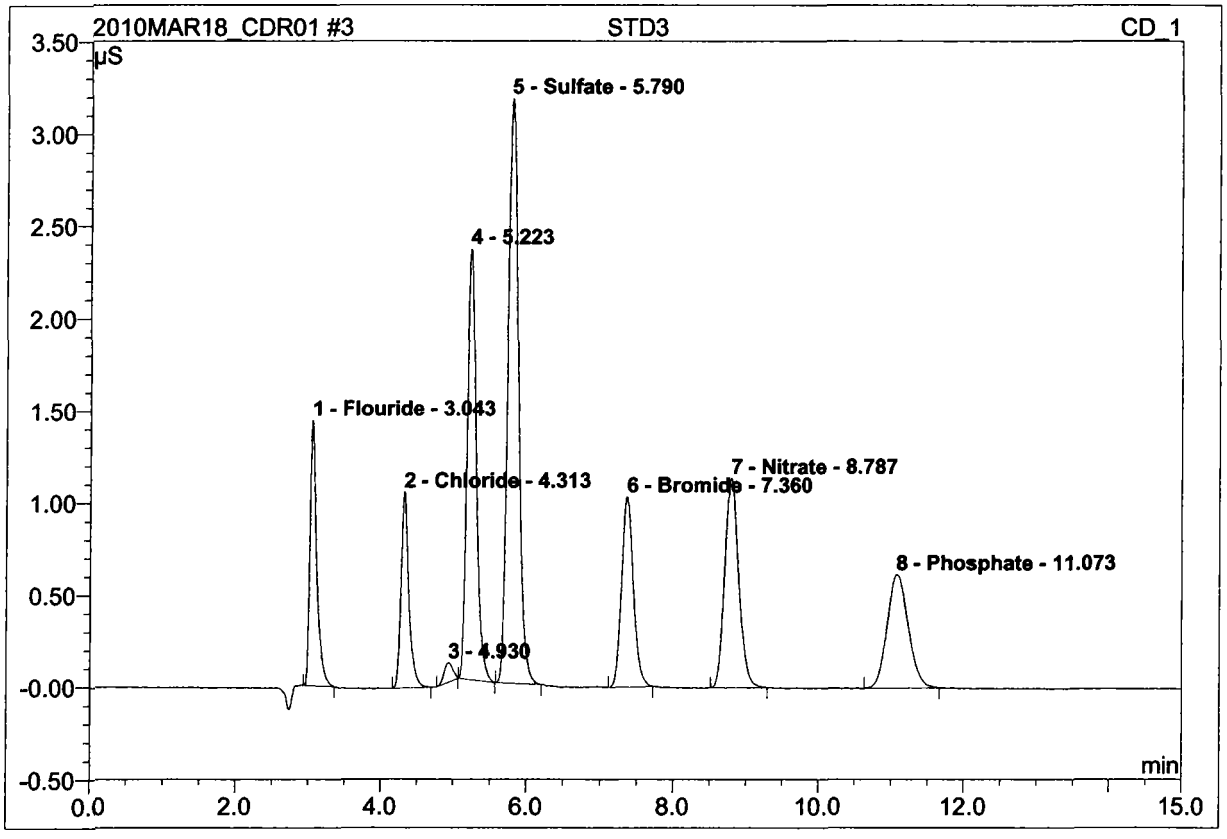
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	3.074	0.330	8.51	0.790	BMB
2	4.31	Chloride	2.297	0.287	7.40	1.123	BMB
3	4.94	n.a.	0.126	0.017	0.43	n.a.	BMb
4	5.22	n.a.	4.857	0.711	18.35	n.a.	bMB
5	5.79	Sulfate	6.648	1.127	29.08	5.679	BMB
6	7.35	Bromide	2.219	0.417	10.76	4.025	BMB
7	8.76	Nitrate	2.400	0.542	13.99	3.850	BMB
8	11.04	Phosphate	1.308	0.445	11.49	5.865	BMB
Total:			22.930	3.876	100.00	21.332	

3 STD3

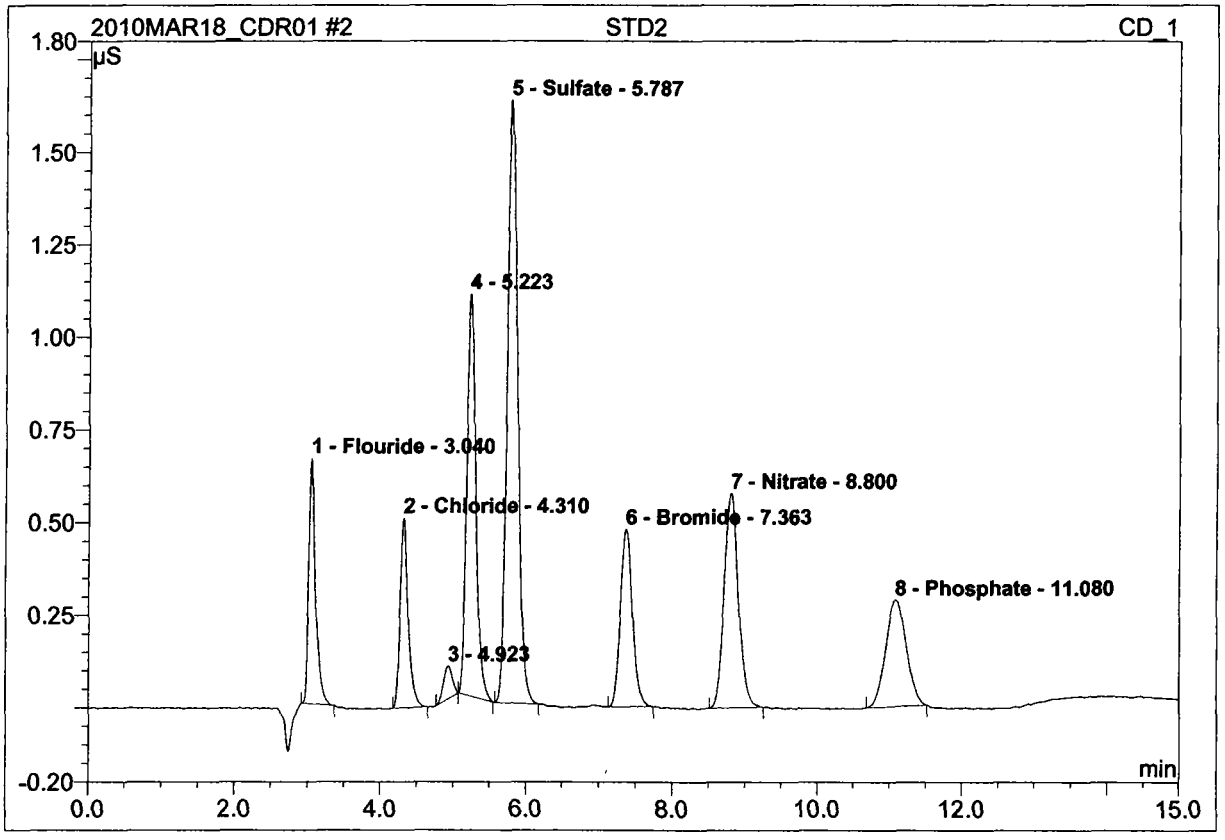
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	1.441	0.154	8.40	0.399	BMB
2	4.31	Chloride	1.064	0.134	7.36	0.561	BMB
3	4.93	n.a.	0.106	0.015	0.80	n.a.	BMB
4	5.22	n.a.	2.336	0.337	18.44	n.a.	BMB
5	5.79	Sulfate	3.174	0.531	29.05	2.648	BMB
6	7.36	Bromide	1.032	0.193	10.59	1.963	BMB
7	8.79	Nitrate	1.137	0.256	13.98	1.883	BMB
8	11.07	Phosphate	0.617	0.208	11.37	2.884	BMB
Total:			10.907	1.827	100.00	10.338	

2 STD2

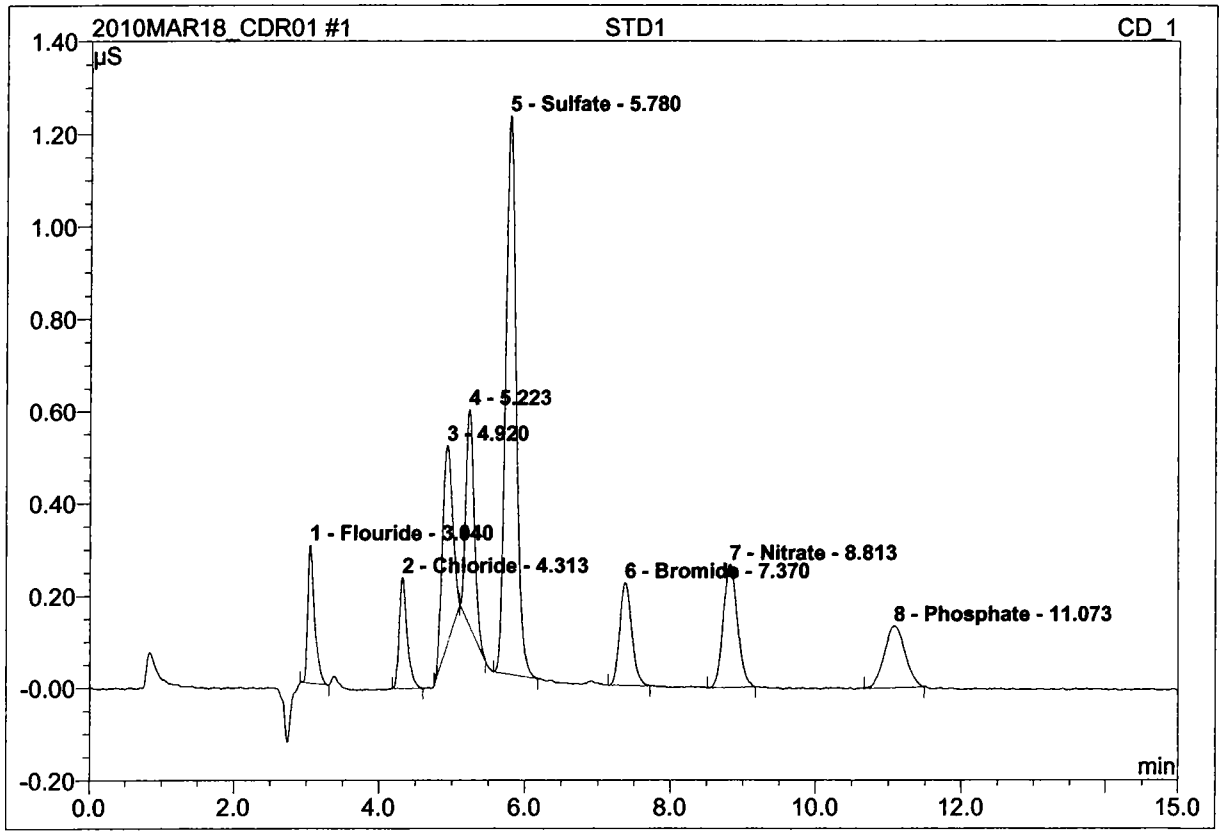
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.663	0.072	7.97	0.218	BMB
2	4.31	Chloride	0.514	0.066	7.33	0.308	BMB
3	4.92	n.a.	0.090	0.012	1.39	n.a.	BMb
4	5.22	n.a.	1.085	0.157	17.47	n.a.	bMB
5	5.79	Sulfate	1.627	0.273	30.44	1.337	BMB
6	7.36	Bromide	0.480	0.091	10.18	0.991	BMB
7	8.80	Nitrate	0.579	0.131	14.63	1.028	BMB
8	11.08	Phosphate	0.288	0.095	10.59	1.457	BMB
Total:			5.326	0.897	100.00	5.340	

1 STD1

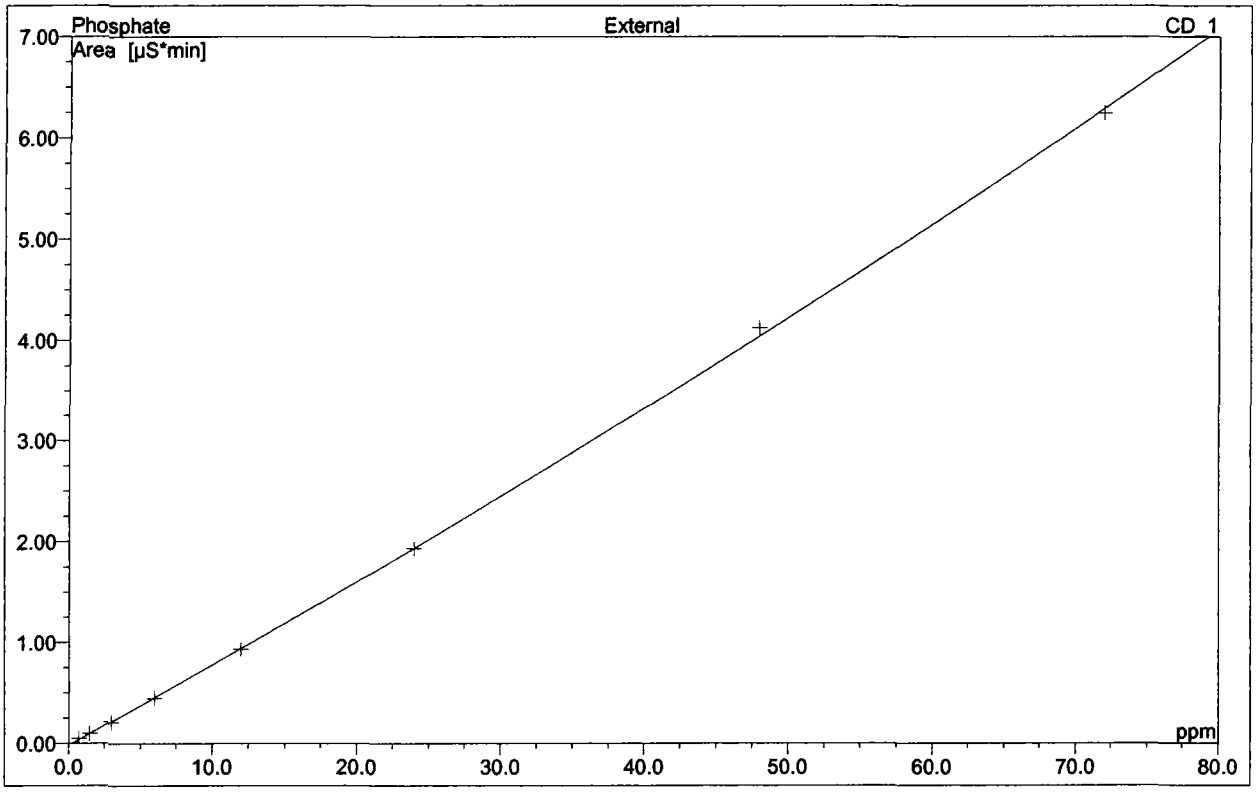
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.301	0.032	5.87	0.131	BMB
2	4.31	Chloride	0.241	0.031	5.61	0.179	BMB
3	4.92	n.a.	0.435	0.070	12.87	n.a.	BMb
4	5.22	n.a.	0.467	0.062	11.37	n.a.	bMB
5	5.78	Sulfate	1.211	0.204	37.28	0.986	BMB
6	7.37	Bromide	0.223	0.043	7.83	0.524	BMB
7	8.81	Nitrate	0.267	0.061	11.07	0.542	BMB
8	11.07	Phosphate	0.135	0.044	8.11	0.816	BMB
Total:			3.281	0.547	100.00	3.179	

5 STD5

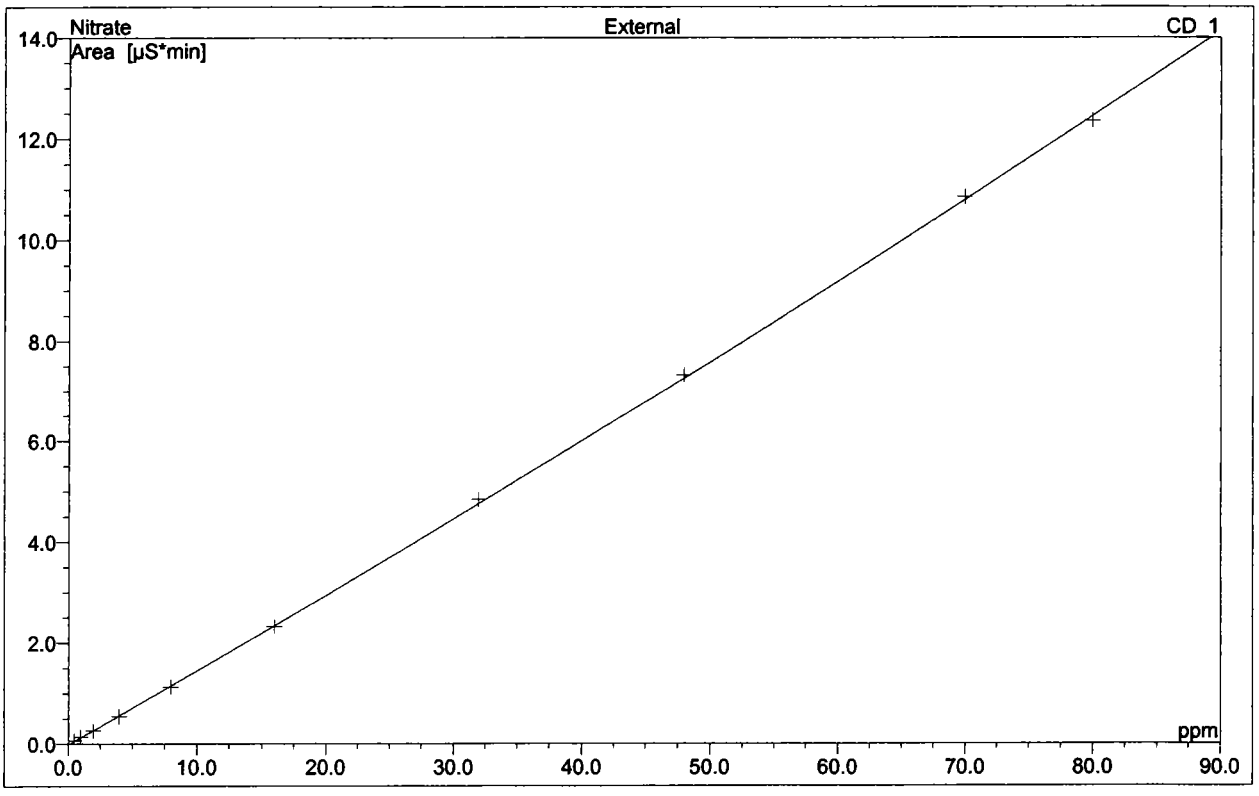
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

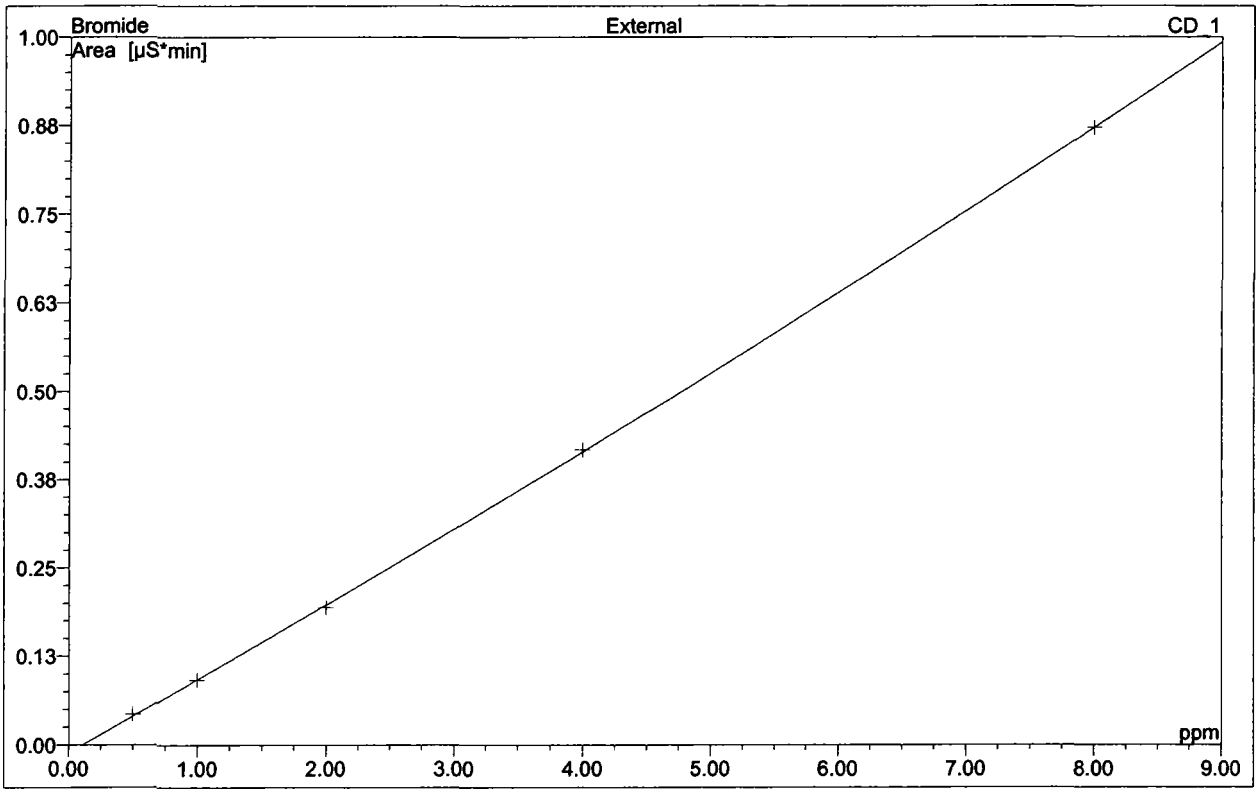
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

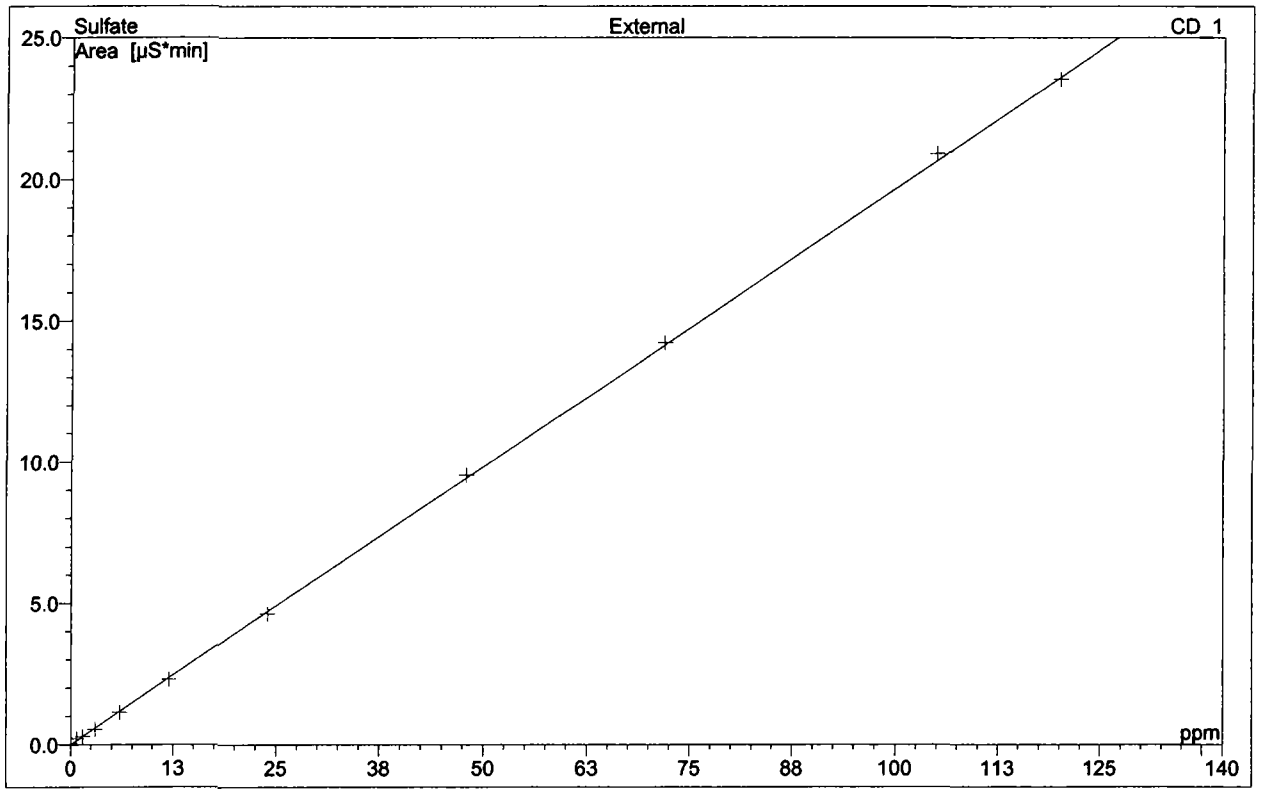
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

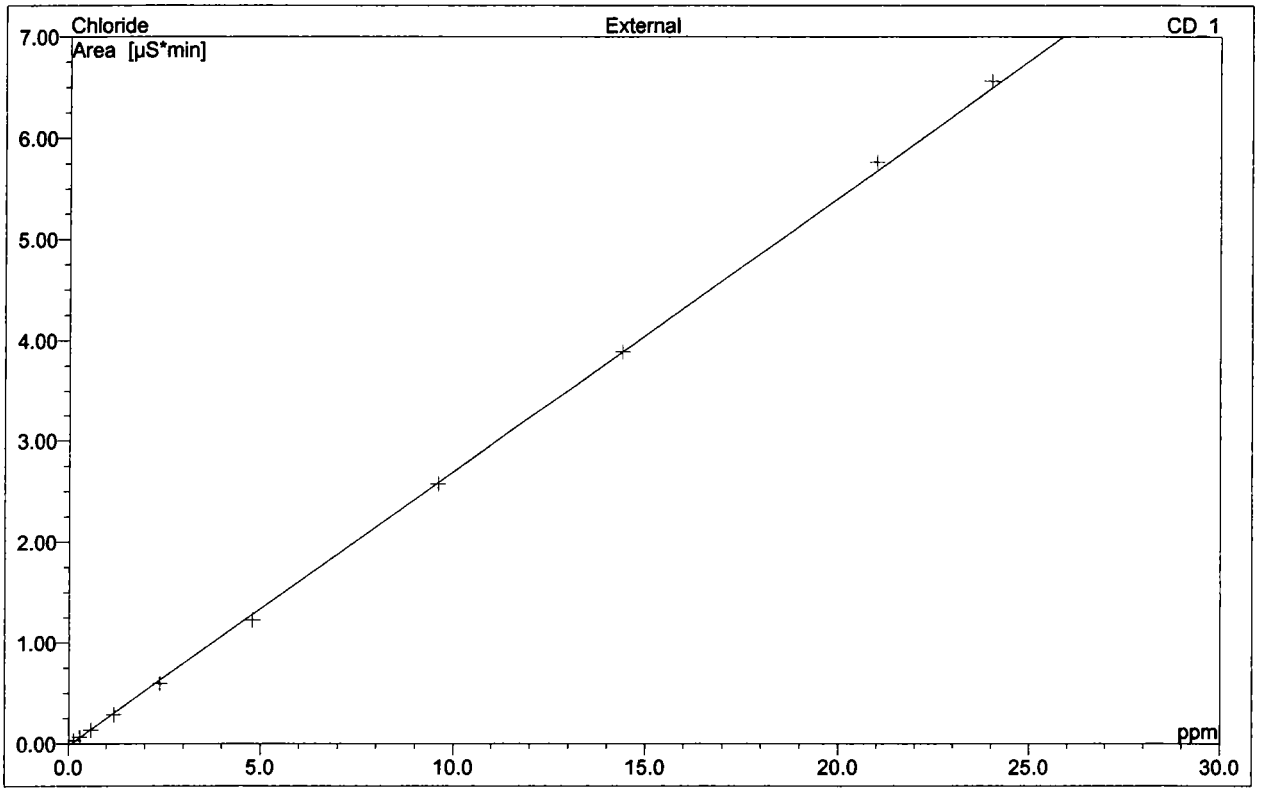
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

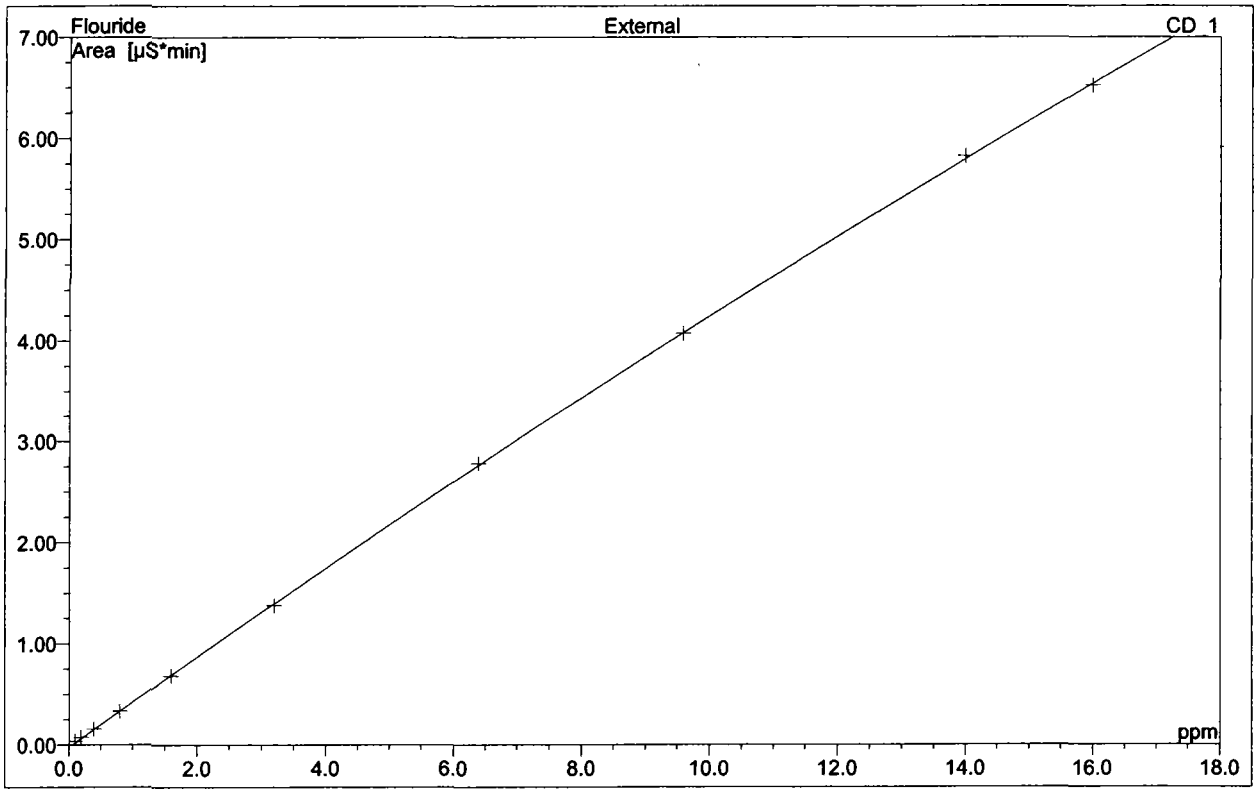
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib. Comment
1	☒	*STD1*	*Ok*
2	☒	STD2	Ok
3	☒	STD3	Ok
4	☒	STD4	Ok
5	☒	STD5	Ok
6	☒	STD6	Ok
7	☒	STD7	Ok
8	☒	STD8	Ok
9	☒	STD9	Ok
10	☒	STD1	Ok

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	STD1	1	2	25.0	1.0000	1.0000	1.0000	12/8/2009 12:05:44 P	
2	☒	STD2	2	3	25.0	1.0000	1.0000	1.0000	12/8/2009 12:24:13 P	
3	☒	STD3	3	4	25.0	1.0000	1.0000	1.0000	12/8/2009 12:42:41 P	
4	☒	STD4	4	5	25.0	1.0000	1.0000	1.0000	12/8/2009 1:01:09 P	
5	☒	STD5	5	6	25.0	1.0000	1.0000	1.0000	12/8/2009 1:19:38 P	
6	☒	STD6	6	7	25.0	1.0000	1.0000	1.0000	12/8/2009 1:38:06 P	
7	☒	STD7	7	8	25.0	1.0000	1.0000	1.0000	12/8/2009 1:56:34 P	
8	☒	STD8	8	9	25.0	1.0000	1.0000	1.0000	12/8/2009 2:15:03 P	
9	☒	STD9	9	10	25.0	1.0000	1.0000	1.0000	12/8/2009 2:33:31 P	
10	☒	STD1	10	11	25.0	1.0000	1.0000	1.0000	12/8/2009 2:51:59 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.300 min			
5	Nitrate	8.700 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.300 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.700 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.300 min	4.000000	8.000000					
5	Nitrate	8.700 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.200 AG	External	Area	XLOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.300 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.700 min	0.600 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	2.600	Inhibit Integration	Off	All Channels

Program File:	Anions_AS18	Printed: 3/19/2010 8:57:39 AM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:39:18 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
Column_TC.ReleaseExclusiveAccess
End
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR18_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
        Sampler.AcquireExclusiveAccess
        Sampler_DiverterValve.Position_2
        Column_TC.AcquireExclusiveAccess
        Compartment_TC.AcquireExclusiveAccess
        Flush                                   Volume    250
        Pressure.LowerLimit                     200 [psi]
        Pressure.UpperLimit                     3000 [psi]
        MaximumFlowRamp =                       6.00  ml/min²
        %A.Equate =                             "%A"
        CR_TC =                                 On
        Wait                                    FlushState
        Data_Collection_Rate                    5.0  Hz
        Temperature_Compensation =              1.   %/°C
        Cell Heater.TemperatureSet              35.0 [°C]
        Suppressor1.Type =                      ASRS 4mm
        CurrentSet =                            80  mA
        Concentration =                         32.00 [mM]
        EGC_1.Curve =                           5
        Flow                                    1.00  ml/min
        Pump_1.Curve =                          5
        NeedleHeight                            2  mm
        CutSegmentVolume =                      10  µl
        SyringeSpeed                            4
        CycleTime                               6  min
        WaitForTemperature                      False
        Cell Heater.Mode                        = On
        ; Suppressor1.Carbonate =               5.0
        ; Suppressor1.Bicarbonate =             0.0
        ; Suppressor1.Hydroxide =               32.0
        ; Suppressor1.Tetraborate               0.0
        ; Suppressor1.Other Eluent =            0.
        ; Suppressor1.Recommended Current =                    8
        Wait                                    SampleReady

.000    CDet_1.Autozero
        Load
        Wait                                    CycleTimeState
        Inject
        Wait                                    InjectState
        CD_1.Acqon
        Sampler.ReleaseExclusiveAccess

1.000   CD_1.Acqoff
        Compartment_TC.ReleaseExclusiveAccess
```

Sequence: 2010MAR18_CDR01
Operator: Aaleszc2
Printed: 3/19/2010 8:57:38 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 46

Created: 3/18/2010 8:51:25 AM by Aaleszc2
Last Update: 3/19/2010 8:57:27 AM by Aaleszc2

No.	Name	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000		01	
2	STD2	1.0000		01	
3	STD3	1.0000		01	
4	STD4	1.0000		01	
5	STD5	1.0000		01	
6	STD6	1.0000		01	
7	STD7	1.0000		01	
8	STD8	1.0000		01	
9	STD9	1.0000		01	
10	STD10	1.0000		01	
11	Inst. Blank1	1.0000		01	
12	Inst. Blank2	1.0000		01	
13	ICB1/BLK1	1.0000		01	
14	ICV1	1.0000		01	
15	ICV1	1.0000		01	
16	BS1	1.0000		01	
17	1003014-01	1.0000		01	
18	1003014-01 DUP1	1.0000		01	
19	1003014-01 MS1	1.0000		01	
20	1003014-02	1.0000		01	
21	1003014-03	1.0000		01	
22	1003014-04	1.0000		01	
23	1003014-05	1.0000		01	
24	1003014-06	1.0000		01	
25	BLK1 (SOIL)	1.0000		01	
26	BS1 (SOIL)	1.0000		01	
27	0910013-04	1.0000		01	
28	0910013-04 DUP	1.0000		01	
29	0910013-04 MS	1.0000		01	
30	0910013-01	1.0000		01	
31	0910013-02	1.0000		01	
32	0910013-03	1.0000		01	
33	0910013-05	1.0000		01	
34	0910013-06	1.0000		01	
35	0910013-07	1.0000		01	
36	0910013-08	1.0000		01	
37	0910013-09	1.0000		01	
38	0910013-10	1.0000		01	
39	0910013-11	1.0000		01	
40	0910013-12	1.0000		01	
41	0910013-13	1.0000		01	
42	0910013-14	1.0000		01	
43	Inst. Blank3	1.0000		01	
44	CCB1	1.0000		01	
45	CCV1	1.0000		01	
46	Inst. Blank4	1.0000		01	

Sequence: 2010MAR18_CDR01
Operator: Aaleszc2
Printed: 3/19/2010 8:57:38 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 46
Created: 3/18/2010 8:51:25 AM by Aaleszc2
Last Update: 3/19/2010 8:57:27 AM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	STD1	Standard	2	25.0	Anions_AS18	default	Finished	12/8/2009 12:05:44 PM	1.0000	1.0000
2	STD2	Standard	3	25.0	Anions_AS18	default	Finished	12/8/2009 12:24:13 PM	1.0000	1.0000
3	STD3	Standard	4	25.0	Anions_AS18	default	Finished	12/8/2009 12:42:41 PM	1.0000	1.0000
4	STD4	Standard	5	25.0	Anions_AS18	default	Finished	12/8/2009 1:01:09 PM	1.0000	1.0000
5	STD5	Standard	6	25.0	Anions_AS18	default	Finished	12/8/2009 1:19:38 PM	1.0000	1.0000
6	STD6	Standard	7	25.0	Anions_AS18	default	Finished	12/8/2009 1:38:06 PM	1.0000	1.0000
7	STD7	Standard	8	25.0	Anions_AS18	default	Finished	12/8/2009 1:56:34 PM	1.0000	1.0000
8	STD8	Standard	9	25.0	Anions_AS18	default	Finished	12/8/2009 2:15:03 PM	1.0000	1.0000
9	STD9	Standard	10	25.0	Anions_AS18	default	Finished	12/8/2009 2:33:31 PM	1.0000	1.0000
10	STD10	Standard	11	25.0	Anions_AS18	default	Finished	12/8/2009 2:51:59 PM	1.0000	1.0000
11	Inst. Blank1	Unknown	1	25.0	Anions_AS18	default	Finished	3/18/2010 9:01:13 AM	1.0000	1.0000
12	Inst. Blank2	Unknown	2	25.0	Anions_AS18	default	Finished	3/18/2010 9:19:41 AM	1.0000	1.0000
13	ICB1/BLK1	Unknown	4	25.0	Anions_AS18	default	Finished	3/18/2010 10:02:14 AM	1.0000	1.0000
~~14~~	~~ICV1~~	~~Unknown~~	~~5~~	~~25.0~~	~~Anions_AS18~~	~~default~~	~~Finished~~	~~3/18/2010 10:20:43 AM~~	~~1.0000~~	~~1.0000~~
15	ICV1	Unknown	5	25.0	Anions_AS18	default	Finished	3/18/2010 10:39:11 AM	1.0000	1.0000
16	BS1	Unknown	6	25.0	Anions_AS18	default	Finished	3/18/2010 10:57:39 AM	1.0000	1.0000
17	1003014-01	Unknown	7	25.0	Anions_AS18	default	Finished	3/18/2010 11:16:08 AM	1.0000	1.0000
18	1003014-01 DUP1	Unknown	8	25.0	Anions_AS18	default	Finished	3/18/2010 11:34:36 AM	1.0000	1.0000
19	1003014-01 MS1	Unknown	9	25.0	Anions_AS18	default	Finished	3/18/2010 11:53:04 AM	1.0000	1.0000
20	1003014-02	Unknown	10	25.0	Anions_AS18	default	Finished	3/18/2010 12:11:33 PM	1.0000	1.0000
21	1003014-03	Unknown	11	25.0	Anions_AS18	default	Finished	3/18/2010 12:30:01 PM	1.0000	1.0000
22	1003014-04	Unknown	12	25.0	Anions_AS18	default	Finished	3/18/2010 12:48:30 PM	1.0000	1.0000
23	1003014-05	Unknown	13	25.0	Anions_AS18	default	Finished	3/18/2010 1:06:59 PM	1.0000	1.0000
24	1003014-06	Unknown	14	25.0	Anions_AS18	default	Finished	3/18/2010 1:25:27 PM	1.0000	1.0000
25	BLK1 (SOIL)	Unknown	15	25.0	Anions_AS18	default	Finished	3/18/2010 1:43:55 PM	1.0000	1.0000
26	BS1 (SOIL)	Unknown	16	25.0	Anions_AS18	default	Finished	3/18/2010 2:02:23 PM	1.0000	1.0000
27	0910013-04	Unknown	17	25.0	Anions_AS18	default	Finished	3/18/2010 2:20:51 PM	1.0000	1.0000
28	0910013-04 DUP	Unknown	18	25.0	Anions_AS18	default	Finished	3/18/2010 2:39:20 PM	1.0000	1.0000
29	0910013-04 MS	Unknown	19	25.0	Anions_AS18	default	Finished	3/18/2010 2:57:48 PM	1.0000	1.0000
30	0910013-01	Unknown	20	25.0	Anions_AS18	default	Finished	3/18/2010 3:16:16 PM	1.0000	1.0000
31	0910013-02	Unknown	21	25.0	Anions_AS18	default	Finished	3/18/2010 3:34:45 PM	1.0000	1.0000
32	0910013-03	Unknown	22	25.0	Anions_AS18	default	Finished	3/18/2010 3:53:13 PM	1.0000	1.0000
33	0910013-05	Unknown	23	25.0	Anions_AS18	default	Finished	3/18/2010 4:11:42 PM	1.0000	1.0000
34	0910013-06	Unknown	24	25.0	Anions_AS18	default	Finished	3/18/2010 4:30:10 PM	1.0000	1.0000
35	0910013-07	Unknown	25	25.0	Anions_AS18	default	Finished	3/18/2010 4:48:38 PM	1.0000	1.0000
36	0910013-08	Unknown	26	25.0	Anions_AS18	default	Finished	3/18/2010 5:07:07 PM	1.0000	1.0000
37	0910013-09	Unknown	27	25.0	Anions_AS18	default	Finished	3/18/2010 5:25:35 PM	1.0000	1.0000
38	0910013-10	Unknown	28	25.0	Anions_AS18	default	Finished	3/18/2010 5:44:04 PM	1.0000	1.0000
39	0910013-11	Unknown	29	25.0	Anions_AS18	default	Finished	3/18/2010 6:02:32 PM	1.0000	1.0000
40	0910013-12	Unknown	30	25.0	Anions_AS18	default	Finished	3/18/2010 6:21:00 PM	1.0000	1.0000
41	0910013-13	Unknown	31	25.0	Anions_AS18	default	Finished	3/18/2010 6:39:28 PM	1.0000	1.0000
42	0910013-14	Unknown	32	25.0	Anions_AS18	default	Finished	3/18/2010 6:57:57 PM	1.0000	1.0000
43	Inst. Blank3	Unknown	33	25.0	Anions_AS18	default	Finished	3/18/2010 7:16:25 PM	1.0000	1.0000
44	CCB1	Unknown	34	25.0	Anions_AS18	default	Finished	3/18/2010 7:34:53 PM	1.0000	1.0000
45	CCV1	Unknown	35	25.0	Anions_AS18	default	Finished	3/18/2010 7:53:21 PM	1.0000	1.0000
46	Inst. Blank4	Unknown	36	25.0	Anions_AS18	default	Finished	3/18/2010 8:11:49 PM	1.0000	1.0000

+ reported 9-10 AA

QC SUMMARY FORM
FOR
WO NO.: 1003014, 0910013

CRL.SOP AIG045A Rev #0.1
Inorganic Analysis by
Ion Chromatography

CCV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	2.282	95.1
	Chloride	93-103	12.00	11.696	97.5
	Sulfate	96-106	60.00	60.973	101.6
	Bromide	90-106	4.50	4.471	99.4
	Nitrate	90-106	12.00	11.897	99.1
	O-Phosphate	89-105	18.00	17.706	98.4

BLK1 (SOIL, NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.07**
	Sulfate	**ND**	**0.27**
	Bromide	~	0.04
	Nitrate	**ND**	**0.19**
	O-Phosphate	~	0.07

BS1 (SOIL, NO SAND)	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	1.20	~	~
	Chloride	**80-120**	**6.00**	**5.216**	**86.9**
	Sulfate	**80-120**	**30.00**	**27.683**	**92.3**
	Bromide	80-120	2.25	~	~
	Nitrate	**80-120**	**6.00**	**5.207**	**86.8**
	O-Phosphate	80-120	9.00	~	~

DUPLICATE 0910013-04	ANIONS	Limit (RPD%)	LD1 (mg/kg)	LD2 (mg/kg)	Abs. Diff.	RPD%
	Fluoride	20	~	~	~	~
	Chloride	**20**	**55.9**	**55.5**	**0.400**	**0.72**
	Sulfate	**20**	**34.8**	**37.9**	**3.100**	**8.53**
	Bromide	20	~	~	~	~
	Nitrate	**20**	**2.2**	**2.7**	**0.500**	**20.41**
	O-Phosphate	20	~	~	~	~

SPIKE (MS) 0910013-04	ANIONS	Limit (%Rec)	LFM (mg/kg)	Sample (mg/kg)	Target (mg/kg)	Recovery (%)
	Fluoride	80-120	~	~	~	~
	Chloride	**80-120**	**105.8**	**55.9**	**64.00**	**78.0**
	Sulfate	**80-120**	**303.1**	**34.8**	**320.00**	**83.8**
	Bromide	80-120	~	~	~	~
	Nitrate	**80-120**	**48.2**	**2.2**	**64.00**	**71.9**
	O-Phosphate	80-120	~	~	~	~

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

QC SUMMARY FORM
FOR
WO NO.: 1003014, 0910013

CRL.SOP AIG045A Rev #0.1
Inorganic Analysis by
Ion Chromatography

BEGINNING: 3/18/2010 Sequence: 2010MAR18_CDR01

ICB1/BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

ICV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	2.251	93.8
	Chloride	93-103	12.00	11.496	95.8
	Sulfate	96-106	60.00	60.092	100.2
	Bromide	90-106	4.50	4.395	97.7
	Nitrate	90-106	12.00	11.691	97.4
	O-Phosphate	89-105	18.00	17.598	97.8

BS1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	83-103	1.20	1.141	95.1
	Chloride	89-105	6.00	5.755	95.9
	Sulfate	95-107	30.00	30.453	101.5
	Bromide	86-106	2.25	2.197	97.6
	Nitrate	82-110	6.00	5.799	96.7
	O-Phosphate	82-106	9.00	8.948	99.4

DUPLICATE 1003014-01	ANIONS	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	3	0.291	0.295	0.004	1.37
	Chloride	2	~	~	~	~
	Sulfate	4	76.456	74.848	1.608	2.13
	Bromide	20	0.000	0.000	0.000	~
	Nitrate	5	1.587	1.544	0.043	2.75
	O-Phosphate	10	0.000	0.000	0.000	~

AA 4-14-10
not RCRA
data

SPIKE (MS) 1003014-01	ANIONS	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	84-96	1.342	0.291	1.20	87.6
	Chloride	95-107	~	~	~	~
	Sulfate	62-112	96.490	76.456	30.00	66.8
	Bromide	86-106	2.116	0.000	2.25	94.0
	Nitrate	84-106	7.170	1.587	6.00	93.1
	O-Phosphate	62-98	6.391	0.000	9.00	71.0

ANALYSIS SEQUENCE

0C19001

Instrument: IC 5

Calibnration ID: 9121001

Printed: 3/19/2010 11:19:57AM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0910013-07	Anions by IC	T30-25	A	24				
0910013-08	Anions by IC	T20-175	A	25				
0910013-09	Anions by IC	T22-25	A	26				
0910013-10	Anions by IC	T23-75	A	27				
0910013-11	Anions by IC	SP1-U17	A	28				
0910013-12	Anions by IC	SP1-U04	A	29				
0910013-13	Anions by IC	SP1-U15	A	30				
0910013-14	Anions by IC	SP1-U10	A	31				
0C19001-IBL3	QC	Inst. Blank3		32				
0C19001-CCB1	QC	CCB1		33				
0C19001-CCV1	QC	CCV1		34		0031901		
0C19001-IBL4	QC	Inst. Blank4		35				

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

0C19001

Instrument: IC 5

Calibnration ID: 9121001

Printed: 3/19/2010 11:19:57AM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0C19001-IBL1	QC	Inst. Blank1		1				
0C19001-IBL2	QC	Inst. Blank2		2				
0C19001-ICB1	QC	ICB1/BLK1		3				
0C19001-ICV1	QC	ICV1		4		0031901		
B100345-BS1	QC	BS1		5				
1003014-01	Anions by IC	CON	B	6				pH = 6
B100345-DUP1	QC	Duplicate		7				
B100345-MS1	QC	Matrix Spike		8				
1003014-02	Anions by IC	DRI	B	9				pH = 6
1003014-03	Anions by IC	REF7	B	10				pH = 6
1003014-04	Anions by IC	URB	B	11				pH = 6
1003014-05	Anions by IC	ROA	B	12				pH = 6
1003014-06	Anions by IC	Field Blank	B	13				pH = 6
B100332-BLK1	QC	BLK1 (SOIL)		14				
B100332-BS1	QC	BS1 (SOIL)		15				
0910013-04	Anions by IC	T25-50	C	16				
B100332-DUP1	QC	Duplicate		17				
B100332-MS1	QC	Matrix Spike		18				
0910013-01	Anions by IC	SP1-U16	A	19				
0910013-02	Anions by IC	T29-25	A	20				
0910013-03	Anions by IC	T26-50	A	21				
0910013-05	Anions by IC	T24-75	A	22				
0910013-06	Anions by IC	T17-50	A	23				

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

0C30004

Instrument: IC 5

Calibnration ID: 9121001

Printed: 3/30/2010 3:18:58PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0C30004-IBL1	QC	Inst. Blank1		1				
0C30004-IBL2	QC	Inst. Blank2		2				
0C30004-IBL3	QC	Inst. Blank3		3				
0C30004-ICB1	QC	ICB1/BLK1		4				
0C30004-ICV1	QC	ICV1		5		0033020		
0C30004-IBL4	QC	Inst. Blank4		6				
0C30004-CCB1	QC	CCB1		7				
0C30004-CCV1	QC	CCV1		8		0033020		
0C30004-CCV2	QC	CCV2		9		0033020		
0C30004-IBL5	QC	Inst. Blank5		10				

Samples Loaded By Date

Data Processed By Date

QC SUMMARY FORM
FOR
WO NO.: 1003014, 0910013

CRL.SOP AIG045A Rev #0.1
Inorganic Analysis by
Ion Chromatography

BEGINNING: 3/29/2010 Sequence: 2010MAR29_CDR01

ICB1/BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	~	0.05
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

ICV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	~	~
	Chloride	**93-103**	**12.00**	**11.514**	**96.0**
	Sulfate	96-106	60.00	~	~
	Bromide	90-106	4.50	~	~
	Nitrate	90-106	12.00	~	~
	O-Phosphate	89-105	18.00	~	~

BS1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	83-103	1.20	~	~
	Chloride	**89-105**	**6.00**	**5.659**	**94.3**
	Sulfate	95-107	30.00	~	~
	Bromide	86-106	2.25	~	~
	Nitrate	82-110	6.00	~	~
	O-Phosphate	82-106	9.00	~	~

AA 4-14-10
not CCRA data

DUPLICATE 1003014-01 2.5/25 mL	ANIONS	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	3	~	~	~	~
	Chloride	**2**	**143.340**	**148.350**	**5.010**	**3.44**
	Sulfate	4	~	~	~	~
	Bromide	20	~	~	~	~
	Nitrate	5	~	~	~	~
	O-Phosphate	10	~	~	~	~

QC SUMMARY FORM
FOR
WO NO.: 1003014, 0910013

CRL.SOP AIG045A Rev #0.1
Inorganic Analysis by
Ion Chromatography

AA
4-14-10
not RCRA
data

SPIKE (MS) 1003014-01 0.5/10 mL	ANIONS	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	84-96	~	~	~	~
	Chloride	**95-107**	**261.600**	**143.340**	**120.00**	**98.6**
	Sulfate	62-112	~	~	~	~
	Bromide	86-106	~	~	~	~
	Nitrate	84-106	~	~	~	~
	O-Phosphate	62-98	~	~	~	~

*** Dilution factor added to spike for calculation purposes only.**

BLK1 (SOIL, NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.07**
	Sulfate	~	0.27
	Bromide	~	0.04
	Nitrate	~	0.19
	O-Phosphate	~	0.07

BS1 (SOIL, NO SAND)	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	1.20	~	~
	Chloride	**80-120**	**6.00**	**5.137**	**85.6**
	Sulfate	80-120	30.00	~	~
	Bromide	80-120	2.25	~	~
	Nitrate	80-120	6.00	~	~
	O-Phosphate	80-120	9.00	~	~

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	~	0.05
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

CCV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	~	~
	Chloride	**93-103**	**12.00**	**11.709**	**97.6**
	Sulfate	96-106	60.00	~	~
	Bromide	90-106	4.50	~	~
	Nitrate	90-106	12.00	~	~
	O-Phosphate	89-105	18.00	~	~

CCV2	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	~	~
	Chloride	**93-103**	**12.00**	**11.741**	**97.8**
	Sulfate	96-106	60.00	~	~
	Bromide	90-106	4.50	~	~
	Nitrate	90-106	12.00	~	~
	O-Phosphate	89-105	18.00	~	~

Sequence: 2010MAR29_CDR01
Operator: Aaleszc2
Printed: 3/30/2010 7:25:40 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 35

Created: 3/29/2010 1:27:48 PM by Aaleszc2
Last Update: 3/29/2010 1:49:27 PM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	STD1	Standard	2	25.0	Anions_AS18	default	Finished	12/8/2009 12:05:44 PM	1.0000
2	STD2	Standard	3	25.0	Anions_AS18	default	Finished	12/8/2009 12:24:13 PM	1.0000
3	STD3	Standard	4	25.0	Anions_AS18	default	Finished	12/8/2009 12:42:41 PM	1.0000
4	STD4	Standard	5	25.0	Anions_AS18	default	Finished	12/8/2009 1:01:09 PM	1.0000
5	STD5	Standard	6	25.0	Anions_AS18	default	Finished	12/8/2009 1:19:38 PM	1.0000
6	STD6	Standard	7	25.0	Anions_AS18	default	Finished	12/8/2009 1:38:06 PM	1.0000
7	STD7	Standard	8	25.0	Anions_AS18	default	Finished	12/8/2009 1:56:34 PM	1.0000
8	STD8	Standard	9	25.0	Anions_AS18	default	Finished	12/8/2009 2:15:03 PM	1.0000
9	STD9	Standard	10	25.0	Anions_AS18	default	Finished	12/8/2009 2:33:31 PM	1.0000
10	STD10	Standard	11	25.0	Anions_AS18	default	Finished	12/8/2009 2:51:59 PM	1.0000
11	Inst. Blank1	Unknown	1	25.0	Anions_AS18	default	Finished	3/29/2010 2:08:51 PM	1.0000
12	Inst. Blank2	Unknown	2	25.0	Anions_AS18	default	Finished	3/29/2010 2:27:19 PM	1.0000
13	Inst. Blank3	Unknown	3	25.0	Anions_AS18	default	Finished	3/29/2010 2:45:48 PM	1.0000
14	ICB1/BLK1	Unknown	4	25.0	Anions_AS18	default	Finished	3/29/2010 3:04:16 PM	1.0000
15	ICV1	Unknown	5	25.0	Anions_AS18	default	Finished	3/29/2010 3:22:44 PM	1.0000
16	BS1	Unknown	6	25.0	Anions_AS18	default	Finished	3/29/2010 3:41:12 PM	1.0000
17	1003014-01 2.5/25 mL	Unknown	7	25.0	Anions_AS18	default	Finished	3/29/2010 3:59:41 PM	1.0000
18	1003014-01 DUP1 2.5/25 mL	Unknown	8	25.0	Anions_AS18	default	Finished	3/29/2010 4:18:09 PM	1.0000
19	1003014-01 MS1 0.5/10 mL	Unknown	9	25.0	Anions_AS18	default	Finished	3/29/2010 4:36:38 PM	1.0000
20	1003014-02 6.25/25 mL	Unknown	10	25.0	Anions_AS18	default	Finished	3/29/2010 4:55:06 PM	1.0000
21	1003014-03 1.25/25 mL	Unknown	11	25.0	Anions_AS18	default	Finished	3/29/2010 5:13:34 PM	1.0000
22	1003014-04 1.0/25 mL	Unknown	12	25.0	Anions_AS18	default	Finished	3/29/2010 5:32:03 PM	1.0000
23	1003014-05 1.25/25 mL	Unknown	13	25.0	Anions_AS18	default	Finished	3/29/2010 5:50:31 PM	1.0000
NR ~~24~~	~~1003014-04 5.0/10 mL~~	~~Unknown~~	~~14~~	~~25.0~~	~~Anions_AS18~~	~~default~~	~~Finished~~	~~3/29/2010 6:08:59 PM~~	~~1.0000~~
25	BLK1 (SOIL)	Unknown	15	25.0	Anions_AS18	default	Finished	3/29/2010 6:27:27 PM	1.0000
26	BS1 (SOIL)	Unknown	16	25.0	Anions_AS18	default	Finished	3/29/2010 6:45:56 PM	1.0000
27	0910013-02 6.25/25 mL	Unknown	17	25.0	Anions_AS18	default	Finished	3/29/2010 7:04:23 PM	1.0000
28	0910013-08 6.25/25 mL	Unknown	18	25.0	Anions_AS18	default	Finished	3/29/2010 7:22:52 PM	1.0000
NR ~~29~~	~~0910013-01 6.25/25 mL~~	~~Unknown~~	~~19~~	~~25.0~~	~~Anions_AS18~~	~~default~~	~~Finished~~	~~3/29/2010 7:41:20 PM~~	~~1.0000~~
~~30~~	~~0910013-12 6.25/25 mL~~	~~Unknown~~	~~20~~	~~25.0~~	~~Anions_AS18~~	~~default~~	~~Finished~~	~~3/29/2010 7:59:48 PM~~	~~1.0000~~
31	Inst. Blank4	Unknown	21	25.0	Anions_AS18	default	Finished	3/29/2010 8:18:16 PM	1.0000
32	CCB1	Unknown	22	25.0	Anions_AS18	default	Finished	3/29/2010 8:36:44 PM	1.0000
33	CCV1	Unknown	23	25.0	Anions_AS18	default	Finished	3/29/2010 8:55:13 PM	1.0000
34	CCV2	Unknown	24	25.0	Anions_AS18	default	Finished	3/29/2010 9:13:41 PM	1.0000
35	Inst. Blank5	Unknown	25	25.0	Anions_AS18	default	Finished	3/29/2010 9:32:09 PM	1.0000

NR = not reported b/c SO_4^{2-} CCB1 recovery was outside MDL limit

MA 3-30-10

Sequence: 2010MAR29_CDR01
Operator: Aaleszc2
Printed: 3/30/2010 7:25:40 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 35

Created: 3/29/2010 1:27:48 PM by Aaleszc2
Last Update: 3/29/2010 1:49:27 PM by Aaleszc2

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000	1.0000	01		
2	STD2	1.0000	1.0000	01		
3	STD3	1.0000	1.0000	01		
4	STD4	1.0000	1.0000	01		
5	STD5	1.0000	1.0000	01		
6	STD6	1.0000	1.0000	01		
7	STD7	1.0000	1.0000	01		
8	STD8	1.0000	1.0000	01		
9	STD9	1.0000	1.0000	01		
10	STD10	1.0000	1.0000	01		
11	Inst. Blank1	1.0000	1.0000	01		
12	Inst. Blank2	1.0000	1.0000	01		
13	Inst. Blank3	1.0000	1.0000	01		
14	ICB1/BLK1	1.0000	1.0000	01		
15	ICV1	1.0000	1.0000	01		
16	BS1	1.0000	1.0000	01		
17	1003014-01 2.5/25 mL	1.0000	1.0000	01		Chloride dilution
18	1003014-01 DUP1 2.5/25 mL	1.0000	1.0000	01		Chloride dilution
19	1003014-01 MS1 0.5/10 mL	1.0000	1.0000	01		Chloride dilution
20	1003014-02 6.25/25 mL	1.0000	1.0000	01		Chloride dilution
21	1003014-03 1.25/25 mL	1.0000	1.0000	01		Chloride dilution
22	1003014-04 1.0/25 mL	1.0000	1.0000	01		Chloride dilution
23	1003014-05 1.25/25 mL	1.0000	1.0000	01		Chloride dilution
24	1003014-04 5.0/10 mL	1.0000	1.0000	01		Sulfate dilution
25	BLK1 (SOIL)	1.0000	1.0000	01		
26	BS1 (SOIL)	1.0000	1.0000	01		
27	0910013-02 6.25/25 mL	1.0000	1.0000	01		Chloride dilution
28	0910013-08 6.25/25 mL	1.0000	1.0000	01		Chloride dilution
29	0910013-01 6.25/25 mL	1.0000	1.0000	01		Sulfate dilution
30	0910013-12 6.25/25 mL	1.0000	1.0000	01		Sulfate dilution
31	Inst. Blank4	1.0000	1.0000	01		
32	CCB1	1.0000	1.0000	01		
33	CCV1	1.0000	1.0000	01		
34	CCV2	1.0000	1.0000	01		
35	Inst. Blank5	1.0000	1.0000	01		

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
          Sampler.AcquireExclusiveAccess
          Sampler_DiverterValve.Position_2
           olumn_TC.AcquireExclusiveAccess
          Compartment_TC.AcquireExclusiveAccess
          Flush                                   Volume = 250
          Pressure.LowerLimit =                   20 [psi]
          Pressure.UpperLimit                     3000 [psi]
          MaximumFlowRamp =                       6.0 [ml/min²]
          %A.Equate                               "%A"
           R_IC                                   On
           a                                      FlushState
          Data_Collection_Rate =                  5.0 [Hz]
          Temperature_Compensation                1.7 [%/°C]
          Cell_Heater.TemperatureSet =            35.0 [°C]
          Suppressor1.Type                        ASRS_4mm
          Current set =                           80 [mA]
          Concentration                           32.00 [mM]
          EG_1.Curve                              5
          Flow                                    1.000 [ml/min]
          Pump_1.Curve                            5
          NeedleHeight                            [mm]
          CutSegmentVolume                        10 [µl]
          SyringeSpeed =                          4
           ycleTime                               5 [min]
          Wait ForTemperature =                   False
          CellHeater.Mode                         = On
          ; Suppressor1.Carbonate                0.0
          ; Suppressor1.Bicarbonate =            0.0
          ; Suppressor1.Hydroxide =              30.0
          ; Suppressor1.Tetraborate              0.0
          ; Suppressor1.Other eluent             0.0
          ; Suppressor1.Recommended Current                    80
          Wait                                    SampleReady

0.00      Pump1.Autozero
          Load
          Wait                                    CycleTimeState
          Inject
          Wait                                    InjectState
          CD_1.AcqOn
          Sampler.ReleaseExclusiveAccess

1.00      CD_1.AcqOff
           ompartment_TC.ReleaseExclusiveAccess
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
Column_TC.ReleaseExclusiveAccess
End
```

Program File:	Anions_AS18	Printed: 3/30/2010 7:25:41 AM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:39:18 PM by FAWANYA

No.	Channel	Operation	Parameters

Method File: default
Operator: Aaleszc2
Printed: 3/30/2010 7:25:41 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	2.600	Inhibit Integration	Off	All Channels

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.200 AG	External	Area	XLOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.300 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.700 min	0.600 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.300 min	4.000000	8.000000					
5	Nitrate	8.700 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.300 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.700 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.300 min			
5	Nitrate	8.700 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*2*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*12/8/2009 12:05:44 P*	
2	☒	STD2	2	3	25.0	1.0000	1.0000	1.0000	12/8/2009 12:24:13 P	
3	☒	STD3	3	4	25.0	1.0000	1.0000	1.0000	12/8/2009 12:42:41 P	
4	☒	STD4	4	5	25.0	1.0000	1.0000	1.0000	12/8/2009 1:01:09 P	
5	☒	STD5	5	6	25.0	1.0000	1.0000	1.0000	12/8/2009 1:19:38 P	
6	☒	STD6	6	7	25.0	1.0000	1.0000	1.0000	12/8/2009 1:38:06 P	
7	☒	STD7	7	8	25.0	1.0000	1.0000	1.0000	12/8/2009 1:56:34 P	
8	☒	STD8	8	9	25.0	1.0000	1.0000	1.0000	12/8/2009 2:15:03 P	
9	☒	STD9	9	10	25.0	1.0000	1.0000	1.0000	12/8/2009 2:33:31 P	
10	☒	STD1	10	11	25.0	1.0000	1.0000	1.0000	12/8/2009 2:51:59 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib. Comment
1	☒	*STD1*	*Ok*
2	☒	STD2	Ok
3	☒	STD3	Ok
4	☒	STD4	Ok
5	☒	STD5	Ok
6	☒	STD6	Ok
7	☒	STD7	Ok
8	☒	STD8	Ok
9	☒	STD9	Ok
10	☒	STD1	Ok

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

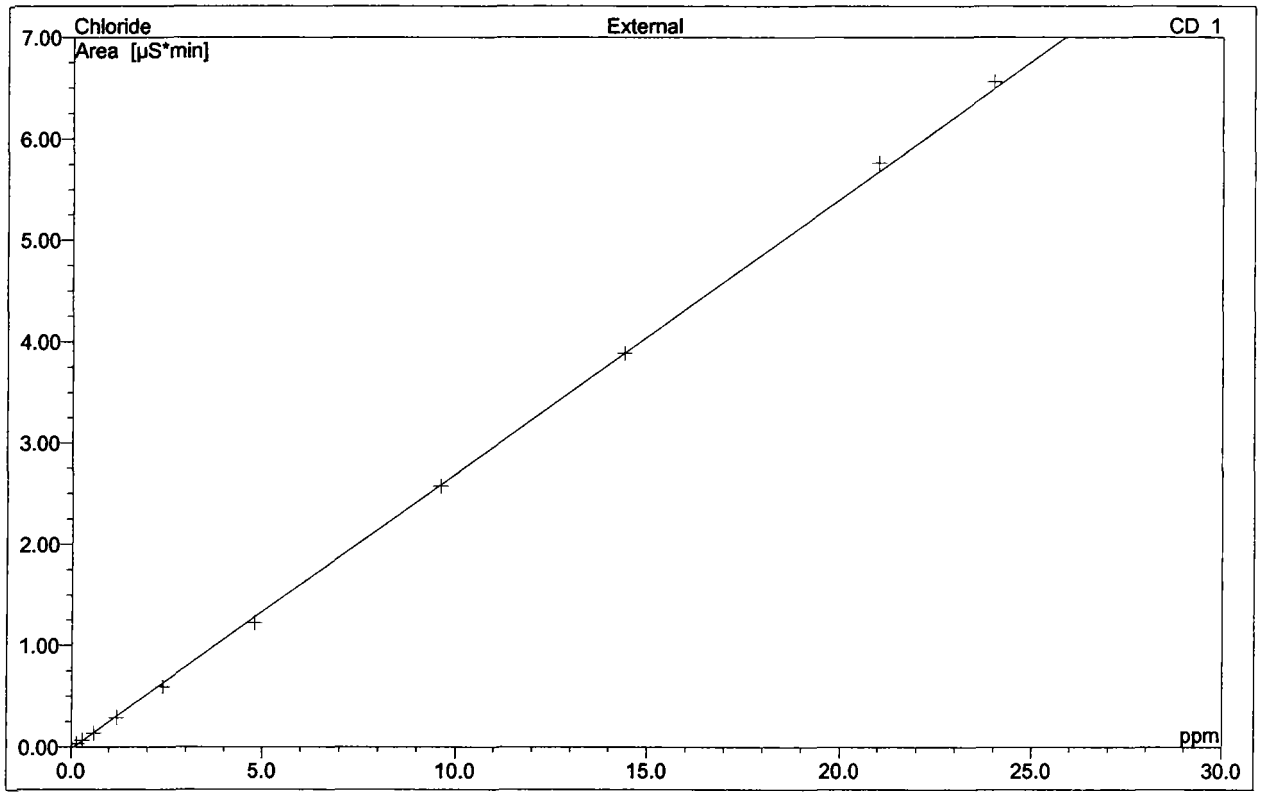
Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR29_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

5 STD5

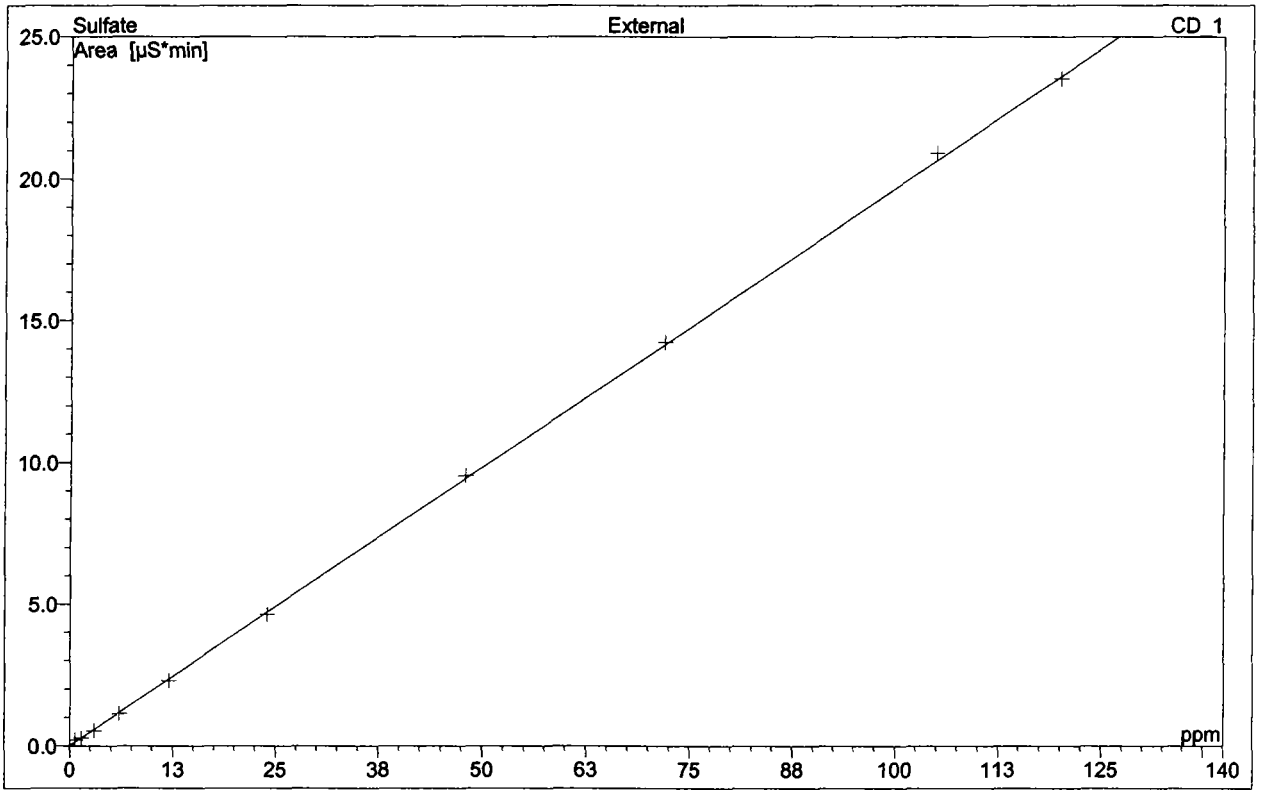
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

5 STD5

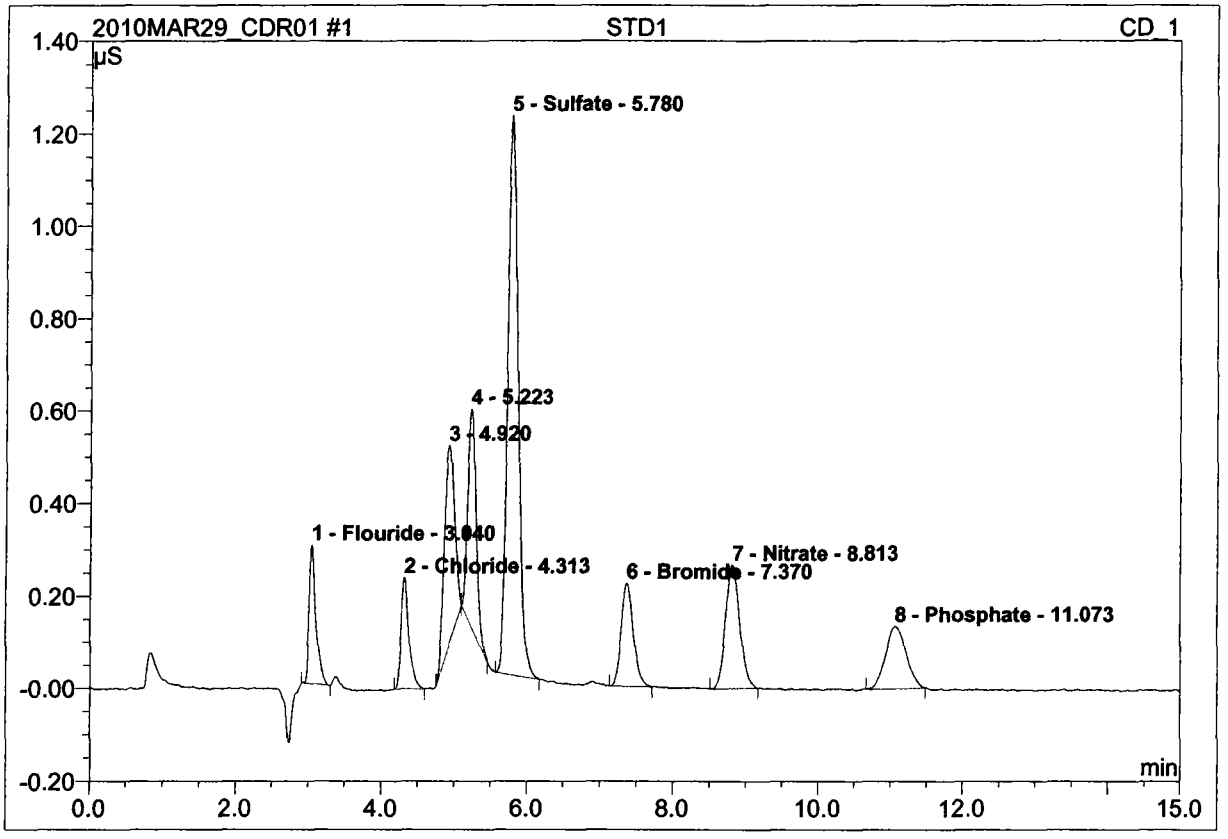
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

1 STD1

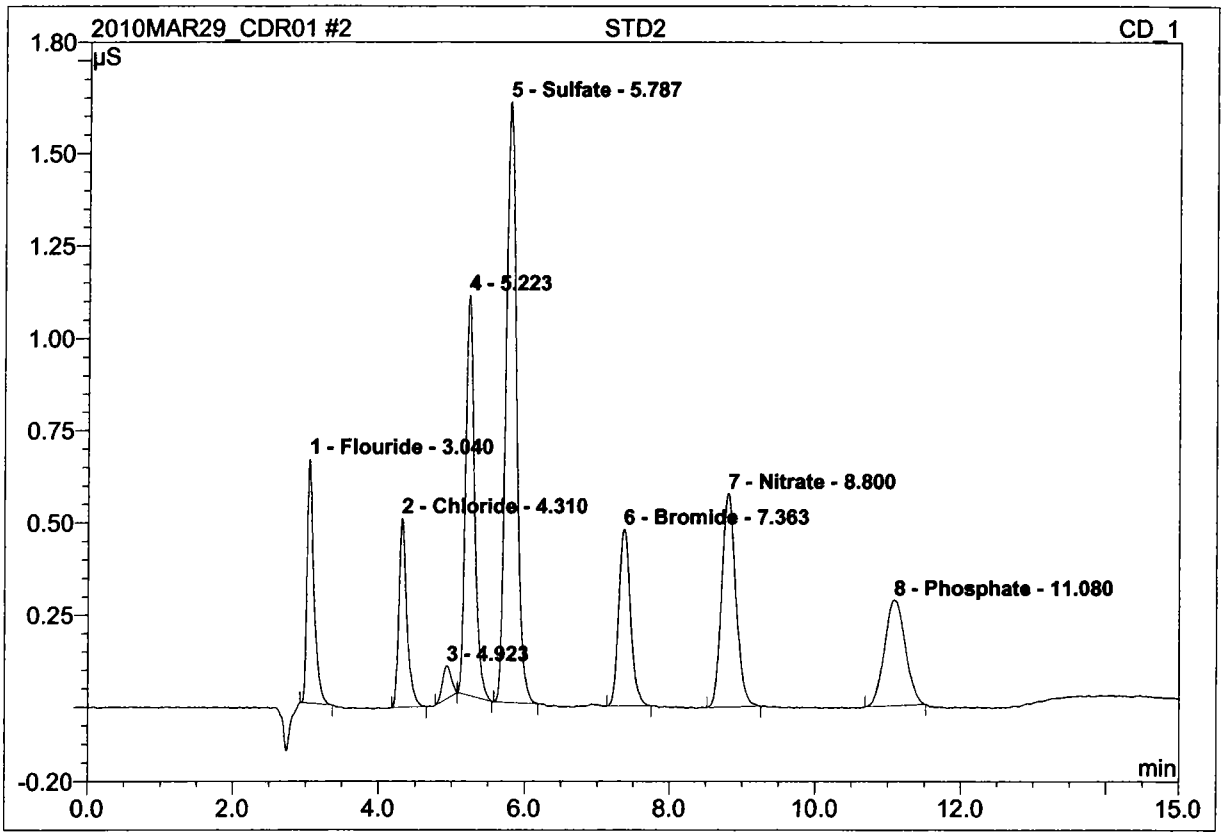
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.301	0.032	5.87	0.131	BMB
2	4.31	Chloride	0.241	0.031	5.61	0.179	BMB
3	4.92	n.a.	0.435	0.070	12.87	n.a.	BMb
4	5.22	n.a.	0.467	0.062	11.37	n.a.	bMB
5	5.78	Sulfate	1.211	0.204	37.28	0.986	BMB
6	7.37	Bromide	0.223	0.043	7.83	0.524	BMB
7	8.81	Nitrate	0.267	0.061	11.07	0.542	BMB
8	11.07	Phosphate	0.135	0.044	8.11	0.816	BMB
Total:			3.281	0.547	100.00	3.179	

2 STD2

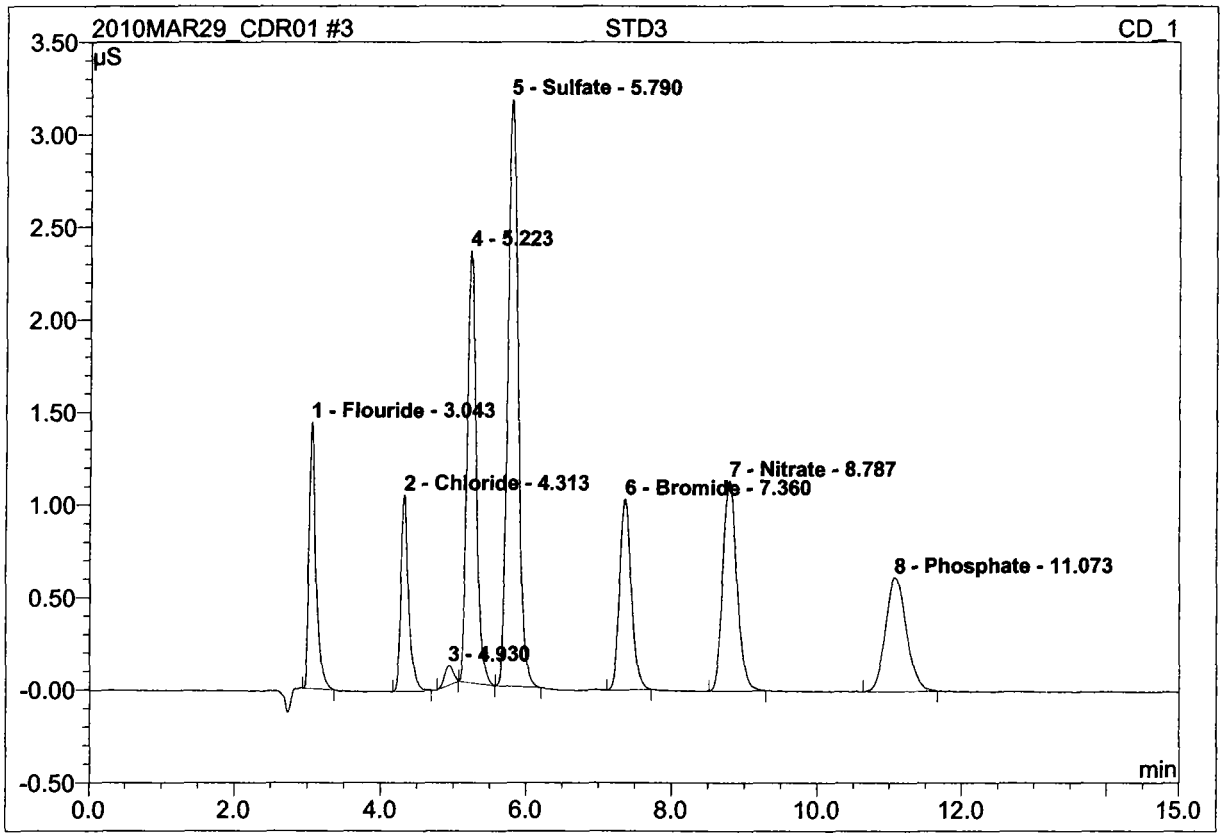
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.663	0.072	7.97	0.218	BMB
2	4.31	Chloride	0.514	0.066	7.33	0.308	BMB
3	4.92	n.a.	0.090	0.012	1.39	n.a.	BMb
4	5.22	n.a.	1.085	0.157	17.47	n.a.	bMB
5	5.79	Sulfate	1.627	0.273	30.44	1.337	BMB
6	7.36	Bromide	0.480	0.091	10.18	0.991	BMB
7	8.80	Nitrate	0.579	0.131	14.63	1.028	BMB
8	11.08	Phosphate	0.288	0.095	10.59	1.457	BMB
Total:			5.326	0.897	100.00	5.340	

3 STD3

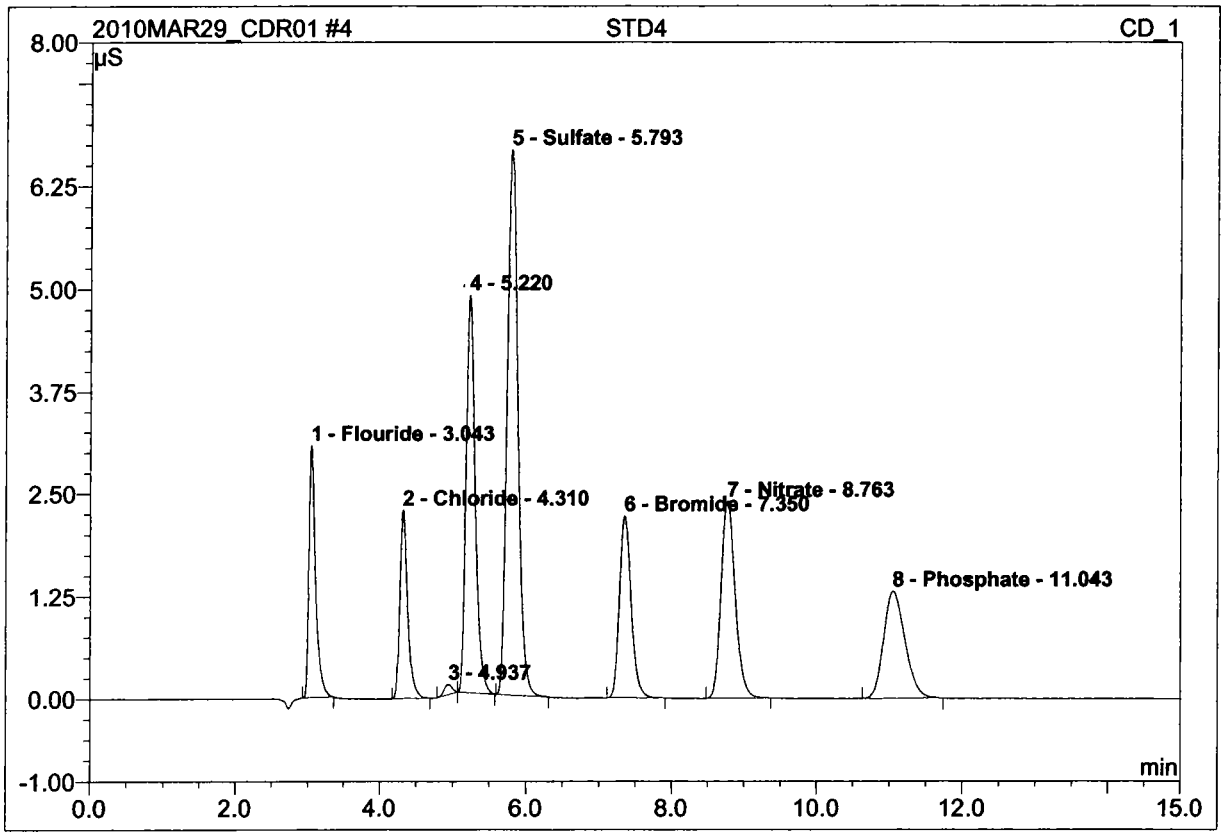
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	1.441	0.154	8.40	0.399	BMB
2	4.31	Chloride	1.064	0.134	7.36	0.561	BMB
3	4.93	n.a.	0.106	0.015	0.80	n.a.	BMB
4	5.22	n.a.	2.336	0.337	18.44	n.a.	BMB
5	5.79	Sulfate	3.174	0.531	29.05	2.648	BMB
6	7.36	Bromide	1.032	0.193	10.59	1.963	BMB
7	8.79	Nitrate	1.137	0.256	13.98	1.883	BMB
8	11.07	Phosphate	0.617	0.208	11.37	2.884	BMB
Total:			10.907	1.827	100.00	10.338	

4 STD4

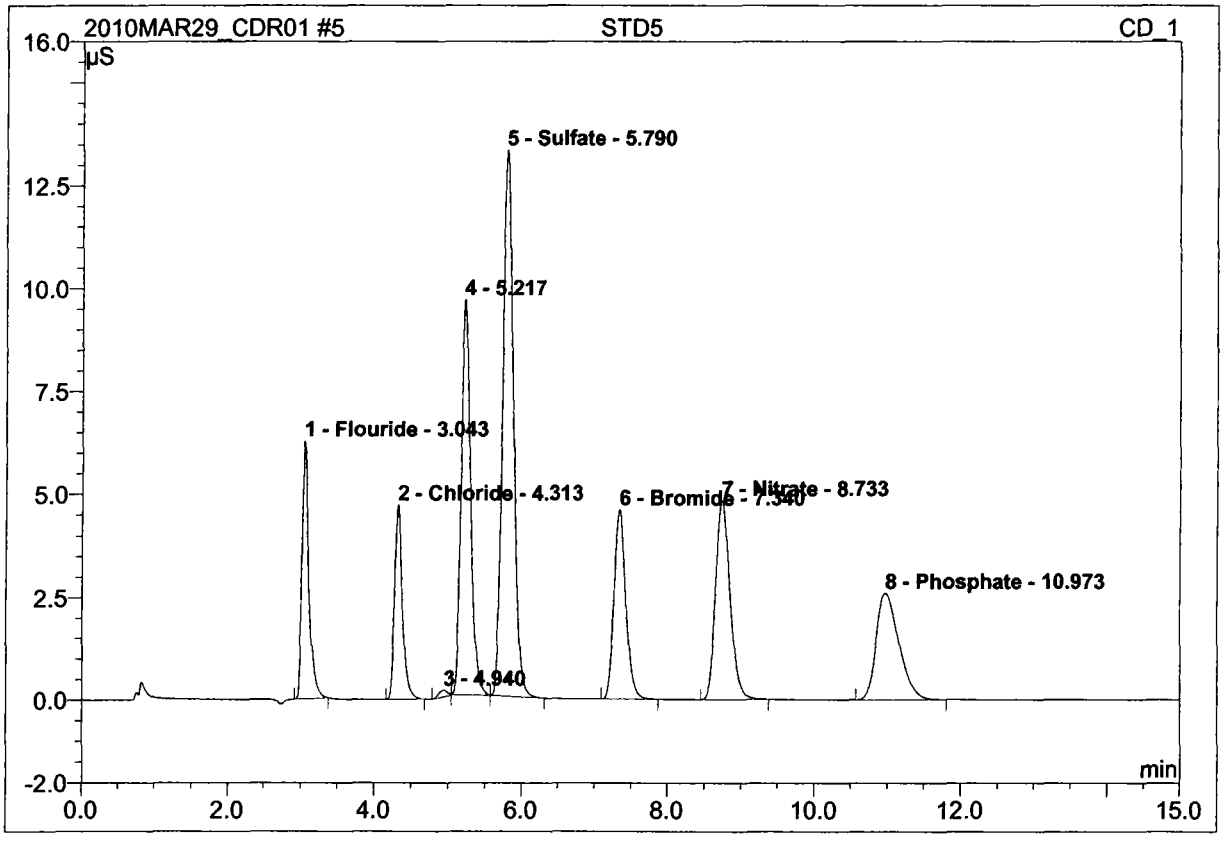
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	3.074	0.330	8.51	0.790	BMB
2	4.31	Chloride	2.297	0.287	7.40	1.123	BMB
3	4.94	n.a.	0.126	0.017	0.43	n.a.	BMb
4	5.22	n.a.	4.857	0.711	18.35	n.a.	bMB
5	5.79	Sulfate	6.648	1.127	29.08	5.679	BMB
6	7.35	Bromide	2.219	0.417	10.76	4.025	BMB
7	8.76	Nitrate	2.400	0.542	13.99	3.850	BMB
8	11.04	Phosphate	1.308	0.445	11.49	5.865	BMB
Total:			22.930	3.876	100.00	21.332	

5 STD5

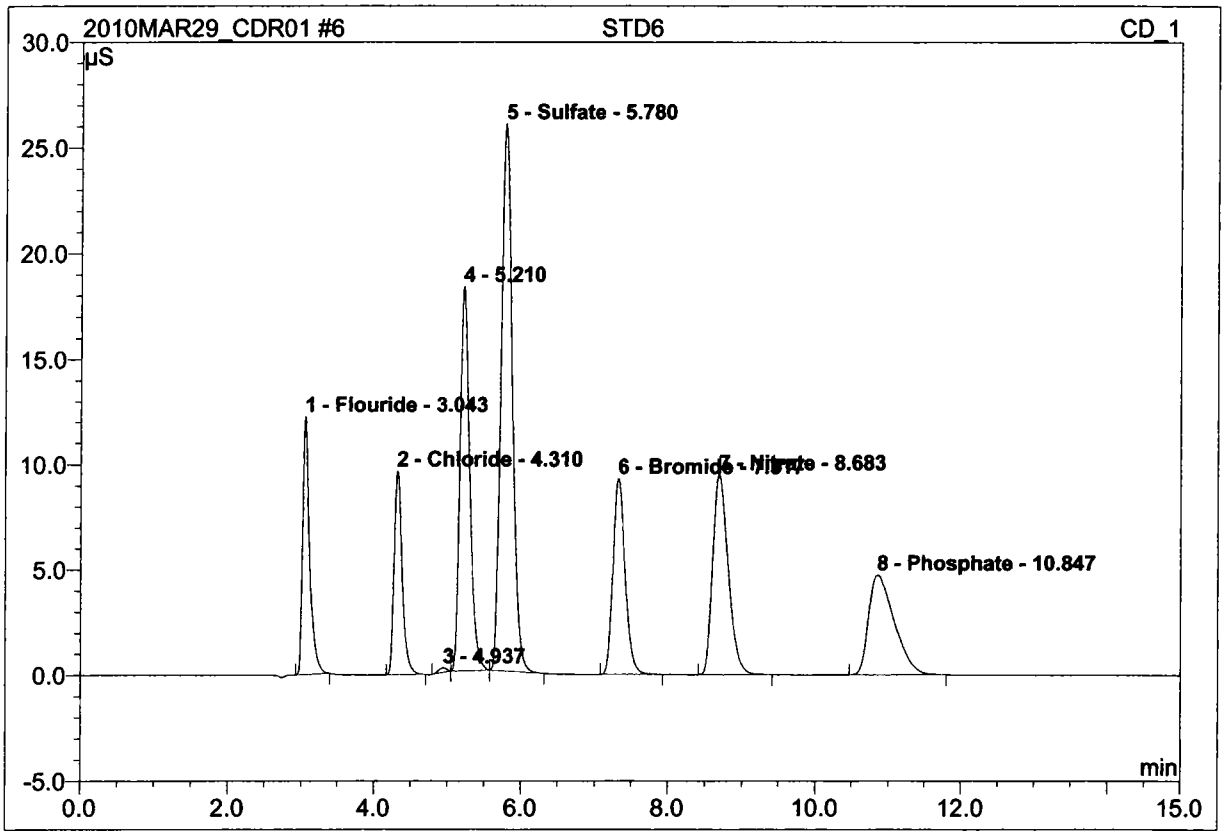
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	6.266	0.684	8.59	1.580	BMB
2	4.31	Chloride	4.732	0.592	7.44	2.247	BMB
3	4.94	n.a.	0.158	0.021	0.26	n.a.	BMB
4	5.22	n.a.	9.606	1.445	18.16	n.a.	BMB
5	5.79	Sulfate	13.277	2.292	28.80	11.603	BMB
6	7.34	Bromide	4.609	0.872	10.96	7.996	BMB
7	8.73	Nitrate	4.840	1.120	14.07	7.788	BMB
8	10.97	Phosphate	2.600	0.934	11.74	11.916	BMB
Total:			46.089	7.960	100.00	43.131	

6 STD6

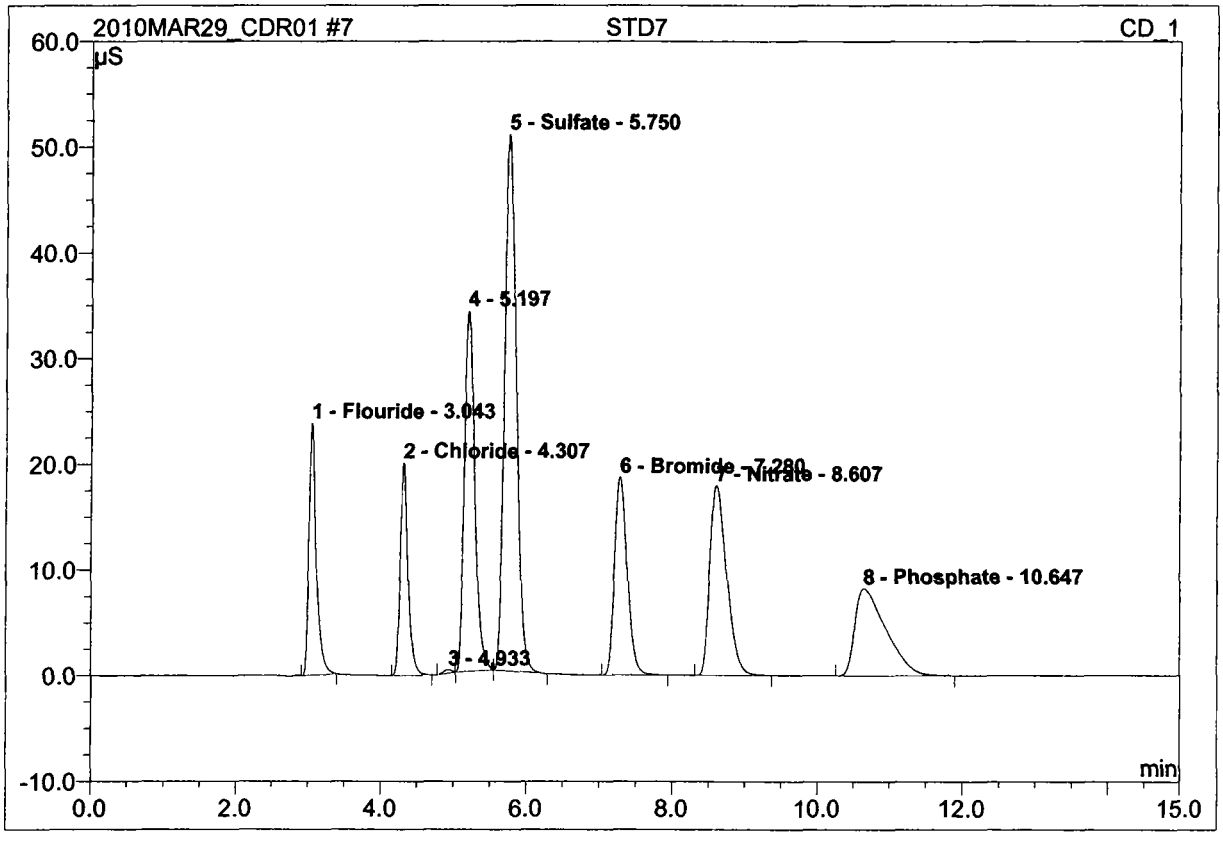
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	12.279	1.376	8.52	3.148	BMB
2	4.31	Chloride	9.681	1.221	7.57	4.564	BMB
3	4.94	n.a.	0.224	0.029	0.18	n.a.	BMB
4	5.21	n.a.	18.247	2.851	17.66	n.a.	bMB
5	5.78	Sulfate	25.949	4.617	28.61	23.421	BMB
6	7.32	Bromide	9.304	1.800	11.15	15.338	BMB
7	8.68	Nitrate	9.490	2.314	14.34	15.847	BMB
8	10.85	Phosphate	4.745	1.933	11.98	23.935	BMB
Total:			89.918	16.141	100.00	86.254	

7 STD7

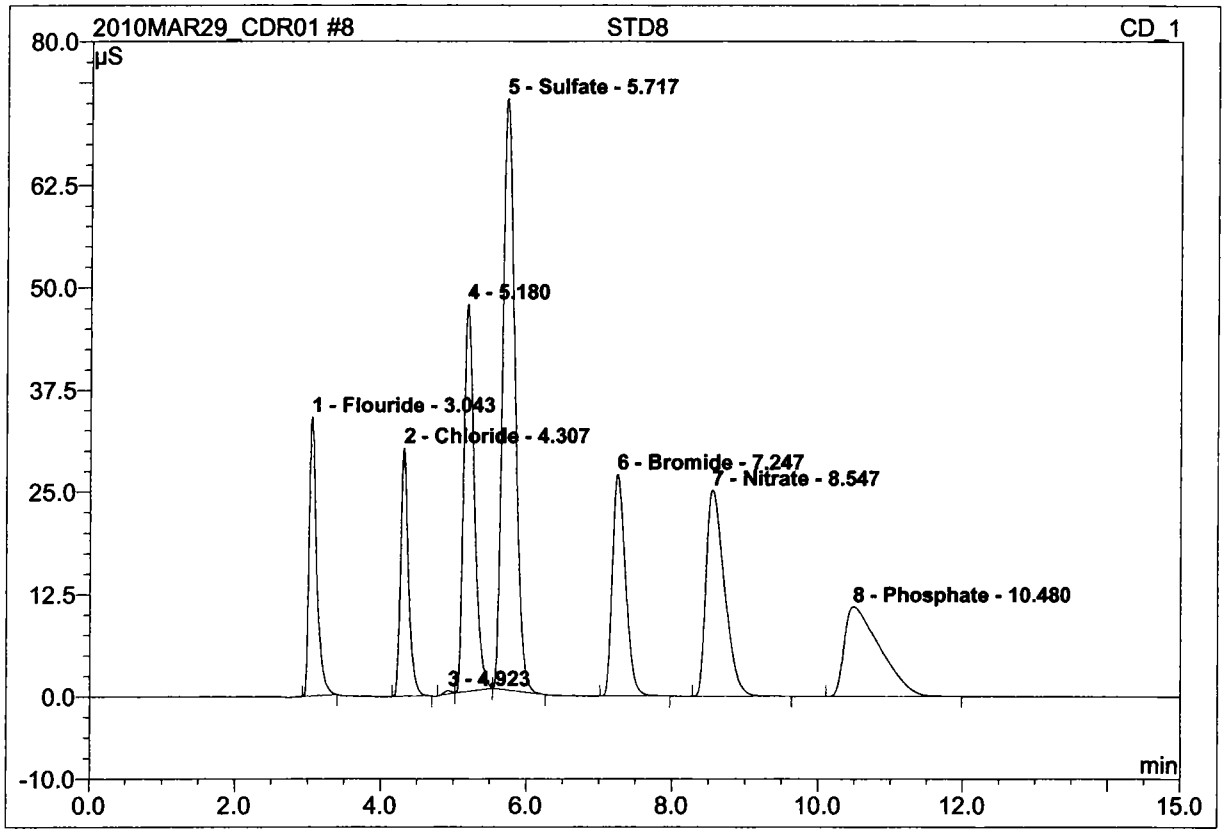
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	23.883	2.784	8.36	6.437	BMB
2	4.31	Chloride	20.150	2.574	7.73	9.547	BMB
3	4.93	n.a.	0.320	0.040	0.12	n.a.	BMb
4	5.20	n.a.	34.127	5.630	16.90	n.a.	bMB
5	5.75	Sulfate	50.783	9.541	28.64	48.450	BMB
6	7.28	Bromide	18.712	3.791	11.38	28.796	BMB
7	8.61	Nitrate	17.983	4.834	14.51	32.472	BMB
8	10.65	Phosphate	8.259	4.121	12.37	48.868	BMB
Total:			174.218	33.314	100.00	174.570	

8 STD8

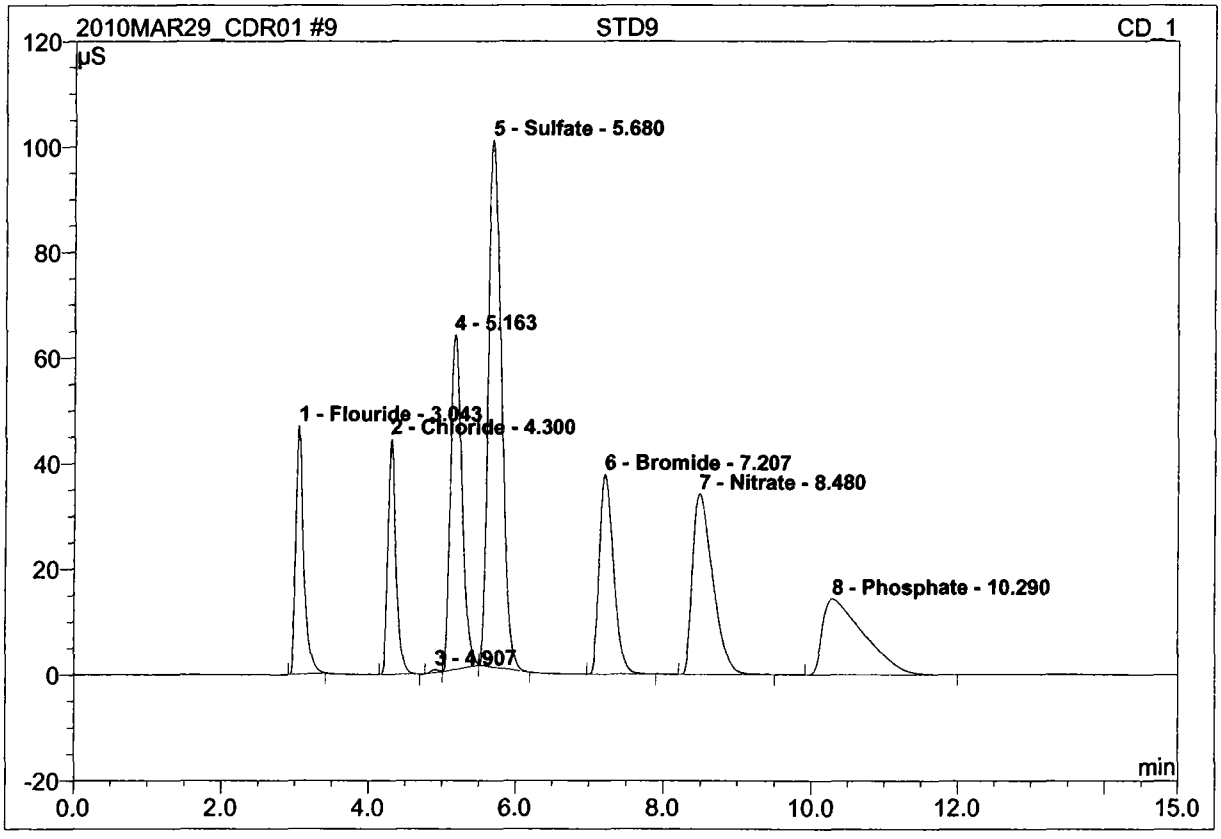
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	34.146	4.072	8.20	9.575	BMB
2	4.31	Chloride	30.331	3.887	7.83	14.384	BMB
3	4.92	n.a.	0.418	0.053	0.11	n.a.	BMb
4	5.18	n.a.	47.383	8.112	16.34	n.a.	bMb
5	5.72	Sulfate	72.243	14.233	28.67	72.302	bMB
6	7.25	Bromide	27.082	5.730	11.54	39.969	BMB
7	8.55	Nitrate	25.154	7.314	14.73	48.374	BMB
8	10.48	Phosphate	10.985	6.242	12.57	71.501	BMB
Total:			247.743	49.644	100.00	256.105	

9 STD9

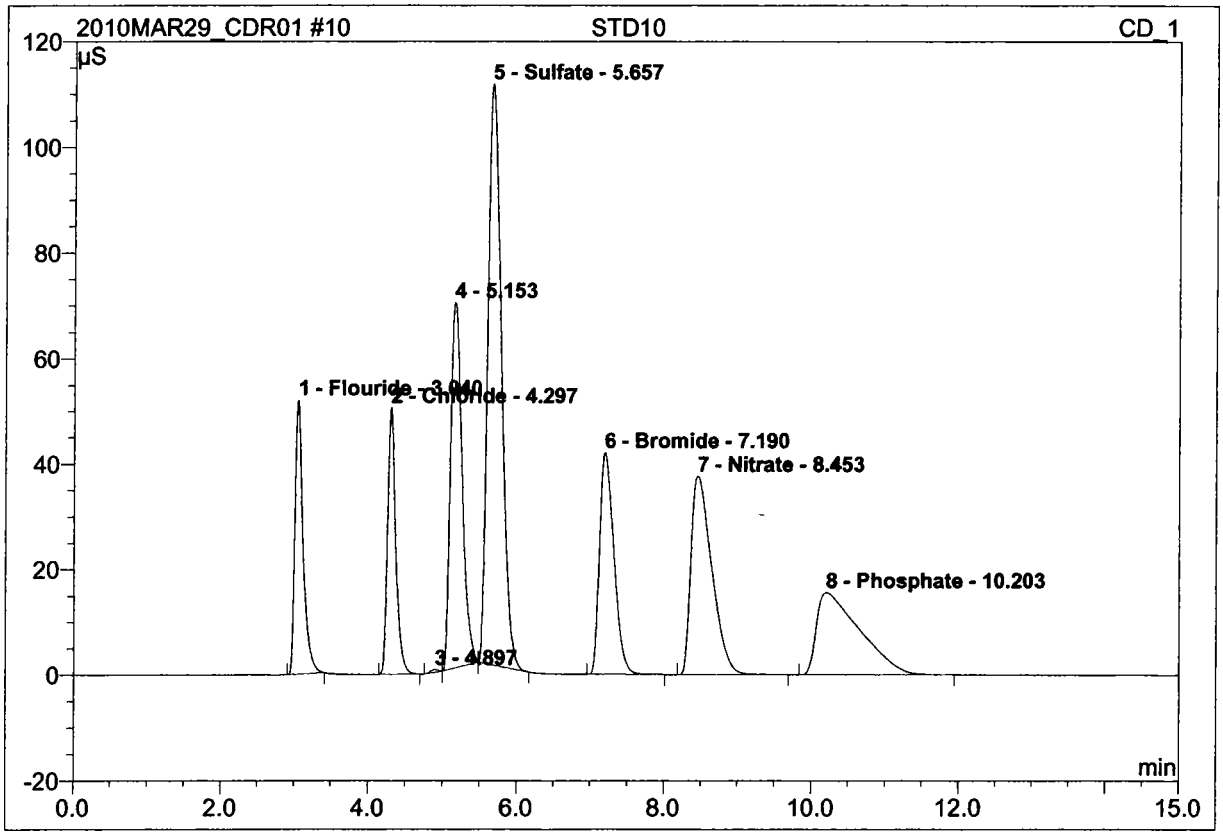
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	47.100	5.826	8.02	14.076	BMB
2	4.30	Chloride	44.638	5.766	7.94	21.305	BMB
3	4.91	n.a.	0.526	0.066	0.09	n.a.	BMB
4	5.16	n.a.	63.418	11.355	15.64	n.a.	bMb
5	5.68	Sulfate	99.857	20.913	28.80	106.261	bMB
6	7.21	Bromide	37.833	8.494	11.70	53.820	BMB
7	8.48	Nitrate	34.153	10.849	14.94	70.312	BMB
8	10.29	Phosphate	14.370	9.343	12.87	102.353	BMB
Total:			341.894	72.611	100.00	368.125	

10 STD10

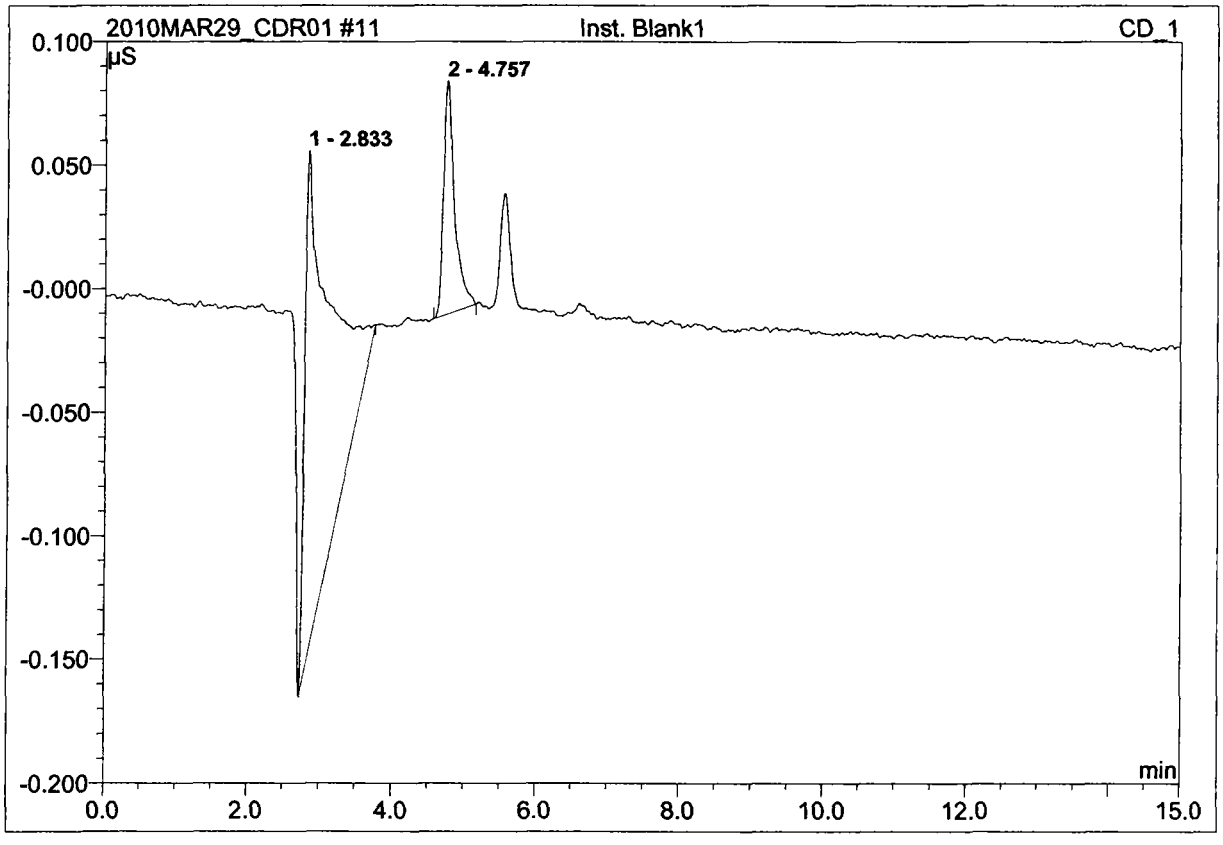
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	52.094	6.522	7.96	15.946	BMB
2	4.30	Chloride	50.719	6.560	8.01	24.231	BMB
3	4.90	n.a.	0.576	0.074	0.09	n.a.	BMB
4	5.15	n.a.	69.414	12.617	15.41	n.a.	bMb
5	5.66	Sulfate	110.093	23.530	28.73	119.564	bMB
6	7.19	Bromide	42.040	9.672	11.81	59.186	BMB
7	8.45	Nitrate	37.627	12.351	15.08	79.399	BMB
8	10.20	Phosphate	15.614	10.569	12.91	113.944	BMB
Total:			378.176	81.896	100.00	412.270	

11 Inst. Blank1

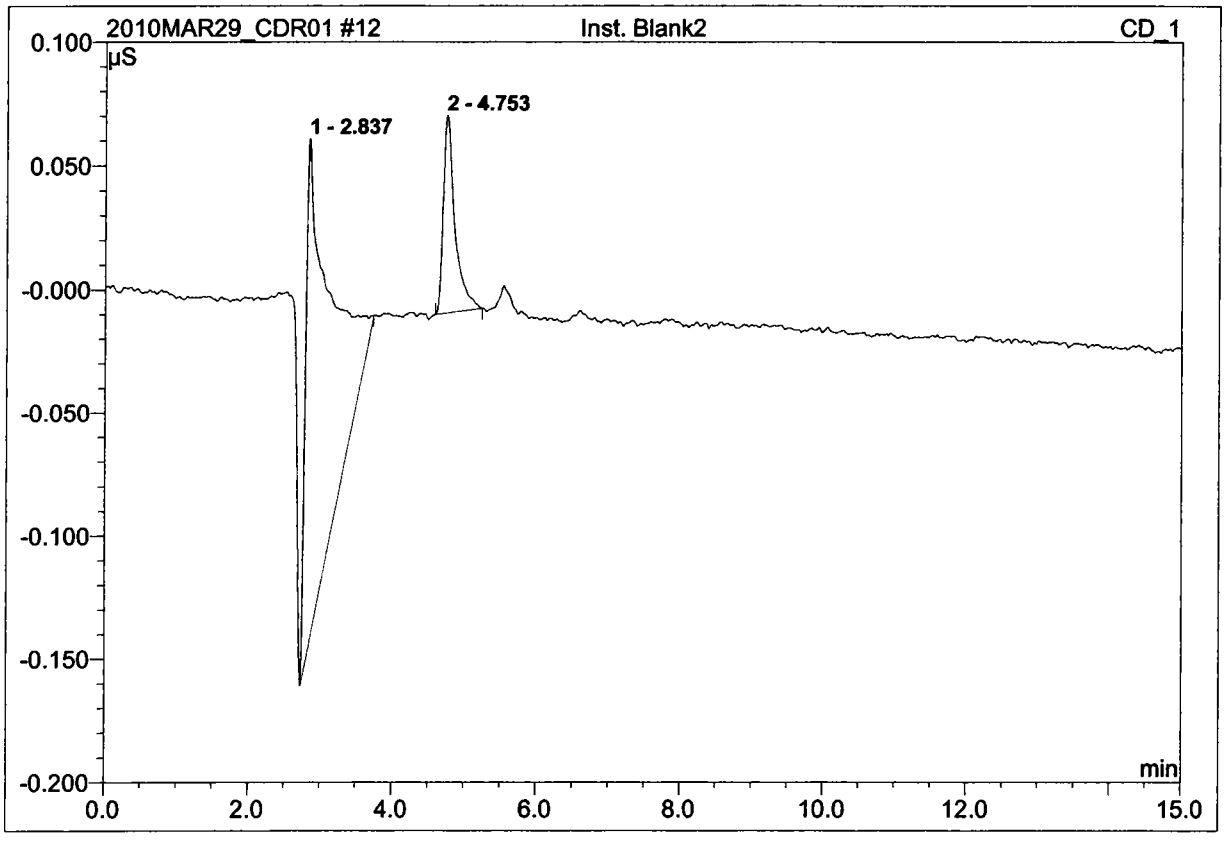
Sample Name:	**Inst. Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 14:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.205	0.082	83.01	n.a.	BMB
2	4.76	n.a.	0.094	0.017	16.99	n.a.	BMB
Total:			0.299	0.099	100.00	0.000	

12 Inst. Blank2

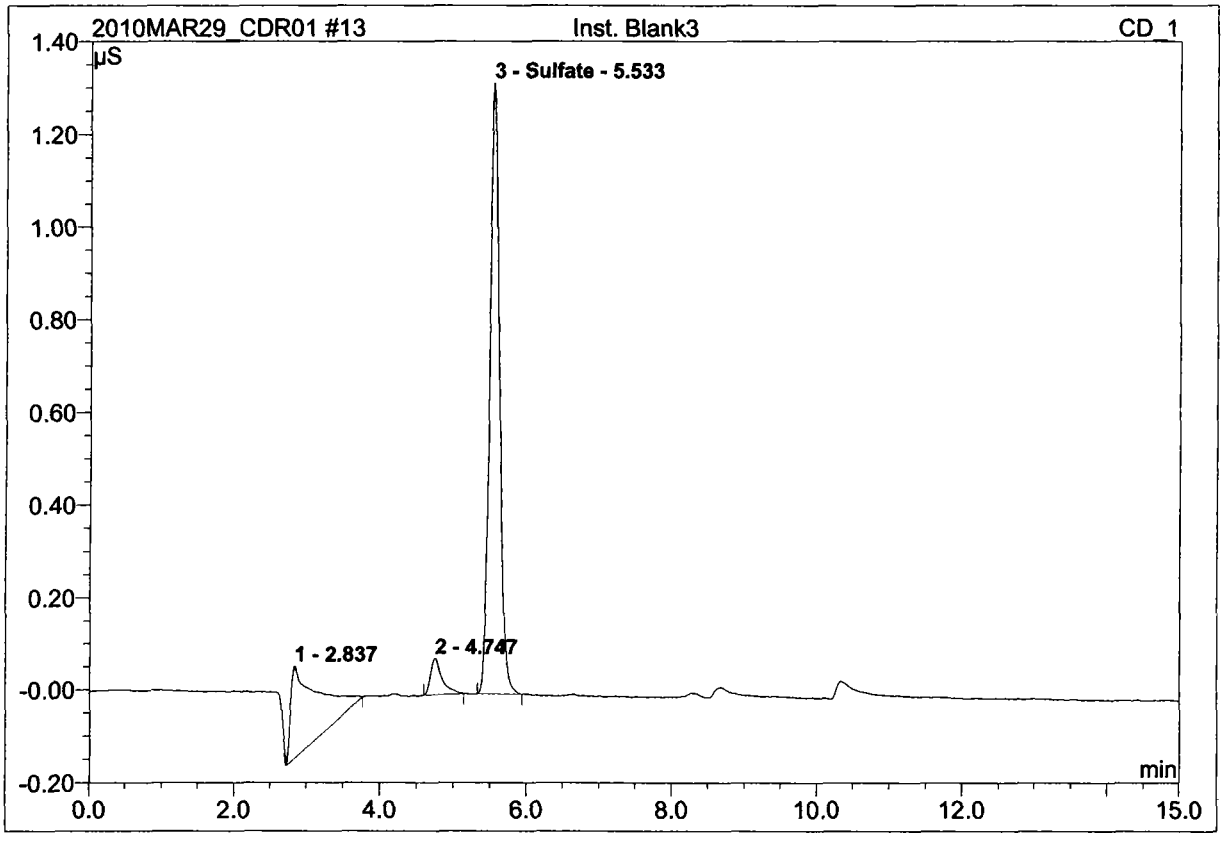
Sample Name:	**Inst. Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 14:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.205	0.081	84.40	n.a.	BMB
2	4.75	n.a.	0.080	0.015	15.60	n.a.	BMB
Total:			0.285	0.096	100.00	0.000	

13 Inst. Blank3

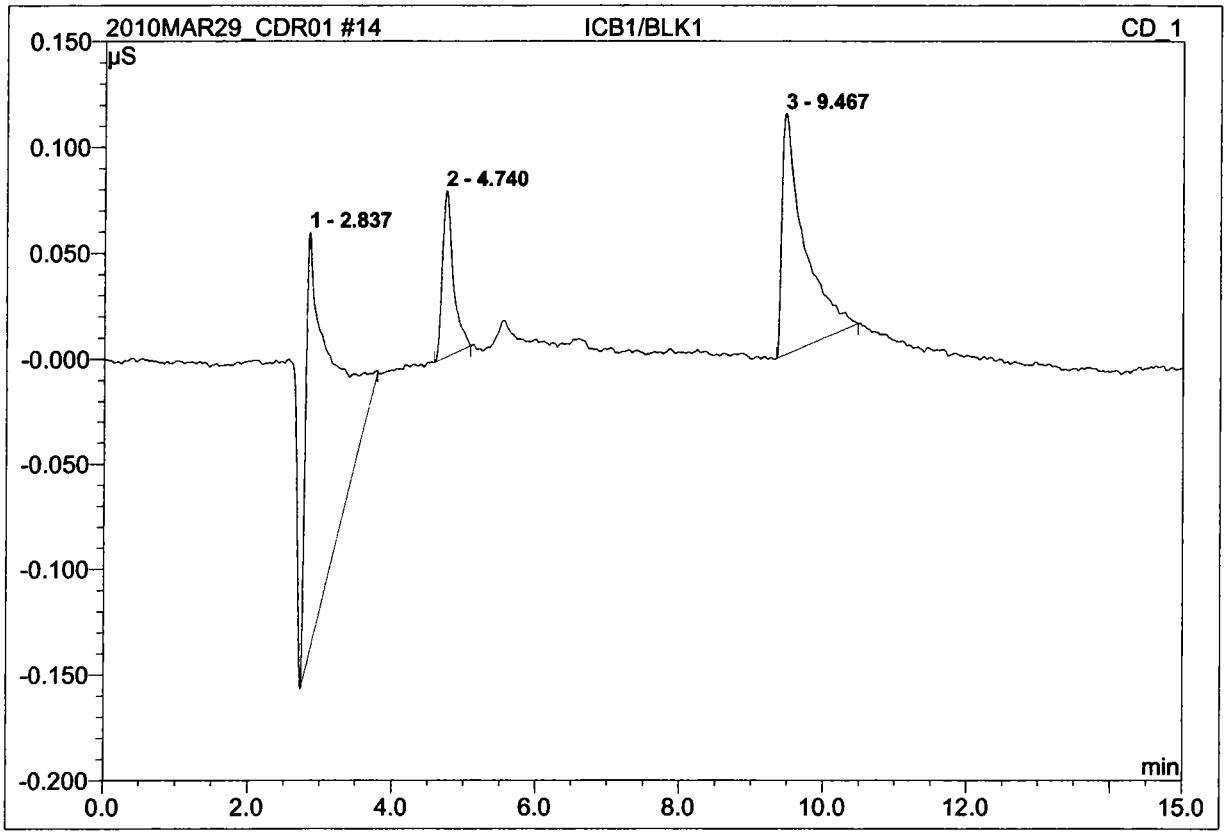
Sample Name:	**Inst. Blank3**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 14:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.199	0.084	27.53	n.a.	BMB
2	4.75	n.a.	0.079	0.014	4.58	n.a.	BMB
3	5.53	Sulfate	1.320	0.208	67.89	1.005	BMB
Total:			1.598	0.306	100.00	1.005	

14 ICB1/BLK1

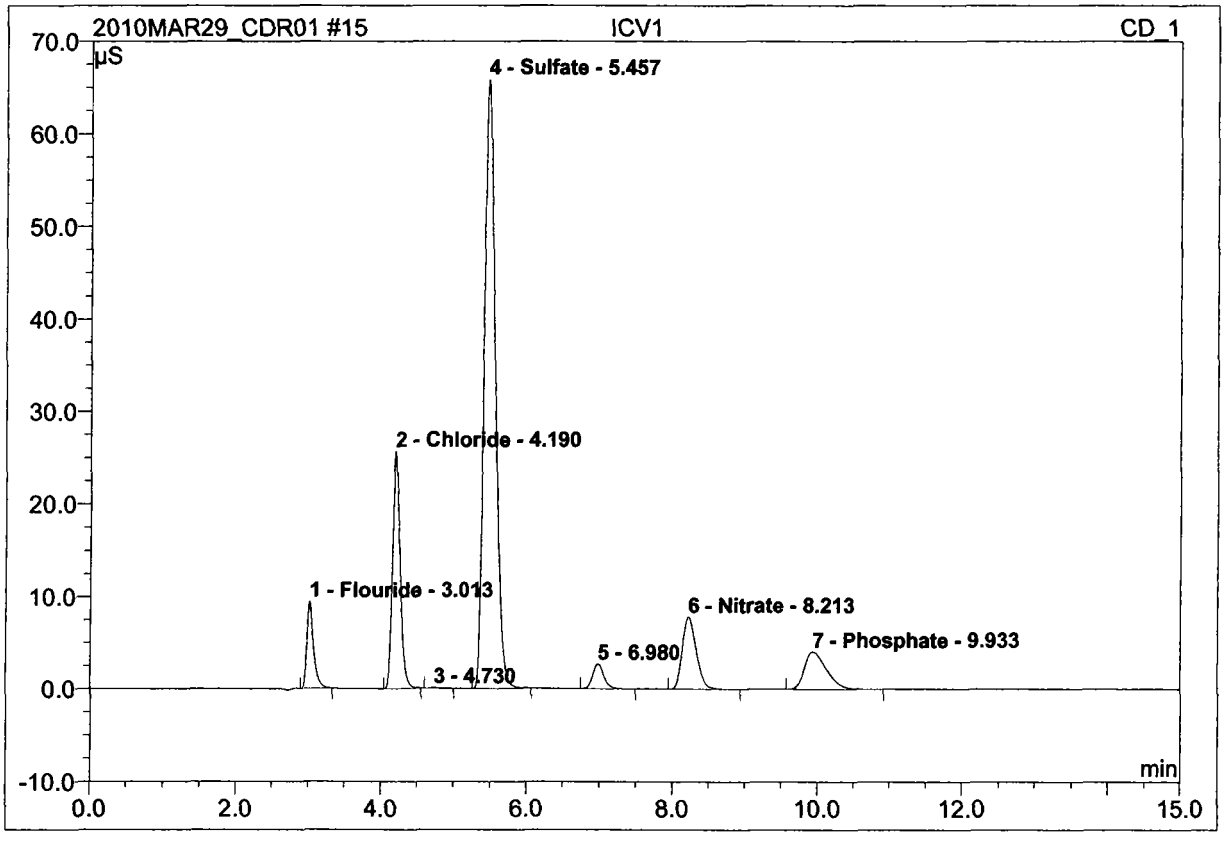
Sample Name:	**ICB1/BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 15:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.200	0.083	60.62	n.a.	BMB
2	4.74	n.a.	0.079	0.014	10.08	n.a.	BMB
3	9.47	n.a.	0.114	0.040	29.30	n.a.	BMB
Total:			0.393	0.137	100.00	0.000	

15 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 15:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

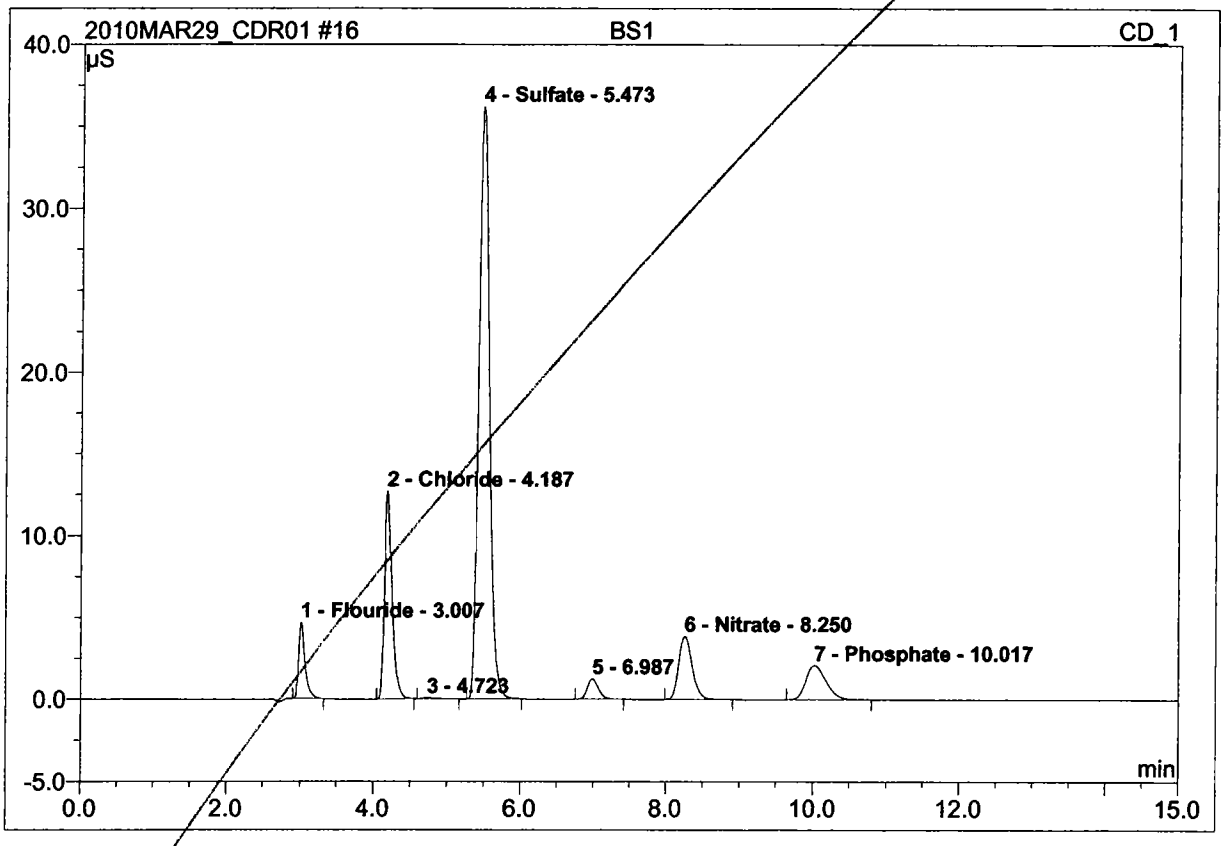


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	9.429	0.992	5.07	2.276	BMB
2	4.19	Chloride	25.670	3.108	15.89	11.514	BMB
3	4.73	n.a.	0.078	0.011	0.06	n.a.	BMB
4	5.46	Sulfate	65.879	11.822	60.45	60.047	BMB
5	6.98	n.a.	2.680	0.469	2.40	n.a.	BMB
6	8.21	Nitrate	7.833	1.734	8.86	11.946	BMB
7	9.93	Phosphate	4.042	1.421	7.27	17.831	BMB
Total:			115.610	19.557	100.00	103.614	

16 BS1

Sample Name:	**BS1**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 15:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA
4-14-10
not RCRA
data



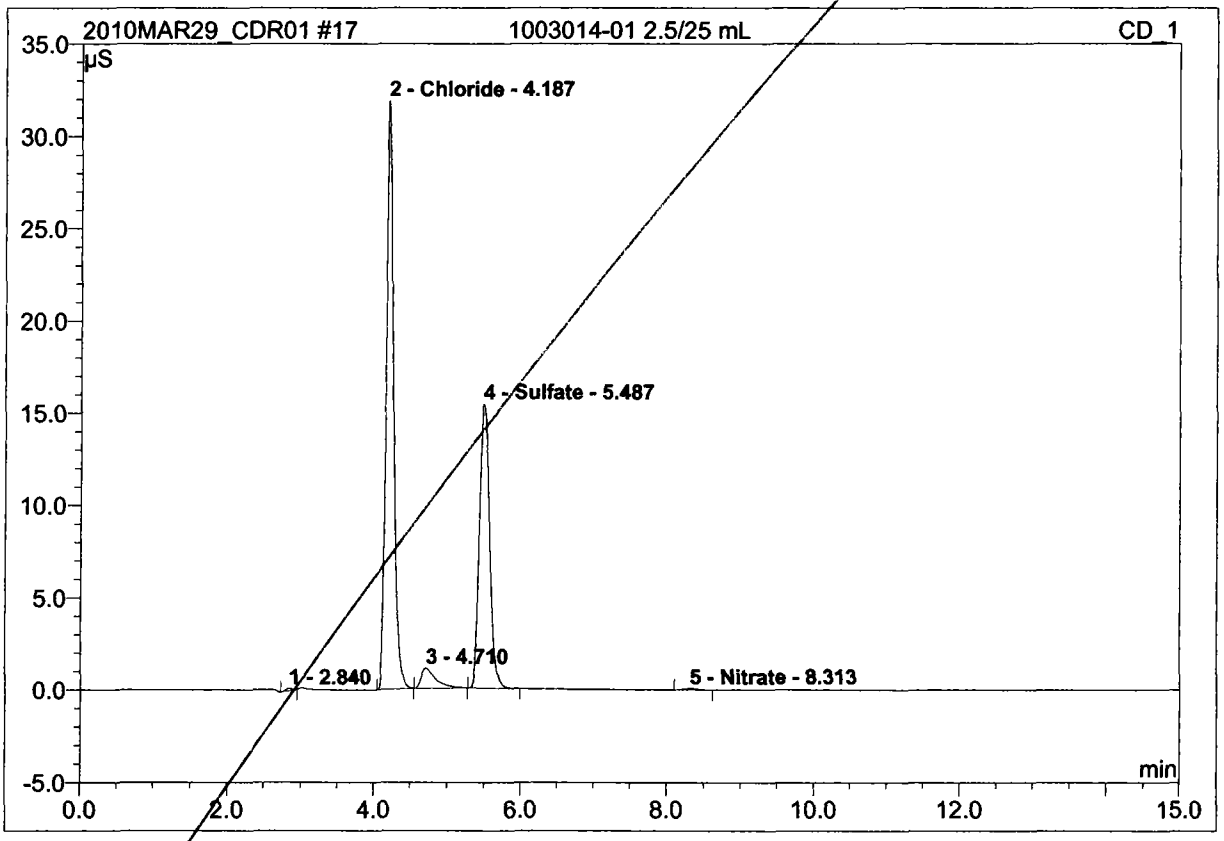
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	4.698	0.481	4.90	1.128	BMB
2	4.19	Chloride	12.703	1.518	15.45	5.659	BMB
3	4.72	n.a.	0.084	0.014	0.14	n.a.	BMB
4	5.47	Sulfate	36.209	6.100	62.07	30.960	BMB
5	6.99	n.a.	1.258	0.221	2.24	n.a.	BMB
6	8.25	Nitrate	3.880	0.825	8.39	5.779	BMB
7	10.02	Phosphate	2.098	0.669	6.80	8.642	BMB
Total:			60.930	9.828	100.00	52.169	

17 1003014-01 2.5/25 mL

Chloride dilution

AA 4/4/10 not RCA data

Sample Name:	**1003014-01 2.5/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 15:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



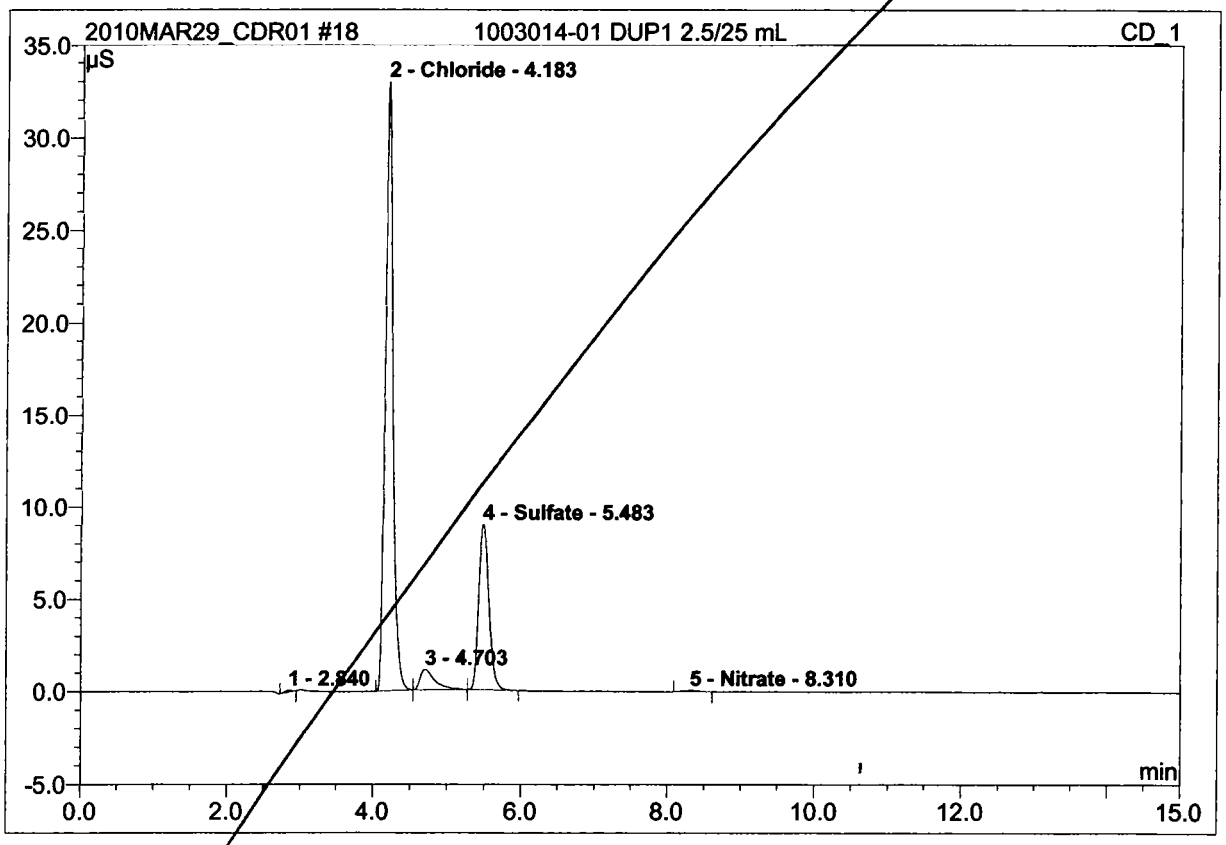
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.126	0.014	0.21	n.a.	BMB
2	4.19	Chloride	31.897	3.873	58.38	14.334	BMB
3	4.71	n.a.	1.089	0.250	3.77	n.a.	BMB
4	5.49	Sulfate	15.409	2.481	37.40	12.563	BMB
5	8.31	Nitrate	0.073	0.015	0.23	0.229	BMB
Total:			48.594	6.634	100.00	27.126	

18 1003014-01 DUP1 2.5/25 mL

Chloride dilution

AA 4-14-10 not RCRA data

Sample Name:	**1003014-01 DUP1 2.5/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 16:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



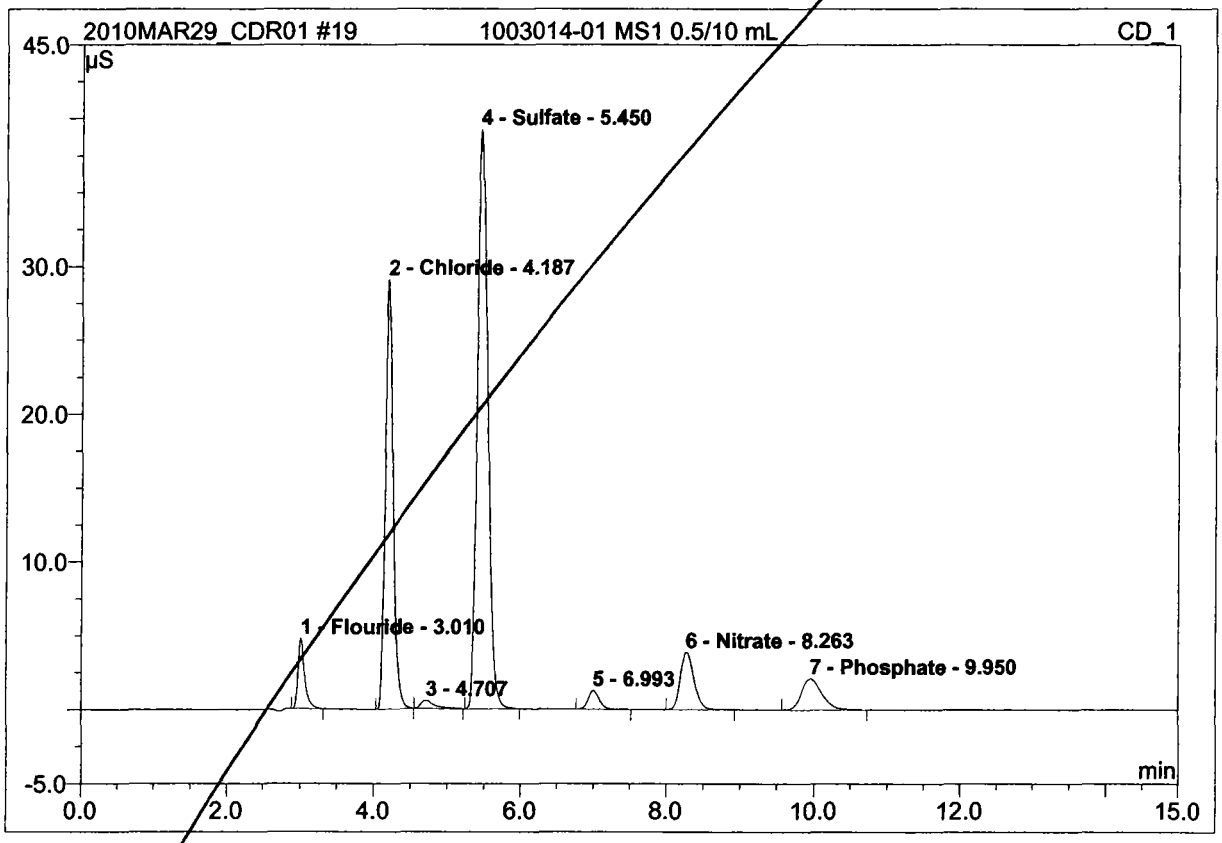
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.123	0.014	0.24	n.a.	BMB
2	4.18	Chloride	32.959	4.009	70.16	14.835	BMB
3	4.70	n.a.	1.112	0.257	4.50	n.a.	BMB
4	5.48	Sulfate	8.958	1.419	24.83	7.163	BMB
5	8.31	Nitrate	0.072	0.015	0.27	0.229	BMB
Total:			43.224	5.714	100.00	22.228	

19 1003014-01 MS1 0.5/10 mL

Chloride dilution

AA 4-14-10 not RCRA data

Sample Name:	**1003014-01 MS1 0.5/10 mL**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 16:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



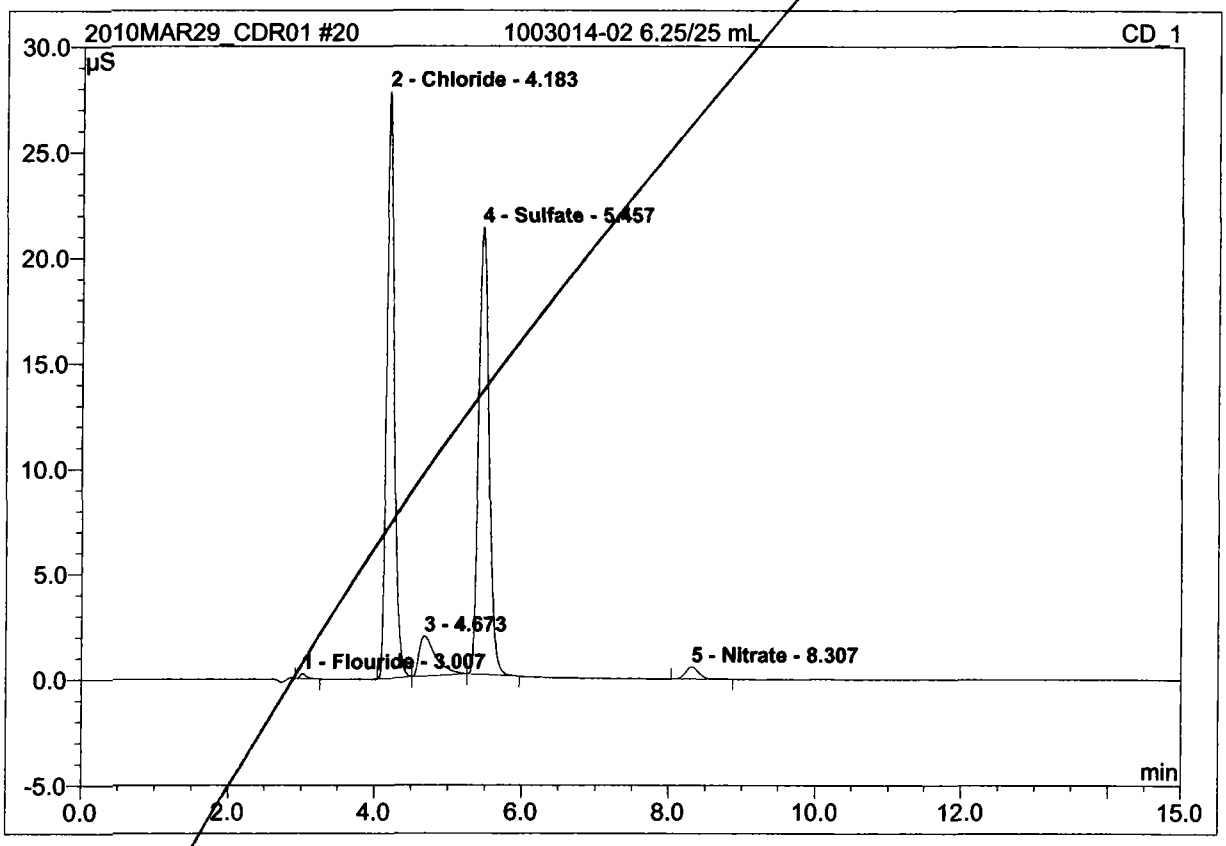
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	4.748	0.490	3.93	1.146	BMB
2	4.19	Chloride	29.059	3.533	28.35	13.080	BMB
3	4.71	n.a.	0.550	0.113	0.91	n.a.	BMB
4	5.45	Sulfate	39.219	6.608	53.03	33.543	BMB
5	6.99	n.a.	1.265	0.223	1.79	n.a.	BMB
6	8.26	Nitrate	3.894	0.828	6.64	5.802	BMB
7	9.95	Phosphate	2.094	0.667	5.35	8.625	BMB
Total:			80.831	12.462	100.00	62.197	

20 1003014-02 6.25/25 mL

Chloride dilution

AA 4-14-10 not RCRA data

Sample Name:	**1003014-02 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 16:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



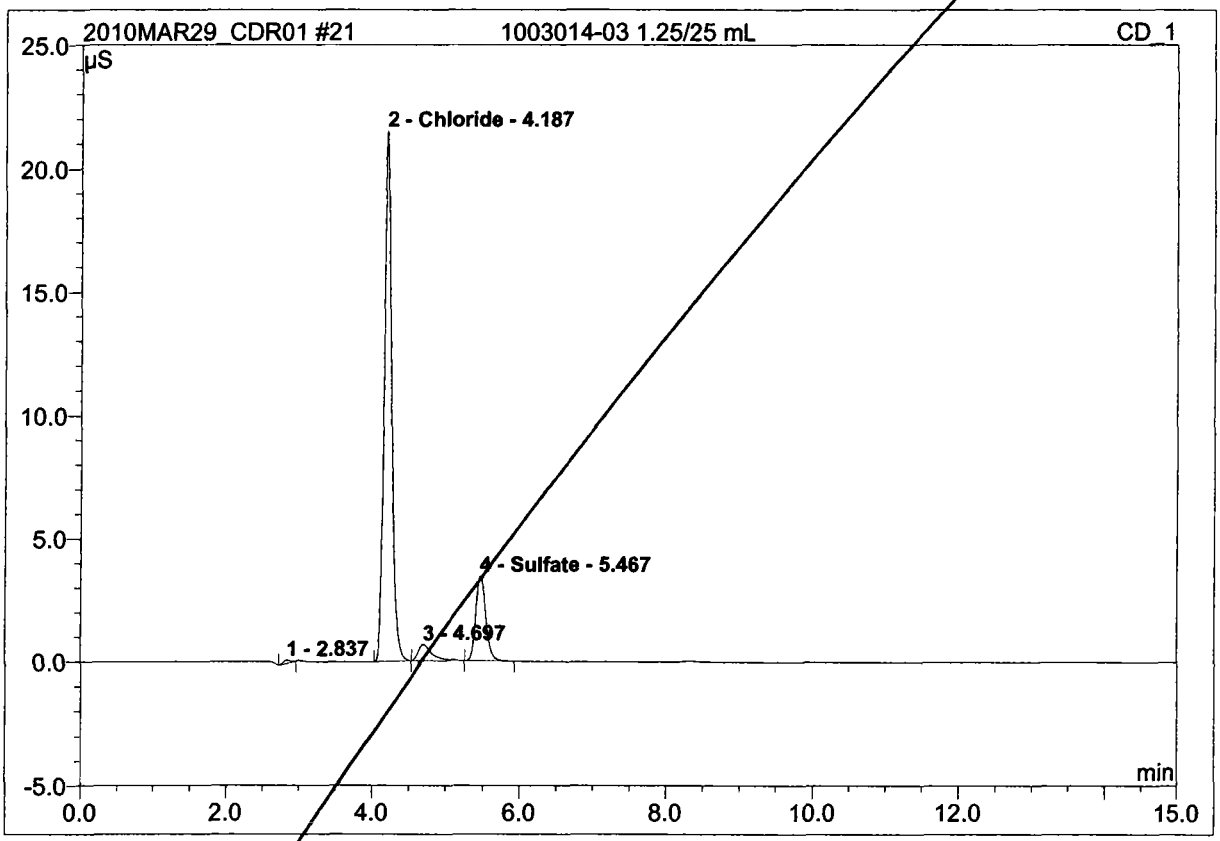
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	0.250	0.025	0.34	0.115	BMB
2	4.18	Chloride	27.831	3.370	45.15	12.479	BMB
3	4.67	n.a.	1.914	0.497	6.66	n.a.	BMB
4	5.46	Sulfate	21.237	3.447	46.19	17.474	BMB
5	8.31	Nitrate	0.589	0.125	1.67	0.983	BMB
Total:			51.820	7.464	100.00	31.050	

21 1003014-03 1.25/25 mL

Chloride dilution

Sample Name:	**1003014-03 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 17:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA 4-14-10 not RCRA data



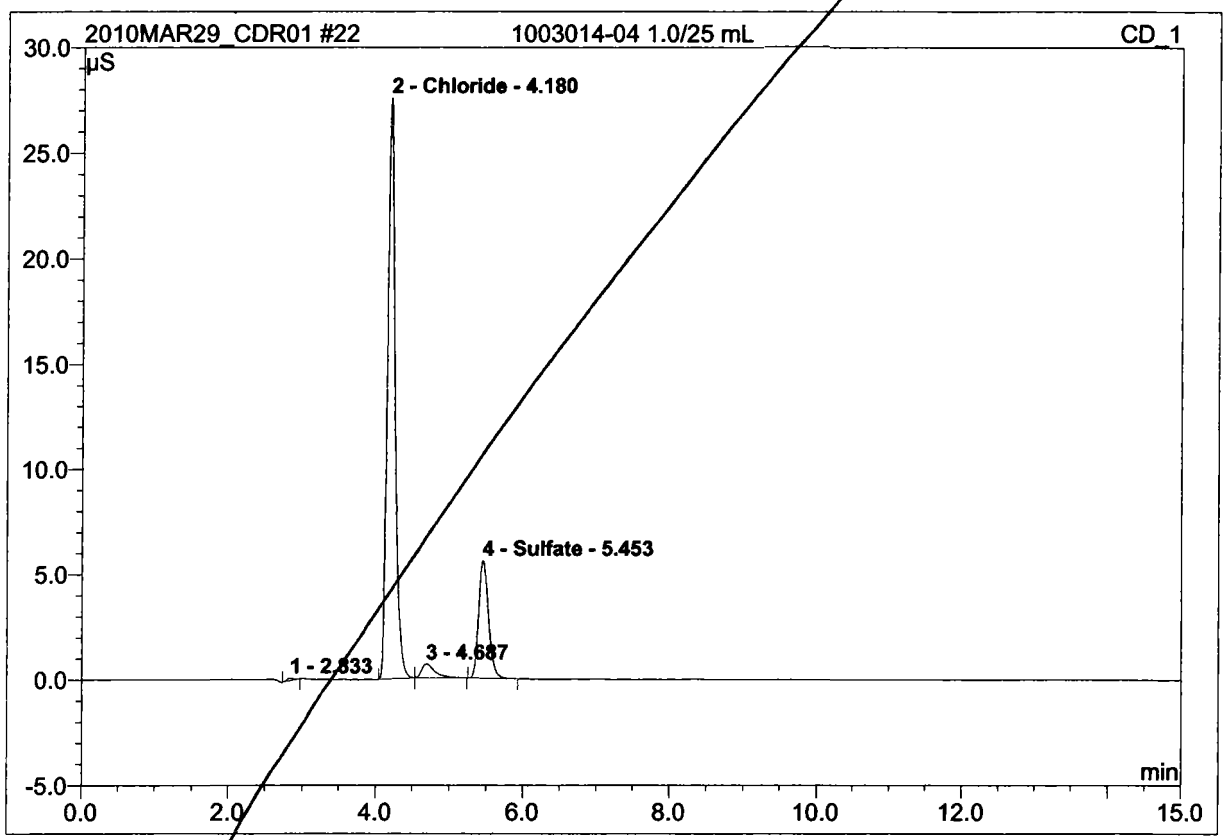
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.128	0.014	0.42	n.a.	BMB
2	4.19	Chloride	21.511	2.597	79.10	9.634	BMB
3	4.70	n.a.	0.644	0.137	4.18	n.a.	BMB
4	5.47	Sulfate	3.439	0.535	16.30	2.670	BMB
Total:			25.721	3.284	100.00	12.304	

22 1003014-04 1.0/25 mL

Chloride dilution

AA 4-14-10 not RCRA data

Sample Name:	**1003014-04 1.0/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 17:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



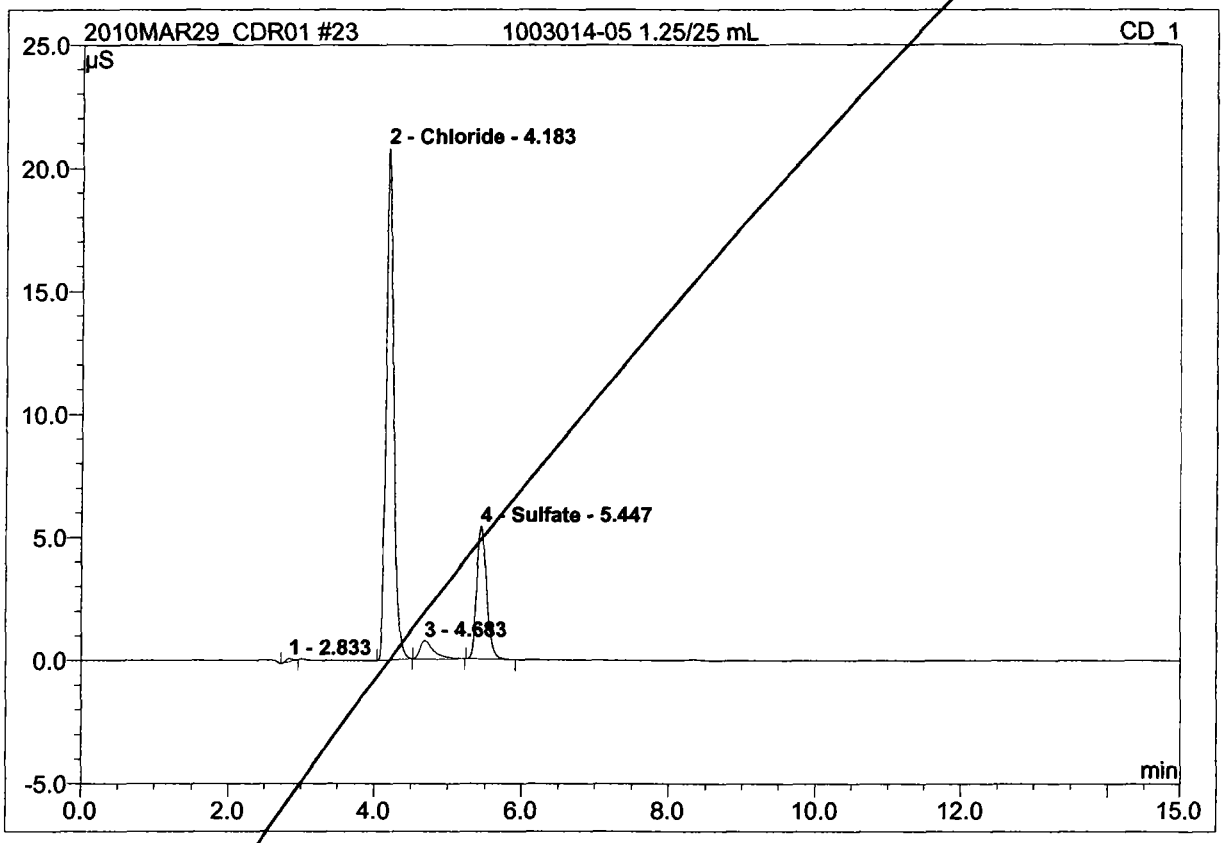
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.128	0.014	0.32	n.a.	BMB
2	4.18	Chloride	27.596	3.350	76.50	12.407	BMB
3	4.69	n.a.	0.669	0.142	3.24	n.a.	BMB
4	5.45	Sulfate	5.598	0.874	19.95	4.390	BMB
Total:			33.991	4.380	100.00	16.797	

23 1003014-05 1.25/25 mL

Chloride dilution

Sample Name:	**1003014-05 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 17:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA
4-14-10
not
RCRA
data



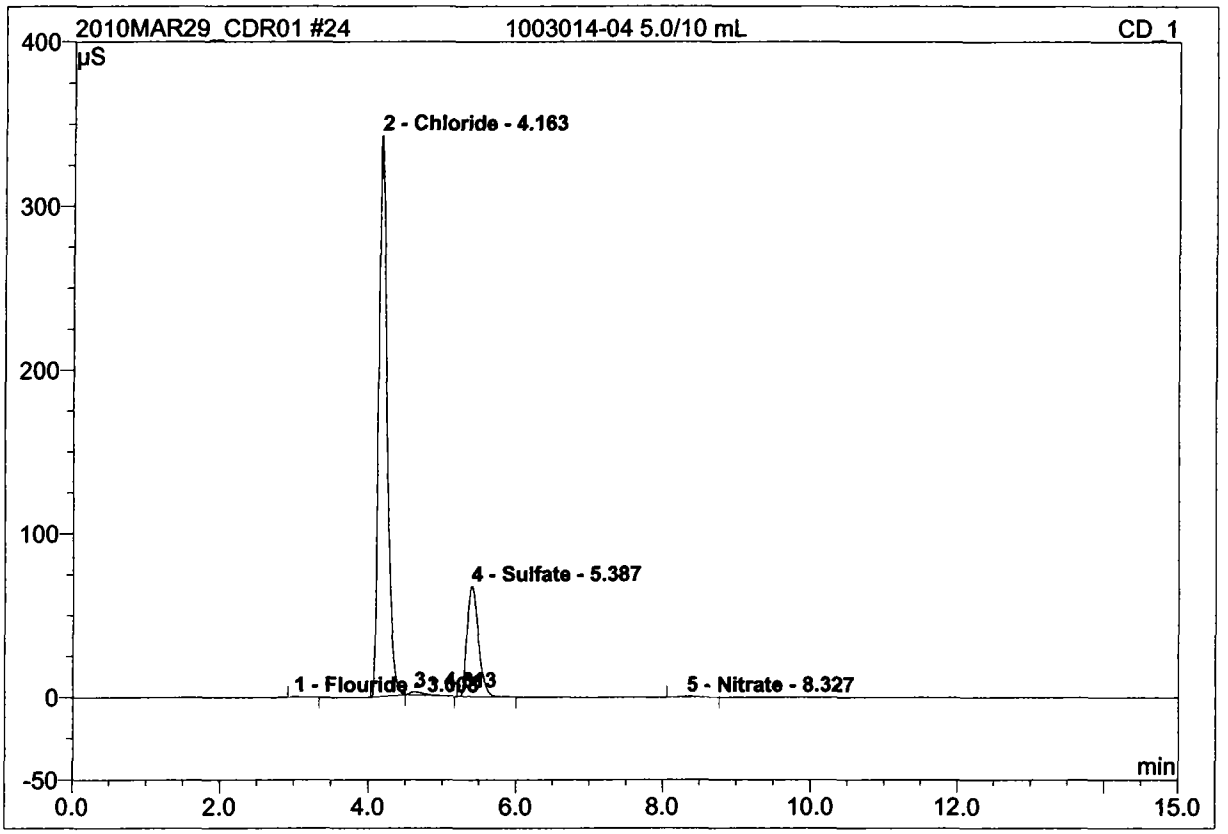
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.125	0.013	0.38	n.a.	BMB
2	4.18	Chloride	20.778	2.507	71.17	9.300	BMB
3	4.68	n.a.	0.736	0.160	4.54	n.a.	BMB
4	5.45	Sulfate	5.394	0.842	23.91	4.230	BMB
Total:			27.033	3.522	100.00	13.530	

24 1003014-04 5.0/10 mL

not reported
AA 3-20-10

Sulfate dilution

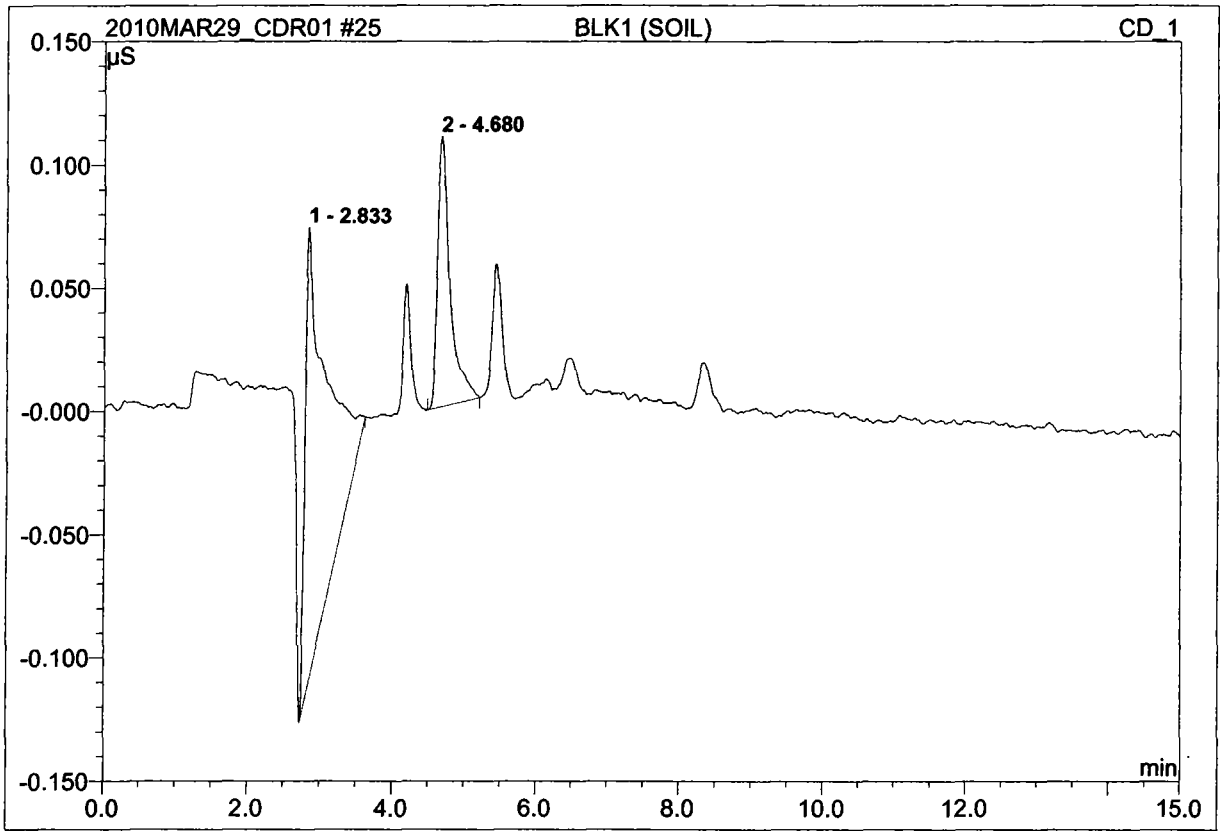
Sample Name:	**1003014-04 5.0/10 mL**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 18:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.00	Flouride	0.487	0.051	0.09	0.174	BMB
2	4.16	Chloride	342.944	44.279	77.69	163.171	BMB
3	4.61	n.a.	2.139	0.504	0.88	n.a.	bMB
4	5.39	Sulfate	67.756	12.076	21.19	61.340	BMB
5	8.33	Nitrate	0.390	0.083	0.15	0.694	BMB
Total:			413.716	56.993	100.00	225.378	

25 BLK1 (SOIL)

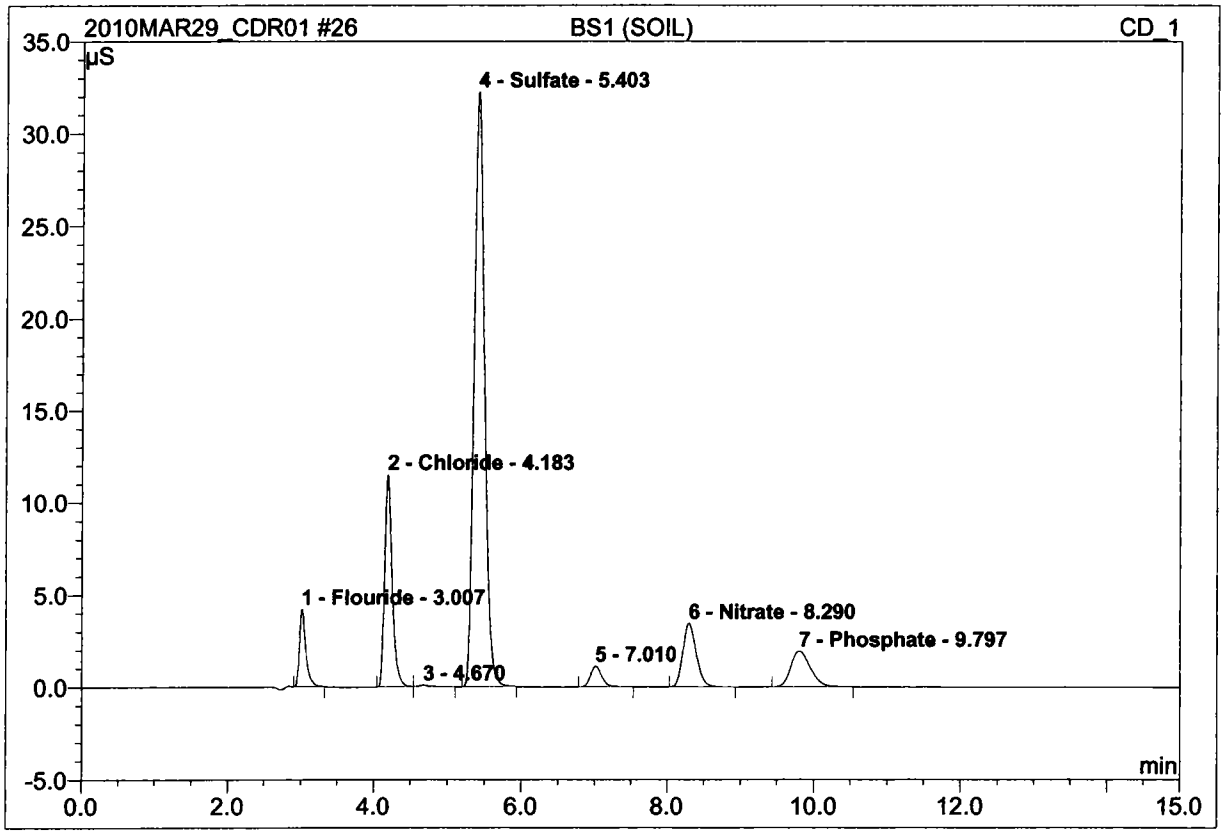
Sample Name:	**BLK1 (SOIL)**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 18:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.186	0.063	74.17	n.a.	BMB
2	4.68	n.a.	0.110	0.022	25.83	n.a.	BMB
Total:			0.296	0.085	100.00	0.000	

26 BS1 (SOIL)

Sample Name:	**BS1 (SOIL)**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 18:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

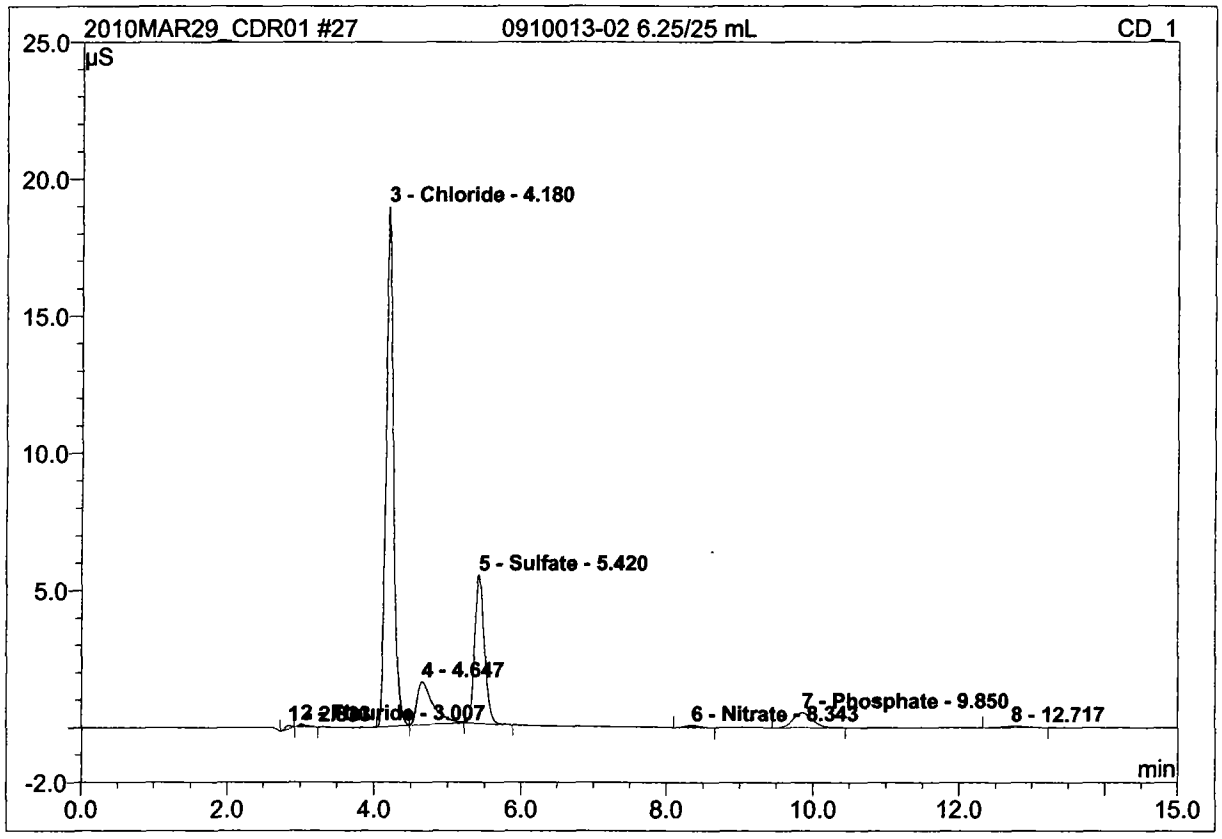


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	4.205	0.434	5.00	1.022	BMB
2	4.18	Chloride	11.514	1.376	15.85	5.137	BMB
3	4.67	n.a.	0.099	0.016	0.19	n.a.	BMB
4	5.40	Sulfate	32.225	5.323	61.30	27.007	BMB
5	7.01	n.a.	1.124	0.199	2.29	n.a.	BMB
6	8.29	Nitrate	3.447	0.735	8.46	5.166	BMB
7	9.80	Phosphate	1.936	0.601	6.92	7.801	BMB
Total:			54.551	8.683	100.00	46.132	

27 0910013-02 6.25/25 mL

Chloride dilution

Sample Name:	**0910013-02 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 19:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

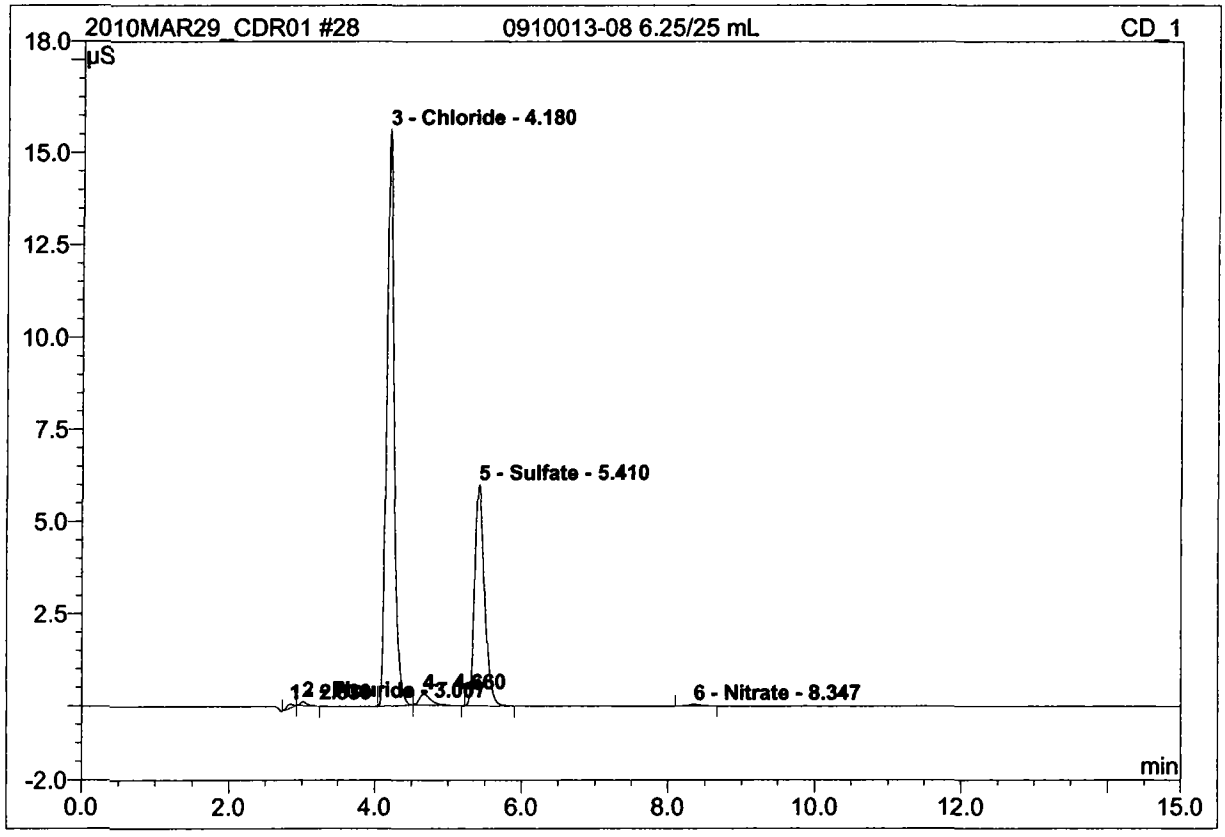


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.118	0.012	0.31	n.a.	BMB
2	3.01	Flouride	0.096	0.011	0.30	0.084	bMB
3	4.18	Chloride	18.983	2.279	61.13	8.461	BMb
4	4.65	n.a.	1.562	0.388	10.40	n.a.	bMb
5	5.42	Sulfate	5.424	0.838	22.49	4.211	bMB
6	8.34	Nitrate	0.076	0.016	0.44	0.238	BMB
7	9.85	Phosphate	0.546	0.165	4.44	2.350	BMB
8	12.72	n.a.	0.046	0.018	0.48	n.a.	BMB
Total:			26.851	3.728	100.00	15.344	

28 0910013-08 6.25/25 mL

Chloride dilution

Sample Name:	**0910013-08 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 19:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



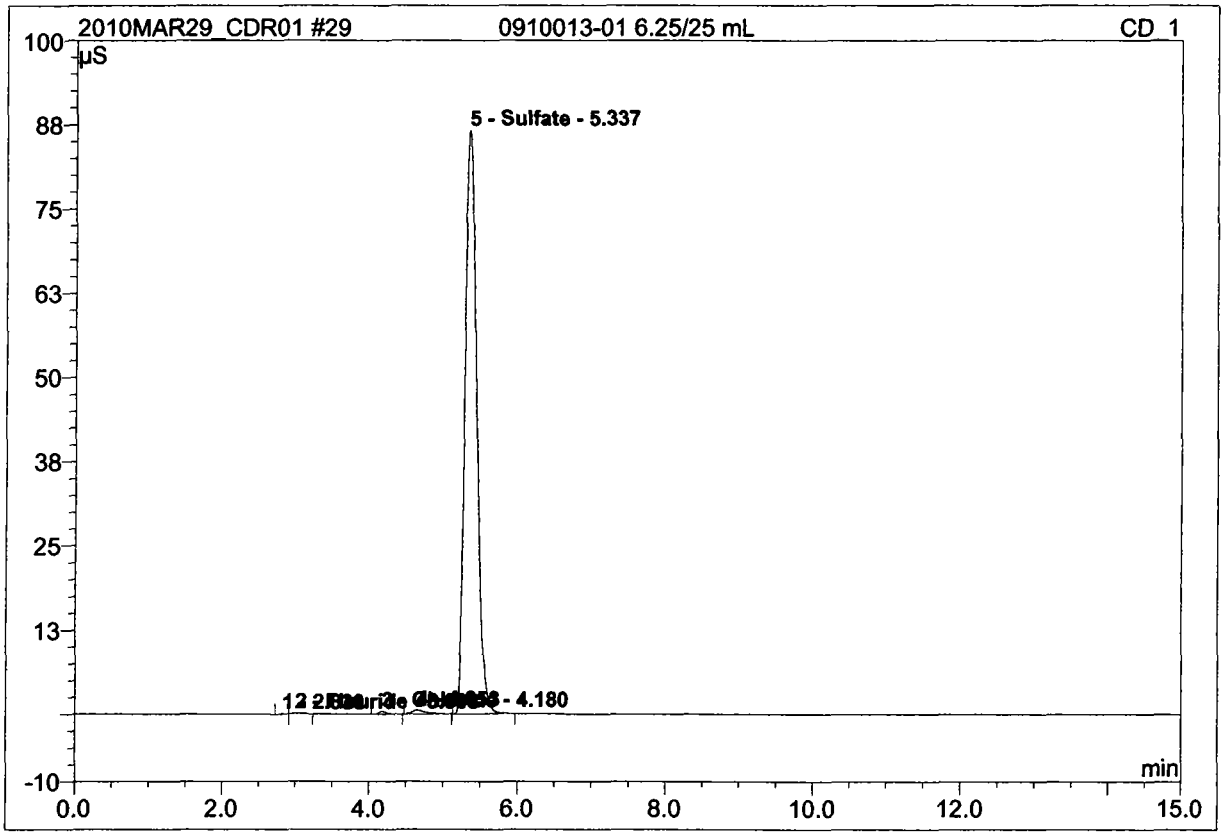
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.118	0.011	0.40	n.a.	BMB
2	3.01	Flouride	0.118	0.012	0.41	0.086	bMB
3	4.18	Chloride	15.629	1.878	64.68	6.984	BMB
4	4.66	n.a.	0.308	0.058	1.98	n.a.	BMB
5	5.41	Sulfate	5.993	0.934	32.18	4.699	BMB
6	8.35	Nitrate	0.049	0.010	0.36	0.196	BMB
Total:			22.215	2.904	100.00	11.966	

29 0910013-01 6.25/25 mL

not reported
AA 3-20-10

Sulfate dilution

Sample Name:	**0910013-01 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 19:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



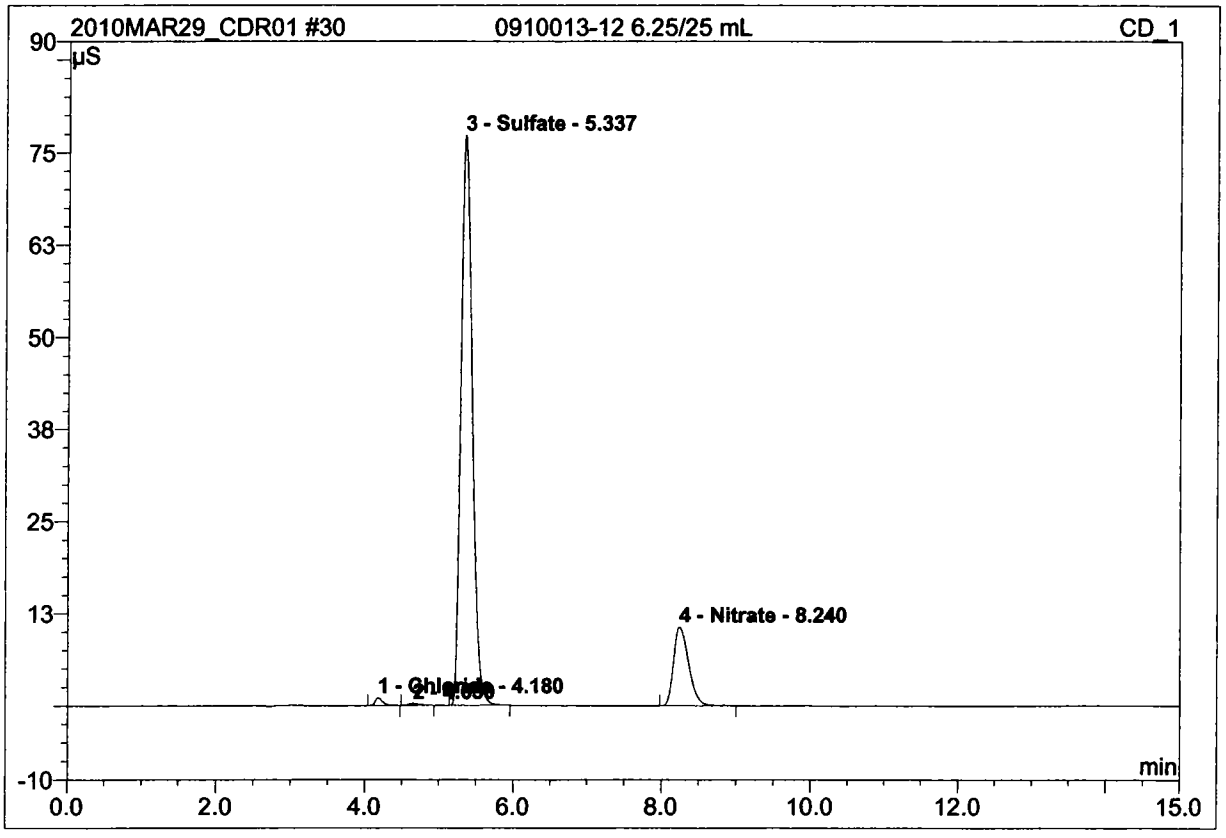
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.110	0.011	0.07	n.a.	BMb
2	3.00	Flouride	0.132	0.014	0.08	0.090	bMB
3	4.18	Chloride	0.404	0.048	0.30	0.243	BMB
4	4.65	n.a.	0.538	0.114	0.71	n.a.	BMB
5	5.34	Sulfate	86.640	15.885	98.84	80.703	BMB
Total:			87.823	16.071	100.00	81.037	

30 0910013-12 6.25/25 mL

not reported
AA 3-20-10

Sulfate dilution

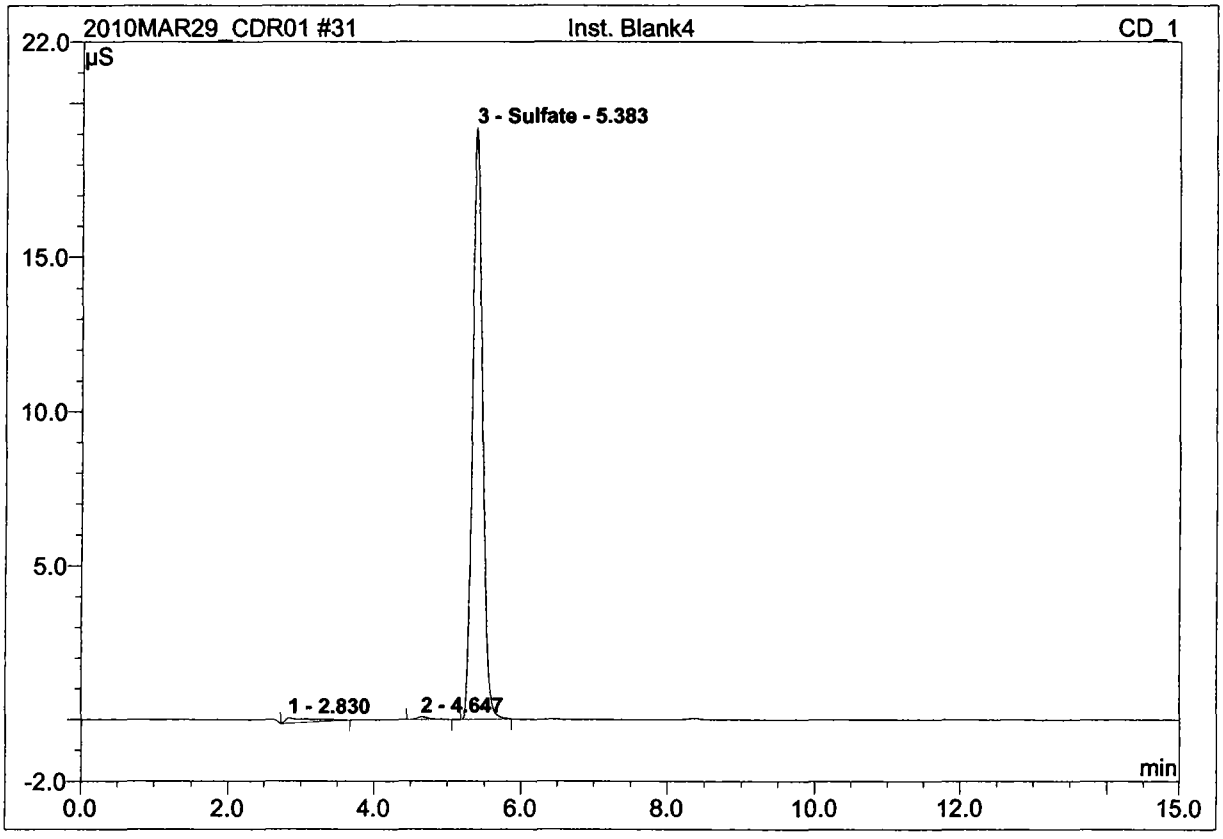
Sample Name:	**0910013-12 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 19:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.18	Chloride	1.082	0.127	0.77	0.535	BMB
2	4.65	n.a.	0.284	0.049	0.30	n.a.	BMB
3	5.34	Sulfate	77.315	13.880	83.94	70.507	BMB
4	8.24	Nitrate	10.714	2.478	14.99	16.946	BMB
Total:			89.394	16.534	100.00	87.988	

31 Inst. Blank4

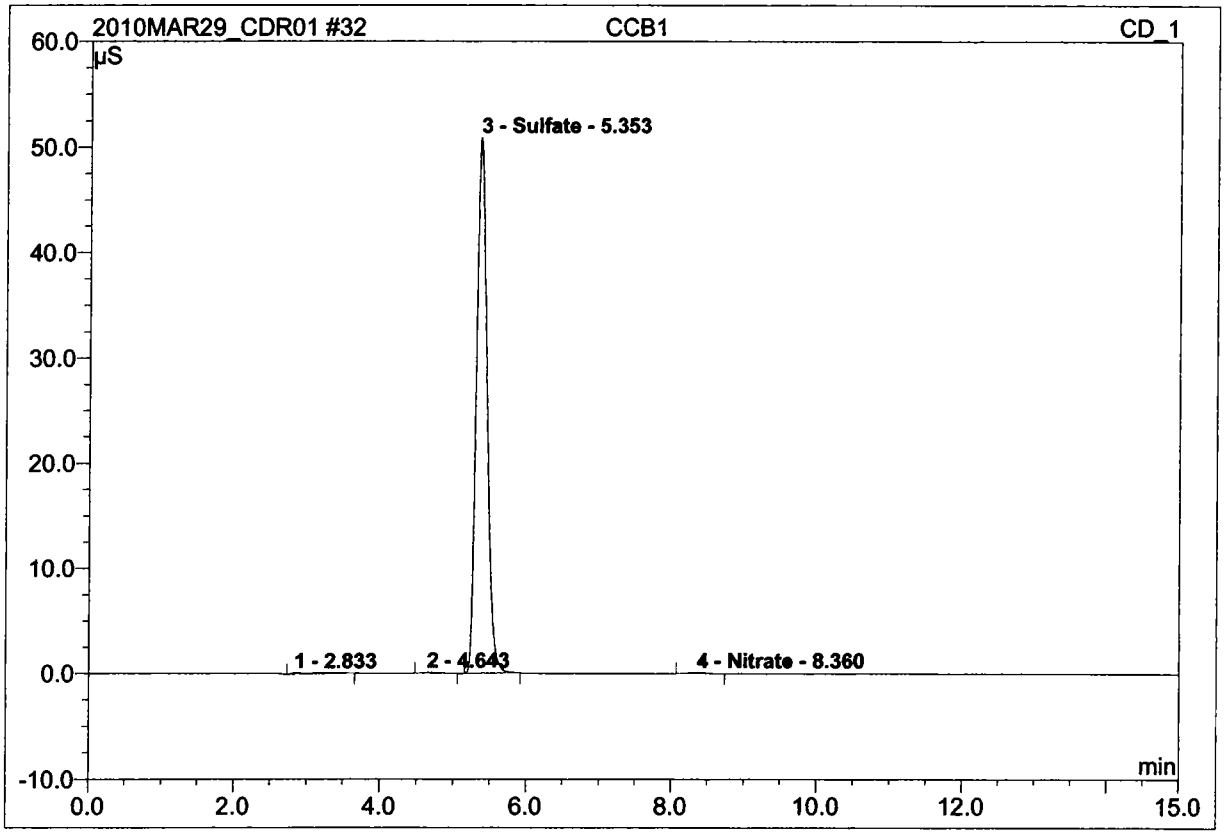
Sample Name:	**Inst. Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 20:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.172	0.064	2.02	n.a.	BMB
2	4.65	n.a.	0.092	0.017	0.54	n.a.	BMB
3	5.38	Sulfate	19.205	3.085	97.45	15.634	BMB
Total:			19.469	3.166	100.00	15.634	

32 CCB1

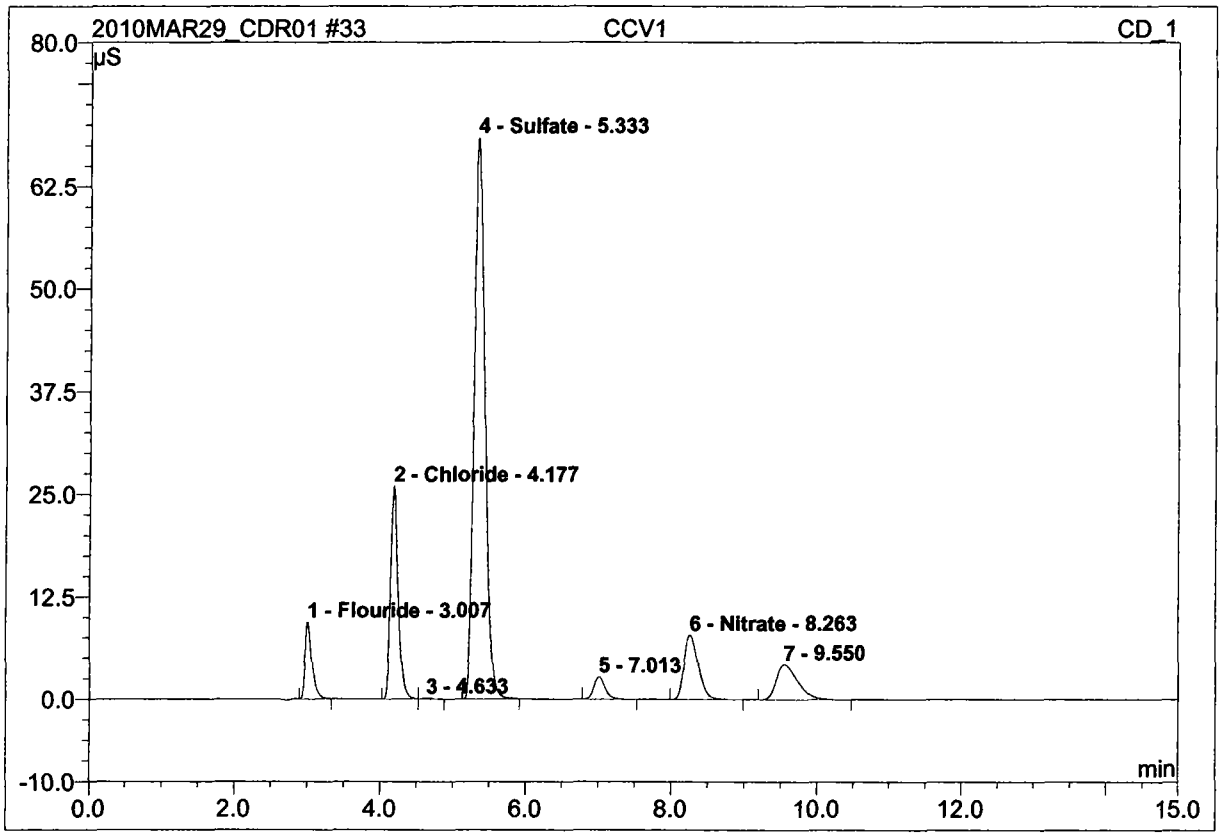
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 20:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.167	0.062	0.71	n.a.	BMB
2	4.64	n.a.	0.089	0.016	0.18	n.a.	BMB
3	5.35	Sulfate	50.885	8.687	98.84	44.112	BMB
4	8.36	Nitrate	0.109	0.024	0.27	0.288	BMB
Total:			51.250	8.789	100.00	44.400	

33 CCV1

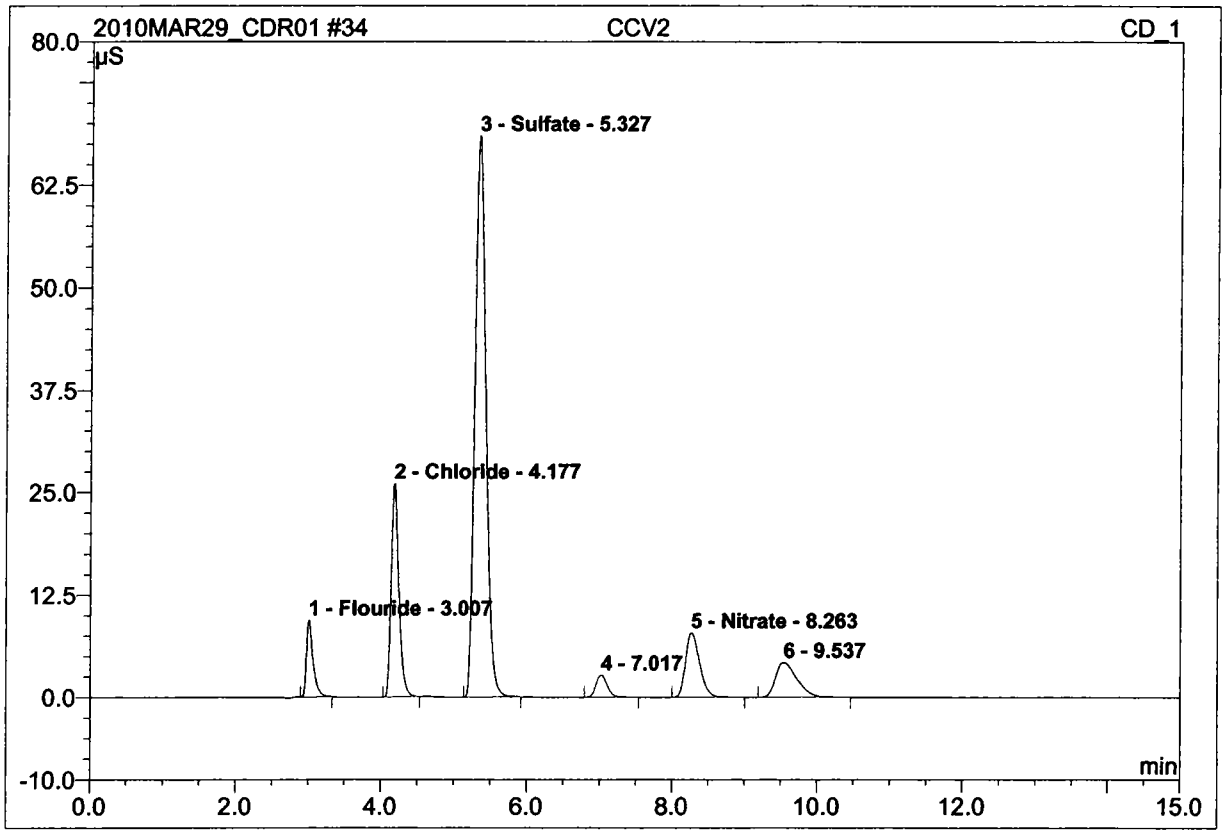
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 20:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	9.400	1.006	5.06	2.306	BMB
2	4.18	Chloride	25.994	3.161	15.91	11.709	BMb
3	4.63	n.a.	0.077	0.010	0.05	n.a.	bMB
4	5.33	Sulfate	68.413	12.005	60.44	60.976	BMB
5	7.01	n.a.	2.698	0.475	2.39	n.a.	BMB
6	8.26	Nitrate	7.868	1.765	8.89	12.158	BMB
7	9.55	n.a.	4.238	1.439	7.25	n.a.	BMB
Total:			118.687	19.861	100.00	87.149	

34 CCV2

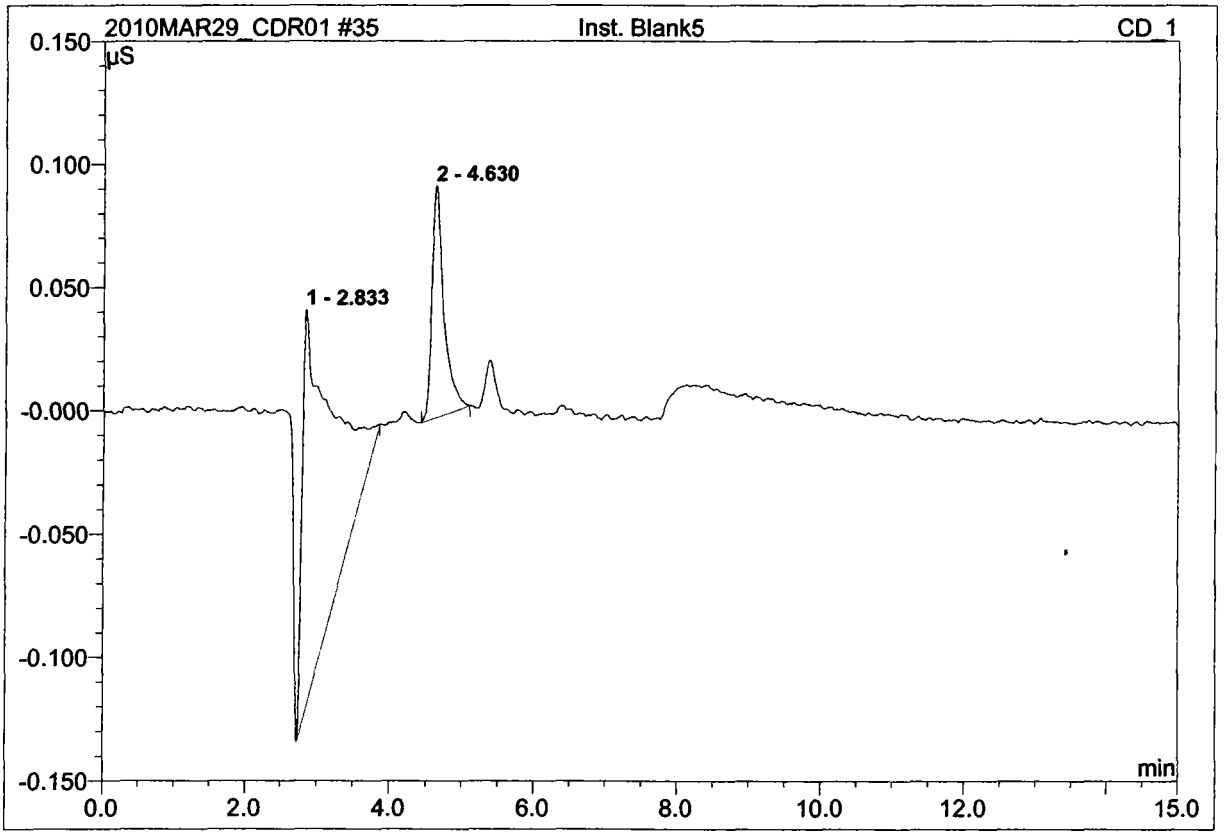
Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 21:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	9.414	1.007	5.07	2.310	BMB
2	4.18	Chloride	26.053	3.169	15.95	11.741	BMB
3	5.33	Sulfate	68.459	12.002	60.40	60.965	BMB
4	7.02	n.a.	2.701	0.476	2.40	n.a.	BMB
5	8.26	Nitrate	7.894	1.774	8.93	12.218	BMB
6	9.54	n.a.	4.256	1.443	7.26	n.a.	BMB
Total:			118.778	19.872	100.00	87.234	

35 Inst. Blank5

Sample Name:	**Inst. Blank5**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/29/2010 21:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.163	0.074	80.51	n.a.	BMB
2	4.63	n.a.	0.094	0.018	19.49	n.a.	BMB
Total:			0.257	0.092	100.00	0.000	

ANALYSIS SEQUENCE

0C30005

Instrument: IC 5

Calibnration ID: 9121001

Printed: 3/30/2010 3:21:41PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0C30005-IBL1	QC	Inst. Blank1		1				
0C30005-IBL2	QC	Inst. Blank2		2				
0C30005-ICB1	QC	ICB1/BLK1		3				
0C30005-ICV1	QC	ICV1		4		0033020		
0C30005-IBL3	QC	Inst. Blank3		5				
0C30005-IBL4	QC	Inst. Blank4		6				
0C30005-IBL5	QC	Inst. Blank5		7				
0C30005-CCB1	QC	CCB1		8				
0C30005-CCV1	QC	CCV1		9		0033020		
0C30005-IBL6	QC	Inst. Blank6		10				

Samples Loaded By Date

Data Processed By Date

QC SUMMARY FORM
FOR
WO NO.: 1003014, 0910013

CRL.SOP AIG045A Rev #0.1
Inorganic Analysis by
Ion Chromatography

BEGINNING: 3/30/2010 Sequence: 2010MAR30_CDR01

ICB1/BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	~	0.02
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

ICV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	~	~
	Chloride	93-103	12.00	~	~
	Sulfate	**96-106**	**60.00**	**60.913**	**101.5**
	Bromide	90-106	4.50	~	~
	Nitrate	90-106	12.00	~	~
	O-Phosphate	89-105	18.00	~	~

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	~	0.02
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

CCV1	ANIONS	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	88-102	2.40	~	~
	Chloride	93-103	12.00	~	~
	Sulfate	**96-106**	**60.00**	**60.672**	**101.1**
	Bromide	90-106	4.50	~	~
	Nitrate	90-106	12.00	~	~
	O-Phosphate	89-105	18.00	~	~

Sequence: 2010MAR30_CDR01
Operator: Aaleszc2
Printed: 3/30/2010 2:57:03 PM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 24

Created: 3/30/2010 7:30:16 AM by Aaleszc2
Last Update: 3/30/2010 10:22:13 AM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	STD1	Standard	2	25.0	Anions_AS18	default	Finished	12/8/2009 12:05:44 PM	1.0000
2	STD2	Standard	3	25.0	Anions_AS18	default	Finished	12/8/2009 12:24:13 PM	1.0000
3	STD3	Standard	4	25.0	Anions_AS18	default	Finished	12/8/2009 12:42:41 PM	1.0000
4	STD4	Standard	5	25.0	Anions_AS18	default	Finished	12/8/2009 1:01:09 PM	1.0000
5	STD5	Standard	6	25.0	Anions_AS18	default	Finished	12/8/2009 1:19:38 PM	1.0000
6	STD6	Standard	7	25.0	Anions_AS18	default	Finished	12/8/2009 1:38:06 PM	1.0000
7	STD7	Standard	8	25.0	Anions_AS18	default	Finished	12/8/2009 1:56:34 PM	1.0000
8	STD8	Standard	9	25.0	Anions_AS18	default	Finished	12/8/2009 2:15:03 PM	1.0000
9	STD9	Standard	10	25.0	Anions_AS18	default	Finished	12/8/2009 2:33:31 PM	1.0000
10	STD10	Standard	11	25.0	Anions_AS18	default	Finished	12/8/2009 2:51:59 PM	1.0000
~~11~~	~~Control~~	~~Unknown~~	~~1~~	~~25.0~~	~~Anions_AS18~~	~~default~~	~~Finished~~	~~3/30/2010 10:26:13 AM~~	~~1.0000~~
12	Inst. Blank1	Unknown	2	25.0	Anions_AS18	default	Finished	3/30/2010 10:44:41 AM	1.0000
13	Inst. Blank2	Unknown	3	25.0	Anions_AS18	default	Finished	3/30/2010 11:03:09 AM	1.0000
14	ICB1/BLK1	Unknown	4	25.0	Anions_AS18	default	Finished	3/30/2010 11:21:38 AM	1.0000
15	ICV1	Unknown	5	25.0	Anions_AS18	default	Finished	3/30/2010 11:40:06 AM	1.0000
16	1003014-04 5.0/10 mL	Unknown	6	25.0	Anions_AS18	default	Finished	3/30/2010 11:58:34 AM	1.0000
17	0910013-01 6.25/25 mL	Unknown	7	25.0	Anions_AS18	default	Finished	3/30/2010 12:17:03 PM	1.0000
18	0910013-12 6.25/25 mL	Unknown	8	25.0	Anions_AS18	default	Finished	3/30/2010 12:35:31 PM	1.0000
19	Inst. Blank3	Unknown	9	25.0	Anions_AS18	default	Finished	3/30/2010 12:53:59 PM	1.0000
20	Inst. Blank4	Unknown	10	25.0	Anions_AS18	default	Finished	3/30/2010 1:12:27 PM	1.0000
21	Inst. Blank5	Unknown	11	25.0	Anions_AS18	default	Finished	3/30/2010 1:30:56 PM	1.0000
22	CCB1	Unknown	12	25.0	Anions_AS18	default	Finished	3/30/2010 1:49:24 PM	1.0000
23	CCV1	Unknown	13	25.0	Anions_AS18	default	Finished	3/30/2010 2:07:52 PM	1.0000
24	Inst. Blank6	Unknown	14	25.0	Anions_AS18	default	Finished	3/30/2010 2:26:21 PM	1.0000

ot reported
3-30-10

Sequence: 2010MAR30_CDR01
Operator: Aaleszc2
Printed: 3/30/2010 2:57:03 PM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010
Timebase: System_2
#Samples: 24

Created: 3/30/2010 7:30:16 AM by Aaleszc2
Last Update: 3/30/2010 10:22:13 AM by Aaleszc2

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000	1.0000		01	
2	STD2	1.0000	1.0000		01	
3	STD3	1.0000	1.0000		01	
4	STD4	1.0000	1.0000		01	
5	STD5	1.0000	1.0000		01	
6	STD6	1.0000	1.0000		01	
7	STD7	1.0000	1.0000		01	
8	STD8	1.0000	1.0000		01	
9	STD9	1.0000	1.0000		01	
10	STD10	1.0000	1.0000		01	
11	Control	1.0000	1.0000		01	
12	Inst. Blank1	1.0000	1.0000		01	
13	Inst. Blank2	1.0000	1.0000		01	
14	ICB1/BLK1	1.0000	1.0000		01	
15	ICV1	1.0000	1.0000		01	
16	1003014-04 5.0/10 mL	1.0000	1.0000		01	Sulfate dilution
17	0910013-01 6.25/25 mL	1.0000	1.0000		01	Sulfate dilution
18	0910013-12 6.25/25 mL	1.0000	1.0000		01	Sulfate dilution
19	Inst. Blank3	1.0000	1.0000		01	
20	Inst. Blank4	1.0000	1.0000		01	
21	Inst. Blank5	1.0000	1.0000		01	
22	CCB1	1.0000	1.0000		01	
23	CCV1	1.0000	1.0000		01	
24	Inst. Blank6	1.0000	1.0000		01	

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
        Sampler.AcquireExclusiveAccess
        Sampler_DiverterValve.Position 2
        Column_TC.AcquireExclusiveAccess
        Compartment_TC.AcquireExclusiveAccess
        Flush                                   Volume = 250
        Pressure.LowerLimit =                   200 (psi)
        Pressure.UpperLimit                     3000 (psi)
        MaximumFlowRamp =                       6.00 (ml/min²)
        %A.Equate =                             "%A"
        CR_TC                                   On
        Wait                                    FlushState
        Data_Collection_Rate                    [illegible] (Hz)
        Temperature_Compensation =              1.[illegible] (%/°C)
        CellHeater.TemperatureSet               35.00 (°C)
        Suppressor1.Type =                      ASRS_4mm
        CurrentSet =                            80 (mA)
        Concentration                           30.00 (mM)
        EGC_1.Curve
        Flow                                    1.000 (ml/min)
        Pump_1.Curve                            5
        NeedleHeight                            2 (mm)
        CutSegmentVolume                        10 (µl)
        SyringeSpeed =                          4
        SyringeTime =                           0 (min)
        WaitForTemperature                      False
        CellHeater.Mode                         = On
        ; Suppressor1.Carbonate =               0.0
        ; Suppressor1.Bicarbonate               0.
        ; Suppressor1.Hydroxide                32.0
        ; Suppressor1.Tetraborate               0.0
        ; Suppressor1.Other eluent              0.0
        ; Suppressor1.Recommended Current =                    80
        Wait                                    SampleReady

.000    Cpet1.Autozero
        Load
        Wait                                    CycleTimeState
        Inject
        Wait                                    Injection Table
        CD_1.AcqOn
        Sampler.ReleaseExclusiveAccess

10.000  CD_1.AcqOff
        Compartment_TC.ReleaseExclusiveAccess
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:39:18 PM by FAWANYA

```
Column_TC.ReleaseExclusiveAccess
End
```

Program File:	Anions_AS18	Printed: 3/30/2010 2:57:04 PM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:39:18 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	2.600	Inhibit Integration	Off	All Channels

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.200 AG	External	Area	XLOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.300 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.700 min	0.600 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.300 min	4.000000	8.000000					
5	Nitrate	8.700 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.300 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.700 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.300 min			
5	Nitrate	8.700 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*2*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*12/8/2009 12:05:44 P*	
2	☒	STD2	2	3	25.0	1.0000	1.0000	1.0000	12/8/2009 12:24:13 P	
3	☒	STD3	3	4	25.0	1.0000	1.0000	1.0000	12/8/2009 12:42:41 P	
4	☒	STD4	4	5	25.0	1.0000	1.0000	1.0000	12/8/2009 1:01:09 P	
5	☒	STD5	5	6	25.0	1.0000	1.0000	1.0000	12/8/2009 1:19:38 P	
6	☒	STD6	6	7	25.0	1.0000	1.0000	1.0000	12/8/2009 1:38:06 P	
7	☒	STD7	7	8	25.0	1.0000	1.0000	1.0000	12/8/2009 1:56:34 P	
8	☒	STD8	8	9	25.0	1.0000	1.0000	1.0000	12/8/2009 2:15:03 P	
9	☒	STD9	9	10	25.0	1.0000	1.0000	1.0000	12/8/2009 2:33:31 P	
10	☒	STD1	10	11	25.0	1.0000	1.0000	1.0000	12/8/2009 2:51:59 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	*STD1*	*Ok*	
2	☒	STD2	Ok	
3	☒	STD3	Ok	
4	☒	STD4	Ok	
5	☒	STD5	Ok	
6	☒	STD6	Ok	
7	☒	STD7	Ok	
8	☒	STD8	Ok	
9	☒	STD9	Ok	
10	☒	STD1	Ok	

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

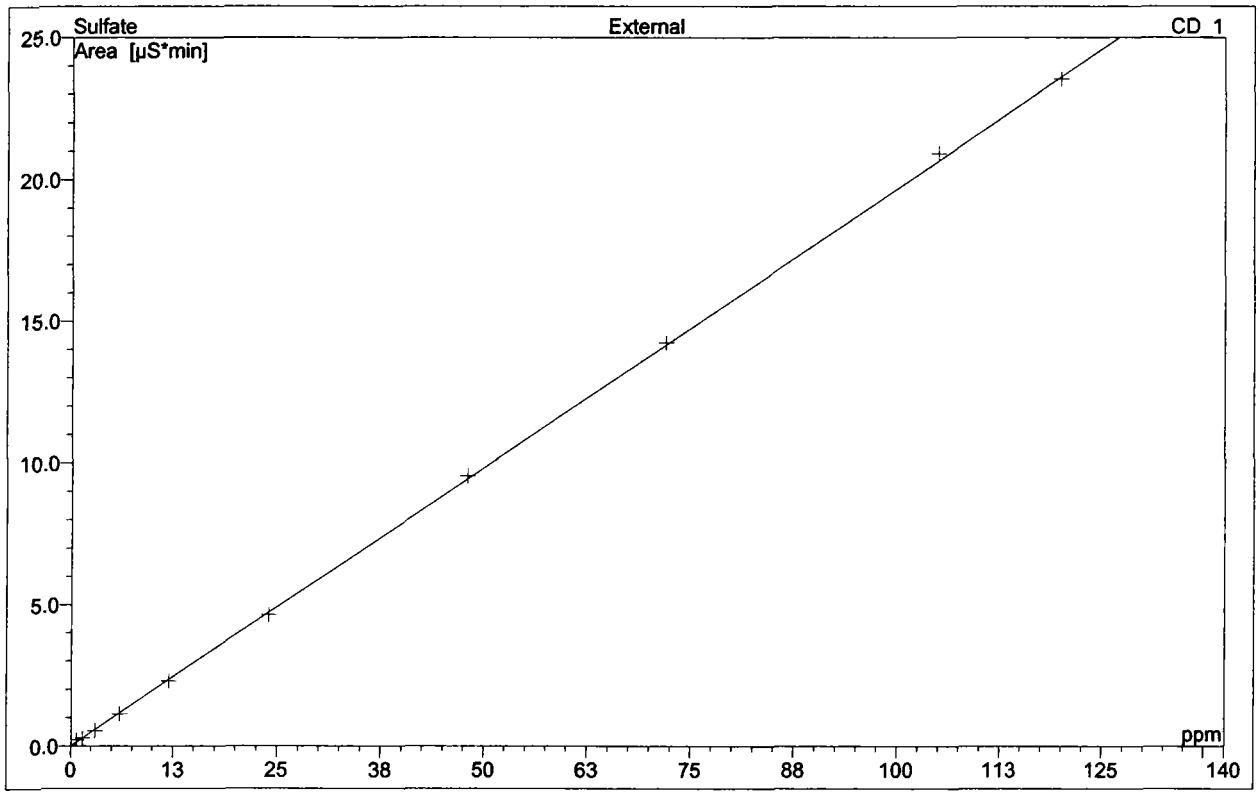
Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2010\2010MAR30_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 3/19/2010 8:19:48 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

5 STD5

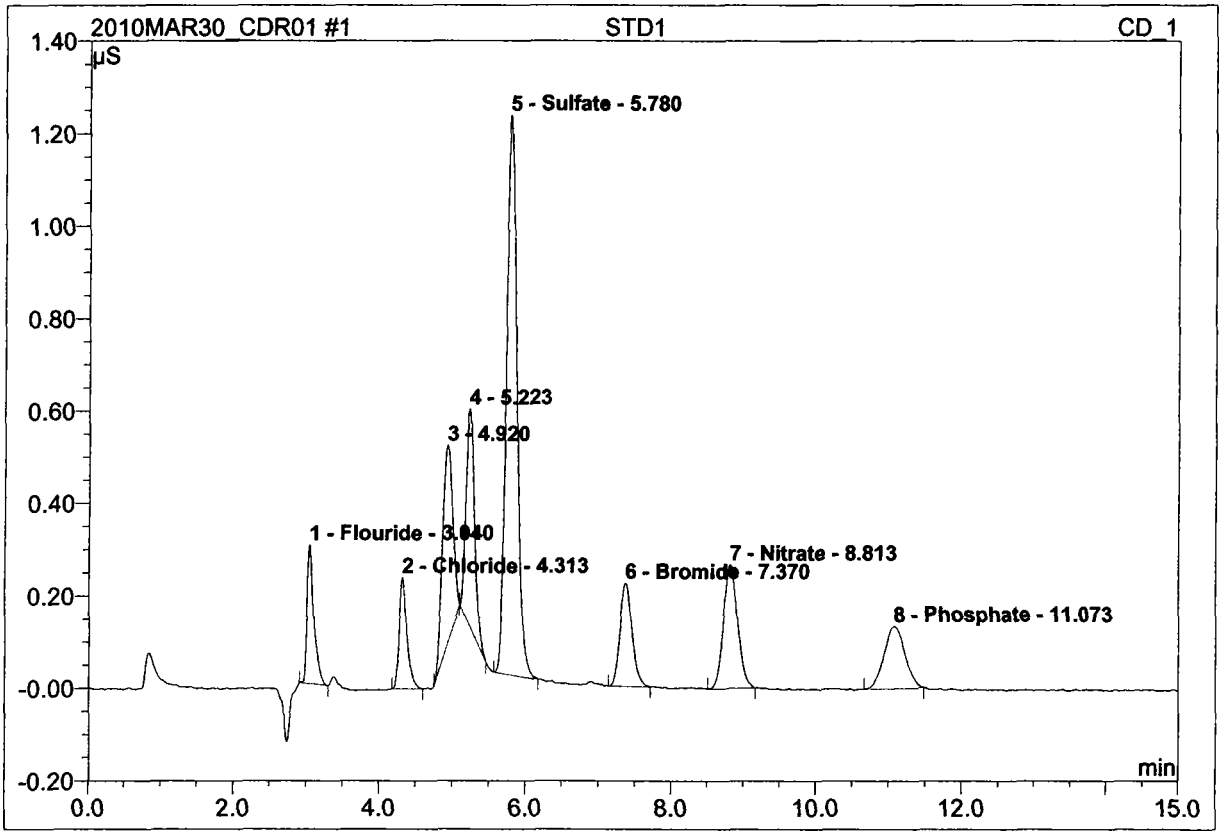
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.04	Flouride	QOff	10	99.9957	-0.0273	0.4542	-0.0027
2	4.31	Chloride	XLOff	10	99.9413	-0.0180	0.2715	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.79	Sulfate	XLOff	10	99.9437	0.0100	0.1967	0.0000
6	7.34	Bromide	QOff	5	99.9934	-0.0110	0.1021	0.0010
7	8.73	Nitrate	XQOff	10	99.9836	-0.0181	0.1450	0.0001
8	10.97	Phosphate	XQOff	8	99.9753	-0.0198	0.0786	0.0001
Average:					99.9722	-0.0140	0.2080	-0.0002

1 STD1

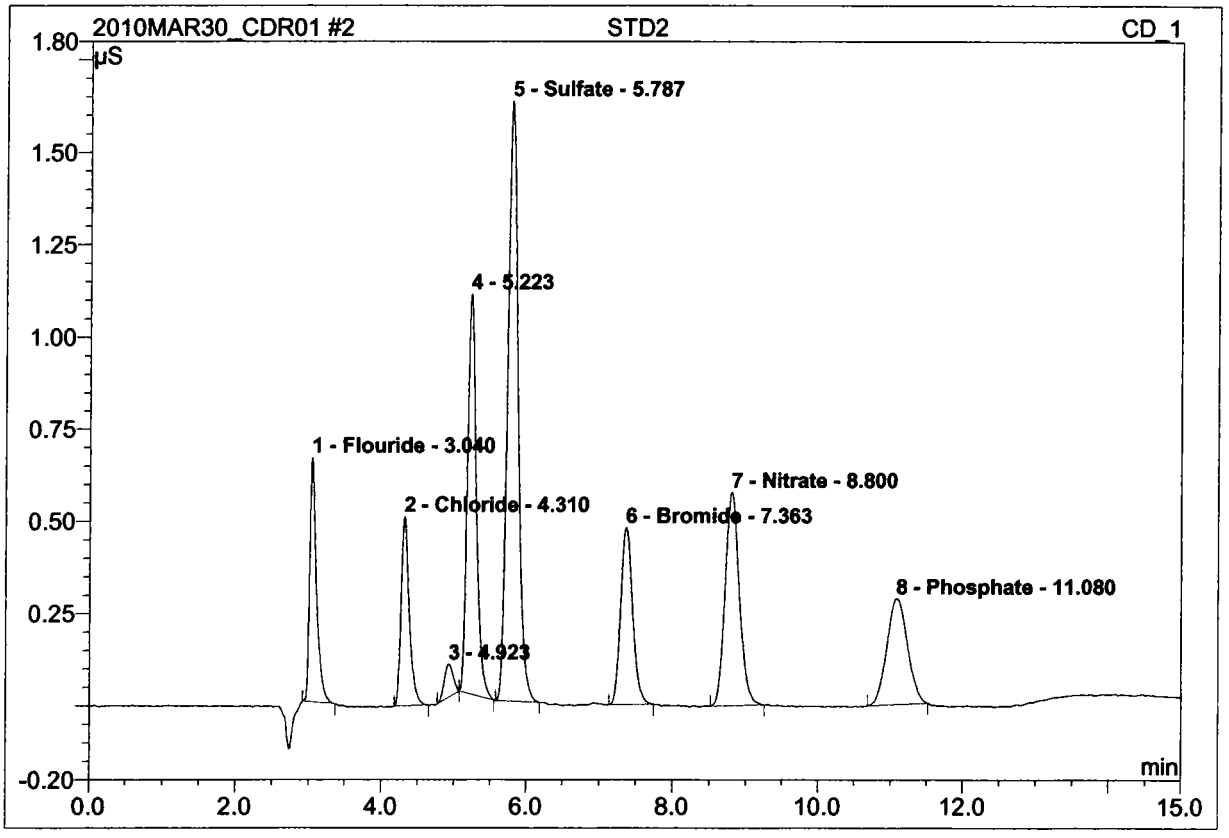
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.301	0.032	5.87	0.131	BMB
2	4.31	Chloride	0.241	0.031	5.61	0.179	BMB
3	4.92	n.a.	0.435	0.070	12.87	n.a.	BMb
4	5.22	n.a.	0.467	0.062	11.37	n.a.	bMB
5	5.78	Sulfate	1.211	0.204	37.28	0.986	BMB
6	7.37	Bromide	0.223	0.043	7.83	0.524	BMB
7	8.81	Nitrate	0.267	0.061	11.07	0.542	BMB
8	11.07	Phosphate	0.135	0.044	8.11	0.816	BMB
Total:			3.281	0.547	100.00	3.179	

2 STD2

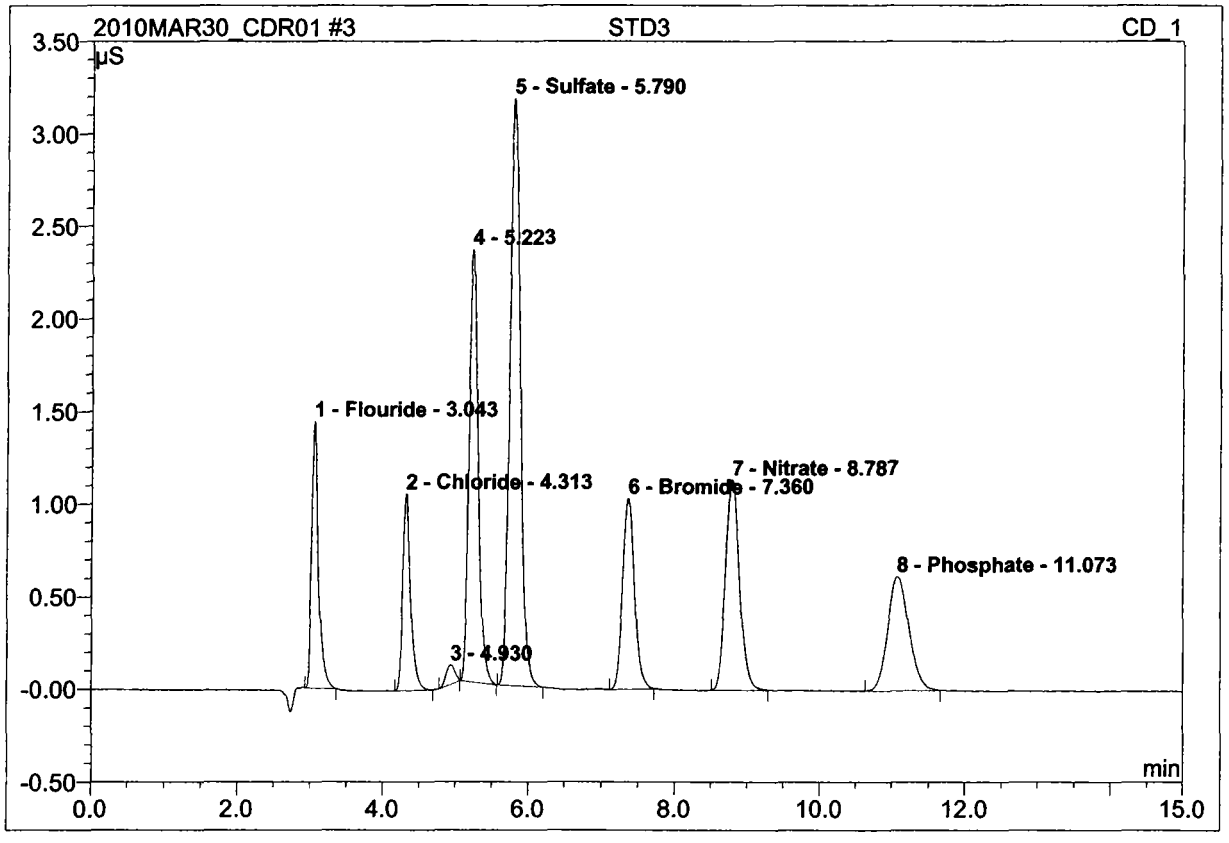
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	0.663	0.072	7.97	0.218	BMB
2	4.31	Chloride	0.514	0.066	7.33	0.308	BMB
3	4.92	n.a.	0.090	0.012	1.39	n.a.	BMb
4	5.22	n.a.	1.085	0.157	17.47	n.a.	bMB
5	5.79	Sulfate	1.627	0.273	30.44	1.337	BMB
6	7.36	Bromide	0.480	0.091	10.18	0.991	BMB
7	8.80	Nitrate	0.579	0.131	14.63	1.028	BMB
8	11.08	Phosphate	0.288	0.095	10.59	1.457	BMB
Total:			5.326	0.897	100.00	5.340	

3 STD3

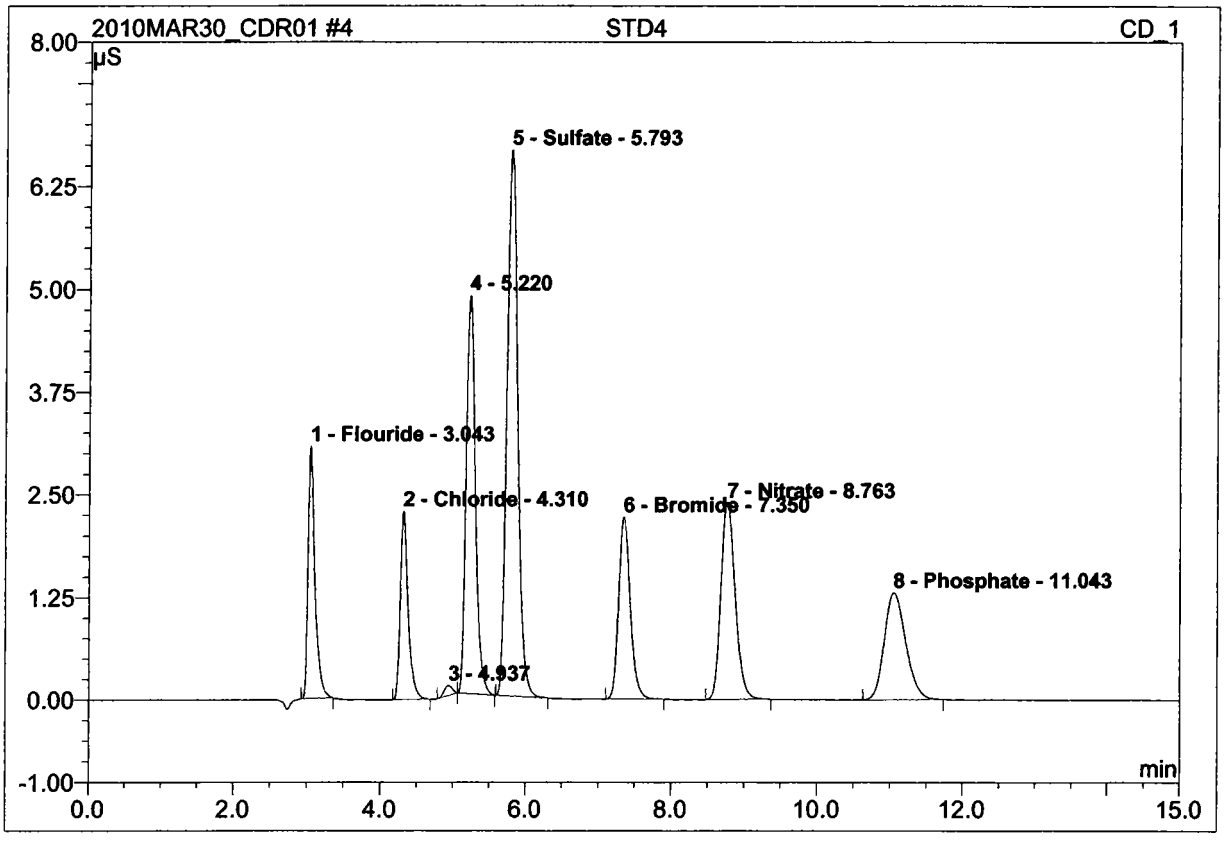
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 12:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	1.441	0.154	8.40	0.399	BMB
2	4.31	Chloride	1.064	0.134	7.36	0.561	BMB
3	4.93	n.a.	0.106	0.015	0.80	n.a.	BMB
4	5.22	n.a.	2.336	0.337	18.44	n.a.	BMB
5	5.79	Sulfate	3.174	0.531	29.05	2.648	BMB
6	7.36	Bromide	1.032	0.193	10.59	1.963	BMB
7	8.79	Nitrate	1.137	0.256	13.98	1.883	BMB
8	11.07	Phosphate	0.617	0.208	11.37	2.884	BMB
Total:			10.907	1.827	100.00	10.338	

4 STD4

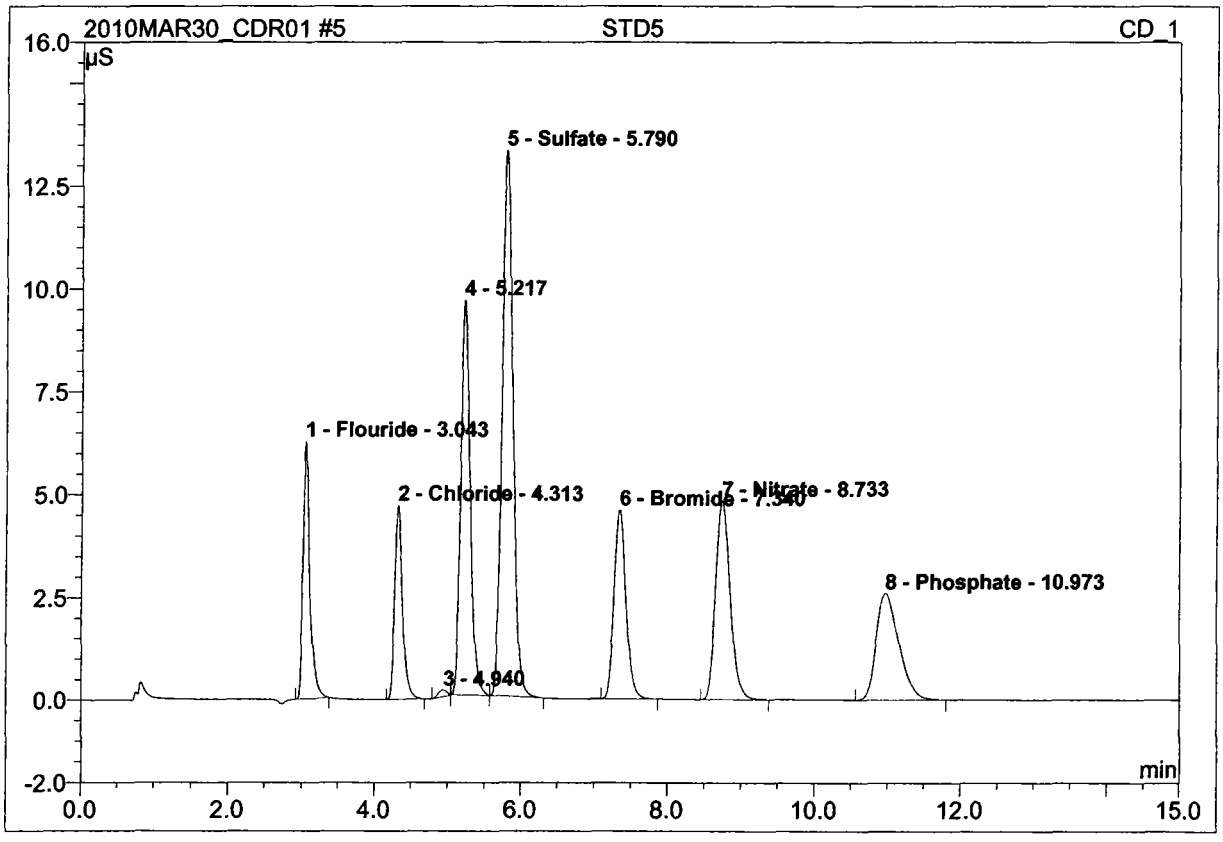
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	3.074	0.330	8.51	0.790	BMB
2	4.31	Chloride	2.297	0.287	7.40	1.123	BMB
3	4.94	n.a.	0.126	0.017	0.43	n.a.	BMb
4	5.22	n.a.	4.857	0.711	18.35	n.a.	bMB
5	5.79	Sulfate	6.648	1.127	29.08	5.679	BMB
6	7.35	Bromide	2.219	0.417	10.76	4.025	BMB
7	8.76	Nitrate	2.400	0.542	13.99	3.850	BMB
8	11.04	Phosphate	1.308	0.445	11.49	5.865	BMB
Total:			22.930	3.876	100.00	21.332	

5 STD5

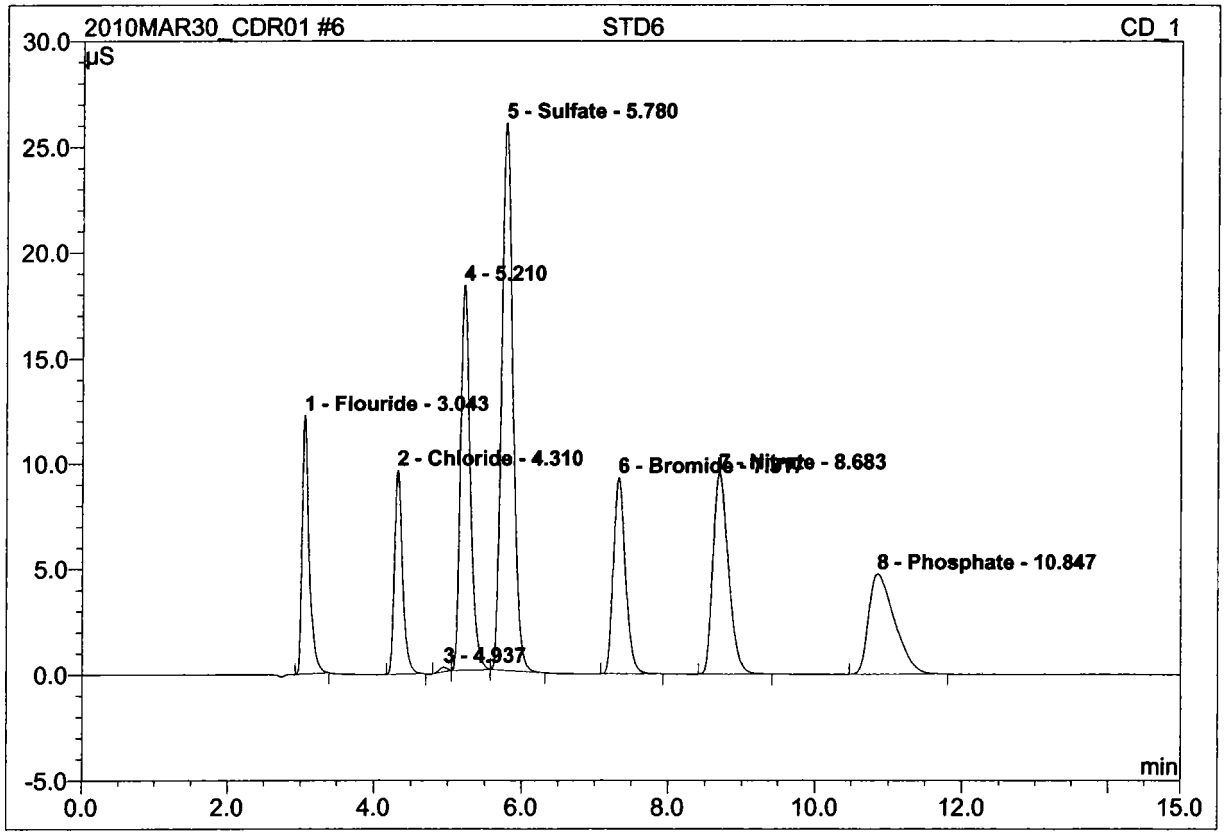
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	6.266	0.684	8.59	1.580	BMB
2	4.31	Chloride	4.732	0.592	7.44	2.247	BMB
3	4.94	n.a.	0.158	0.021	0.26	n.a.	BMB
4	5.22	n.a.	9.606	1.445	18.16	n.a.	BMB
5	5.79	Sulfate	13.277	2.292	28.80	11.603	BMB
6	7.34	Bromide	4.609	0.872	10.96	7.996	BMB
7	8.73	Nitrate	4.840	1.120	14.07	7.788	BMB
8	10.97	Phosphate	2.600	0.934	11.74	11.916	BMB
Total:			46.089	7.960	100.00	43.131	

6 STD6

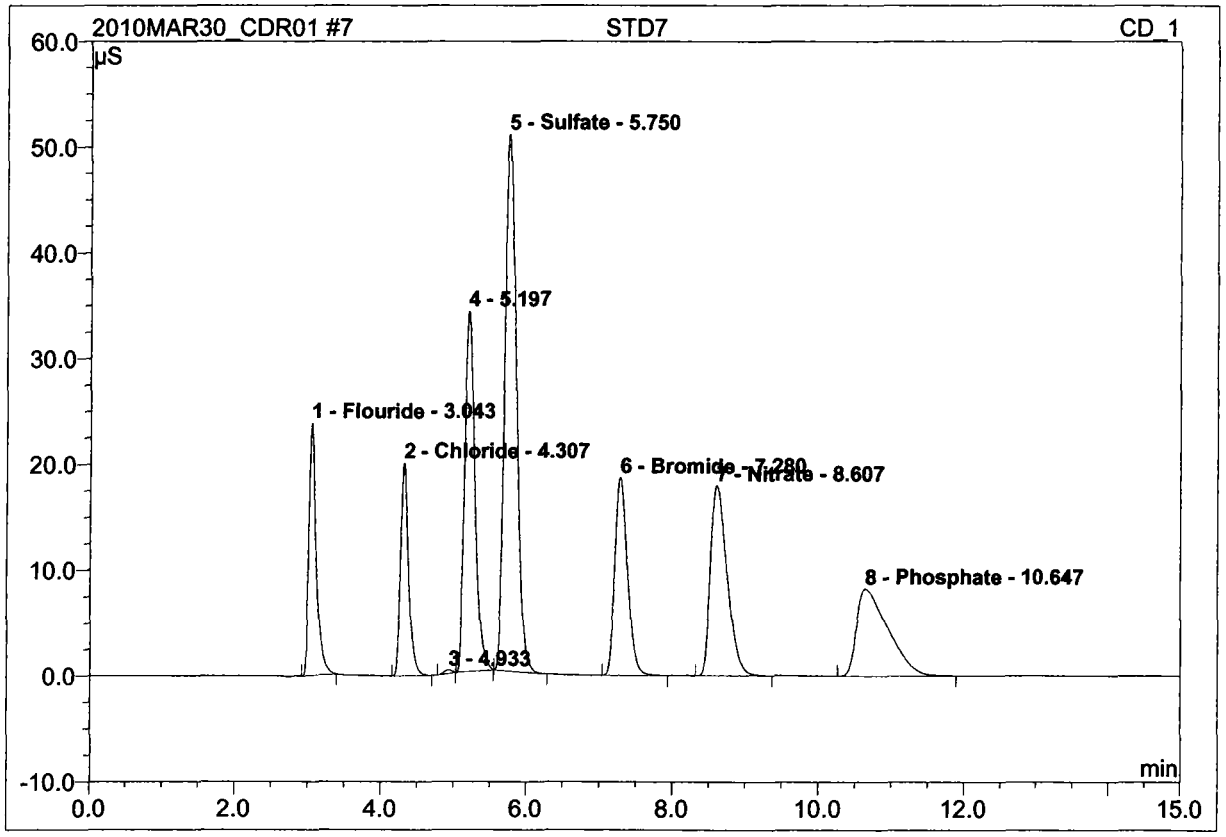
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	12.279	1.376	8.52	3.148	BMB
2	4.31	Chloride	9.681	1.221	7.57	4.564	BMB
3	4.94	n.a.	0.224	0.029	0.18	n.a.	BMB
4	5.21	n.a.	18.247	2.851	17.66	n.a.	bMB
5	5.78	Sulfate	25.949	4.617	28.61	23.421	BMB
6	7.32	Bromide	9.304	1.800	11.15	15.338	BMB
7	8.68	Nitrate	9.490	2.314	14.34	15.847	BMB
8	10.85	Phosphate	4.745	1.933	11.98	23.935	BMB
Total:			89.918	16.141	100.00	86.254	

7 STD7

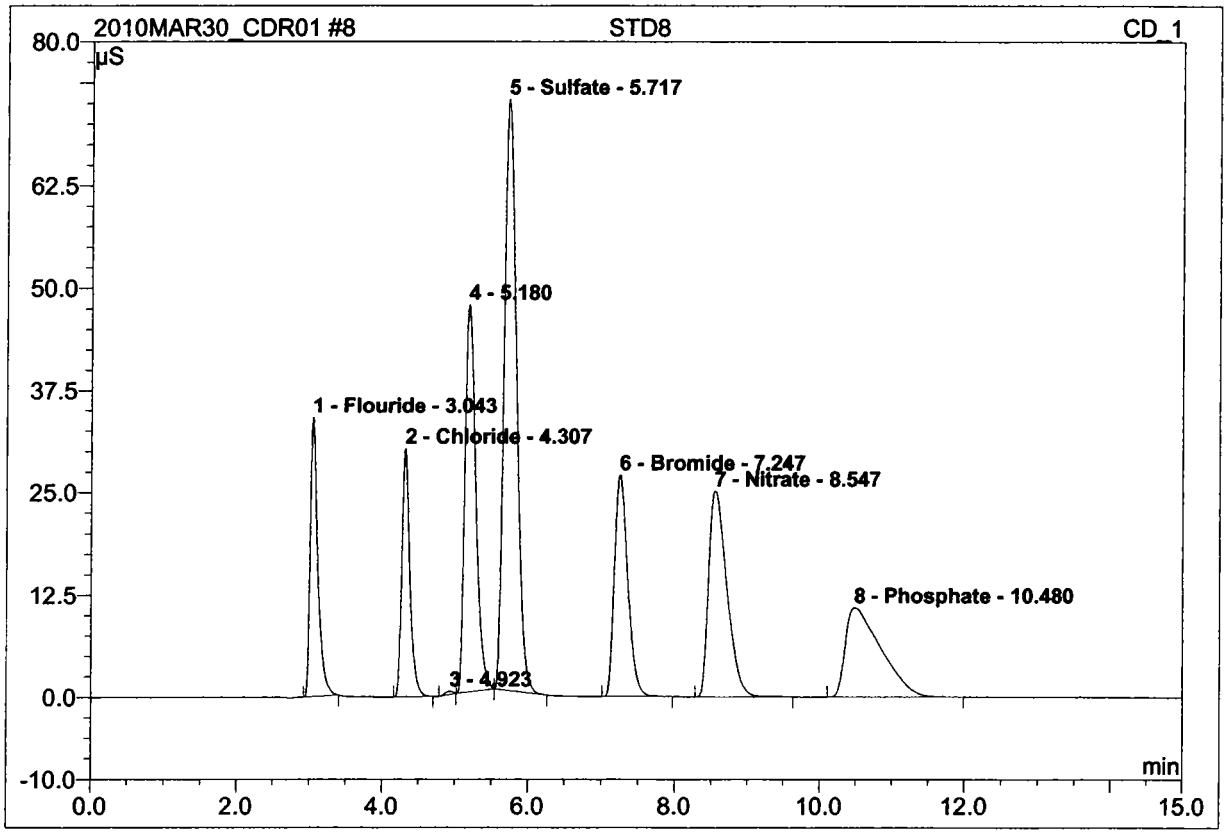
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 13:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	23.883	2.784	8.36	6.437	BMB
2	4.31	Chloride	20.150	2.574	7.73	9.547	BMB
3	4.93	n.a.	0.320	0.040	0.12	n.a.	BMb
4	5.20	n.a.	34.127	5.630	16.90	n.a.	bMB
5	5.75	Sulfate	50.783	9.541	28.64	48.450	BMB
6	7.28	Bromide	18.712	3.791	11.38	28.796	BMB
7	8.61	Nitrate	17.983	4.834	14.51	32.472	BMB
8	10.65	Phosphate	8.259	4.121	12.37	48.868	BMB
Total:			174.218	33.314	100.00	174.570	

8 STD8

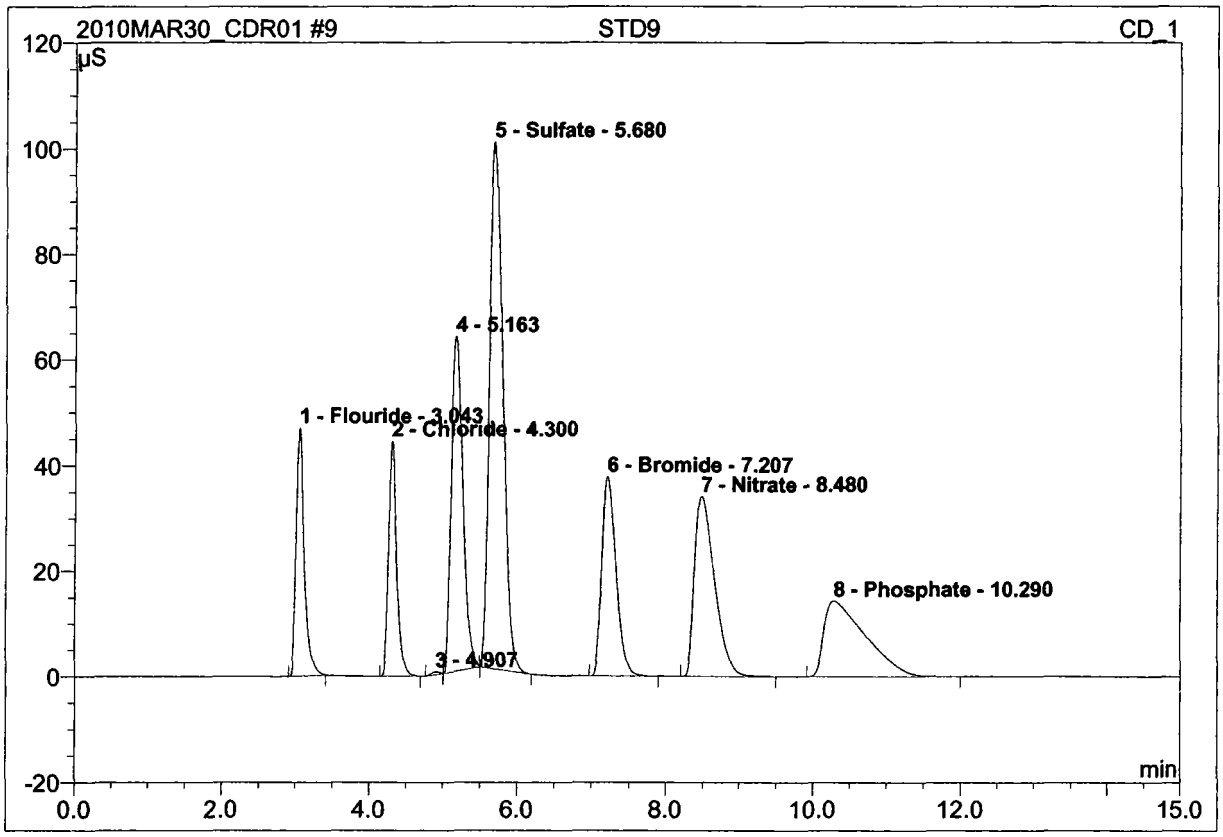
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	34.146	4.072	8.20	9.575	BMB
2	4.31	Chloride	30.331	3.887	7.83	14.384	BMB
3	4.92	n.a.	0.418	0.053	0.11	n.a.	BMb
4	5.18	n.a.	47.383	8.112	16.34	n.a.	bMb
5	5.72	Sulfate	72.243	14.233	28.67	72.302	bMB
6	7.25	Bromide	27.082	5.730	11.54	39.969	BMB
7	8.55	Nitrate	25.154	7.314	14.73	48.374	BMB
8	10.48	Phosphate	10.985	6.242	12.57	71.501	BMB
Total:			247.743	49.644	100.00	256.105	

9 STD9

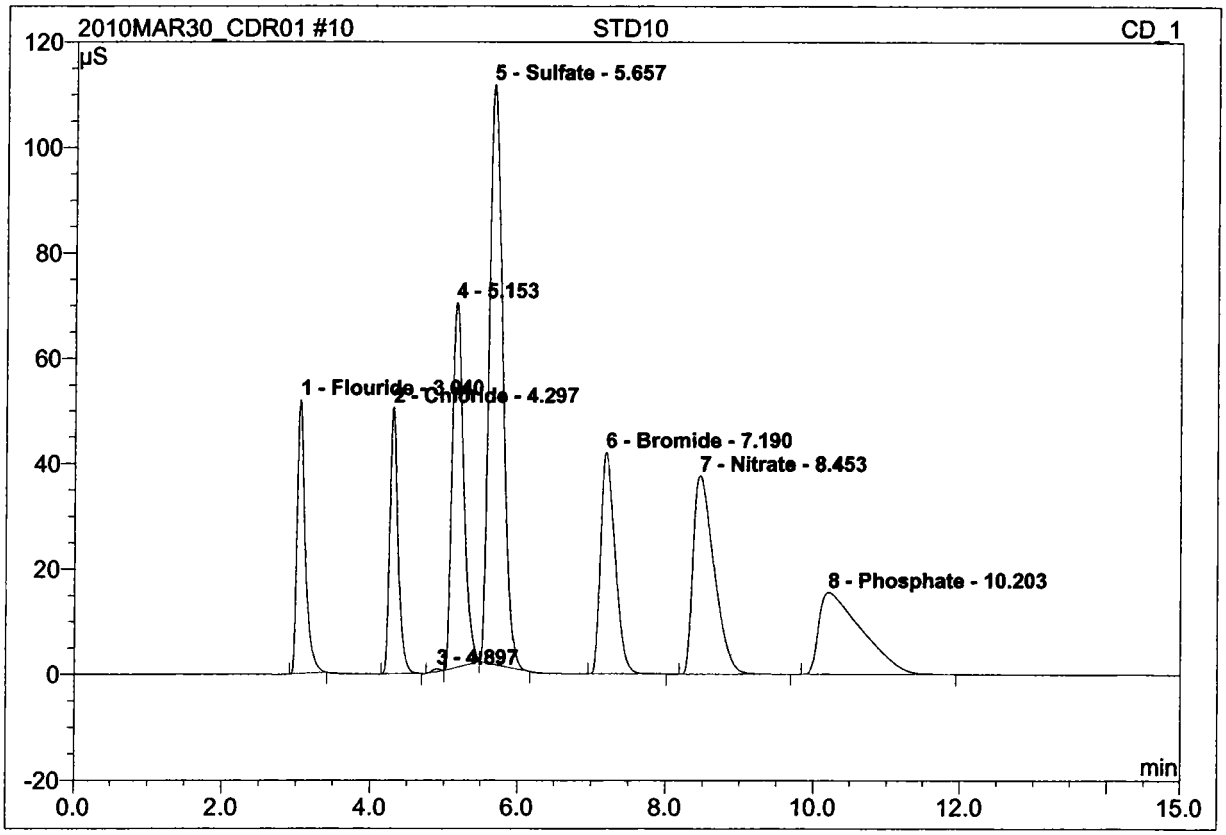
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	47.100	5.826	8.02	14.076	BMB
2	4.30	Chloride	44.638	5.766	7.94	21.305	BMB
3	4.91	n.a.	0.526	0.066	0.09	n.a.	BMB
4	5.16	n.a.	63.418	11.355	15.64	n.a.	bMb
5	5.68	Sulfate	99.857	20.913	28.80	106.261	bMB
6	7.21	Bromide	37.833	8.494	11.70	53.820	BMB
7	8.48	Nitrate	34.153	10.849	14.94	70.312	BMB
8	10.29	Phosphate	14.370	9.343	12.87	102.353	BMB
Total:			341.894	72.611	100.00	368.125	

10 STD10

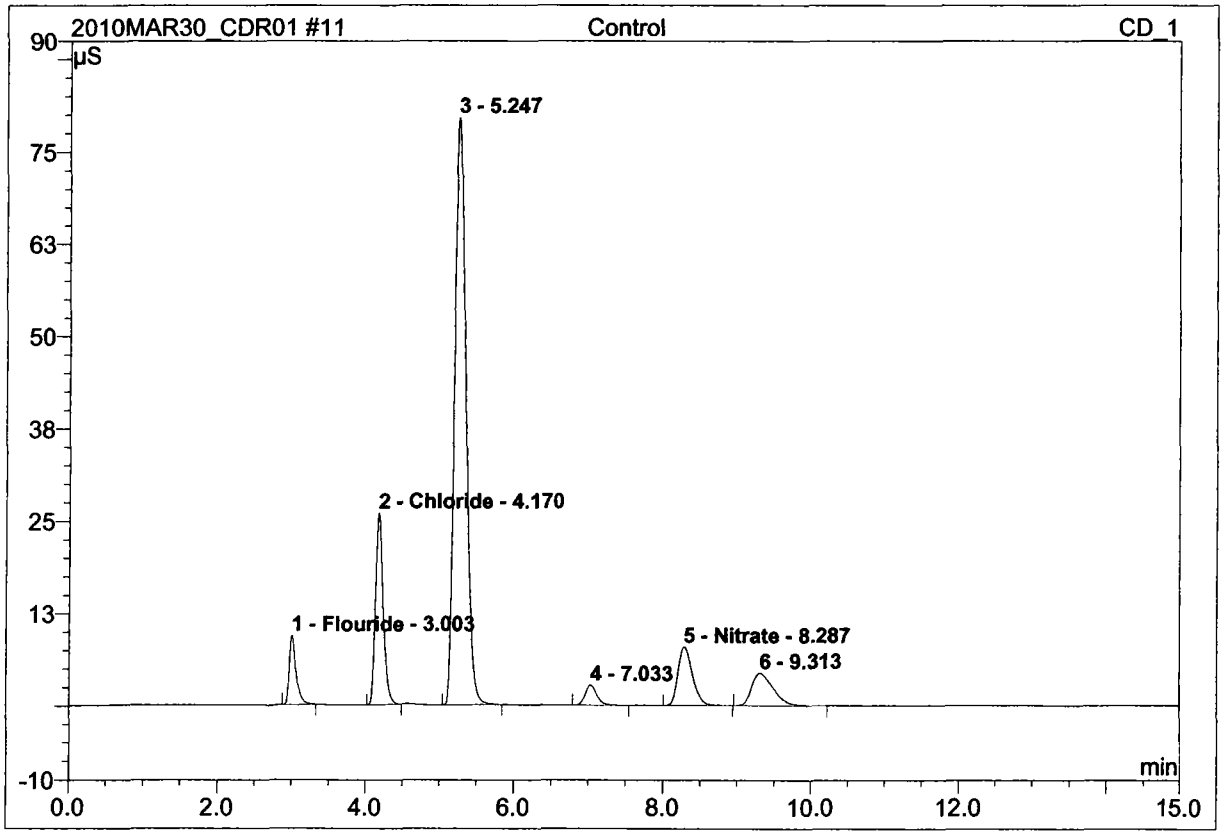
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**12/8/2009 14:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.04	Flouride	52.094	6.522	7.96	15.946	BMB
2	4.30	Chloride	50.719	6.560	8.01	24.231	BMB
3	4.90	n.a.	0.576	0.074	0.09	n.a.	BMB
4	5.15	n.a.	69.414	12.617	15.41	n.a.	bMb
5	5.66	Sulfate	110.093	23.530	28.73	119.564	bMB
6	7.19	Bromide	42.040	9.672	11.81	59.186	BMB
7	8.45	Nitrate	37.627	12.351	15.08	79.399	BMB
8	10.20	Phosphate	15.614	10.569	12.91	113.944	BMB
Total:			378.176	81.896	100.00	412.270	

11 Control

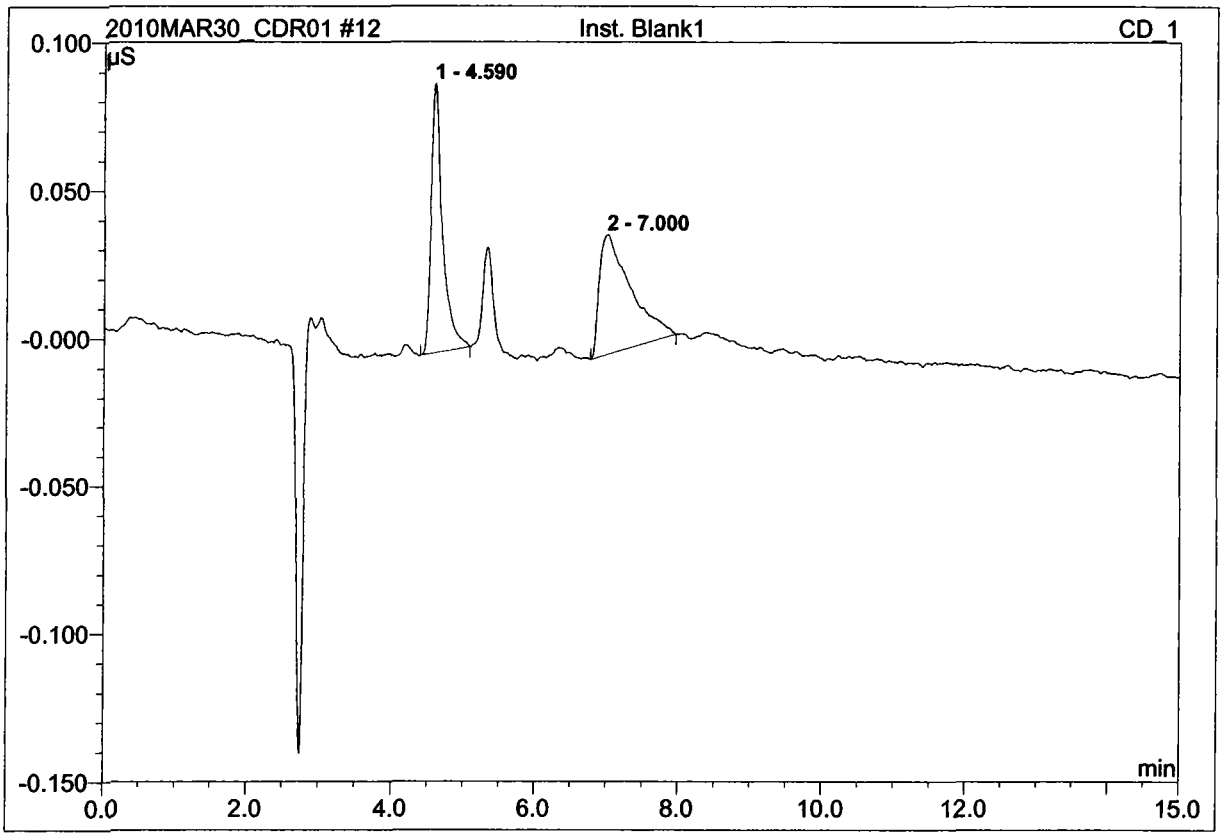
Sample Name:	**Control**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 10:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.00	Flouride	9.362	1.012	4.61	2.321	BMB
2	4.17	Chloride	25.964	3.164	14.43	11.723	BMB
3	5.25	n.a.	79.506	14.027	63.94	n.a.	BMB
4	7.03	n.a.	2.687	0.477	2.17	n.a.	BMB
5	8.29	Nitrate	7.895	1.789	8.15	12.317	BMB
6	9.31	n.a.	4.405	1.468	6.69	n.a.	BMB
Total:			129.820	21.937	100.00	26.361	

12 Inst. Blank1

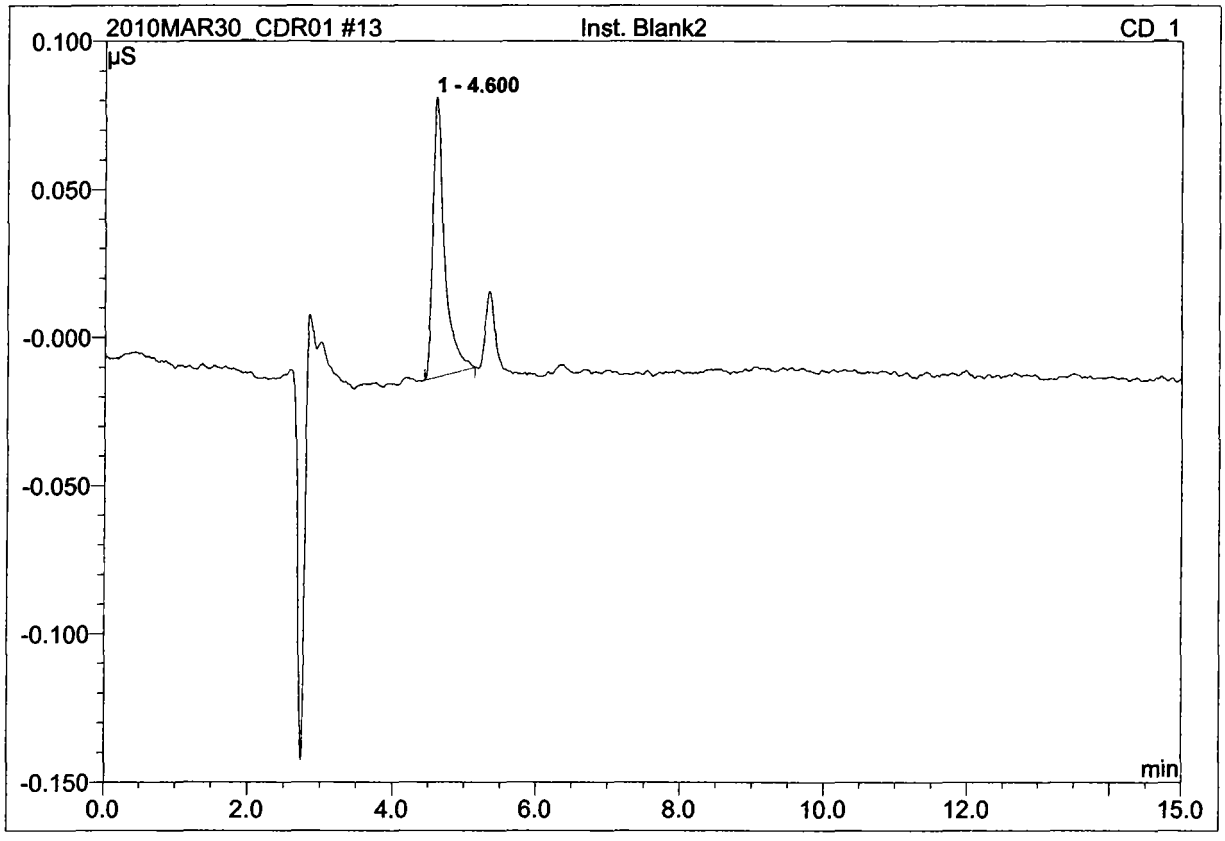
Sample Name:	**Inst. Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 10:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.59	n.a.	0.091	0.017	45.24	n.a.	BMB
2	7.00	n.a.	0.040	0.020	54.76	n.a.	BMB
Total:			0.131	0.037	100.00	0.000	

13 Inst. Blank2

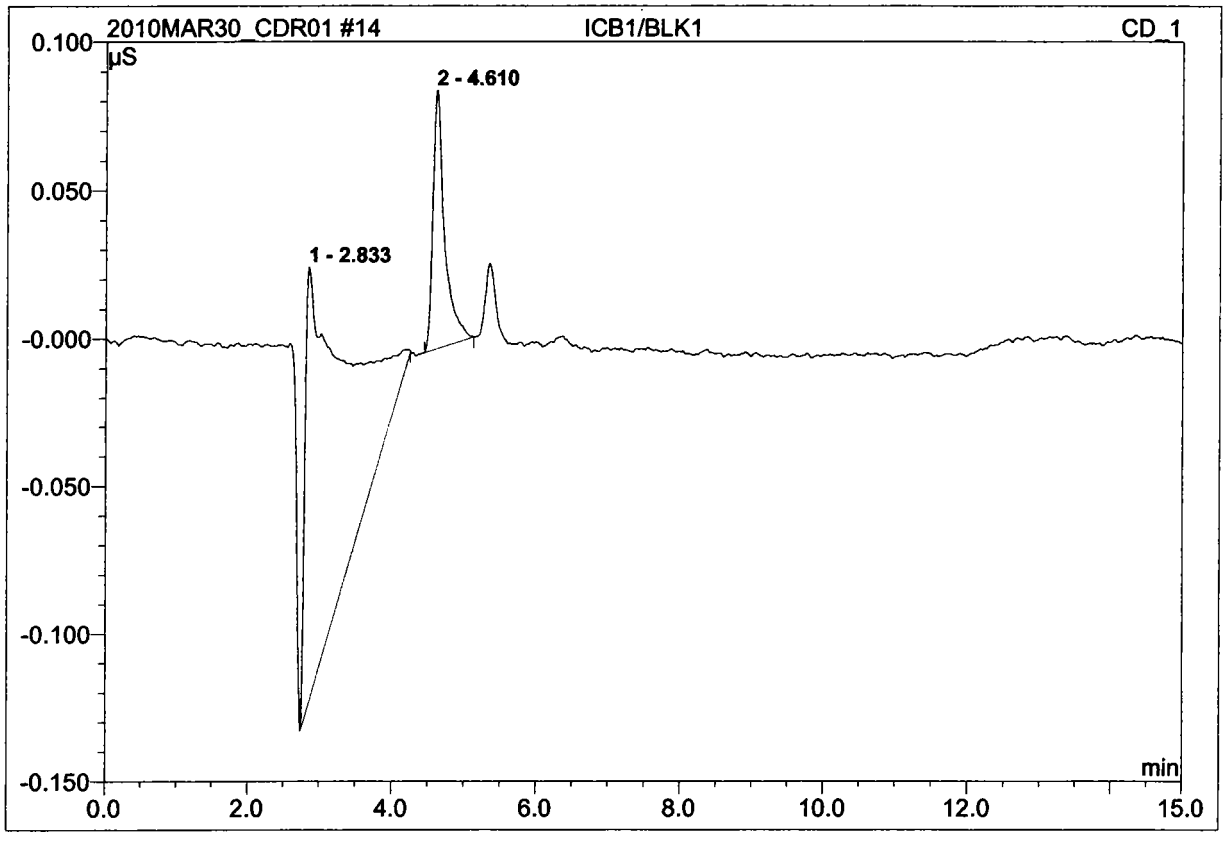
Sample Name:	**Inst. Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 11:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.60	n.a.	0.095	0.018	100.00	n.a.	BMB
Total:			0.095	0.018	100.00	0.000	

14 ICB1/BLK1

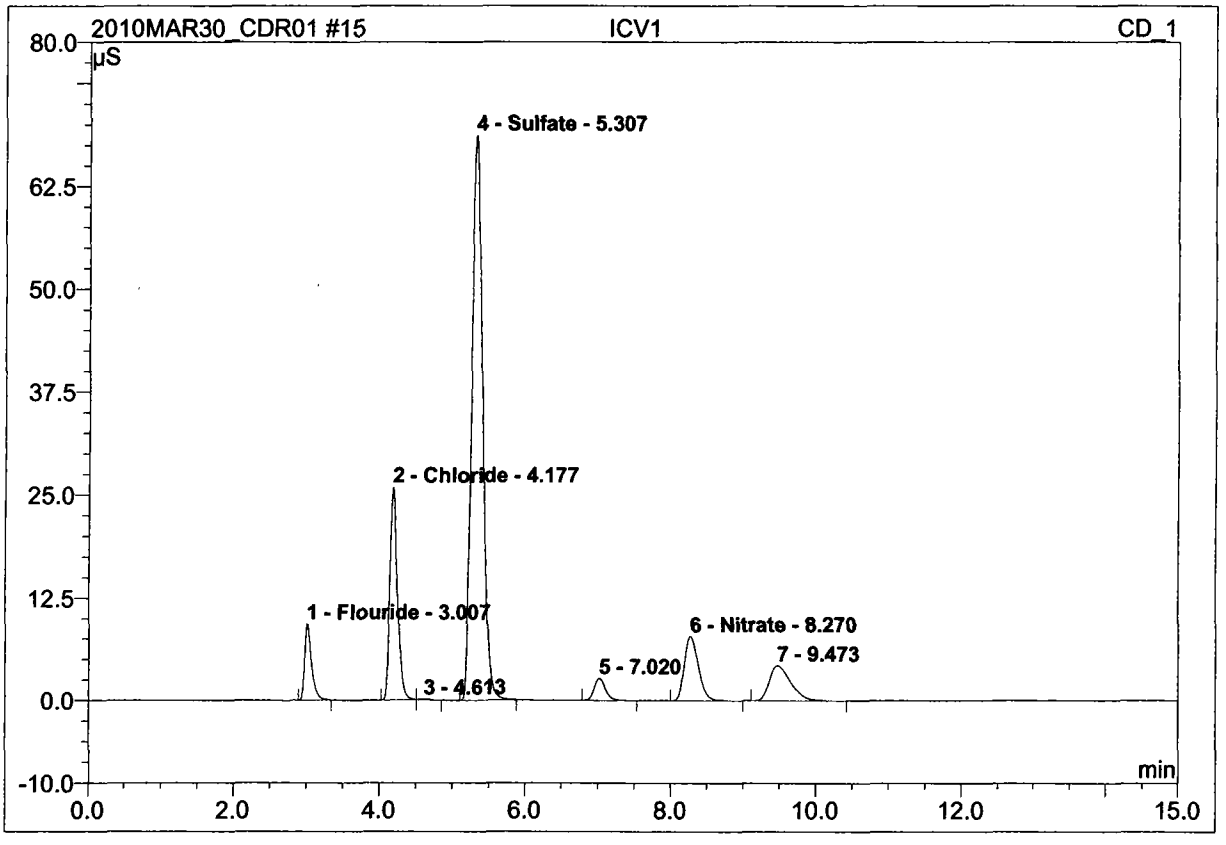
Sample Name:	**ICB1/BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 11:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.149	0.093	84.93	n.a.	BMB
2	4.61	n.a.	0.087	0.017	15.07	n.a.	BMB
Total:			0.236	0.110	100.00	0.000	

15 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 11:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



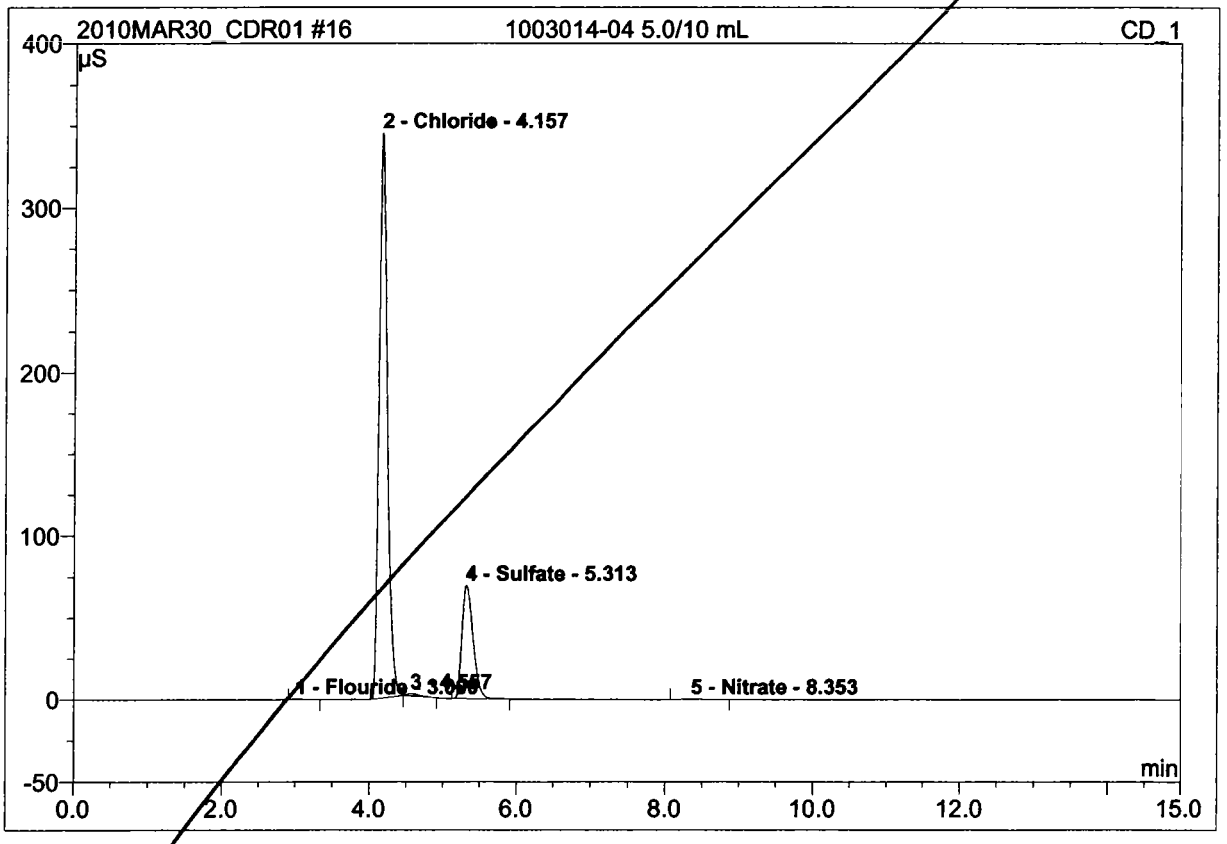
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	9.331	1.004	5.06	2.303	BMB
2	4.18	Chloride	25.917	3.160	15.91	11.705	BMb
3	4.61	n.a.	0.089	0.012	0.06	n.a.	bMB
4	5.31	Sulfate	68.699	11.992	60.38	60.913	BMB
5	7.02	n.a.	2.686	0.475	2.39	n.a.	BMB
6	8.27	Nitrate	7.870	1.773	8.93	12.212	BMB
7	9.47	n.a.	4.282	1.444	7.27	n.a.	BMB
Total:			118.875	19.860	100.00	87.133	

16 1003014-04 5.0/10 mL

Sulfate dilution

Sample Name:	**1003014-04 5.0/10 mL**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 11:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

AA
4-19-10
not
RCRA
data

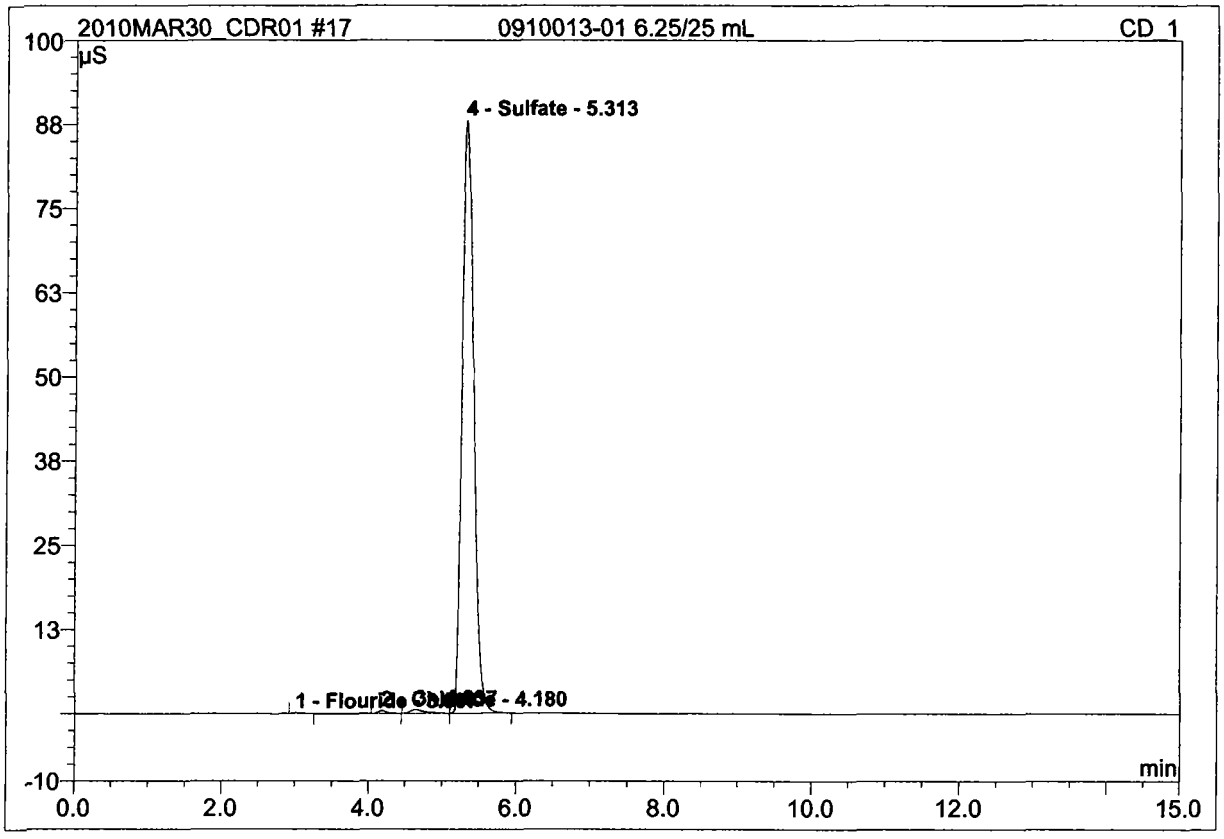


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.00	Flouride	0.487	0.052	0.09	0.175	BMB
2	4.16	Chloride	344.970	44.665	77.96	164.594	BMb
3	4.56	n.a.	1.525	0.292	0.51	n.a.	bMB
4	5.31	Sulfate	69.303	12.199	21.29	61.963	BMB
5	8.35	Nitrate	0.401	0.085	0.15	0.713	BMB
Total:			416.686	57.294	100.00	227.444	

17 0910013-01 6.25/25 mL

Sulfate dilution

Sample Name:	**0910013-01 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 12:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

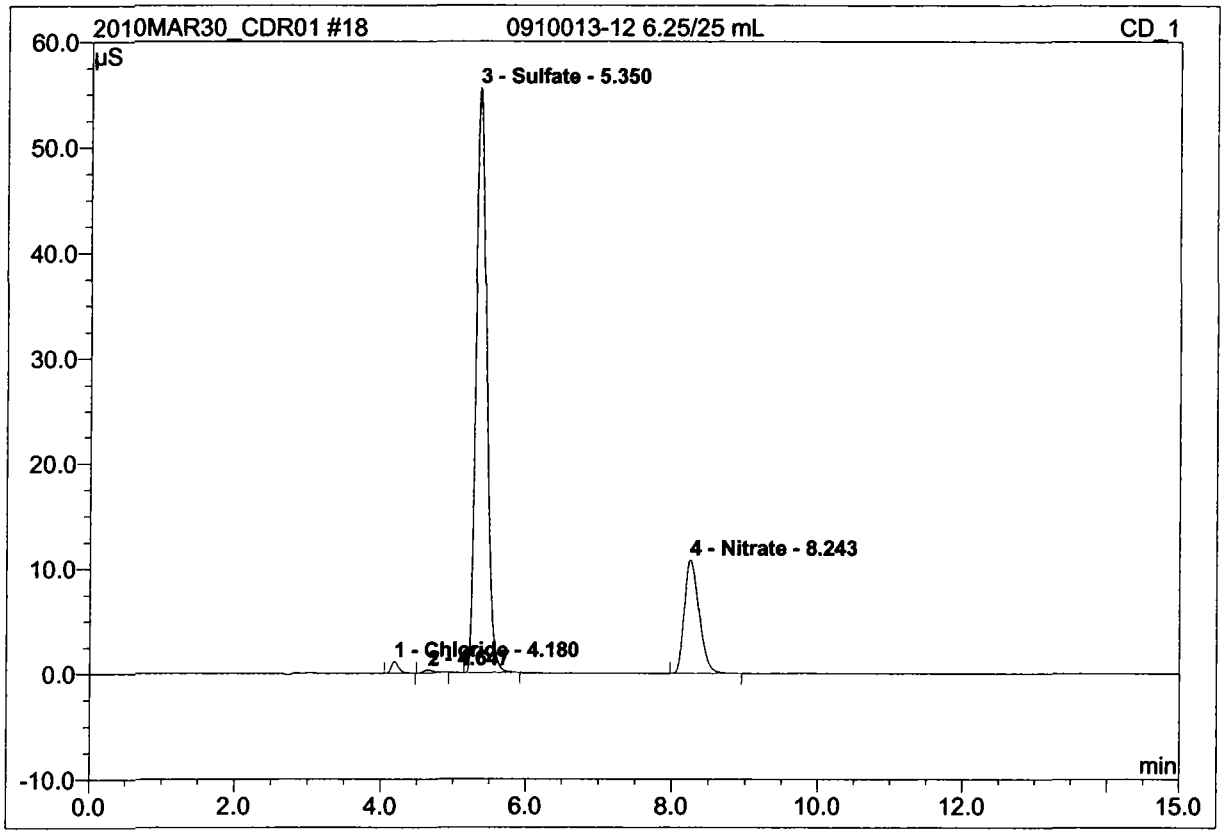


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	0.134	0.014	0.09	0.091	BMB
2	4.18	Chloride	0.401	0.048	0.29	0.243	BMB
3	4.64	n.a.	0.557	0.119	0.73	n.a.	BMB
4	5.31	Sulfate	88.051	16.082	98.89	81.705	BMB
Total:			89.143	16.263	100.00	82.038	

18 0910013-12 6.25/25 mL

Sulfate dilution

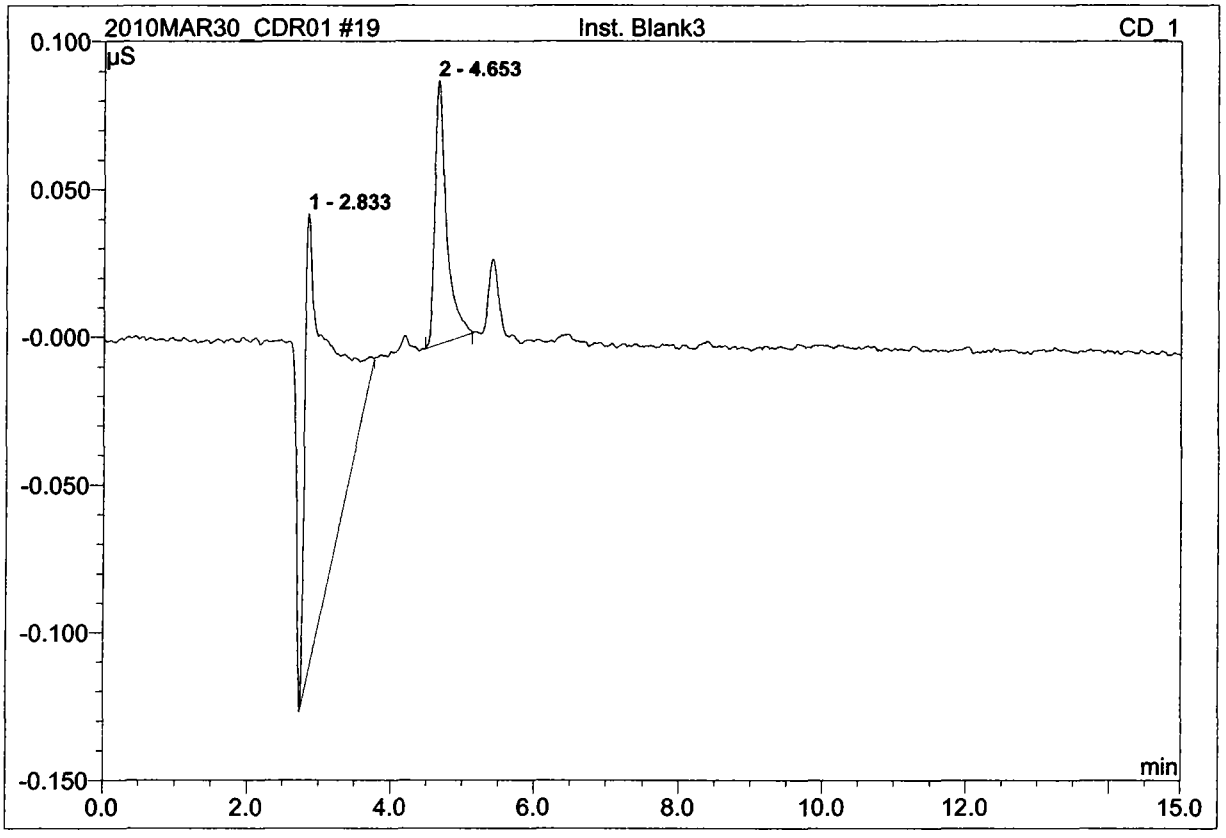
Sample Name:	**0910013-12 6.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 12:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.18	Chloride	1.116	0.131	1.07	0.549	BMB
2	4.65	n.a.	0.301	0.053	0.43	n.a.	BMB
3	5.35	Sulfate	55.543	9.534	78.00	48.416	BMB
4	8.24	Nitrate	10.798	2.505	20.49	17.121	BMB
Total:			67.759	12.223	100.00	66.086	

19 Inst. Blank3

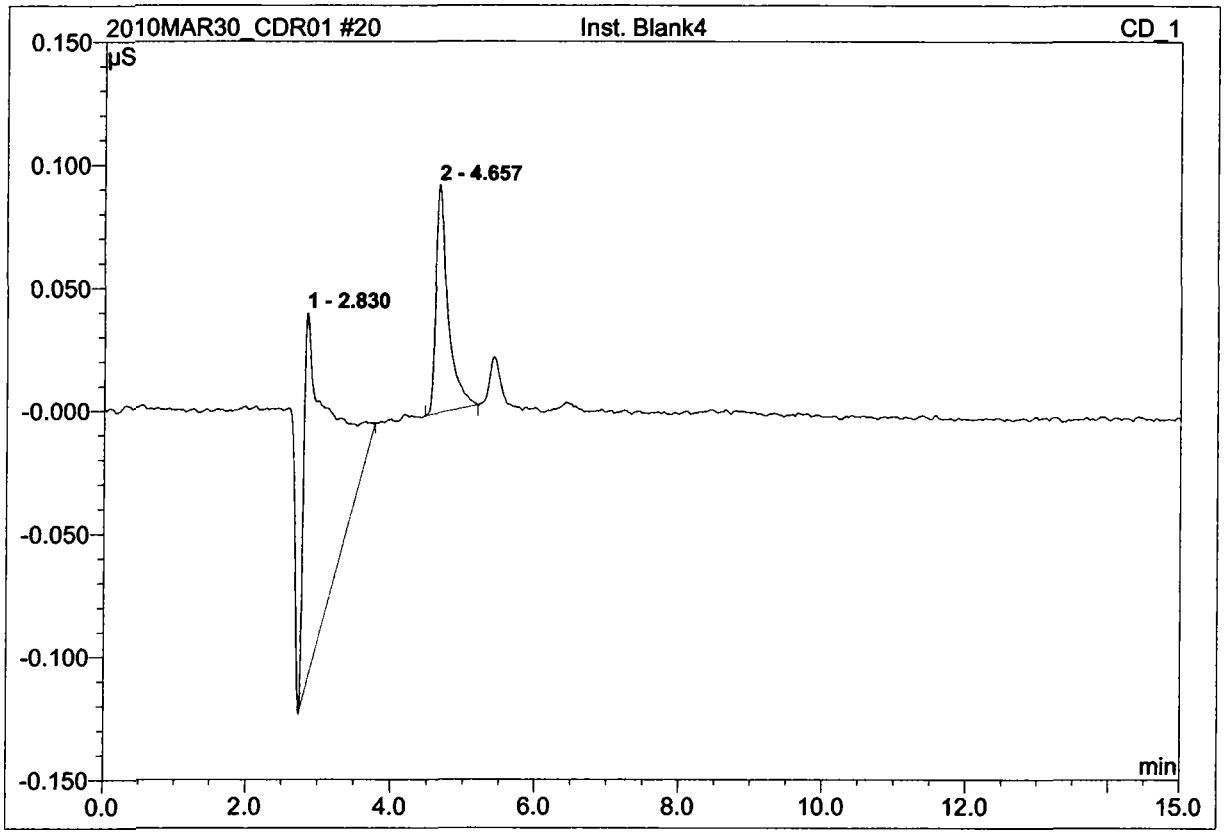
Sample Name:	**Inst. Blank3**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 12:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.157	0.063	78.96	n.a.	BMB
2	4.65	n.a.	0.089	0.017	21.04	n.a.	BMB
Total:			0.246	0.080	100.00	0.000	

20 Inst. Blank4

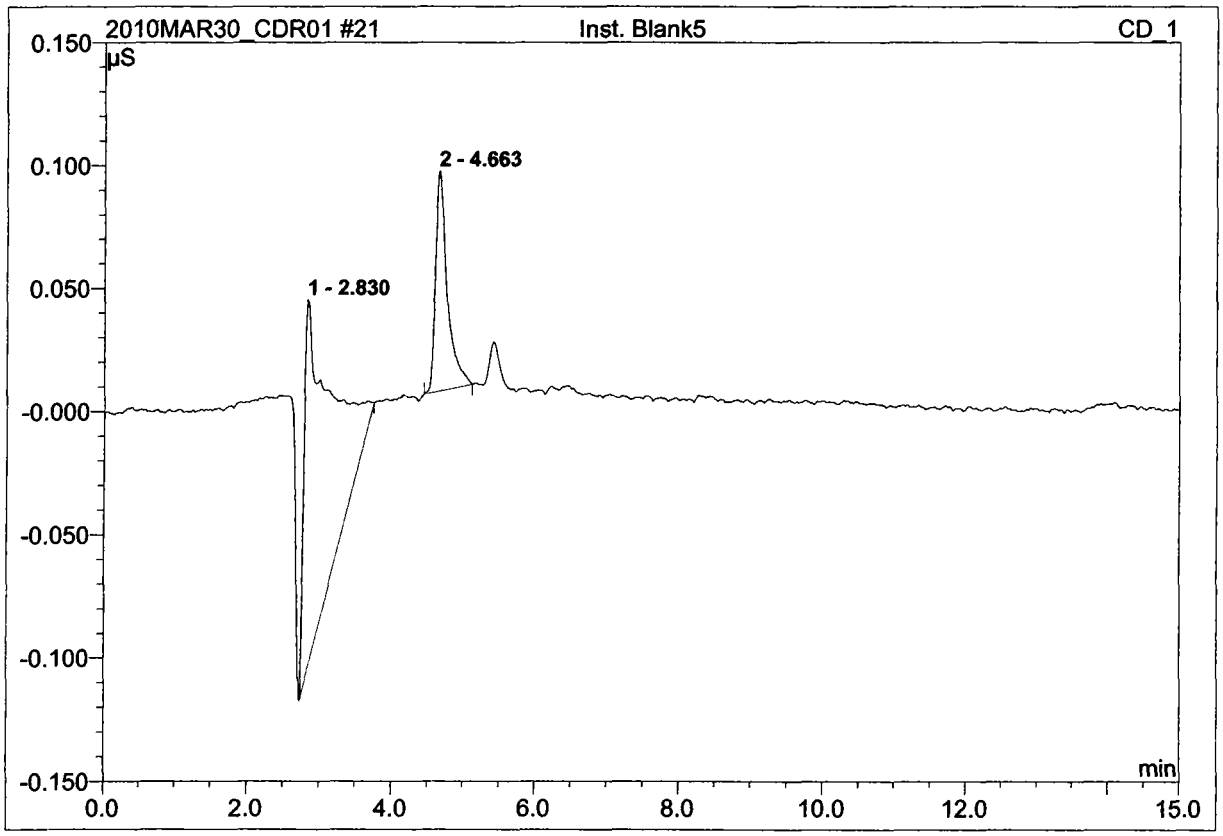
Sample Name:	**Inst. Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 13:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.151	0.063	77.75	n.a.	BMB
2	4.66	n.a.	0.093	0.018	22.25	n.a.	BMB
Total:			0.244	0.081	100.00	0.000	

21 Inst. Blank5

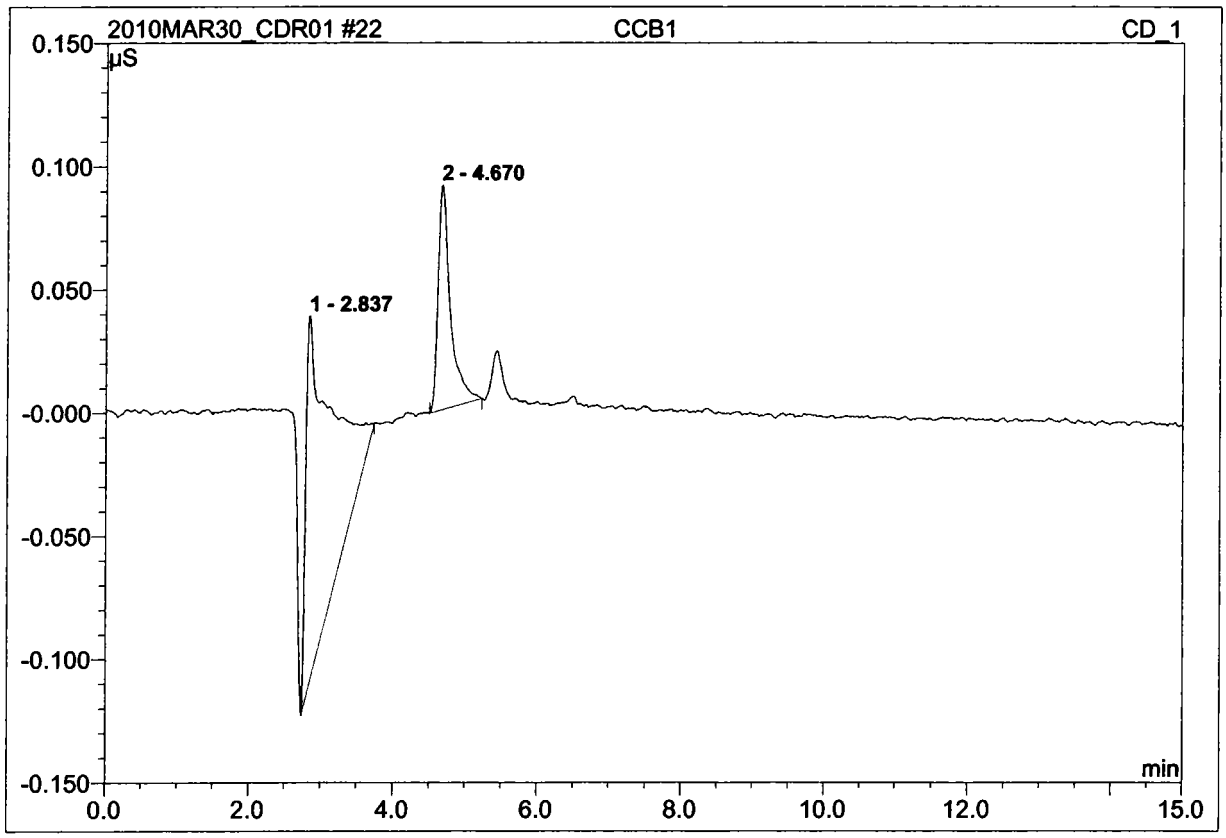
Sample Name:	**Inst. Blank5**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 13:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	n.a.	0.151	0.063	78.73	n.a.	BMB
2	4.66	n.a.	0.090	0.017	21.27	n.a.	BMB
Total:			0.240	0.080	100.00	0.000	

22 CCB1

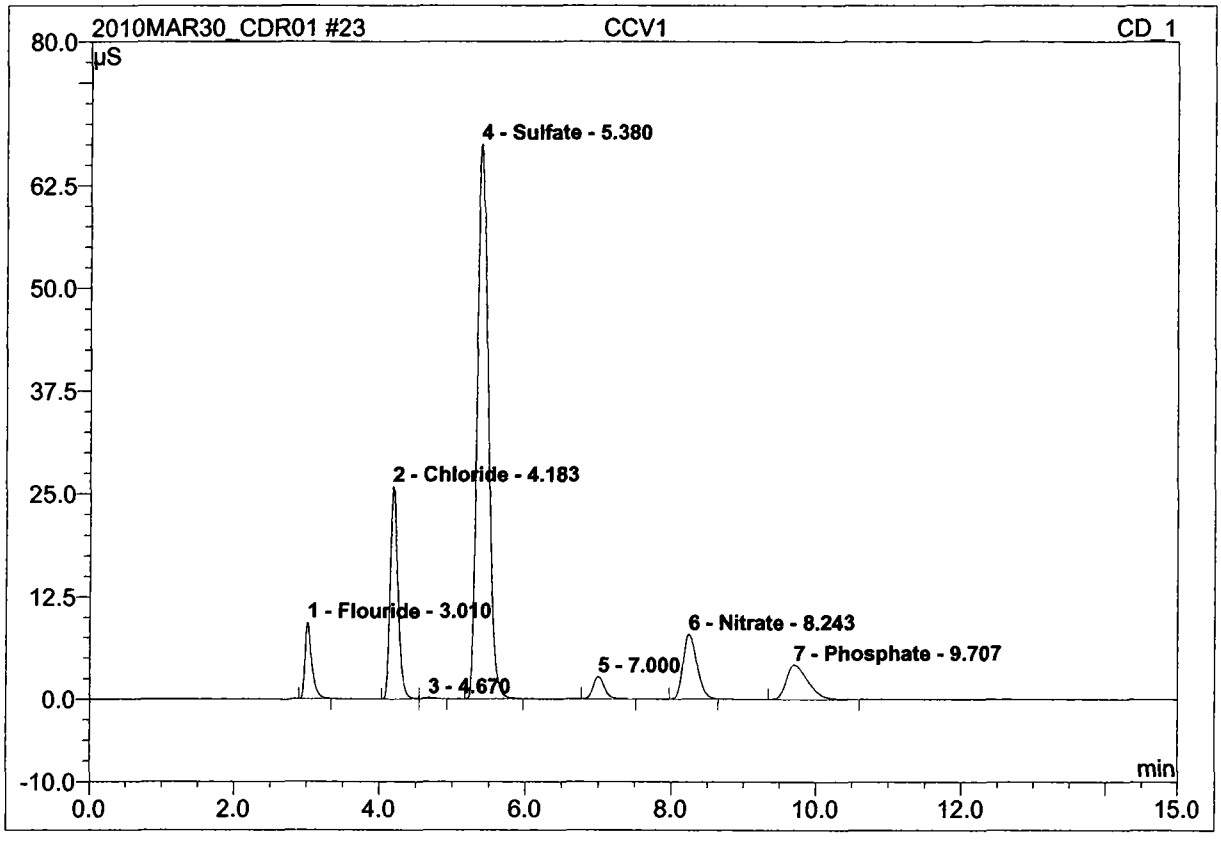
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 13:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.150	0.061	76.91	n.a.	BMB
2	4.67	n.a.	0.091	0.018	23.09	n.a.	BMB
Total:			0.241	0.079	100.00	0.000	

23 CCV1

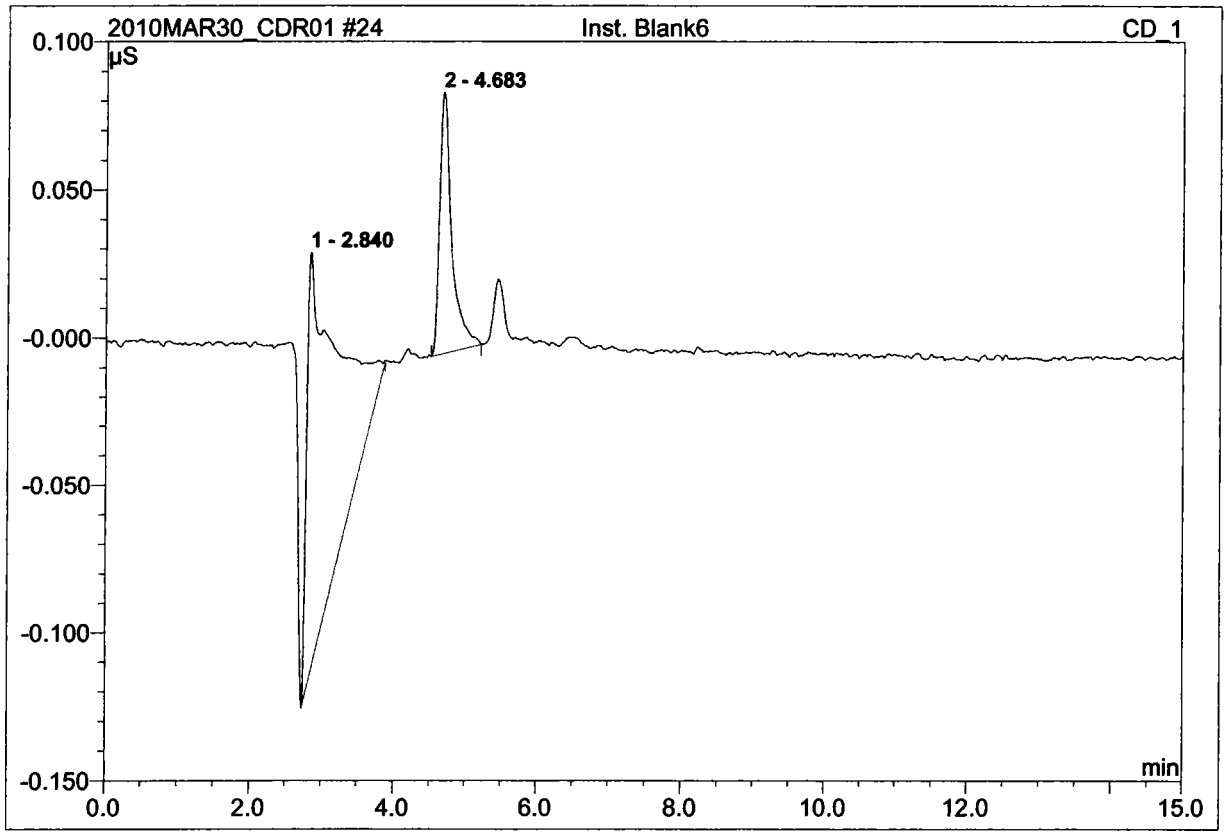
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 14:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.01	Flouride	9.343	1.003	5.07	2.300	BMB
2	4.18	Chloride	25.902	3.158	15.97	11.699	BMb
3	4.67	n.a.	0.100	0.015	0.07	n.a.	bMB
4	5.38	Sulfate	67.545	11.945	60.41	60.672	BMB
5	7.00	n.a.	2.695	0.474	2.40	n.a.	BMB
6	8.24	Nitrate	7.894	1.745	8.82	12.020	BMB
7	9.71	Phosphate	4.171	1.435	7.26	17.998	BMB
Total:			117.649	19.775	100.00	104.689	

24 Inst. Blank6

Sample Name:	**Inst. Blank6**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/30/2010 14:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.84	n.a.	0.143	0.068	79.68	n.a.	BMB
2	4.68	n.a.	0.088	0.017	20.32	n.a.	BMB
Total:			0.231	0.085	100.00	0.000	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 1/12/2010

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Kathleen Swan KS
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin JAN 13 2010
Data Management Coordinator and Date Received

Date Transmitted: JAN 13 2010

Analyses included in this report:

Metals full ICP (S)

The data are usable for their intended purpose, (RCRA Corrective Action Metals Characterization) noting inhomogeneity in one sample, which was corrected by re-digestion. Please refer to the narrative for details.

Brian P. Filson
1/14/10

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

REVISED REPORT
ANALYSIS CASE NARRATIVE
312 353 9071

The original report is being revised to add "J" flags for estimate to all zinc values, due to a line saturation. Nothing else is changed.

General Information

All holding times were met. Temperature upon arrival was below 6 degrees C.

Sample Analysis and Results

Sample preparation occurred by using CRL SOP Metals 025, Revision No. 4, EPA sample preparation procedure 200.2, and analysis occurred by using CRL SOP Metals Method 004, Revision No. 6, EPA ICP Method 200.7. It is noted that a preliminary run showed an inhomogeneity in 0909014-02 T23-150-1.0-3.0. Samples from that work order were redigested and the inhomogeneity did not reappear. Conclude that the original inhomogeneity resulted from clumps that were part of the original subsample.

Quality Control

All quality control (QC) audits were within CRL limits, with the following exceptions:

Blanks (Limit ± MDL) Several elements were very slightly outside currently calculated detection limit. This does not affect data quality.

Matrix Duplicate (Limit ± 20%) Sample 0909006-01 T27-150-1.0.3.0 was inhomogeneous in silver (26% RPD) and is flagged J.

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T18-50-0.5-1.0	0909005-01	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T18-50-1.0-3.0	0909005-02	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T27-125-3.0-4.8	0909005-03	Soil	Sep-01-09 14:50	Sep-03-09 10:48
T24-125-1.0-3.0	0909005-04	Soil	Sep-02-09 09:05	Sep-03-09 10:48
T26-125-1.0-3.0	0909005-05	Soil	Sep-02-09 10:30	Sep-03-09 10:48
T20-125-1.0-3.0	0909005-06	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T20-125-1.0-3.0 Duplicate	0909005-07	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T27-150-1.0-3.0	0909006-01	Soil	Sep-03-09 15:50	Sep-08-09 11:25
T29-200-1.0-3.0	0909006-02	Soil	Sep-04-09 10:20	Sep-08-09 11:25
T30-150-1.0-3.0	0909006-03	Soil	Sep-04-09 11:40	Sep-08-09 11:25
T22-175-0.5-1.2	0909006-04	Soil	Sep-04-09 13:50	Sep-08-09 11:25
T16-125-0.0-0.6	0909014-01	Soil	Sep-11-09 10:55	Sep-14-09 10:00
T23-150-1.0-3.0	0909014-02	Soil	Sep-11-09 15:00	Sep-14-09 10:00
T23-150-5.0-6.2	0909014-03	Soil	Sep-11-09 15:08	Sep-14-09 10:00
T26-175-1.0-2.6	0909014-04	Soil	Sep-11-09 17:00	Sep-14-09 10:00
T26-175-0.5-1.0	0909014-05	Soil	Sep-11-09 16:53	Sep-14-09 10:00

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T18-50-0.5-1.0
0909005-01(Soil)
Sampled: Sep-01-09 14:00
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5200**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**74**			1.0	"	"	"	"	"
Beryllium	**U**			0.52	"	"	"	"	"
Boron	**23**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**290000**			520	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.7**			1.0	"	"	"	"	"
Copper	**9.9**			1.0	"	"	"	"	"
Iron	**5100**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**4.4**			2.1	"	"	"	"	"
Magnesium	**68000**			260	"	25	"	"	Oct-26-09
Manganese	**370**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**17**			5.2	"	"	"	"	"
Nickel	**3.2**			2.1	"	"	"	"	"
Potassium	**270**			52	"	"	"	"	"
Silver	**2.7**			1.0	"	"	"	"	"
Sodium	**490**			21	"	"	"	"	"
Strontium	**540**			0.52	"	"	"	"	"
Titanium	**200**			1.0	"	"	"	"	"
Vanadium	**18**			2.1	"	"	"	"	"
Zinc	**22**	J		5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T18-50-1.0-3.0
0909005-02(Soil)
Sampled: Sep-01-09 14:00
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**93**			1.0	"	"	"	"	"
Beryllium	**0.61**			0.51	"	"	"	"	"
Boron	**22**			2.1	"	"	"	"	"
Cadmium	**U**			0.51	"	"	"	"	"
Calcium	**280000**			510	"	25	"	"	Oct-26-09
Chromium	**10**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.8**			1.0	"	"	"	"	"
Copper	**10**			1.0	"	"	"	"	"
Iron	**4600**			21	"	"	"	"	"
Lead	**U**			5.1	"	"	"	"	"
Lithium	**4.1**			2.1	"	"	"	"	"
Magnesium	**72000**			260	"	25	"	"	Oct-26-09
Manganese	**310**			0.51	"	1	"	"	Oct-26-09
Molybdenum	**17**			5.1	"	"	"	"	"
Nickel	**2.8**			2.1	"	"	"	"	"
Potassium	**400**			51	"	"	"	"	"
Silver	**3.0**			1.0	"	"	"	"	"
Sodium	**770**			21	"	"	"	"	"
Strontium	**650**			0.51	"	"	"	"	"
Titanium	**230**			1.0	"	"	"	"	"
Vanadium	**19**			2.1	"	"	"	"	"
Zinc	**21**	J		5.1	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T27-125-3.0-4.8
0909005-03(Soil)
Sampled: Sep-01-09 14:50
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4100**			20	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**37**			1.0	"	"	"	"	"
Beryllium	**U**			0.51	"	"	"	"	"
Boron	**8.5**			2.0	"	"	"	"	"
Cadmium	**U**			0.51	"	"	"	"	"
Calcium	**130000**			510	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**4.6**			1.0	"	"	"	"	"
Copper	**18**			1.0	"	"	"	"	"
Iron	**14000**			20	"	"	"	"	"
Lead	**22**			5.1	"	"	"	"	"
Lithium	**7.1**			2.0	"	"	"	"	"
Magnesium	**15000**			10	"	"	"	"	"
Manganese	**690**			0.51	"	"	"	"	"
Molybdenum	**U**			5.1	"	"	"	"	"
Nickel	**12**			2.0	"	"	"	"	"
Potassium	**770**			51	"	"	"	"	"
Silver	**1.2**			1.0	"	"	"	"	"
Sodium	**2000**			20	"	"	"	"	"
Strontium	**110**			0.51	"	"	"	"	"
Titanium	**77**			1.0	"	"	"	"	"
Vanadium	**14**			2.0	"	"	"	"	"
Zinc	**56**	J		5.1	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T24-125-1.0-3.0
0909005-04(Soil)
Sampled: Sep-02-09 09:05
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5700**			19	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**66**			0.97	"	"	"	"	"
Beryllium	**0.69**			0.49	"	"	"	"	"
Boron	**8.8**			1.9	"	"	"	"	"
Cadmium	**U**			0.49	"	"	"	"	"
Calcium	**170000**			490	"	25	"	"	Oct-26-09
Chromium	**14**			0.97	"	1	"	"	Oct-26-09
Cobalt	**2.9**			0.97	"	"	"	"	"
Copper	**48**			0.97	"	"	"	"	"
Iron	**12000**			19	"	"	"	"	"
Lead	**47**			4.9	"	"	"	"	"
Lithium	**6.9**			1.9	"	"	"	"	"
Magnesium	**8800**			9.7	"	"	"	"	"
Manganese	**250**			0.49	"	"	"	"	"
Molybdenum	**5.8**			4.9	"	"	"	"	"
Nickel	**11**			1.9	"	"	"	"	"
Potassium	**880**			49	"	"	"	"	"
Silver	**1.9**			0.97	"	"	"	"	"
Sodium	**1900**			19	"	"	"	"	"
Strontium	**170**			0.49	"	"	"	"	"
Titanium	**220**			0.97	"	"	"	"	"
Vanadium	**12**			1.9	"	"	"	"	"
Zinc	**130**	J		4.9	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T26-125-1.0-3.0
0909005-05(Soil)
Sampled: Sep-02-09 10:30
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**7300**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**95**			1.1	"	"	"	"	"
Beryllium	**0.85**			0.54	"	"	"	"	"
Boron	**19**			2.2	"	"	"	"	"
Cadmium	**2.5**			0.54	"	"	"	"	"
Calcium	**160000**			540	"	25	"	"	Oct-26-09
Chromium	**45**			1.1	"	1	"	"	Oct-26-09
Cobalt	**4.5**			1.1	"	"	"	"	"
Copper	**62**			1.1	"	"	"	"	"
Iron	**27000**			22	"	"	"	"	"
Lead	**140**			5.4	"	"	"	"	"
Lithium	**8.8**			2.2	"	"	"	"	"
Magnesium	**17000**			11	"	"	"	"	"
Manganese	**490**			0.54	"	"	"	"	"
Molybdenum	**U**			5.4	"	"	"	"	"
Nickel	**25**			2.2	"	"	"	"	"
Potassium	**910**			54	"	"	"	"	"
Silver	**2.5**			1.1	"	"	"	"	"
Sodium	**540**			22	"	"	"	"	"
Strontium	**240**			0.54	"	"	"	"	"
Titanium	**230**			1.1	"	"	"	"	"
Vanadium	**17**			2.2	"	"	"	"	"
Zinc	**280**	J		5.4	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T20-125-1.0-3.0
0909005-06(Soil)
Sampled: Sep-02-09 14:45
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4500**			20	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**44**			1.0	"	"	"	"	"
Beryllium	**0.57**			0.50	"	"	"	"	"
Boron	**29**			2.0	"	"	"	"	"
Cadmium	**U**			0.50	"	"	"	"	"
Calcium	**260000**			500	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.1**			1.0	"	"	"	"	"
Copper	**17**			1.0	"	"	"	"	"
Iron	**5200**			20	"	"	"	"	"
Lead	**U**			5.0	"	"	"	"	"
Lithium	**3.8**			2.0	"	"	"	"	"
Magnesium	**78000**			250	"	25	"	"	Oct-26-09
Manganese	**640**			0.50	"	1	"	"	Oct-26-09
Molybdenum	**16**			5.0	"	"	"	"	"
Nickel	**2.6**			2.0	"	"	"	"	"
Potassium	**260**			50	"	"	"	"	"
Silver	**3.0**			1.0	"	"	"	"	"
Sodium	**21000**			20	"	"	"	"	"
Strontium	**310**			0.50	"	"	"	"	"
Titanium	**180**			1.0	"	"	"	"	"
Vanadium	**14**			2.0	"	"	"	"	"
Zinc	**37**	J		5.0	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T20-125-1.0-3.0 Duplicate
0909005-07(Soil)
Sampled: Sep-02-09 14:45
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**45**			1.0	"	"	"	"	"
Beryllium	**0.58**			0.52	"	"	"	"	"
Boron	**29**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**250000**			520	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.7**			1.0	"	"	"	"	"
Copper	**17**			1.0	"	"	"	"	"
Iron	**5600**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**4.0**			2.1	"	"	"	"	"
Magnesium	**77000**			260	"	25	"	"	Oct-26-09
Manganese	**640**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**12**			5.2	"	"	"	"	"
Nickel	**4.2**			2.1	"	"	"	"	"
Potassium	**290**			52	"	"	"	"	"
Silver	**2.6**			1.0	"	"	"	"	"
Sodium	**23000**			21	"	"	"	"	"
Strontium	**320**			0.52	"	"	"	"	"
Titanium	**170**			1.0	"	"	"	"	"
Vanadium	**14**			2.1	"	"	"	"	"
Zinc	**39**	J		5.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T27-150-1.0-3.0
0909006-01(Soil)
Sampled: Sep-03-09 15:50
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**6600**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**76**			1.1	"	"	"	"	"
Beryllium	**0.60**			0.55	"	"	"	"	"
Boron	**13**			2.2	"	"	"	"	"
Cadmium	**0.77**			0.55	"	"	"	"	"
Calcium	**150000**			550	"	25	"	"	Oct-26-09
Chromium	**21**			1.1	"	1	"	"	Oct-26-09
Cobalt	**3.9**			1.1	"	"	"	"	"
Copper	**83**			1.1	"	"	"	"	"
Iron	**17000**			22	"	"	"	"	"
Lead	**79**			5.5	"	"	"	"	"
Lithium	**9.4**			2.2	"	"	"	"	"
Magnesium	**15000**			11	"	"	"	"	"
Manganese	**360**			0.55	"	"	"	"	"
Molybdenum	**U**			5.5	"	"	"	"	"
Nickel	**16**			2.2	"	"	"	"	"
Potassium	**990**			55	"	"	"	"	"
Silver	**2.4**	J		1.1	"	"	"	"	"
Sodium	**1200**			22	"	"	"	"	"
Strontium	**220**			0.55	"	"	"	"	"
Titanium	**140**			1.1	"	"	"	"	"
Vanadium	**15**			2.2	"	"	"	"	"
Zinc	**210**	J		5.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T29-200-1.0-3.0
0909006-02(Soil)
Sampled: Sep-04-09 10:20
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**38**			1.1	"	"	"	"	"
Beryllium	**U**			0.53	"	"	"	"	"
Boron	**25**			2.1	"	"	"	"	"
Cadmium	**U**			0.53	"	"	"	"	"
Calcium	**220000**			530	"	25	"	"	Oct-26-09
Chromium	**11**			1.1	"	1	"	"	Oct-26-09
Cobalt	**2.0**			1.1	"	"	"	"	"
Copper	**15**			1.1	"	"	"	"	"
Iron	**4200**			21	"	"	"	"	"
Lead	**15**			5.3	"	"	"	"	"
Lithium	**3.3**			2.1	"	"	"	"	"
Magnesium	**90000**			260	"	25	"	"	Oct-26-09
Manganese	**330**			0.53	"	1	"	"	Oct-26-09
Molybdenum	**8.3**			5.3	"	"	"	"	"
Nickel	**3.9**			2.1	"	"	"	"	"
Potassium	**330**			53	"	"	"	"	"
Silver	**2.6**			1.1	"	"	"	"	"
Sodium	**27000**			21	"	"	"	"	"
Strontium	**190**			0.53	"	"	"	"	"
Titanium	**140**			1.1	"	"	"	"	"
Vanadium	**15**			2.1	"	"	"	"	"
Zinc	**29**	J		5.3	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T30-150-1.0-3.0
0909006-03(Soil)
Sampled: Sep-04-09 11:40
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3400**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**36**			1.0	"	"	"	"	"
Beryllium	**U**			0.52	"	"	"	"	"
Boron	**24**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**230000**			520	"	25	"	"	Oct-26-09
Chromium	**9.8**			1.0	"	1	"	"	Oct-26-09
Cobalt	**1.7**			1.0	"	"	"	"	"
Copper	**11**			1.0	"	"	"	"	"
Iron	**3300**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**2.6**			2.1	"	"	"	"	"
Magnesium	**97000**			260	"	25	"	"	Oct-26-09
Manganese	**320**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**U**			5.2	"	"	"	"	"
Nickel	**2.7**			2.1	"	"	"	"	"
Potassium	**290**			52	"	"	"	"	"
Silver	**2.2**			1.0	"	"	"	"	"
Sodium	**29000**			21	"	"	"	"	"
Strontium	**190**			0.52	"	"	"	"	"
Titanium	**130**			1.0	"	"	"	"	"
Vanadium	**14**			2.1	"	"	"	"	"
Zinc	**22**	J		5.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T22-175-0.5-1.2
0909006-04(Soil)
Sampled: Sep-04-09 13:50
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4100**			17	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**46**			0.85	"	"	"	"	"
Beryllium	**0.46**			0.42	"	"	"	"	"
Boron	**9.6**			1.7	"	"	"	"	"
Cadmium	**0.70**			0.42	"	"	"	"	"
Calcium	**110000**			210	"	12.5	"	"	Oct-26-09
Chromium	**21**			0.85	"	1	"	"	Oct-26-09
Cobalt	**4.6**			0.85	"	"	"	"	"
Copper	**23**			0.85	"	"	"	"	"
Iron	**20000**			17	"	"	"	"	"
Lead	**90**			4.2	"	"	"	"	"
Lithium	**6.9**			1.7	"	"	"	"	"
Magnesium	**30000**			8.5	"	"	"	"	"
Manganese	**380**			0.42	"	"	"	"	"
Molybdenum	**U**			4.2	"	"	"	"	"
Nickel	**24**			1.7	"	"	"	"	"
Potassium	**790**			42	"	"	"	"	"
Silver	**1.2**			0.85	"	"	"	"	"
Sodium	**2600**			17	"	"	"	"	"
Strontium	**110**			0.42	"	"	"	"	"
Titanium	**77**			0.85	"	"	"	"	"
Vanadium	**13**			1.7	"	"	"	"	"
Zinc	**140**	J		4.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T16-125-0.0-0.6
0909014-01(Soil)
Sampled: Sep-11-09 10:55
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3100**			18	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**21**			0.91	"	"	"	"	"
Beryllium	**U**			0.46	"	"	"	"	"
Boron	**4.7**			1.8	"	"	"	"	"
Cadmium	**U**			0.46	"	"	"	"	"
Calcium	**45000**			18	"	"	"	"	"
Chromium	**11**			0.91	"	"	"	"	"
Cobalt	**3.6**			0.91	"	"	"	"	"
Copper	**12**			0.91	"	"	"	"	"
Iron	**15000**			18	"	"	"	"	"
Lead	**20**			4.6	"	"	"	"	"
Lithium	**4.9**			1.8	"	"	"	"	"
Magnesium	**6100**			9.1	"	"	"	"	"
Manganese	**180**			0.46	"	"	"	"	"
Molybdenum	**U**			4.6	"	"	"	"	"
Nickel	**17**			1.8	"	"	"	"	"
Potassium	**340**			46	"	"	"	"	"
Silver	**U**			0.91	"	"	"	"	"
Sodium	**160**			18	"	"	"	"	"
Strontium	**61**			0.46	"	"	"	"	"
Titanium	**110**			0.91	"	"	"	"	"
Vanadium	**13**			1.8	"	"	"	"	"
Zinc	**70**	J		4.6	"	"	"	"	"

10
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T23-150-1.0-3.0
0909014-02(Soil)
Sampled: Sep-11-09 15:00
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**6700**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**100**			1.1	"	"	"	"	"
Beryllium	**0.90**			0.55	"	"	"	"	"
Boron	**16**			2.2	"	"	"	"	"
Cadmium	**1.6**			0.55	"	"	"	"	"
Calcium	**220000**			550	"	25	"	"	Oct-26-09
Chromium	**34**			1.1	"	1	"	"	Oct-26-09
Cobalt	**4.4**			1.1	"	"	"	"	"
Copper	**160**			1.1	"	"	"	"	"
Iron	**16000**			22	"	"	"	"	"
Lead	**72**			5.5	"	"	"	"	"
Lithium	**9.0**			2.2	"	"	"	"	"
Magnesium	**18000**			11	"	"	"	"	"
Manganese	**310**			0.55	"	"	"	"	"
Molybdenum	**U**			5.5	"	"	"	"	"
Nickel	**23**			2.2	"	"	"	"	"
Potassium	**950**			55	"	"	"	"	"
Silver	**2.3**			1.1	"	"	"	"	"
Sodium	**1900**			22	"	"	"	"	"
Strontium	**240**			0.55	"	"	"	"	"
Titanium	**200**			1.1	"	"	"	"	"
Vanadium	**19**			2.2	"	"	"	"	"
Zinc	**300**	J		5.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T23-150-5.0-6.2
0909014-03(Soil)
Sampled: Sep-11-09 15:08
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3300**			17	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**29**			0.85	"	"	"	"	"
Beryllium	**U**			0.42	"	"	"	"	"
Boron	**13**			1.7	"	"	"	"	"
Cadmium	**U**			0.42	"	"	"	"	"
Calcium	**140000**			210	"	12.5	"	"	Oct-26-09
Chromium	**10**			0.85	"	1	"	"	Oct-26-09
Cobalt	**2.6**			0.85	"	"	"	"	"
Copper	**14**			0.85	"	"	"	"	"
Iron	**7100**			17	"	"	"	"	"
Lead	**18**			4.2	"	"	"	"	"
Lithium	**4.6**			1.7	"	"	"	"	"
Magnesium	**32000**			8.5	"	"	"	"	"
Manganese	**220**			0.42	"	"	"	"	"
Molybdenum	**U**			4.2	"	"	"	"	"
Nickel	**6.0**			1.7	"	"	"	"	"
Potassium	**420**			42	"	"	"	"	"
Silver	**1.3**			0.85	"	"	"	"	"
Sodium	**890**			17	"	"	"	"	"
Strontium	**120**			0.42	"	"	"	"	"
Titanium	**110**			0.85	"	"	"	"	"
Vanadium	**13**			1.7	"	"	"	"	"
Zinc	**35**	J		4.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

T26-175-1.0-2.6
0909014-04(Soil)
Sampled: Sep-11-09 17:00
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5100**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**47**			1.1	"	"	"	"	"
Beryllium	**U**			0.53	"	"	"	"	"
Boron	**7.5**			2.1	"	"	"	"	"
Cadmium	**U**			0.53	"	"	"	"	"
Calcium	**91000**			270	"	12.5	"	"	Oct-26-09
Chromium	**12**			1.1	"	1	"	"	Oct-26-09
Cobalt	**3.5**			1.1	"	"	"	"	"
Copper	**48**			1.1	"	"	"	"	"
Iron	**14000**			21	"	"	"	"	"
Lead	**58**			5.3	"	"	"	"	"
Lithium	**6.0**			2.1	"	"	"	"	"
Magnesium	**7200**			11	"	"	"	"	"
Manganese	**220**			0.53	"	"	"	"	"
Molybdenum	**U**			5.3	"	"	"	"	"
Nickel	**12**			2.1	"	"	"	"	"
Potassium	**580**			53	"	"	"	"	"
Silver	**1.3**			1.1	"	"	"	"	"
Sodium	**340**			21	"	"	"	"	"
Strontium	**110**			0.53	"	"	"	"	"
Titanium	**93**			1.1	"	"	"	"	"
Vanadium	**11**			2.1	"	"	"	"	"
Zinc	**160**	J		5.3	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Jan-12-10 14:53

T26-175-0.5-1.0
0909014-05(Soil)
Sampled: Sep-11-09 16:53
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4900**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**57**			1.0	"	"	"	"	"
Beryllium	**0.57**			0.52	"	"	"	"	"
Boron	**8.0**			2.1	"	"	"	"	"
Cadmium	**1.8**			0.52	"	"	"	"	"
Calcium	**110000**			260	"	12.5	"	"	Oct-26-09
Chromium	**27**			1.0	"	1	"	"	Oct-26-09
Cobalt	**4.0**			1.0	"	"	"	"	"
Copper	**34**			1.0	"	"	"	"	"
Iron	**22000**			21	"	"	"	"	"
Lead	**78**			5.2	"	"	"	"	"
Lithium	**6.6**			2.1	"	"	"	"	"
Magnesium	**8800**			10	"	"	"	"	"
Manganese	**420**			0.52	"	"	"	"	"
Molybdenum	**U**			5.2	"	"	"	"	"
Nickel	**22**			2.1	"	"	"	"	"
Potassium	**530**			52	"	"	"	"	"
Silver	**1.7**			1.0	"	"	"	"	"
Sodium	**290**			21	"	"	"	"	"
Strontium	**150**			0.52	"	"	"	"	"
Titanium	**140**			1.0	"	"	"	"	"
Vanadium	**13**			2.1	"	"	"	"	"
Zinc	**190**	J		5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Jan-12-10 14:53

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Kathleen Swan, Analyst

Analysis:	Metals full ICP (S)	**Project**:	BASF Wyandotte, MI Sediments Burns Harbor
Analyst:	K Swan KS	**Work Order** 0909005, 0909006, 0909014	
		Date: January 12, 2010	
Phone Number:	312 353 9071		

REVISED REPORT
ANALYSIS CASE NARRATIVE

312 353 9071

The original report is being revised to add "J" flags for estimate to all zinc values, due to a line saturation. Nothing else is changed.

General Information

All holding times were met. Temperature upon arrival was below 6 degrees C.

Sample Analysis and Results

Sample preparation occurred by using CRL SOP Metals 025, Revision No. 4, EPA sample preparation procedure 200.2, and analysis occurred by using CRL SOP Metals Method 004, Revision No. 6, EPA ICP Method 200.7. It is noted that a preliminary run showed an inhomogeneity in 0909014-02 T23-150-1.0-3.0. Samples from that work order were redigested and the inhomogeneity did not reappear. Conclude that the original inhomogeneity resulted from clumps that were part of the original subsample.

Quality Control

All quality control (QC) audits were within CRL limits, with the following exceptions:

Blanks (Limit ± MDL) Several elements were very slightly outside currently calculated detection limit. This does not affect data quality.

Matrix Duplicate (Limit ± 20%) Sample 0909006-01 T27-150-1.0.3.0 was inhomogeneous in silver (26% RPD) and is flagged J.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 12/14/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Chi Tang
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin DEC 15 2009
Data Management Coordinator and Date Received

Date Transmitted: DEC 15 2009 / / /

Analyses included in this report:

Volatiles Full List x

The data is usable for the intended purpose; VOC concentrations in sediment for Corrective Action. Although many QC criteria failed for certain compounds, this did not affect the data use, since concentrations of those compounds in these samples were minimal. See the enclosed Narrative for this data pkg.

Brian P. Filcer
1/5/10

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

ANALYSIS CASE NARRATIVE
(312) 353-9068

General Information

13 soil samples, to be analyzed for volatile organic compounds, were received at Chicago Regional Laboratory between September 3, 2009 and September 14, 2009. All samples were analyzed within the sample holding time requirement.

Sample Analysis and Results

Samples were stored in the refrigerator at all times, except when in use. Samples were analyzed for volatile organic compounds following CRL SOP MS001 Revision 5.

Naphthalene was analyzed but not reported from the volatile analyses. Instead, Naphthalene was reported from the semi-volatile analyses.

Quality Control

Initial Calibration (IC):

An IC was run on September 14, 2009. Three compounds, Vinyl Chloride, Bromomethane and Acrylonitrile, failed the 30% RSD quality control (QC) limit. Results of these three compounds were qualified with "J" as estimated. The report limit for Bromomethane and Naphthalene were raised to 25 ug/L because the background interference.

The IC was checked with a separate IC Check solution and all compounds, with exception of Dichlorodifluoromethane, Chloromethane, Bromomethane, Trichlorofluoromethane, m/p-Xylene and Isopropyl benzene, exceeded the QC limits of 30%. Results of those compounds failed the IC Check were qualified with J flag as estimated. The reason of the IC Check failure was probably due to a spiking error.

Another IC was run on September 15, 2009. Two compounds, Bromomethane and Styrene, failed the 30% RSD quality control (QC) limit. Results of Bromomethane and Styrene were qualified with "J" as estimated. The report limits of Bromomethane and many hydrocarbon compounds were raised to 25 ug/L and the report limit of m/p-Xylene was raised to 50 ug/L because the background interferences.

The 2nd IC was checked with a separate IC Check solution with two compounds, Dichlorodifluoromethane and Chloromethane exceeded the QC limit of 30%. Results of Dichlorodifluoromethane and Chloromethane in samples quantified by the 2nd IC were qualified with "J" flag as estimated.

Continuing Calibration (CC) and Closing Continuing Calibration (CCC):

A CC was run on September 16, 2009. Eight compounds, Bromomethane, Acrolein, Acetone, Acrylonitirle, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, and 1,2-Dibromo-3-chloropropane, exceeded the QC limit of 25% D. Since none of these eight compounds was detected in any sample above the report limit, the CC was acceptable and results of these eight compounds analyzed on September 16, 2009 were qualified with "J" as estimated.

The Laboratory Control Spike Duplicate sample (B909019-BSD2) also served as the CCC for analyses run on September 16, 2009. The CCC had 20 compounds, Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Trichlorofluoromethane, Acrolein, Acetone, Acrylonitrile, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, m/p- Xylene, o-Xylene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, tert-Butylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene and 1,2-Dibromo-3-chloropropane, exceeded the QC limit of 25% D. Sample results pf these 20 compounds in samples analyzed on September 16, 2009 were qualified with "J" as estimated. The reason of so many hydrocarbon compounds failed the CCC was due to interferences from dirty samples analyzed earlier.

Laboratory Control Spike/Laboratory Control Spike Duplicate (LCS/LCSD)

Two sets of LCS/LCSD were analyzed with the samples. B909019-BS1/BSD1 on September 14, 2009 and B909019-BS2/BSD2 on September 16, 2009.

Recoveries of Acetone, Acrylonitrile and 2-Butanone exceeded the lower control limits in both B909019-BS2 and B909019-BSD2 QC samples. Since none of these three compounds was detected above the report limits, results of these three compounds for samples analyzed on September 19, 2009 were qualified with "UJ' as estimated report limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Two sets of MS/MSD were analyzed, B909019-MS1/MSD1 on sample T26-50-1.0-3.0 (0909005-02) and B909019 MS2/MSD2 on sample T26-175-1.0-2.6 (0909014-04).

13 compounds: Acrylonitirle, trans-1,2-Dichloroethene, 1,1-Dichloroethane, Bromochloromethane, Chloroform, 2-Hexanone, Chlorobenzene, m/p-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane and n-Propylbenzene exceeded the lower control limits in both B909019-MS1 and B909019-MSD1 QC samples. Since none of the 13 compounds were detected above the report limit in the native sample, 0909005-02, results of these 13 compounds in the native sample 0909005-02 were qualified with "UJ" as estimated report limits.

Recoveries of 2-Hexanone and 1,2,3-Trichloropropane exceeded the lower control limits in both the B909019-MS2 and B909019-MSD2 samples. Since none of the two compounds was detected in the native sample 0909014-04, results of 2-Hexanone and 1,2,3-Trichloropropane in the native sample 0909014-04 was qualified with "UJ" as estimated report limits.

Internal Standard/Surrogate Standard (IS/SS):

The IS/SS solutions prepared was expired but the peak areas were good and responses were within the QC control limits, and using the expired IS/SS solutions had no discernable effect on the sample data quality.

The other quality controls not specifically discussed in this section met CRL's quality criteria specified in the SOP

Chi Fang

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T18-50-1.0-3.0	0909005-02	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T27-125-3.0-4.8	0909005-03	Soil	Sep-01-09 14:50	Sep-03-09 10:48
T24-125-1.0-3.0	0909005-04	Soil	Sep-02-09 09:05	Sep-03-09 10:48
T26-125-1.0-3.0	0909005-05	Soil	Sep-02-09 10:30	Sep-03-09 10:48
T20-125-1.0-3.0	0909005-06	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T20-125-1.0-3.0 Duplicate	0909005-07	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T27-150-1.0-3.0	0909006-01	Soil	Sep-03-09 15:50	Sep-08-09 11:25
T29-200-1.0-3.0	0909006-02	Soil	Sep-04-09 10:20	Sep-08-09 11:25
T30-150-1.0-3.0	0909006-03	Soil	Sep-04-09 11:40	Sep-08-09 11:25
T23-150-1.0-3.0	0909014-02	Soil	Sep-11-09 15:00	Sep-14-09 10:00
T23-150-5.0-6.2	0909014-03	Soil	Sep-11-09 15:08	Sep-14-09 10:00
T26-175-1.0-2.6	0909014-04	Soil	Sep-11-09 17:00	Sep-14-09 10:00
T26-175-0.5-1.0	0909014-05	Soil	Sep-11-09 16:53	Sep-14-09 10:00

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U			32.0	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Chloromethane	U			32.0	"	"	"	"	"
Vinyl chloride	U	J		32.0	"	"	"	"	"
Bromomethane	U	J		80.1	"	"	"	"	"
Chloroethane	U	J		32.0	"	"	"	"	"
Trichlorofluoromethane	U			32.0	"	"	"	"	"
Acrolein	U	J		80.1	"	"	"	"	"
1,1-Dichloroethene	U	J		16.0	"	"	"	"	"
Acetone	U	J		80.1	"	"	"	"	"
Carbon disulfide	U	J		16.0	"	"	"	"	"
Methylene chloride	U	J		16.0	"	"	"	"	"
Acrylonitrile	U	J		80.1	"	"	"	"	"
trans-1,2-Dichloroethene	U	J		16.0	"	"	"	"	"
1,1-Dichloroethane	U	J		16.0	"	"	"	"	"
2-Butanone	U	J		80.1	"	"	"	"	"
cis-1,2-Dichloroethene	U	J		16.0	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
2,2-Dichloropropane	U	J		16.0	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Bromochloromethane	U	J		16.0	"	"	"	"	"
Chloroform	U	J		16.0	"	"	"	"	"
1,1,1-Trichloroethane	U	J		16.0	"	"	"	"	"
1,1-Dichloropropene	U	J		16.0	"	"	"	"	"
Carbon tetrachloride	U	J		16.0	"	"	"	"	"
1,2-Dichloroethane	U	J		16.0	"	"	"	"	"
Benzene	U	J		16.0	"	"	"	"	"
Trichloroethene	U	J		16.0	"	"	"	"	"
1,2-Dichloropropane	U	J		16.0	"	"	"	"	"
Dibromomethane	U	J		16.0	"	"	"	"	"
Bromodichloromethane	U	J		16.0	"	"	"	"	"
cis-1,3-Dichloropropene	U	J		16.0	"	"	"	"	"
4-Methyl-2-pentanone	U	J		32 0	"	"	"	"	"
Toluene	U	J		16.0	"	"	"	"	"
trans-1,3-Dichloropropene	U	J		16.0	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,2-Trichloroethane	U	J		16.0	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
1,3-Dichloropropane	U	J		16.0	"	"	"	"	"
Tetrachloroethene	U	J		16.0	"	"	"	"	"
2-Hexanone	U	J		32.0	"	"	"	"	"
Dibromochloromethane	U	J		16.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	U	J		16.0	"	"	"	"	"
Chlorobenzene	U	J		16.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U	J		16.0	"	"	"	"	"
Ethylbenzene	U	J		16.0	"	"	"	"	"
m+p-Xylene	U	J		32.0	"	"	"	"	"
o-Xylene	U	J		16.0	"	"	"	"	"
Styrene	U	J		16.0	"	"	"	"	"
Bromoform	U	J		16.0	"	"	"	"	"
Isopropylbenzene	U	J		16.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		16.0	"	"	"	"	"
1,2,3-Trichloropropane	U	J		16.0	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromobenzene	U	J		16.0	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
n-Propylbenzene	U	J		16.0	"	"	"	"	"
2-Chlorotoluene	U	J		16.0	"	"	"	"	"
4-Chlorotoluene	U	J		16.0	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		16.0	"	"	"	"	"
tert-Butylbenzene	U	J		16.0	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		16.0	"	"	"	"	"
sec-Butylbenzene	U	J		16.0	"	"	"	"	"
p-Isopropyltoluene	U	J		16.0	"	"	"	"	"
1,3-Dichlorobenzene	U	J		16.0	"	"	"	"	"
1,4-Dichlorobenzene	U	J		16.0	"	"	"	"	"
n-Butylbenzene	U	J		16.0	"	"	"	"	"
1,2-Dichlorobenzene	U	J		16.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		16.0	"	"	"	"	"
1,2,4-Trichlorobenzene	U	J		16.0	"	"	"	"	"
Hexachlorobutadiene	U	J		16.0	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	U	J		16.0	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Surrogate: Benzene-d6	24.7			*77.0 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	30.3			*94.5 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	35.5			*111 %*	*61-138*	"	"	"	

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U			15.7	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Chloromethane	U			15.7	"	"	"	"	"
Vinyl chloride	U	J		15.7	"	"	"	"	"
Bromomethane	U	J		39.2	"	"	"	"	"
Chloroethane	U	J		15.7	"	"	"	"	"
Trichlorofluoromethane	U			15.7	"	"	"	"	"
Acrolein	U	J		39.2	"	"	"	"	"
1,1-Dichloroethene	U	J		7.84	"	"	"	"	"
Acetone	U	J		39.2	"	"	"	"	"
Carbon disulfide	U	J		7.84	"	"	"	"	"
Methylene chloride	U	J		7.84	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acrylonitrile	U	J		39.2	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
trans-1,2-Dichloroethene	U	J		7.84	"	"	"	"	"
1,1-Dichloroethane	U	J		7.84	"	"	"	"	"
2-Butanone	U	J		39.2	"	"	"	"	"
cis-1,2-Dichloroethene	U	J		7.84	"	"	"	"	"
2,2-Dichloropropane	U	J		7.84	"	"	"	"	"
Bromochloromethane	U	J		7.84	"	"	"	"	"
Chloroform	U	J		7.84	"	"	"	"	"
1,1,1-Trichloroethane	U	J		7.84	"	"	"	"	"
1,1-Dichloropropene	U	J		7.84	"	"	"	"	"
Carbon tetrachloride	U	J		7.84	"	"	"	"	"
1,2-Dichloroethane	U	J		7.84	"	"	"	"	"
Benzene	U	J		7.84	"	"	"	"	"
Trichloroethene	U	J		7.84	"	"	"	"	"
1,2-Dichloropropane	U	J		7.84	"	"	"	"	"
Dibromomethane	U	J		7.84	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	U	J		7.84	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
cis-1,3-Dichloropropene	U	J		7.84	"	"	"	"	"
4-Methyl-2-pentanone	U	J		15.7	"	"	"	"	"
Toluene	U	J		7.84	"	"	"	"	"
trans-1,3-Dichloropropene	U	J		7.84	"	"	"	"	"
1,1,2-Trichloroethane	U	J		7.84	"	"	"	"	"
1,3-Dichloropropane	U	J		7.84	"	"	"	"	"
Tetrachloroethene	U	J		7.84	"	"	"	"	"
2-Hexanone	U	J		15 7	"	"	"	"	"
Dibromochloromethane	U	J		7.84	"	"	"	"	"
1,2-Dibromoethane (EDB)	U	J		7.84	"	"	"	"	"
Chlorobenzene	U	J		7.84	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U	J		7.84	"	"	"	"	"
Ethylbenzene	U	J		7.84	"	"	"	"	"
m+p-Xylene	U			15.7	"	"	"	"	"
o-Xylene	U	J		7.84	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U	J		7.84	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Bromoform	U	J		7.84	"	"	"	"	"
Isopropylbenzene	U			7.84	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		7.84	"	"	"	"	"
1,2,3-Trichloropropane	U	J		7.84	"	"	"	"	"
Bromobenzene	U	J		7.84	"	"	"	"	"
n-Propylbenzene	U	J		7.84	"	"	"	"	"
2-Chlorotoluene	U	J		7.84	"	"	"	"	"
4-Chlorotoluene	U	J		7.84	"	"	"	"	"
1,3,5-Trimethylbenzene	14.6	J		7.84	"	"	"	"	"
tert-Butylbenzene	U	J		7.84	"	"	"	"	"
1,2,4-Trimethylbenzene	30.9	J		7.84	"	"	"	"	"
sec-Butylbenzene	U	J		7 84	"	"	"	"	"
p-Isopropyltoluene	38.3	J		7.84	"	"	"	"	"
1,3-Dichlorobenzene	U	J		7.84	"	"	"	"	"
1,4-Dichlorobenzene	U	J		7.84	"	"	"	"	"
n-Butylbenzene	11.8	J		7.84	"	"	"	"	"
1,2-Dichlorobenzene	U	J		7.84	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromo-3-chloropropane	U	J		7.84	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
1,2,4-Trichlorobenzene	U	J		7.84	"	"	"	"	"
Hexachlorobutadiene	U	J		7.84	"	"	"	"	"
1,2,3-Trichlorobenzene	U	J		7.84	"	"	"	"	"
Surrogate: Benzene-d6	12.2			*77.9 %*	*58 9-108*	"	"	"	
Surrogate: Toluene-d8	14 5			*92.7 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	16.6			*106 %*	*61-138*	"	"	"	

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U			14.7	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Chloromethane	U			14.7	"	"	"	"	"
Vinyl chloride	U	J		14.7	"	"	"	"	"
Bromomethane	U	J		36.9	"	"	"	"	"
Chloroethane	U	J		14.7	"	"	"	"	"
Trichlorofluoromethane	U			14.7	"	"	"	"	"
Acrolein	U	J		36.9	"	"	"	"	"
1,1-Dichloroethene	U	J		7.37	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		36.9	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Carbon disulfide	U	J		7.37	"	"	"	"	"
Methylene chloride	U	J		7.37	"	"	"	"	"
Acrylonitrile	U	J		36.9	"	"	"	"	"
trans-1,2-Dichloroethene	U	J		7.37	"	"	"	"	"
1,1-Dichloroethane	U	J		7 37	"	"	"	"	"
2-Butanone	U	J		36.9	"	"	"	"	"
cis-1,2-Dichloroethene	U	J		7.37	"	"	"	"	"
2,2-Dichloropropane	U	J		7.37	"	"	"	"	"
Bromochloromethane	U	J		7.37	"	"	"	"	"
Chloroform	U	J		7.37	"	"	"	"	"
1,1,1-Trichloroethane	U	J		7.37	"	"	"	"	"
1,1-Dichloropropene	U	J		7.37	"	"	"	"	"
Carbon tetrachloride	U	J		7.37	"	"	"	"	"
1,2-Dichloroethane	U	J		7.37	"	"	"	"	"
Benzene	U	J		7.37	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichloroethene	U	J		7.37	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
1,2-Dichloropropane	U	J		7.37	"	"	"	"	"
Dibromomethane	U	J		7.37	"	"	"	"	"
Bromodichloromethane	U	J		7.37	"	"	"	"	"
cis-1,3-Dichloropropene	U	J		7.37	"	"	"	"	"
4-Methyl-2-pentanone	U	J		14.7	"	"	"	"	"
Toluene	U	J		7.37	"	"	"	"	"
trans-1,3-Dichloropropene	U	J		7.37	"	"	"	"	"
1,1,2-Trichloroethane	U	J		7.37	"	"	"	"	"
1,3-Dichloropropane	U	J		7.37	"	"	"	"	"
Tetrachloroethene	U	J		7.37	"	"	"	"	"
2-Hexanone	U	J		14.7	"	"	"	"	"
Dibromochloromethane	U	J		7.37	"	"	"	"	"
1,2-Dibromoethane (EDB)	U	J		7.37	"	"	"	"	"
Chlorobenzene	U	J		7.37	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U	J		7.37	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	U	J		7 37	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
m+p-Xylene	U			14.7	"	"	"	"	"
o-Xylene	U	J		7.37	"	"	"	"	"
Styrene	U	J		7.37	"	"	"	"	"
Bromoform	U	J		7.37	"	"	"	"	"
Isopropylbenzene	U			7.37	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		7.37	"	"	"	"	"
1,2,3-Trichloropropane	U	J		7.37	"	"	"	"	"
Bromobenzene	U	J		7.37	"	"	"	"	"
n-Propylbenzene	U	J		7.37	"	"	"	"	"
2-Chlorotoluene	U	J		7.37	"	"	"	"	"
4-Chlorotoluene	U	J		7.37	"	"	"	"	"
1,3,5-Trimethylbenzene	11.8	J		7.37	"	"	"	"	"
tert-Butylbenzene	U	J		7.37	"	"	"	"	"
1,2,4-Trimethylbenzene	19.3	J		7.37	"	"	"	"	"
sec-Butylbenzene	U	J		7.37	"	"	"	"	"
p-Isopropyltoluene	12.2	J		7.37	"	"	"	"	"
1,3-Dichlorobenzene	U	J		7.37	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dichlorobenzene	U	J		7.37	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
n-Butylbenzene	U	J		7.37	"	"	"	"	"
1,2-Dichlorobenzene	U	J		7.37	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		7.37	"	"	"	"	"
1,2,4-Trichlorobenzene	U	J		7.37	"	"	"	"	"
Hexachlorobutadiene	U	J		7 37	"	"	"	"	"
1,2,3-Trichlorobenzene	U	J		7.37	"	"	"	"	"
Surrogate: Benzene-d6	11.4			*77.2 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	14.0			*95.2 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	18.8			*127 %*	*61-138*	"	"	"	

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U			19.4	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Chloromethane	U			19.4	"	"	"	"	"
Vinyl chloride	U	J		19.4	"	"	"	"	"
Bromomethane	U	J		48.5	"	"	"	"	"
Chloroethane	U	J		19.4	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichlorofluoromethane	U			19.4	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Acrolein	U	J		48.5	"	"	"	"	"
1,1-Dichloroethene	U	J		9.71	"	"	"	"	"
Acetone	U	J		48.5	"	"	"	"	"
Carbon disulfide	U	J		9.71	"	"	"	"	"
Methylene chloride	U	J		9.71	"	"	"	"	"
Acrylonitrile	U	J		48.5	"	"	"	"	"
trans-1,2-Dichloroethene	U	J		9.71	"	"	"	"	"
1,1-Dichloroethane	U	J		9.71	"	"	"	"	"
2-Butanone	U	J		48.5	"	"	"	"	"
cis-1,2-Dichloroethene	U	J		9.71	"	"	"	"	"
2,2-Dichloropropane	U	J		9.71	"	"	"	"	"
Bromochloromethane	U	J		9.71	"	"	"	"	"
Chloroform	U	J		9.71	"	"	"	"	"
1,1,1-Trichloroethane	U	J		9.71	"	"	"	"	"
1,1-Dichloropropene	U	J		9.71	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon tetrachloride	U	J		9.71	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
1,2-Dichloroethane	U	J		9.71	"	"	"	"	"
Benzene	U	J		9.71	"	"	"	"	"
Trichloroethene	U	J		9.71	"	"	"	"	"
1,2-Dichloropropane	U	J		9.71	"	"	"	"	"
Dibromomethane	U	J		9.71	"	"	"	"	"
Bromodichloromethane	U	J		9.71	"	"	"	"	"
cis-1,3-Dichloropropene	U	J		9.71	"	"	"	"	"
4-Methyl-2-pentanone	U	J		19.4	"	"	"	"	"
Toluene	U	J		9.71	"	"	"	"	"
trans-1,3-Dichloropropene	U	J		9.71	"	"	"	"	"
1,1,2-Trichloroethane	U	J		9.71	"	"	"	"	"
1,3-Dichloropropane	U	J		9.71	"	"	"	"	"
Tetrachloroethene	U	J		9.71	"	"	"	"	"
2-Hexanone	U	J		19.4	"	"	"	"	"
Dibromochloromethane	U	J		9.71	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	U	J		9.71	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
Chlorobenzene	U	J		9.71	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U	J		9.71	"	"	"	"	"
Ethylbenzene	U	J		9.71	"	"	"	"	"
m+p-Xylene	U			19.4	"	"	"	"	"
o-Xylene	12.7	J		9.71	"	"	"	"	"
Styrene	U	J		9.71	"	"	"	"	"
Bromoform	U	J		9.71	"	"	"	"	"
Isopropylbenzene	9.95			9.71	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		9.71	"	"	"	"	"
1,2,3-Trichloropropane	U	J		9.71	"	"	"	"	"
Bromobenzene	U	J		9.71	"	"	"	"	"
n-Propylbenzene	U	J		9.71	"	"	"	"	"
2-Chlorotoluene	U	J		9.71	"	"	"	"	"
4-Chlorotoluene	U	J		9.71	"	"	"	"	"
1,3,5-Trimethylbenzene	28.8	J		9.71	"	"	"	"	"
tert-Butylbenzene	U	J		9.71	"	"	"	"	"
1,2,4-Trimethylbenzene	47.4	J		9.71	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	U	J		9.71	ug/kg dry	1	B909019	Sep-14-09	Sep-14-09
p-Isopropyltoluene	12.9	J		9.71	"	"	"	"	"
1,3-Dichlorobenzene	U	J		9.71	"	"	"	"	"
1,4-Dichlorobenzene	U	J		9.71	"	"	"	"	"
n-Butylbenzene	U	J		9.71	"	"	"	"	"
1,2-Dichlorobenzene	U	J		9.71	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		9.71	"	"	"	"	"
1,2,4-Trichlorobenzene	U	J		9.71	"	"	"	"	"
Hexachlorobutadiene	U	J		9.71	"	"	"	"	"
1,2,3-Trichlorobenzene	U	J		9.71	"	"	"	"	"
Surrogate: Benzene-d6	15.0			*77.3 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	18.3			*94.2 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	21.7			*112 %*	*61-138*	"	"	"	

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		27.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		27.4	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Vinyl chloride	U	J		27.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Bromomethane	U	J		68.5	"	"	"	"	"
Chloroethane	U			27.4	"	"	"	"	"
Trichlorofluoromethane	U	J		27.4	"	"	"	"	"
Acrolein	U	J		68.5	"	"	"	"	"
1,1-Dichloroethene	U			13.7	"	"	"	"	"
Acetone	U	J		68.5	"	"	"	"	"
Carbon disulfide	14.5			13.7	"	"	"	"	"
Methylene chloride	U			13.7	"	"	"	"	"
Acrylonitrile	U	J		68.5	"	"	"	"	"
trans-1,2-Dichloroethene	U			13.7	"	"	"	"	"
1,1-Dichloroethane	U			13.7	"	"	"	"	"
2-Butanone	U	J		68.5	"	"	"	"	"
cis-1,2-Dichloroethene	U			13.7	"	"	"	"	"
2,2-Dichloropropane	U			13.7	"	"	"	"	"
Bromochloromethane	U			13.7	"	"	"	"	"
Chloroform	U			13.7	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1-Trichloroethane	U			13.7	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,1-Dichloropropene	U			13.7	"	"	"	"	"
Carbon tetrachloride	U			13.7	"	"	"	"	"
1,2-Dichloroethane	U			13.7	"	"	"	"	"
Benzene	U			13.7	"	"	"	"	"
Trichloroethene	U			13.7	"	"	"	"	"
1,2-Dichloropropane	U			13.7	"	"	"	"	"
Dibromomethane	U			13.7	"	"	"	"	"
Bromodichloromethane	U			13.7	"	"	"	"	"
cis-1,3-Dichloropropene	U			13.7	"	"	"	"	"
4-Methyl-2-pentanone	U	J		27.4	"	"	"	"	"
Toluene	U			13.7	"	"	"	"	"
trans-1,3-Dichloropropene	U			13.7	"	"	"	"	"
1,1,2-Trichloroethane	U			13.7	"	"	"	"	"
1,3-Dichloropropane	U			13.7	"	"	"	"	"
Tetrachloroethene	U			13.7	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
2-Hexanone	U	J		27.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Dibromochloromethane	U			13.7	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			13.7	"	"	"	"	"
Chlorobenzene	U			13.7	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			13.7	"	"	"	"	"
Ethylbenzene	U			13.7	"	"	"	"	"
m+p-Xylene	U	J		137	"	"	"	"	"
o-Xylene	U	J		68.5	"	"	"	"	"
Styrene	U	J		13.7	"	"	"	"	"
Bromoform	U			13.7	"	"	"	"	"
Isopropylbenzene	U			13.7	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			13.7	"	"	"	"	"
1,2,3-Trichloropropane	U			13.7	"	"	"	"	"
Bromobenzene	U			68.5	"	"	"	"	"
n-Propylbenzene	U			13.7	"	"	"	"	"
2-Chlorotoluene	U	J		68.5	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
4-Chlorotoluene	U			68.5	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,3,5-Trimethylbenzene	U	J		68.5	"	"	"	"	"
tert-Butylbenzene	U	J		68.5	"	"	"	"	"
1,2,4-Trimethylbenzene	74.8	J		68.5	"	"	"	"	"
sec-Butylbenzene	U	J		68.5	"	"	"	"	"
p-Isopropyltoluene	U	J		68.5	"	"	"	"	"
1,3-Dichlorobenzene	U	J		68.5	"	"	"	"	"
1,4-Dichlorobenzene	U			68.5	"	"	"	"	"
n-Butylbenzene	U			68.5	"	"	"	"	"
1,2-Dichlorobenzene	U			13.7	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		13.7	"	"	"	"	"
1,2,4-Trichlorobenzene	U			68.5	"	"	"	"	"
Hexachlorobutadiene	U			68.5	"	"	"	"	"
1,2,3-Trichlorobenzene	U			68.5	"	"	"	"	"

Surrogate: Benzene-d6	23.3	*84.9 %*	*58.9-108*	"	"	"
Surrogate: Toluene-d8	25.8	*94.3 %*	*75.2-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	37.3	*136 %*	*61-138*	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		30.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		30.2	"	"	"	"	"
Vinyl chloride	U	J		30.2	"	"	"	"	"
Bromomethane	U	J		75.5	"	"	"	"	"
Chloroethane	U			30.2	"	"	"	"	"
Trichlorofluoromethane	U	J		30.2	"	"	"	"	"
Acrolein	U	J		75.5	"	"	"	"	"
1,1-Dichloroethene	U			15.1	"	"	"	"	"
Acetone	U	J		75.5	"	"	"	"	"
Carbon disulfide	21.1			15.1	"	"	"	"	"
Methylene chloride	U			15.1	"	"	"	"	"
Acrylonitrile	U	J		75.5	"	"	"	"	"
trans-1,2-Dichloroethene	U			15.1	"	"	"	"	"
1,1-Dichloroethane	U			15.1	"	"	"	"	"
2-Butanone	U	J		75.5	"	"	"	"	"
cis-1,2-Dichloroethene	U			15.1	"	"	"	"	"
2,2-Dichloropropane	U			15.1	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	U			15.1	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloroform	U			15.1	"	"	"	"	"
1,1,1-Trichloroethane	U			15.1	"	"	"	"	"
1,1-Dichloropropene	U			15.1	"	"	"	"	"
Carbon tetrachloride	U			15.1	"	"	"	"	"
1,2-Dichloroethane	U			15.1	"	"	"	"	"
Benzene	U			15.1	"	"	"	"	"
Trichloroethene	U			15.1	"	"	"	"	"
1,2-Dichloropropane	U			15.1	"	"	"	"	"
Dibromomethane	U			15.1	"	"	"	"	"
Bromodichloromethane	U			15.1	"	"	"	"	"
cis-1,3-Dichloropropene	U			15.1	"	"	"	"	"
4-Methyl-2-pentanone	U	J		30.2	"	"	"	"	"
Toluene	U			15.1	"	"	"	"	"
trans-1,3-Dichloropropene	U			15.1	"	"	"	"	"
1,1,2-Trichloroethane	U			15.1	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichloropropane	U			15.1	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Tetrachloroethene	U			15.1	"	"	"	"	"
2-Hexanone	U	J		30.2	"	"	"	"	"
Dibromochloromethane	U			15.1	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			15.1	"	"	"	"	"
Chlorobenzene	U			15.1	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			15.1	"	"	"	"	"
Ethylbenzene	U			15.1	"	"	"	"	"
m+p-Xylene	U	J		151	"	"	"	"	"
o-Xylene	U	J		75 5	"	"	"	"	"
Styrene	U	J		15.1	"	"	"	"	"
Bromoform	U			15.1	"	"	"	"	"
Isopropylbenzene	U			15.1	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			15.1	"	"	"	"	"
1,2,3-Trichloropropane	U			15.1	"	"	"	"	"
Bromobenzene	U			75.5	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
n-Propylbenzene	U			15.1	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
2-Chlorotoluene	U	J		75.5	"	"	"	"	"
4-Chlorotoluene	U			75.5	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		75.5	"	"	"	"	"
tert-Butylbenzene	U	J		75.5	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		75.5	"	"	"	"	"
sec-Butylbenzene	U	J		75.5	"	"	"	"	"
p-Isopropyltoluene	U	J		75.5	"	"	"	"	"
1,3-Dichlorobenzene	U	J		75.5	"	"	"	"	"
1,4-Dichlorobenzene	U			75.5	"	"	"	"	"
n-Butylbenzene	U			75.5	"	"	"	"	"
1,2-Dichlorobenzene	U			15.1	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		15.1	"	"	"	"	"
1,2,4-Trichlorobenzene	U			75.5	"	"	"	"	"
Hexachlorobutadiene	U			75.5	"	"	"	"	"
1,2,3-Trichlorobenzene	U			75.5	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Benzene-d6	25.4			*84.0 %*	*58.9-108*	*B909019*	*Sep-16-09*	*Sep-16-09*	
Surrogate: Toluene-d8	29.5			*97.7 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	30.1			*99.5 %*	*61-138*	"	"	"	

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		14.9	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		14.9	"	"	"	"	"
Vinyl chloride	U	J		14.9	"	"	"	"	"
Bromomethane	U	J		37.2	"	"	"	"	"
Chloroethane	U			14.9	"	"	"	"	"
Trichlorofluoromethane	U	J		14.9	"	"	"	"	"
Acrolein	U	J		37.2	"	"	"	"	"
1,1-Dichloroethene	U			7.44	"	"	"	"	"
Acetone	U	J		37.2	"	"	"	"	"
Carbon disulfide	U			7.44	"	"	"	"	"
Methylene chloride	U			7.44	"	"	"	"	"
Acrylonitrile	U	J		37.2	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
trans-1,2-Dichloroethene	U			7.44	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,1-Dichloroethane	U			7.44	"	"	"	"	"
2-Butanone	U	J		37 2	"	"	"	"	"
cis-1,2-Dichloroethene	U			7.44	"	"	"	"	"
2,2-Dichloropropane	U			7.44	"	"	"	"	"
Bromochloromethane	U			7.44	"	"	"	"	"
Chloroform	U			7.44	"	"	"	"	"
1,1,1-Trichloroethane	U			7.44	"	"	"	"	"
1,1-Dichloropropene	U			7.44	"	"	"	"	"
Carbon tetrachloride	U			7.44	"	"	"	"	"
1,2-Dichloroethane	U			7.44	"	"	"	"	"
Benzene	U			7.44	"	"	"	"	"
Trichloroethene	U			7.44	"	"	"	"	"
1,2-Dichloropropane	U			7.44	"	"	"	"	"
Dibromomethane	U			7.44	"	"	"	"	"
Bromodichloromethane	U			7.44	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	U			7.44	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
4-Methyl-2-pentanone	U	J		14.9	"	"	"	"	"
Toluene	25.1			7.44	"	"	"	"	"
trans-1,3-Dichloropropene	U			7.44	"	"	"	"	"
1,1,2-Trichloroethane	U			7.44	"	"	"	"	"
1,3-Dichloropropane	U			7.44	"	"	"	"	"
Tetrachloroethene	U			7.44	"	"	"	"	"
2-Hexanone	U	J		14.9	"	"	"	"	"
Dibromochloromethane	U			7.44	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			7.44	"	"	"	"	"
Chlorobenzene	U			7.44	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			7.44	"	"	"	"	"
Ethylbenzene	10.1			7.44	"	"	"	"	"
m+p-Xylene	U	J		74.4	"	"	"	"	"
o-Xylene	U	J		37.2	"	"	"	"	"
Styrene	10.9	J		7.44	"	"	"	"	"
Bromoform	U			7.44	"	"	"	"	"
Isopropylbenzene	U			7.44	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	U			7.44	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,2,3-Trichloropropane	U			7.44	"	"	"	"	"
Bromobenzene	U			37.2	"	"	"	"	"
n-Propylbenzene	U			7.44	"	"	"	"	"
2-Chlorotoluene	U	J		37.2	"	"	"	"	"
4-Chlorotoluene	U			37.2	"	"	"	"	"
1,3,5-Trimethylbenzene	42.2	J		37.2	"	"	"	"	"
tert-Butylbenzene	U	J		37.2	"	"	"	"	"
1,2,4-Trimethylbenzene	80.5	J		37.2	"	"	"	"	"
sec-Butylbenzene	U	J		37.2	"	"	"	"	"
p-Isopropyltoluene	39.6	J		37.2	"	"	"	"	"
1,3-Dichlorobenzene	U	J		37.2	"	"	"	"	"
1,4-Dichlorobenzene	U			37.2	"	"	"	"	"
n-Butylbenzene	U			37.2	"	"	"	"	"
1,2-Dichlorobenzene	U			7.44	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		7.44	"	"	"	"	"
1,2,4-Trichlorobenzene	U			37.2	"	"	"	"	"
Hexachlorobutadiene	U			37.2	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	U			37.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Surrogate: Benzene-d6	12.5			*84.1 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	13.9			*93.5 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	18.9			*127 %*	*61-138*	"	"	"	

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		37.0	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		37.0	"	"	"	"	"
Vinyl chloride	U	J		37.0	"	"	"	"	"
Bromomethane	U	J		92.4	"	"	"	"	"
Chloroethane	U			37.0	"	"	"	"	"
Trichlorofluoromethane	U	J		37.0	"	"	"	"	"
Acrolein	U	J		92.4	"	"	"	"	"
1,1-Dichloroethene	U			18.5	"	"	"	"	"
Acetone	U	J		92.4	"	"	"	"	"
Carbon disulfide	U			18.5	"	"	"	"	"
Methylene chloride	U			18.5	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acrylonitrile	U	J		92.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
trans-1,2-Dichloroethene	U			18.5	"	"	"	"	"
1,1-Dichloroethane	U			18.5	"	"	"	"	"
2-Butanone	U	J		92.4	"	"	"	"	"
cis-1,2-Dichloroethene	U			18.5	"	"	"	"	"
2,2-Dichloropropane	U			18.5	"	"	"	"	"
Bromochloromethane	U			18.5	"	"	"	"	"
Chloroform	U			18.5	"	"	"	"	"
1,1,1-Trichloroethane	U			18.5	"	"	"	"	"
1,1-Dichloropropene	U			18.5	"	"	"	"	"
Carbon tetrachloride	U			18.5	"	"	"	"	"
1,2-Dichloroethane	U			18.5	"	"	"	"	"
Benzene	U			18.5	"	"	"	"	"
Trichloroethene	U			18.5	"	"	"	"	"
1,2-Dichloropropane	U			18.5	"	"	"	"	"
Dibromomethane	U			18.5	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional L boratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	U			18.5	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
cis-1,3-Dichloropropene	U			18.5	"	"	"	"	"
4-Methyl-2-pentanone	U	J		37 0	"	"	"	"	"
Toluene	U			18.5	"	"	"	"	"
trans-1,3-Dichloropropene	U			18.5	"	"	"	"	"
1,1,2-Trichloroethane	U			18.5	"	"	"	"	"
1,3-Dichloropropane	U			18.5	"	"	"	"	"
Tetrachloroethene	U			18.5	"	"	"	"	"
2-Hexanone	U	J		37.0	"	"	"	"	"
Dibromochloromethane	U			18.5	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			18.5	"	"	"	"	"
Chlorobenzene	U			18.5	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			18.5	"	"	"	"	"
Ethylbenzene	U			18.5	"	"	"	"	"
m+p-Xylene	U	J		185	"	"	"	"	"
o-Xylene	U	J		92.4	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U	J		18.5	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Bromoform	U			18.5	"	"	"	"	"
Isopropylbenzene	U			18.5	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			18.5	"	"	"	"	"
1,2,3-Trichloropropane	U			18.5	"	"	"	"	"
Bromobenzene	U			92.4	"	"	"	"	"
n-Propylbenzene	U			18.5	"	"	"	"	"
2-Chlorotoluene	U	J		92.4	"	"	"	"	"
4-Chlorotoluene	U			92.4	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		92.4	"	"	"	"	"
tert-Butylbenzene	U	J		92.4	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		92.4	"	"	"	"	"
sec-Butylbenzene	U	J		92.4	"	"	"	"	"
p-Isopropyltoluene	U	J		92.4	"	"	"	"	"
1,3-Dichlorobenzene	U	J		92.4	"	"	"	"	"
1,4-Dichlorobenzene	U			92.4	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
n-Butylbenzene	U			92.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,2-Dichlorobenzene	U			18.5	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		18.5	"	"	"	"	"
1,2,4-Trichlorobenzene	U			92.4	"	"	"	"	"
Hexachlorobutadiene	U			92.4	"	"	"	"	"
1,2,3-Trichlorobenzene	U			92.4	"	"	"	"	"
Surrogate: Benzene-d6	30.7			*83.2 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	35.3			*95.4 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	37.5			*101 %*	*61-138*	"	"	"	

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		29.9	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		29.9	"	"	"	"	"
Vinyl chloride	U	J		29.9	"	"	"	"	"
Bromomethane	U	J		74.7	"	"	"	"	"
Chloroethane	U			29.9	"	"	"	"	"
Trichlorofluoromethane	U	J		29.9	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acrolein	U	J		74.7	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,1-Dichloroethene	U			14.9	"	"	"	"	"
Acetone	U	J		74.7	"	"	"	"	"
Carbon disulfide	U			14.9	"	"	"	"	"
Methylene chloride	U			14.9	"	"	"	"	"
Acrylonitrile	U	J		74.7	"	"	"	"	"
trans-1,2-Dichloroethene	U			14.9	"	"	"	"	"
1,1-Dichloroethane	U			14.9	"	"	"	"	"
2-Butanone	U	J		74.7	"	"	"	"	"
cis-1,2-Dichloroethene	U			14.9	"	"	"	"	"
2,2-Dichloropropane	U			14.9	"	"	"	"	"
Bromochloromethane	U			14.9	"	"	"	"	"
Chloroform	U			14.9	"	"	"	"	"
1,1,1-Trichloroethane	U			14.9	"	"	"	"	"
1,1-Dichloropropene	U			14 9	"	"	"	"	"
Carbon tetrachloride	U			14.9	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloroethane	U			14.9	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Benzene	U			14.9	"	"	"	"	"
Trichloroethene	U			14.9	"	"	"	"	"
1,2-Dichloropropane	U			14.9	"	"	"	"	"
Dibromomethane	U			14.9	"	"	"	"	"
Bromodichloromethane	U			14.9	"	"	"	"	"
cis-1,3-Dichloropropene	U			14.9	"	"	"	"	"
4-Methyl-2-pentanone	U	J		29.9	"	"	"	"	"
Toluene	U			14.9	"	"	"	"	"
trans-1,3-Dichloropropene	U			14.9	"	"	"	"	"
1,1,2-Trichloroethane	U			14.9	"	"	"	"	"
1,3-Dichloropropane	U			14.9	"	"	"	"	"
Tetrachloroethene	U			14.9	"	"	"	"	"
2-Hexanone	U	J		29.9	"	"	"	"	"
Dibromochloromethane	U			14.9	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			14.9	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	U			14 9	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,1,1,2-Tetrachloroethane	U			14.9	"	"	"	"	"
Ethylbenzene	U			14.9	"	"	"	"	"
m+p-Xylene	U	J		149	"	"	"	"	"
o-Xylene	U	J		74.7	"	"	"	"	"
Styrene	U	J		14.9	"	"	"	"	"
Bromoform	U			14.9	"	"	"	"	"
Isopropylbenzene	U			14.9	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			14.9	"	"	"	"	"
1,2,3-Trichloropropane	U			14.9	"	"	"	"	"
Bromobenzene	U			74.7	"	"	"	"	"
n-Propylbenzene	U			14.9	"	"	"	"	"
2-Chlorotoluene	U	J		74.7	"	"	"	"	"
4-Chlorotoluene	U			74.7	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		74.7	"	"	"	"	"
tert-Butylbenzene	U	J		74.7	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	U	J		74.7	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
sec-Butylbenzene	U	J		74.7	"	"	"	"	"
p-Isopropyltoluene	U	J		74.7	"	"	"	"	"
1,3-Dichlorobenzene	U	J		74.7	"	"	"	"	"
1,4-Dichlorobenzene	U			74.7	"	"	"	"	"
n-Butylbenzene	U			74.7	"	"	"	"	"
1,2-Dichlorobenzene	U			14.9	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		14.9	"	"	"	"	"
1,2,4-Trichlorobenzene	U			74.7	"	"	"	"	"
Hexachlorobutadiene	U			74.7	"	"	"	"	"
1,2,3-Trichlorobenzene	U			74.7	"	"	"	"	"

Surrogate: Benzene-d6	25.4	*85.2 %*	*58.9-108*	"	"	"
Surrogate: Toluene-d8	28.8	*96.6 %*	*75.2-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	29.9	*100 %*	*61-138*	"	"	"

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		23.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloromethane	U	J		23.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Vinyl chloride	U	J		23.2	"	"	"	"	"
Bromomethane	U	J		57.9	"	"	"	"	"
Chloroethane	U			23.2	"	"	"	"	"
Trichlorofluoromethane	U	J		23.2	"	"	"	"	"
Acrolein	U	J		57.9	"	"	"	"	"
1,1-Dichloroethene	U			11.6	"	"	"	"	"
Acetone	U	J		57.9	"	"	"	"	"
Carbon disulfide	U			11.6	"	"	"	"	"
Methylene chloride	U			11.6	"	"	"	"	"
Acrylonitrile	U	J		57.9	"	"	"	"	"
trans-1,2-Dichloroethene	U			11.6	"	"	"	"	"
1,1-Dichloroethane	U			11 6	"	"	"	"	"
2-Butanone	U	J		57.9	"	"	"	"	"
cis-1,2-Dichloroethene	U			11.6	"	"	"	"	"
2,2-Dichloropropane	U			11.6	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	U			11.6	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloroform	U			11.6	"	"	"	"	"
1,1,1-Trichloroethane	U			11.6	"	"	"	"	"
1,1-Dichloropropene	U			11.6	"	"	"	"	"
Carbon tetrachloride	U			11.6	"	"	"	"	"
1,2-Dichloroethane	U			11 6	"	"	"	"	"
Benzene	U			11.6	"	"	"	"	"
Trichloroethene	U			11.6	"	"	"	"	"
1,2-Dichloropropane	U			11.6	"	"	"	"	"
Dibromomethane	U			11 6	"	"	"	"	"
Bromodichloromethane	U			11.6	"	"	"	"	"
cis-1,3-Dichloropropene	U			11.6	"	"	"	"	"
4-Methyl-2-pentanone	U	J		23.2	"	"	"	"	"
Toluene	U			11.6	"	"	"	"	"
trans-1,3-Dichloropropene	U			11.6	"	"	"	"	"
1,1,2-Trichloroethane	U			11 6	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichloropropane	U			11.6	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Tetrachloroethene	U			11.6	"	"	"	"	"
2-Hexanone	U	J		23.2	"	"	"	"	"
Dibromochloromethane	U			11.6	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			11.6	"	"	"	"	"
Chlorobenzene	U			11 6	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			11.6	"	"	"	"	"
Ethylbenzene	U			11.6	"	"	"	"	"
m+p-Xylene	U	J		116	"	"	"	"	"
o-Xylene	U	J		57.9	"	"	"	"	"
Styrene	U	J		11.6	"	"	"	"	"
Bromoform	U			11.6	"	"	"	"	"
Isopropylbenzene	13.0			11.6	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			11.6	"	"	"	"	"
1,2,3-Trichloropropane	U			11.6	"	"	"	"	"
Bromobenzene	U			57.9	"	"	"	"	"
n-Propylbenzene	U			11.6	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
2-Chlorotoluene	U	J		57.9	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
4-Chlorotoluene	U			57.9	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		57.9	"	"	"	"	"
tert-Butylbenzene	U	J		57.9	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		57.9	"	"	"	"	"
sec-Butylbenzene	U	J		57.9	"	"	"	"	"
p-Isopropyltoluene	**60.1**	J		57.9	"	"	"	"	"
1,3-Dichlorobenzene	U	J		57.9	"	"	"	"	"
1,4-Dichlorobenzene	U			57.9	"	"	"	"	"
n-Butylbenzene	U			57.9	"	"	"	"	"
1,2-Dichlorobenzene	U			11.6	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		11.6	"	"	"	"	"
1,2,4-Trichlorobenzene	U			57.9	"	"	"	"	"
Hexachlorobutadiene	U			57.9	"	"	"	"	"
1,2,3-Trichlorobenzene	U			57.9	"	"	"	"	"
Surrogate: Benzene-d6	19.9			*85.8 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	21.8			*94 3 %*	*75.2-115*	"	"	"	

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: 4-Bromofluorobenzene	30.2			*130 %*		*61-138*	*B909019*	*Sep-16-09*	*Sep-16-09*

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		16.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		16.2	"	"	"	"	"
Vinyl chloride	U	J		16.2	"	"	"	"	"
Bromomethane	U	J		40.4	"	"	"	"	"
Chloroethane	U			16.2	"	"	"	"	"
Trichlorofluoromethane	U	J		16.2	"	"	"	"	"
Acrolein	U	J		40.4	"	"	"	"	"
1,1-Dichloroethene	U			8.08	"	"	"	"	"
Acetone	U	J		40.4	"	"	"	"	"
Carbon disulfide	U			8.08	"	"	"	"	"
Methylene chloride	U			8.08	"	"	"	"	"
Acrylonitrile	U	J		40.4	"	"	"	"	"
trans-1,2-Dichloroethene	U			8.08	"	"	"	"	"
1,1-Dichloroethane	U			8.08	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
2-Butanone	U	J		40.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
cis-1,2-Dichloroethene	U			8 08	"	"	"	"	"
2,2-Dichloropropane	U			8.08	"	"	"	"	"
Bromochloromethane	U			8.08	"	"	"	"	"
Chloroform	U			8.08	"	"	"	"	"
1,1,1-Trichloroethane	U			8.08	"	"	"	"	"
1,1-Dichloropropene	U			8.08	"	"	"	"	"
Carbon tetrachloride	U			8.08	"	"	"	"	"
1,2-Dichloroethane	U			8.08	"	"	"	"	"
Benzene	U			8.08	"	"	"	"	"
Trichloroethene	U			8.08	"	"	"	"	"
1,2-Dichloropropane	U			8.08	"	"	"	"	"
Dibromomethane	U			8.08	"	"	"	"	"
Bromodichloromethane	U			8.08	"	"	"	"	"
cis-1,3-Dichloropropene	U			8.08	"	"	"	"	"
4-Methyl-2-pentanone	U	J		16.2	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	U			8.08	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
trans-1,3-Dichloropropene	U			8.08	"	"	"	"	"
1,1,2-Trichloroethane	U			8.08	"	"	"	"	"
1,3-Dichloropropane	U			8.08	"	"	"	"	"
Tetrachloroethene	U			8.08	"	"	"	"	"
2-Hexanone	U	J		16.2	"	"	"	"	"
Dibromochloromethane	U			8.08	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			8.08	"	"	"	"	"
Chlorobenzene	U			8.08	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			8.08	"	"	"	"	"
Ethylbenzene	U			8.08	"	"	"	"	"
m+p-Xylene	U	J		80 8	"	"	"	"	"
o-Xylene	U	J		40.4	"	"	"	"	"
Styrene	U	J		8.08	"	"	"	"	"
Bromoform	U			8.08	"	"	"	"	"
Isopropylbenzene	U			8.08	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	U			8 08	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,2,3-Trichloropropane	U			8.08	"	"	"	"	"
Bromobenzene	U			40.4	"	"	"	"	"
n-Propylbenzene	U			8.08	"	"	"	"	"
2-Chlorotoluene	U	J		40.4	"	"	"	"	"
4-Chlorotoluene	U			40.4	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		40.4	"	"	"	"	"
tert-Butylbenzene	U	J		40.4	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		40.4	"	"	"	"	"
sec-Butylbenzene	U	J		40.4	"	"	"	"	"
p-Isopropyltoluene	U	J		40.4	"	"	"	"	"
1,3-Dichlorobenzene	U	J		40.4	"	"	"	"	"
1,4-Dichlorobenzene	U			40.4	"	"	"	"	"
n-Butylbenzene	U			40.4	"	"	"	"	"
1,2-Dichlorobenzene	U			8.08	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		8.08	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trichlorobenzene	U			40.4	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Hexachlorobutadiene	U			40.4	"	"	"	"	"
1,2,3-Trichlorobenzene	U			40.4	"	"	"	"	"
Surrogate: Benzene-d6	13.6			*83.9 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	15.4			*95.5 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	16.3			*101 %*	*61-138*	"	"	"	

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		12.1	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		12.1	"	"	"	"	"
Vinyl chloride	U	J		12.1	"	"	"	"	"
Bromomethane	U	J		30.2	"	"	"	"	"
Chloroethane	U			12.1	"	"	"	"	"
Trichlorofluoromethane	U	J		12.1	"	"	"	"	"
Acrolein	U	J		30.2	"	"	"	"	"
1,1-Dichloroethene	U			6.03	"	"	"	"	"
Acetone	U	J		30.2	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon disulfide	U			6.03	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Methylene chloride	U			6.03	"	"	"	"	"
Acrylonitrile	U	J		30.2	"	"	"	"	"
trans-1,2-Dichloroethene	U			6.03	"	"	"	"	"
1,1-Dichloroethane	U			6.03	"	"	"	"	"
2-Butanone	U	J		30.2	"	"	"	"	"
cis-1,2-Dichloroethene	U			6.03	"	"	"	"	"
2,2-Dichloropropane	U			6.03	"	"	"	"	"
Bromochloromethane	U			6.03	"	"	"	"	"
Chloroform	U			6.03	"	"	"	"	"
1,1,1-Trichloroethane	U			6.03	"	"	"	"	"
1,1-Dichloropropene	U			6.03	"	"	"	"	"
Carbon tetrachloride	U			6.03	"	"	"	"	"
1,2-Dichloroethane	U			6 03	"	"	"	"	"
Benzene	U			6.03	"	"	"	"	"
Trichloroethene	U			6.03	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloropropane	U			6.03	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Dibromomethane	U			6.03	"	"	"	"	"
Bromodichloromethane	U			6.03	"	"	"	"	"
cis-1,3-Dichloropropene	U			6.03	"	"	"	"	"
4-Methyl-2-pentanone	U	J		12.1	"	"	"	"	"
Toluene	U			6.03	"	"	"	"	"
trans-1,3-Dichloropropene	U			6 03	"	"	"	"	"
1,1,2-Trichloroethane	U			6.03	"	"	"	"	"
1,3-Dichloropropane	U			6.03	"	"	"	"	"
Tetrachloroethene	U			6.03	"	"	"	"	"
2-Hexanone	U	J		12.1	"	"	"	"	"
Dibromochloromethane	U			6.03	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			6.03	"	"	"	"	"
Chlorobenzene	U			6.03	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			6.03	"	"	"	"	"
Ethylbenzene	**19.0**			6.03	"	"	"	"	"
m+p-Xylene	U	J		60.3	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional L boratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
o-Xylene	U	J		30.2	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Styrene	6.20	J		6.03	"	"	"	"	"
Bromoform	U			6.03	"	"	"	"	"
Isopropylbenzene	9.17			6.03	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			6.03	"	"	"	"	"
1,2,3-Trichloropropane	U	J		6 03	"	"	"	"	"
Bromobenzene	U			30.2	"	"	"	"	"
n-Propylbenzene	U			6.03	"	"	"	"	"
2-Chlorotoluene	U	J		30.2	"	"	"	"	"
4-Chlorotoluene	U			30.2	"	"	"	"	"
1,3,5-Trimethylbenzene	31.2	J		30.2	"	"	"	"	"
tert-Butylbenzene	U	J		30.2	"	"	"	"	"
1,2,4-Trimethylbenzene	57.5	J		30.2	"	"	"	"	"
sec-Butylbenzene	U	J		30.2	"	"	"	"	"
p-Isopropyltoluene	31.5	J		30.2	"	"	"	"	"
1,3-Dichlorobenzene	U	J		30.2	"	"	"	"	"
1,4-Dichlorobenzene	U			30.2	"	"	"	"	"
n-Butylbenzene	U			30.2	"	"	"	"	"
1,2-Dichlorobenzene	U			6.03	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromo-3-chloropropane	U	J		6.03	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,2,4-Trichlorobenzene	U			30.2	"	"	"	"	"
Hexachlorobutadiene	U			30.2	"	"	"	"	"
1,2,3-Trichlorobenzene	U			30.2	"	"	"	"	"
Surrogate: Benzene-d6	10.3			*85.7 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	11.2			*92.7 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.0			*124 %*	*61-138*	"	"	"	

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	J		14.3	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Chloromethane	U	J		14.3	"	"	"	"	"
Vinyl chloride	U	J		14.3	"	"	"	"	"
Bromomethane	U	J		35.8	"	"	"	"	"
Chloroethane	U			14.3	"	"	"	"	"
Trichlorofluoromethane	U	J		14.3	"	"	"	"	"
Acrolein	U	J		35.8	"	"	"	"	"
1,1-Dichloroethene	U			7.17	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		35.8	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
Carbon disulfide	U			7.17	"	"	"	"	"
Methylene chloride	U			7.17	"	"	"	"	"
Acrylonitrile	U	J		35.8	"	"	"	"	"
trans-1,2-Dichloroethene	U			7.17	"	"	"	"	"
1,1-Dichloroethane	U			7.17	"	"	"	"	"
2-Butanone	U	J		35.8	"	"	"	"	"
cis-1,2-Dichloroethene	U			7.17	"	"	"	"	"
2,2-Dichloropropane	U			7.17	"	"	"	"	"
Bromochloromethane	U			7.17	"	"	"	"	"
Chloroform	U			7.17	"	"	"	"	"
1,1,1-Trichloroethane	U			7.17	"	"	"	"	"
1,1-Dichloropropene	U			7.17	"	"	"	"	"
Carbon tetrachloride	U			7.17	"	"	"	"	"
1,2-Dichloroethane	U			7.17	"	"	"	"	"
Benzene	U			7.17	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B

US EPA Region 5 Chicago Regional Laboratory

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichloroethene	U			7.17	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,2-Dichloropropane	U			7.17	"	"	"	"	"
Dibromomethane	U			7.17	"	"	"	"	"
Bromodichloromethane	U			7.17	"	"	"	"	"
cis-1,3-Dichloropropene	U			7.17	"	"	"	"	"
4-Methyl-2-pentanone	U	J		14.3	"	"	"	"	"
Toluene	U			7.17	"	"	"	"	"
trans-1,3-Dichloropropene	U			7.17	"	"	"	"	"
1,1,2-Trichloroethane	U			7.17	"	"	"	"	"
1,3-Dichloropropane	U			7.17	"	"	"	"	"
Tetrachloroethene	U			7.17	"	"	"	"	"
2-Hexanone	U	J		14.3	"	"	"	"	"
Dibromochloromethane	U			7.17	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			7.17	"	"	"	"	"
Chlorobenzene	U			7.17	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			7.17	"	"	"	"	"
Ethylbenzene	10.4			7.17	"	"	"	"	"

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
m+p-Xylene	U	J		71.7	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
o-Xylene	U	J		35 8	"	"	"	"	"
Styrene	U	J		7.17	"	"	"	"	"
Bromoform	U			7.17	"	"	"	"	"
Isopropylbenzene	U			7.17	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			7.17	"	"	"	"	"
1,2,3-Trichloropropane	U			7.17	"	"	"	"	"
Bromobenzene	U			35.8	"	"	"	"	"
n-Propylbenzene	U			7.17	"	"	"	"	"
2-Chlorotoluene	U	J		35.8	"	"	"	"	"
4-Chlorotoluene	U			35.8	"	"	"	"	"
1,3,5-Trimethylbenzene	U	J		35.8	"	"	"	"	"
tert-Butylbenzene	U	J		35.8	"	"	"	"	"
1,2,4-Trimethylbenzene	U	J		35.8	"	"	"	"	"
sec-Butylbenzene	U	J		35.8	"	"	"	"	"
p-Isopropyltoluene	U	J		35.8	"	"	"	"	"

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B
US EPA Region 5 Chicago Regional Laboratory

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	U	J		35.8	ug/kg dry	1	B909019	Sep-16-09	Sep-16-09
1,4-Dichlorobenzene	U			35.8	"	"	"	"	"
n-Butylbenzene	U			35.8	"	"	"	"	"
1,2-Dichlorobenzene	U			7.17	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U	J		7.17	"	"	"	"	"
1,2,4-Trichlorobenzene	U			35.8	"	"	"	"	"
Hexachlorobutadiene	U			35.8	"	"	"	"	"
1,2,3-Trichlorobenzene	U			35.8	"	"	"	"	"
Surrogate: Benzene-d6	12.0			*83 5 %*	*58.9-108*	"	"	"	
Surrogate: Toluene-d8	13.7			*95 8 %*	*75.2-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	17.4			*122 %*	*61-138*	"	"	"	

Chi Tang

Chi Tang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Blank (B909019-BLK1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			10.0	ug/kg wet						
Chloromethane	U			10.0	"						
Vinyl chloride	U	J		10.0	"						
Bromomethane	U	J		25.0	"						
Chloroethane	U	J		10.0	"						
Trichlorofluoromethane	U			10.0	"						
Acrolein	U	J		25.0	"						
1,1-Dichloroethene	U	J		5.00	"						
Acetone	U	J		25.0	"						
Carbon disulfide	U	J		5.00	"						
Methylene chloride	U	J		5.00	"						
Acrylonitrile	U	J		25.0	"						
trans-1,2-Dichloroethene	U	J		5.00	"						
1,1-Dichloroethane	U	J		5.00	"						
2-Butanone	U	J		25.0	"						
cis-1,2-Dichloroethene	U	J		5.00	"						
2,2-Dichloropropane	U	J		5.00	"						
Bromochloromethane	U	J		5.00	"						
Chloroform	U	J		5.00	"						
1,1,1-Trichloroethane	U	J		5.00	"						
1,1-Dichloropropene	U	J		5.00	"						
Carbon tetrachloride	U	J		5.00	"						
1,2-Dichloroethane	U	J		5.00	"						
Benzene	U	J		5.00	"						
Trichloroethene	U	J		5.00	"						
1,2-Dichloropropane	U	J		5.00	"						
Dibromomethane	U	J		5.00	"						
Bromodichloromethane	U	J		5.00	"						
cis-1,3-Dichloropropene	U	J		5.00	"						
4-Methyl-2-pentanone	U	J		10.0	"						
Toluene	U	J		5.00	"						
trans-1,3-Dichloropropene	U	J		5.00	"						
1,1,2-Trichloroethane	U	J		5.00	"						

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Blank (B909019-BLK1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,3-Dichloropropane	U	J		5.00	ug/kg wet						
Tetrachloroethene	U	J		5.00	"						
2-Hexanone	U	J		10.0	"						
Dibromochloromethane	U	J		5.00	"						
1,2-Dibromoethane (EDB)	U	J		5.00	"						
Chlorobenzene	U	J		5.00	"						
1,1,1,2-Tetrachloroethane	U	J		5.00	"						
Ethylbenzene	U	J		5.00	"						
m+p-Xylene	U			10 0	"						
o-Xylene	U	J		5.00	"						
Styrene	U	J		5.00	"						
Bromoform	U	J		5.00	"						
Isopropylbenzene	U			5.00	"						
1,1,2,2-Tetrachloroethane	U	J		5.00	"						
1,2,3-Trichloropropane	U	J		5.00	"						
Bromobenzene	U	J		5.00	"						
n-Propylbenzene	U	J		5.00	"						
2-Chlorotoluene	U	J		5.00	"						
4-Chlorotoluene	U	J		5.00	"						
1,3,5-Trimethylbenzene	U	J		5.00	"						
tert-Butylbenzene	U	J		5.00	"						
1,2,4-Trimethylbenzene	U	J		5.00	"						
sec-Butylbenzene	U	J		5.00	"						
p-Isopropyltoluene	U	J		5.00	"						
1,3-Dichlorobenzene	U	J		5.00	"						
1,4-Dichlorobenzene	U	J		5.00	"						
n-Butylbenzene	U	J		5.00	"						
1,2-Dichlorobenzene	U	J		5.00	"						
1,2-Dibromo-3-chloropropane	U	J		5.00	"						
1,2,4-Trichlorobenzene	U	J		5.00	"						
Hexachlorobutadiene	U	J		5.00	"						
1,2,3-Trichlorobenzene	U	J		5.00	"						

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Blank (B909019-BLK1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*7.64*				*ug/kg wet*	*10.00*		*76.4*	*58.9-108*		
Surrogate Toluene-d8	*9.61*				*"*	*10.00*		*96.1*	*75.2-115*		
Surrogate: 4-Bromofluorobenzene	*11 2*				*"*	*10.00*		*112*	*61-138*		

Blank (B909019-BLK2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U	J		10.0	ug/kg wet						
Chloromethane	U	J		10 0	"						
Vinyl chloride	U	J		10.0	"						
Bromomethane	U	J		25.0	"						
Chloroethane	U			10.0	"						
Trichlorofluoromethane	U	J		10.0	"						
Acrolein	U	J		25.0	"						
1,1-Dichloroethene	U			5.00	"						
Acetone	U	J		25.0	"						
Carbon disulfide	U			5.00	"						
Methylene chloride	U			5.00	"						
Acrylonitrile	U	J		25.0	"						
trans-1,2-Dichloroethene	U			5.00	"						
1,1-Dichloroethane	U			5.00	"						
2-Butanone	U	J		25.0	"						
cis-1,2-Dichloroethene	U			5.00	"						
2,2-Dichloropropane	U			5.00	"						
Bromochloromethane	U			5.00	"						
Chloroform	U			5.00	"						
1,1,1-Trichloroethane	U			5.00	"						
1,1-Dichloropropene	U			5.00	"						

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Blank (B909019-BLK2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon tetrachloride	U			5.00	ug/kg wet						
1,2-Dichloroethane	U			5.00	"						
Benzene	U			5.00	"						
Trichloroethene	U			5.00	"						
1,2-Dichloropropane	U			5.00	"						
Dibromomethane	U			5.00	"						
Bromodichloromethane	U			5.00	"						
cis-1,3-Dichloropropene	U			5.00	"						
4-Methyl-2-pentanone	U	J		10.0	"						
Toluene	U			5.00	"						
trans-1,3-Dichloropropene	U			5.00	"						
1,1,2-Trichloroethane	U			5.00	"						
1,3-Dichloropropane	U			5.00	"						
Tetrachloroethene	U			5.00	"						
2-Hexanone	U	J		10.0	"						
Dibromochloromethane	U			5.00	"						
1,2-Dibromoethane (EDB)	U			5.00	"						
Chlorobenzene	U			5.00	"						
1,1,1,2-Tetrachloroethane	U			5.00	"						
Ethylbenzene	U			5.00	"						
m+p-Xylene	U	J		50.0	"						
o-Xylene	U	J		25.0	"						
Styrene	U	J		5.00	"						
Bromoform	U			5.00	"						
Isopropylbenzene	U			5.00	"						
1,1,2,2-Tetrachloroethane	U			5.00	"						
1,2,3-Trichloropropane	U			5.00	"						
Bromobenzene	U			25.0	"						
n-Propylbenzene	U			5.00	"						
2-Chlorotoluene	U	J		25.0	"						
4-Chlorotoluene	U			25.0	"						
1,3,5-Trimethylbenzene	U	J		25.0	"						
tert-Butylbenzene	U	J		25.0	"						

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Blank (B909019-BLK2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	U	J		25.0	ug/kg wet						
sec-Butylbenzene	U	J		25.0	"						
p-Isopropyltoluene	U	J		25.0	"						
1,3-Dichlorobenzene	U	J		25.0	"						
1,4-Dichlorobenzene	U			25.0	"						
n-Butylbenzene	U			25.0	"						
1,2-Dichlorobenzene	U			5.00	"						
1,2-Dibromo-3-chloropropane	U	J		5.00	"						
1,2,4-Trichlorobenzene	U			25.0	"						
Hexachlorobutadiene	U			25.0	"						
1,2,3-Trichlorobenzene	U			25.0	"						
Surrogate: Benzene-d6	*8.45*				"	*10.00*		*84.5*	*58.9-108*		
Surrogate: Toluene-d8	*9.54*				"	*10.00*		*95.4*	*75.2-115*		
Surrogate: 4-Bromofluorobenzene	*11.5*				"	*10.00*		*115*	*61-138*		

LCS (B909019-BS1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**45.4**			10.0	ug/kg wet	50.00		90.9	53.1-132		
Chloromethane	**41.1**			10.0	"	50.00		82.1	44.7-124		
Vinyl chloride	**46.4**			10.0	"	50.00		92.7	30.7-145		
Bromomethane	**51.9**			25.0	"	50.00		104	18.1-143		
Chloroethane	**51.9**			10.0	"	50.00		104	-69-303		
Trichlorofluoromethane	**47.6**			10.0	"	50.00		95.2	57.2-127		
Acrolein	**284**			25.0	"	250.0		114	57.8-141		
1,1-Dichloroethene	**70.7**			5.00	"	50.00		141	39-156		
Acetone	**270**			25.0	"	250.0		108	67.5-131		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS (B909019-BS1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon disulfide	**65.4**			5.00	ug/kg wet	50.00		131	39.3-148		
Methylene chloride	**57.1**			5 00	"	50 00		114	64.2-135		
Acrylonitrile	**250**			25.0	"	250.0		100	69.9-132		
trans-1,2-Dichloroethene	**64.5**			5.00	"	50.00		129	48.4-145		
1,1-Dichloroethane	**64.6**			5.00	"	50.00		129	54.5-141		
2-Butanone	**260**			25.0	"	250.0		104	67.1-136		
cis-1,2-Dichloroethene	**63.9**			5.00	"	50.00		128	57.4-139		
2,2-Dichloropropane	**67.4**			5.00	"	50.00		135	2.99-167		
Bromochloromethane	**58.0**			5.00	"	50.00		116	65.7-133		
Chloroform	**64.8**			5.00	"	50.00		130	58.7-136		
1,1,1-Trichloroethane	**69.6**			5.00	"	50.00		139	40.6-147		
1,1-Dichloropropene	**69.4**			5.00	"	50.00		139	44.2-148		
Carbon tetrachloride	**73.2**			5.00	"	50.00		146	-12.2-197		
1,2-Dichloroethane	**58.2**			5.00	"	50.00		116	70.9-129		
Benzene	**66.6**			5.00	"	50.00		133	56.7-141		
Trichloroethene	**67.5**			5.00	"	50.00		135	51.2-143		
1,2-Dichloropropane	**63.7**			5.00	"	50.00		127	63.3-138		
Dibromomethane	**55.6**			5.00	"	50.00		111	72 5-132		
Bromodichloromethane	**63.4**			5.00	"	50.00		127	56.8-136		
cis-1,3-Dichloropropene	**60.9**			5.00	"	50.00		122	54.6-139		
4-Methyl-2-pentanone	**112**			10.0	"	100.0		112	71.6-134		
Toluene	**68.8**			5.00	"	50.00		138	56.9-142		
trans-1,3-Dichloropropene	**61.1**			5.00	"	50.00		122	45.5-142		
1,1,2-Trichloroethane	**61.4**			5.00	"	50.00		123	71.3-131		
1,3-Dichloropropane	**59.9**			5.00	"	50.00		120	71.1-130		
Tetrachloroethene	**71.8**			5.00	"	50.00		144	46.7-146		
2-Hexanone	**112**			10.0	"	100.0		112	66.3-135		
Dibromochloromethane	**63.5**			5.00	"	50.00		127	51-136		
1,2-Dibromoethane (EDB)	**58.1**			5.00	"	50 00		116	68.6-130		
Chlorobenzene	**60.2**			5.00	"	50.00		120	64.3-142		
1,1,1,2-Tetrachloroethane	**59.3**			5.00	"	50.00		119	49.3-148		
Ethylbenzene	**62.4**			5.00	"	50.00		125	56.9-150		
m+p-Xylene	**126**			10.0	"	100.0		126	61.6-149		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS (B909019-BS1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
o-Xylene	**61.1**			5.00	ug/kg wet	50.00		122	64.8-145		
Styrene	**57.0**			5.00	"	50.00		114	61.6-148		
Bromoform	**55.2**			5.00	"	50.00		110	44.4-142		
Isopropylbenzene	**64.9**			5.00	"	50.00		130	56.5-150		
1,1,2,2-Tetrachloroethane	**51.3**			5.00	"	50 00		103	75-136		
1,2,3-Trichloropropane	**49.9**			5.00	"	50.00		99.7	70.7-136		
Bromobenzene	**55.3**			5.00	"	50.00		111	65.4-140		
n-Propylbenzene	**61.2**			5.00	"	50.00		122	55.6-150		
2-Chlorotoluene	**60.7**			5.00	"	50.00		121	61.2-143		
4-Chlorotoluene	**62.3**			5.00	"	50.00		125	62.4-140		
1,3,5-Trimethylbenzene	**62.6**			5.00	"	50.00		125	57.9-149		
tert-Butylbenzene	**64.0**			5.00	"	50.00		128	57.6-148		
1,2,4-Trimethylbenzene	**61.9**			5.00	"	50.00		124	61.2-145		
sec-Butylbenzene	**63.8**			5.00	"	50 00		128	55.2-147		
p-Isopropyltoluene	**63.3**			5.00	"	50.00		127	55.7-146		
1,3-Dichlorobenzene	**58.1**			5 00	"	50.00		116	62.7-138		
1,4-Dichlorobenzene	**52.8**			5.00	"	50.00		106	63.6-134		
n-Butylbenzene	**65.3**			5.00	"	50.00		131	48.9-139		
1,2-Dichlorobenzene	**60.0**			5.00	"	50.00		120	66-127		
1,2-Dibromo-3-chloropropane	**52.0**			5 00	"	50.00		104	43.2-135		
1,2,4-Trichlorobenzene	**59.3**			5.00	"	50.00		119	56.1-122		
Hexachlorobutadiene	**64.7**			5.00	"	50.00		129	50.3-122		
1,2,3-Trichlorobenzene	**57.3**			5.00	"	50.00		115	59.2-114		
Surrogate Benzene-d6	*9.74*				"	*10 00*		*97.4*	*73.9-111*		
Surrogate: Toluene-d8	*9 96*				"	*10.00*		*99.6*	*75.2-115*		
Surrogate: 4-Bromofluorobenzene	*9.24*				"	*10.00*		*92.4*	*61-138*		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS (B909019-BS2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**52.2**	J		10.0	ug/kg wet	50.00		104	53.1-132		
Chloromethane	**43.9**	J		10.0	"	50.00		87.7	44.7-124		
Vinyl chloride	**50.4**	J		10.0	"	50.00		101	30.7-145		
Bromomethane	**71.8**	J		25.0	"	50.00		144	18.1-143		
Chloroethane	**61.5**			10.0	"	50.00		123	-69-303		
Trichlorofluoromethane	**56.8**	J		10.0	"	50.00		114	57.2-127		
Acrolein	**159**	J		25.0	"	250.0		63.6	57.8-141		
1,1-Dichloroethene	**40.6**			5.00	"	50.00		81.1	39-156		
Acetone	**153**	J		25.0	"	250.0		61.1	67.5-131		
Carbon disulfide	**40.1**			5.00	"	50.00		80.2	39.3-148		
Methylene chloride	**38.5**			5.00	"	50.00		76.9	64.2-135		
Acrylonitrile	**153**	J		25.0	"	250.0		61.3	69 9-132		
trans-1,2-Dichloroethene	**40.3**			5.00	"	50.00		80.5	48.4-145		
1,1-Dichloroethane	**39.9**			5.00	"	50.00		79.8	54.5-141		
2-Butanone	**158**	J		25.0	"	250.0		63.2	67.1-136		
cis-1,2-Dichloroethene	**40.4**			5.00	"	50.00		80.9	57.4-139		
2,2-Dichloropropane	**40.8**			5.00	"	50.00		81.7	2.99-167		
Bromochloromethane	**40.5**			5.00	"	50.00		81.0	65.7-133		
Chloroform	**41.0**			5.00	"	50.00		82.1	58.7-136		
1,1,1-Trichloroethane	**41.7**			5.00	"	50.00		83.3	40.6-147		
1,1-Dichloropropene	**40.4**			5.00	"	50.00		80.7	44.2-148		
Carbon tetrachloride	**43.8**			5.00	"	50.00		87.7	-12.2-197		
1,2-Dichloroethane	**38.3**			5.00	"	50.00		76.5	70.9-129		
Benzene	**40.6**			5.00	"	50.00		81.2	56.7-141		
Trichloroethene	**40.0**			5.00	"	50.00		80.0	51.2-143		
1,2-Dichloropropane	**41.3**			5.00	"	50.00		82.6	63.3-138		
Dibromomethane	**40.1**			5.00	"	50.00		80.3	72.5-132		
Bromodichloromethane	**42.1**			5.00	"	50.00		84.3	56.8-136		
cis-1,3-Dichloropropene	**43.9**			5.00	"	50.00		87.9	54.6-139		
4-Methyl-2-pentanone	**66.7**	J		10.0	"	100.0		66.7	71.6-134		
Toluene	**41.5**			5.00	"	50.00		83.0	56.9-142		
trans-1,3-Dichloropropene	**42.4**			5.00	"	50.00		84.8	45.5-142		
1,1,2-Trichloroethane	**39.6**			5.00	"	50.00		79.1	71.3-131		

Environmental Protection Agency Region 5
Chicago Regional L boratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS (B909019-BS2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,3-Dichloropropane	**40.7**			5.00	ug/kg wet	50.00		81.4	71.1-130		
Tetrachloroethene	**41.4**			5 00	"	50.00		82.7	46.7-146		
2-Hexanone	**59.4**	J		10.0	"	100 0		59.4	66.3-135		
Dibromochloromethane	**43.1**			5.00	"	50.00		86.1	51-136		
1,2-Dibromoethane (EDB)	**40.9**			5.00	"	50.00		81 8	68.6-130		
Chlorobenzene	**44.7**			5.00	"	50.00		89.3	64.3-142		
1,1,1,2-Tetrachloroethane	**45.7**			5.00	"	50.00		91.4	49.3-148		
Ethylbenzene	**45.3**			5.00	"	50.00		90.6	56.9-150		
m+p-Xylene	**107**	J		50.0	"	100.0		107	61.6-149		
o-Xylene	**52.1**	J		25.0	"	50.00		104	64.8-145		
Styrene	**43.4**	J		5.00	"	50.00		86.8	61.6-148		
Bromoform	**42.4**			5.00	"	50.00		84.8	44.4-142		
Isopropylbenzene	**46.6**			5.00	"	50.00		93.2	56.5-150		
1,1,2,2-Tetrachloroethane	**42.8**			5.00	"	50.00		85.6	75-136		
1,2,3-Trichloropropane	**39.4**			5.00	"	50 00		78.7	70 7-136		
Bromobenzene	**50.6**			25.0	"	50.00		101	65.4-140		
n-Propylbenzene	**47.6**			5.00	"	50.00		95.2	55.6-150		
2-Chlorotoluene	**52.3**	J		25.0	"	50.00		105	61.2-143		
4-Chlorotoluene	**53.8**			25.0	"	50.00		108	62.4-140		
1,3,5-Trimethylbenzene	**54.1**	J		25.0	"	50.00		108	57.9-149		
tert-Butylbenzene	**52.8**	J		25.0	"	50.00		106	57.6-148		
1,2,4-Trimethylbenzene	**53.7**	J		25.0	"	50.00		107	61.2-145		
sec-Butylbenzene	**54.2**	J		25.0	"	50.00		108	55.2-147		
p-Isopropyltoluene	**54.0**	J		25.0	"	50.00		108	55.7-146		
1,3-Dichlorobenzene	**53.1**	J		25.0	"	50.00		106	62.7-138		
1,4-Dichlorobenzene	**53.8**			25.0	"	50.00		108	63.6-134		
n-Butylbenzene	**49.5**			25.0	"	50.00		99.0	48.9-139		
1,2-Dichlorobenzene	**40.9**			5.00	"	50.00		81.7	66-127		
1,2-Dibromo-3-chloropropane	**32.9**	J		5.00	"	50.00		65.7	43.2-135		
1,2,4-Trichlorobenzene	**50.0**			25.0	"	50.00		99.9	56.1-122		
Hexachlorobutadiene	**45.8**			25.0	"	50.00		91.6	50.3-122		
1,2,3-Trichlorobenzene	**46.9**			25.0	"	50.00		93 8	59.2-114		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS (B909019-BS2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*9.14*				*ug/kg wet*	*10.00*		*91.4*	*73.9-111*		
Surrogate Toluene-d8	*9.88*				*"*	*10.00*		*98.8*	*75 2-115*		
Surrogate· 4-Bromofluorobenzene	*11.0*				*"*	*10.00*		*110*	*61-138*		

LCS Dup (B909019-BSD1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**47.2**			10.0	ug/kg wet	50.00		94.4	53.1-132	3.78	44.7
Chloromethane	**41.7**			10.0	"	50.00		83.3	44.7-124	1.41	45
Vinyl chloride	**45.7**			10.0	"	50.00		91.3	30.7-145	1.53	105
Bromomethane	**49.5**			25.0	"	50 00		99.0	18.1-143	4.71	54.7
Chloroethane	**58.5**			10.0	"	50.00		117	-69-303	11.9	73.7
Trichlorofluoromethane	**48.9**			10.0	"	50.00		97.7	57.2-127	2.66	47.3
Acrolein	**309**			25.0	"	250.0		124	57.8-141	8.54	56.7
1,1-Dichloroethene	**39.6**			5.00	"	50.00		79.1	39-156	56.5	64.3
Acetone	**331**			25.0	"	250.0		132	67.5-131	20.3	32.8
Carbon disulfide	**39.6**			5.00	"	50.00		79.2	39.3-148	49.2	64.3
Methylene chloride	**47.6**			5.00	"	50.00		95.2	64.2-135	18.1	38.1
Acrylonitrile	**319**			25.0	"	250.0		128	69.9-132	24.0	28.9
trans-1,2-Dichloroethene	**41.7**			5.00	"	50.00		83.4	48.4-145	42.8	57.7
1,1-Dichloroethane	**44.7**			5.00	"	50.00		89.4	54.5-141	36.4	51.5
2-Butanone	**330**			25 0	"	250.0		132	67.1-136	23.6	38.1
cis-1,2-Dichloroethene	**45.6**			5.00	"	50.00		91.3	57.4-139	33.3	45.9
2,2-Dichloropropane	**38.3**			5.00	"	50.00		76.6	2.99-167	55.1	121
Bromochloromethane	**53.9**			5.00	"	50.00		108	65.7-133	7.33	34.7
Chloroform	**46.9**			5.00	"	50.00		93.8	58.7-136	32.1	46.5
1,1,1-Trichloroethane	**38.7**			5.00	"	50.00		77.3	40.6-147	57.2	69
1,1-Dichloropropene	**37.9**			5.00	"	50.00		75.7	44.2-148	58.8	62.6

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS Dup (B909019-BSD1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon tetrachloride	**34.8**			5.00	ug/kg wet	50.00		69.5	-12.2-197	71.3	119
1,2-Dichloroethane	**56.9**			5.00	"	50.00		114	70.9-129	2.24	34.5
Benzene	**45.4**			5.00	"	50.00		90.7	56.7-141	38.0	50.2
Trichloroethene	**41.3**			5.00	"	50.00		82.7	51.2-143	48.1	56.7
1,2-Dichloropropane	**51.1**			5.00	"	50.00		102	63.3-138	22.0	43.4
Dibromomethane	**56.4**			5.00	"	50.00		113	72.5-132	1.37	32.2
Bromodichloromethane	**48.9**			5 00	"	50.00		97.8	56.8-136	25.8	53.1
cis-1,3-Dichloropropene	**52.0**			5.00	"	50.00		104	54.6-139	15.7	56.1
4-Methyl-2-pentanone	**133**			10.0	"	100.0		133	71.6-134	16.5	33.2
Toluene	**45.3**			5.00	"	50.00		90.6	56.9-142	41.2	52.4
trans-1,3-Dichloropropene	**57.5**			5.00	"	50.00		115	45.5-142	6.12	68.1
1,1,2-Trichloroethane	**58.0**			5.00	"	50.00		116	71.3-131	5.70	28.6
1,3-Dichloropropane	**60.0**			5.00	"	50.00		120	71.1-130	0.110	31.9
Tetrachloroethene	**37.6**			5.00	"	50.00		75 2	46.7-146	62.4	60.8
2-Hexanone	**134**			10.0	"	100.0		134	66.3-135	17.9	33.2
Dibromochloromethane	**55.9**			5.00	"	50.00		112	51-136	12.8	64.6
1,2-Dibromoethane (EDB)	**61.6**			5.00	"	50.00		123	68.6-130	5.87	32.9
Chlorobenzene	**43.3**			5.00	"	50.00		86.6	64.3-142	32.6	44.3
1,1,1,2-Tetrachloroethane	**45.8**			5.00	"	50.00		91.7	49.3-148	25.7	76
Ethylbenzene	**42.1**			5 00	"	50.00		84.1	56.9-150	38.9	54.5
m+p-Xylene	**85.0**			10.0	"	100.0		85.0	61.6-149	38.6	52.4
o-Xylene	**44.1**			5.00	"	50.00		88 3	64.8-145	32.2	47 6
Styrene	**44.0**			5.00	"	50.00		88.0	61.6-148	25.7	43.1
Bromoform	**55.4**			5.00	"	50.00		111	44.4-142	0.481	72.7
Isopropylbenzene	**40.9**			5.00	"	50.00		81.7	56.5-150	45.4	56 8
1,1,2,2-Tetrachloroethane	**58.1**			5.00	"	50.00		116	75-136	12.5	29
1,2,3-Trichloropropane	**59.4**			5.00	"	50.00		119	70.7-136	17 5	30.7
Bromobenzene	**44.0**			5.00	"	50.00		88.1	65.4-140	22.6	40.6
n-Propylbenzene	**37.7**			5.00	"	50.00		75.4	55.6-150	47.6	59.3
2-Chlorotoluene	**39.4**			5.00	"	50.00		78.9	61.2-143	42.4	51
4-Chlorotoluene	**39.4**			5.00	"	50.00		78.7	62.4-140	45.1	49.3
1,3,5-Trimethylbenzene	**40.2**			5.00	"	50.00		80.5	57.9-149	43.4	54.2
tert-Butylbenzene	**40.2**			5.00	"	50 00		80.4	57.6-148	45.6	55.6

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS Dup (B909019-BSD1) **Prepared & Analyzed: Sep-14-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	**41.5**			5.00	ug/kg wet	50.00		83.0	61.2-145	39.5	51.6
sec-Butylbenzene	**38.1**			5.00	"	50.00		76.1	55.2-147	50.5	58.8
p-Isopropyltoluene	**37.4**			5.00	"	50 00		74.8	55.7-146	51.5	59.5
1,3-Dichlorobenzene	**40.0**			5.00	"	50.00		80.0	62.7-138	36.9	46.8
1,4-Dichlorobenzene	**36.8**			5.00	"	50.00		73.6	63.6-134	35.8	43.4
n-Butylbenzene	**36.7**			5.00	"	50.00		73.4	48.9-139	56.1	64.3
1,2-Dichlorobenzene	**47.4**			5.00	"	50.00		94.8	66-127	23.5	39.8
1,2-Dibromo-3-chloropropane	**60.2**			5.00	"	50.00		120	43.2-135	14.6	48
1,2,4-Trichlorobenzene	**38.2**			5.00	"	50.00		76.3	56.1-122	43.4	44.8
Hexachlorobutadiene	**35.9**			5.00	"	50.00		71.9	50.3-122	57.1	58 9
1,2,3-Trichlorobenzene	**43.0**			5.00	"	50.00		85.9	59.2-114	28.6	42
Surrogate. Benzene-d6	*8.70*				"	*10.00*		*87.0*	*73.9-111*		
Surrogate: Toluene-d8	*10.0*				"	*10.00*		*100*	*75 2-115*		
Surrogate· 4-Bromofluorobenzene	*9.42*				"	*10.00*		*94.2*	*61-138*		

LCS Dup (B909019-BSD2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**25.0**	J		10.0	ug/kg wet	50.00		49 9	53.1-132	70.5	44.7
Chloromethane	**28.2**	J		10.0	"	50.00		56.3	44.7-124	43 6	45
Vinyl chloride	**31.0**	J		10.0	"	50.00		62.1	30.7-145	47.6	105
Bromomethane	**47.6**	J		25.0	"	50.00		95.3	18.1-143	40.4	54.7
Chloroethane	**40.0**			10 0	"	50.00		80.1	-69-303	42.3	73.7
Trichlorofluoromethane	**32.8**	J		10.0	"	50.00		65.6	57.2-127	53.5	47.3
Acrolein	**162**	J		25.0	"	250.0		65.0	57.8-141	2.09	56.7
1,1-Dichloroethene	**53.0**			5.00	"	50.00		106	39-156	26 6	64.3
Acetone	**156**	J		25.0	"	250.0		62.2	67.5-131	1.80	32.8

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS Dup (B909019-BSD2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon disulfide	**51.8**			5.00	ug/kg wet	50.00		104	39.3-148	25.4	64.3
Methylene chloride	**45.1**			5.00	"	50.00		90.2	64.2-135	15.9	38.1
Acrylonitrile	**160**	J		25.0	"	250.0		63.8	69.9-132	3.96	28.9
trans-1,2-Dichloroethene	**52.0**			5.00	"	50.00		104	48.4-145	25.4	57.7
1,1-Dichloroethane	**52.3**			5.00	"	50.00		105	54.5-141	26 8	51.5
2-Butanone	**165**	J		25.0	"	250.0		65.9	67.1-136	4.29	38.1
cis-1,2-Dichloroethene	**50.3**			5.00	"	50.00		101	57.4-139	21.8	45.9
2,2-Dichloropropane	**51.8**			5 00	"	50.00		104	2 99-167	23.6	121
Bromochloromethane	**46.1**			5.00	"	50.00		92.2	65.7-133	12.9	34.7
Chloroform	**51.0**			5.00	"	50.00		102	58 7-136	21.6	46.5
1,1,1-Trichloroethane	**51.8**			5.00	"	50.00		104	40.6-147	21.8	69
1,1-Dichloropropene	**53.8**			5.00	"	50.00		108	44.2-148	28.5	62.6
Carbon tetrachloride	**49.1**			5.00	"	50.00		98.2	-12.2-197	11.4	119
1,2-Dichloroethane	**45.5**			5.00	"	50.00		90.9	70.9-129	17.2	34.5
Benzene	**52.1**			5.00	"	50.00		104	56.7-141	24 8	50 2
Trichloroethene	**51.3**			5.00	"	50.00		103	51.2-143	24.9	56.7
1,2-Dichloropropane	**52.8**			5.00	"	50.00		106	63.3-138	24.4	43.4
Dibromomethane	**44.1**			5.00	"	50.00		88.2	72.5-132	9.38	32.2
Bromodichloromethane	**47.9**			5.00	"	50 00		95.8	56.8-136	12.8	53.1
cis-1,3-Dichloropropene	**52.1**			5.00	"	50.00		104	54.6-139	17.0	56.1
4-Methyl-2-pentanone	**74.1**	J		10.0	"	100.0		74.1	71.6-134	10.5	33.2
Toluene	**53.8**			5.00	"	50.00		108	56.9-142	25.9	52.4
trans-1,3-Dichloropropene	**50.1**			5.00	"	50.00		100	45.5-142	16.7	68.1
1,1,2-Trichloroethane	**44.7**			5.00	"	50.00		89.4	71.3-131	12.2	28.6
1,3-Dichloropropane	**48.1**			5.00	"	50.00		96.2	71.1-130	16.7	31.9
Tetrachloroethene	**53.4**			5.00	"	50.00		107	46.7-146	25.4	60.8
2-Hexanone	**72.2**	J		10.0	"	100.0		72.2	66.3-135	19.4	33.2
Dibromochloromethane	**45.2**			5.00	"	50.00		90.4	51-136	4.83	64 6
1,2-Dibromoethane (EDB)	**45.8**			5.00	"	50.00		91.6	68.6-130	11.3	32.9
Chlorobenzene	**54.2**			5.00	"	50.00		108	64.3-142	19.3	44 3
1,1,1,2-Tetrachloroethane	**50.6**			5.00	"	50.00		101	49.3-148	10.1	76
Ethylbenzene	**57.4**			5.00	"	50.00		115	56.9-150	23.5	54.5
m+p-Xylene	**131**	J		50.0	"	100.0		131	61.6-149	20.4	52.4

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

LCS Dup (B909019-BSD2) **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
o-Xylene	**62.8**	J		25.0	ug/kg wet	50.00		126	64.8-145	18.6	47.6
Styrene	**52.6**	J		5.00	"	50.00		105	61.6-148	19.2	43.1
Bromoform	**39.8**			5.00	"	50.00		79.7	44.4-142	6.21	72.7
Isopropylbenzene	**57.3**			5.00	"	50.00		115	56.5-150	20.5	56.8
1,1,2,2-Tetrachloroethane	**42.9**			5.00	"	50.00		85.8	75-136	0.313	29
1,2,3-Trichloropropane	**40.6**			5.00	"	50.00		81.2	70.7-136	3.03	30.7
Bromobenzene	**57.5**			25.0	"	50.00		115	65.4-140	12.7	40 6
n-Propylbenzene	**59.5**			5.00	"	50.00		119	55.6-150	22.2	59.3
2-Chlorotoluene	**62.8**	J		25.0	"	50.00		126	61.2-143	18.2	51
4-Chlorotoluene	**61.1**			25.0	"	50.00		122	62.4-140	12.7	49.3
1,3,5-Trimethylbenzene	**65.1**	J		25.0	"	50.00		130	57.9-149	18.5	54.2
tert-Butylbenzene	**63.6**	J		25.0	"	50.00		127	57.6-148	18.6	55.6
1,2,4-Trimethylbenzene	**65.1**	J		25.0	"	50.00		130	61.2-145	19.1	51.6
sec-Butylbenzene	**65.7**	J		25.0	"	50.00		131	55.2-147	19.2	58.8
p-Isopropyltoluene	**66.0**	J		25.0	"	50.00		132	55.7-146	20.0	59.5
1,3-Dichlorobenzene	**62.8**	J		25.0	"	50.00		126	62 7-138	16.7	46.8
1,4-Dichlorobenzene	**58.9**			25.0	"	50.00		118	63.6-134	9.07	43.4
n-Butylbenzene	**55.6**			25.0	"	50.00		111	48.9-139	11.6	64.3
1,2-Dichlorobenzene	**41.6**			5.00	"	50.00		83.2	66-127	1.75	39.8
1,2-Dibromo-3-chloropropane	**29.7**	J		5.00	"	50.00		59.4	43.2-135	10.2	48
1,2,4-Trichlorobenzene	**48.0**			25.0	"	50.00		95.9	56.1-122	4.06	44.8
Hexachlorobutadiene	**48.7**			25.0	"	50.00		97.3	50.3-122	6.09	58.9
1,2,3-Trichlorobenzene	**45.1**			25.0	"	50.00		90.2	59.2-114	3.97	42
Surrogate: Benzene-d6	*9.40*				"	*10.00*		*94.0*	*73.9-111*		
Surrogate: Toluene-d8	*10.1*				"	*10.00*		*101*	*75.2-115*		
Surrogate: 4-Bromofluorobenzene	*10.4*				"	*10.00*		*104*	*61-138*		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike (B909019-MS1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**82.2**	J		34 2	ug/kg dry	170.9	0 00	48.1	-29.5-230		
Chloromethane	**91.6**	J		34.2	"	170.9	U	53.6	14.8-180		
Vinyl chloride	**86.8**	J		34.2	"	170.9	U	50.8	13.3-151		
Bromomethane	**165**	J		85.5	"	170.9	U	96.5	-143-258		
Chloroethane	**118**			34.2	"	170.9	U	68.8	19.3-188		
Trichlorofluoromethane	**92.6**	J		34.2	"	170.9	0.00	54.2	-1.98-170		
Acrolein	**713**	J		85.5	"	854.7	U	83.4	-102-301		
1,1-Dichloroethene	**44.7**			17.1	"	170.9	U	26.2	20-157		
Acetone	**439**	J		85.5	"	854.7	21.6	48.8	17.1-171		
Carbon disulfide	**48.0**			17.1	"	170.9	U	28.1	-59.9-203		
Methylene chloride	**71.7**			17.1	"	170.9	U	42.0	-18.8-144		
Acrylonitrile	**408**	J		85.5	"	854.7	U	47.7	56.2-141		
trans-1,2-Dichloroethene	**53.7**			17.1	"	170.9	U	31.4	35.4-155		
1,1-Dichloroethane	**59.6**			17.1	"	170.9	U	34.9	41-151		
2-Butanone	**422**	J		85.5	"	854.7	U	49.3	31.4-223		
cis-1,2-Dichloroethene	**66.8**			17.1	"	170.9	U	39.1	38-146		
2,2-Dichloropropane	**52.9**			17.1	"	170.9	U	31.0	-194-530		
Bromochloromethane	**84.1**			17.1	"	170.9	U	49.2	66.4-119		
Chloroform	**68.8**			17.1	"	170.9	U	40.2	41-142		
1,1,1-Trichloroethane	**51.4**			17.1	"	170.9	U	30.0	14.5-179		
1,1-Dichloropropene	**46.5**			17.1	"	170.9	U	27.2	11.1-177		
Carbon tetrachloride	**48.2**			17.1	"	170.9	U	28.2	-242-553		
1,2-Dichloroethane	**82.6**			17.1	"	170.9	U	48.3	45.3-162		
Benzene	**62.0**			17.1	"	170.9	U	36.3	29.9-158		
Trichloroethene	**132**			17.1	"	170.9	U	77.0	-13.7-201		
1,2-Dichloropropane	**78.8**			17 1	"	170.9	U	46.1	33-156		
Dibromomethane	**92.4**			17.1	"	170.9	U	54.0	42.7-164		
Bromodichloromethane	**83.1**			17.1	"	170.9	U	48.6	22.2-164		
cis-1,3-Dichloropropene	**88.7**			17.1	"	170.9	U	51.9	15.5-172		
4-Methyl-2-pentanone	**171**	J		34.2	"	341.9	U	50.1	44.5-159		
Toluene	**63.6**			17.1	"	170.9	U	37 2	15.2-170		
trans-1,3-Dichloropropene	**91.2**			17.1	"	170.9	U	53.4	7 7-170		
1,1,2-Trichloroethane	**91.0**			17.1	"	170.9	U	53.2	44.6-136		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike (B909019-MS1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,3-Dichloropropane	**96.5**			17.1	ug/kg dry	170.9	U	56.4	41 1-147		
Tetrachloroethene	**54.1**			17.1	"	170.9	U	31.7	-5.13-177		
2-Hexanone	**158**	J		34.2	"	341.9	U	46.3	60.4-152		
Dibromochloromethane	**93.3**			17.1	"	170.9	U	54.6	0.423-168		
1,2-Dibromoethane (EDB)	**97.9**			17.1	"	170.9	U	57.3	35-144		
Chlorobenzene	**81.4**			17.1	"	170.9	U	47.6	65.8-134		
1,1,1,2-Tetrachloroethane	**89.8**			17.1	"	170.9	U	52.6	21.7-178		
Ethylbenzene	**69.9**			17.1	"	170.9	U	40.9	18.9-178		
m+p-Xylene	**171**	J		34.2	"	341.9	U	50.0	60.7-162		
o-Xylene	**90.8**	J		17.1	"	170.9	U	53.1	50.1-152		
Styrene	**82.0**	J		17.1	"	170.9	U	47.9	55.3-141		
Bromoform	**96.3**			17.1	"	170.9	U	56.4	26.6-148		
Isopropylbenzene	**66.6**			17.1	"	170.9	U	39.0	40-159		
1,1,2,2-Tetrachloroethane	**36.4**			17.1	"	170.9	U	21.3	21.9-168		
1,2,3-Trichloropropane	**101**			17.1	"	170.9	U	59.2	84.7-125		
Bromobenzene	**105**			17.1	"	170.9	U	61.3	53-131		
n-Propylbenzene	**63.5**			17.1	"	170.9	U	37.1	38 2-161		
2-Chlorotoluene	**87.4**	J		17.1	"	170 9	U	51 1	50.2-144		
4-Chlorotoluene	**95.7**			17.1	"	170.9	U	56.0	51.3-146		
1,3,5-Trimethylbenzene	**85.3**	J		17.1	"	170.9	U	49.9	17.8-174		
tert-Butylbenzene	**71.5**	J		17.1	"	170.9	U	41.8	29.8-163		
1,2,4-Trimethylbenzene	**92.2**	J		17.1	"	170.9	U	53.9	-8.54-200		
sec-Butylbenzene	**68.4**	J		17.1	"	170.9	U	40 0	28.1-164		
p-Isopropyltoluene	**74.0**	J		17.1	"	170.9	U	43.3	16.4-170		
1,3-Dichlorobenzene	**102**	J		17 1	"	170.9	U	59.6	39-139		
1,4-Dichlorobenzene	**113**			17.1	"	170.9	U	66.2	36.9-139		
n-Butylbenzene	**60.7**			17.1	"	170.9	U	35.5	30.4-163		
1,2-Dichlorobenzene	**85.8**			17.1	"	170.9	U	50.2	42.5-139		
1,2-Dibromo-3-chloropropane	**76.4**	J		17.1	"	170.9	U	44.7	24.5-163		
1,2,4-Trichlorobenzene	**97.9**			17.1	"	170.9	U	57.2	-15.8-161		
Hexachlorobutadiene	**45.4**			17.1	"	170.9	U	26.6	-16.4-171		
1,2,3-Trichlorobenzene	**97.7**			17.1	"	170.9	U	57.2	-29.6-168		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike (B909019-MS1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*29.4*				*ug/kg dry*	*34.19*		*86.0*	*76.5-116*		
Surrogate: Toluene-d8	*33.4*				*"*	*34.19*		*97.7*	*47.1-134*		
Surrogate: 4-Bromofluorobenzene	*38.8*				*"*	*34.19*		*114*	*55.3-141*		

Matrix Spike (B909019-MS2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**61.7**	J		14.5	ug/kg dry	72.36	0.00	85.3	-29.5-230		
Chloromethane	**56.3**	J		14.5	"	72.36	U	77.9	14.8-180		
Vinyl chloride	**72.5**	J		14.5	"	72.36	U	100	13.3-151		
Bromomethane	**93.9**	J		36.2	"	72.36	6.88	120	-143-258		
Chloroethane	**92.5**			14.5	"	72.36	U	128	19.3-188		
Trichlorofluoromethane	**78.5**	J		14.5	"	72.36	0.00	109	-1.98-170		
Acrolein	**114**	J		36.2	"	361.8	U	31.4	-102-301		
1,1-Dichloroethene	**45.0**			7.24	"	72.36	U	62.2	20-157		
Acetone	**221**	J		36.2	"	361.8	20.4	55.3	17.1-171		
Carbon disulfide	**45.7**			7.24	"	72.36	4.31	57.2	-59.9-203		
Methylene chloride	**44.1**			7.24	"	72.36	U	61.0	-18.8-144		
Acrylonitrile	**205**	J		36.2	"	361.8	U	56.6	56.2-141		
trans-1,2-Dichloroethene	**45.8**			7.24	"	72.36	U	63.2	35.4-155		
1,1-Dichloroethane	**46.4**			7.24	"	72.36	U	64.1	41-151		
2-Butanone	**209**	J		36.2	"	361.8	U	57.7	31.4-223		
cis-1,2-Dichloroethene	**48.0**			7.24	"	72.36	U	66.3	38-146		
2,2-Dichloropropane	**48.3**			7.24	"	72.36	U	66.8	-194-530		
Bromochloromethane	**48.5**			7.24	"	72.36	U	67.0	66.4-119		
Chloroform	**48.0**			7.24	"	72.36	U	66.4	41-142		
1,1,1-Trichloroethane	**47.0**			7.24	"	72.36	U	65.0	14.5-179		
1,1-Dichloropropene	**44.4**			7.24	"	72.36	U	61.4	11.1-177		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike (B909019-MS2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon tetrachloride	**38.3**			7.24	ug/kg dry	72.36	U	52.9	-242-553		
1,2-Dichloroethane	**48.6**			7.24	"	72.36	U	67.2	45.3-162		
Benzene	**50.4**			7.24	"	72.36	4.10	64.0	29.9-158		
Trichloroethene	**44.6**			7.24	"	72.36	U	61.6	-13.7-201		
1,2-Dichloropropane	**52.0**			7.24	"	72.36	U	71.8	33-156		
Dibromomethane	**49.1**			7.24	"	72.36	U	67.8	42.7-164		
Bromodichloromethane	**47.1**			7 24	"	72 36	U	65.1	22.2-164		
cis-1,3-Dichloropropene	**54.0**			7.24	"	72.36	U	74.6	15.5-172		
4-Methyl-2-pentanone	**91.8**	J		14.5	"	144.7	U	63.4	44.5-159		
Toluene	**51.4**			7.24	"	72.36	4.53	64.8	15.2-170		
trans-1,3-Dichloropropene	**53.2**			7.24	"	72.36	U	73.5	7.7-170		
1,1,2-Trichloroethane	**49.6**			7.24	"	72.36	U	68.6	44.6-136		
1,3-Dichloropropane	**50.8**			7.24	"	72.36	U	70.2	41.1-147		
Tetrachloroethene	**38.7**			7.24	"	72.36	U	53.5	-5.13-177		
2-Hexanone	**78.2**	J		14.5	"	144.7	U	54.0	60.4-152		
Dibromochloromethane	**47.5**			7.24	"	72.36	U	65.7	0.423-168		
1,2-Dibromoethane (EDB)	**49.5**			7.24	"	72.36	U	68.4	35-144		
Chlorobenzene	**63.6**			7.24	"	72.36	U	87.9	65.8-134		
1,1,1,2-Tetrachloroethane	**58.1**			7.24	"	72.36	U	80.2	21.7-178		
Ethylbenzene	**74.9**			7.24	"	72.36	19.0	77.2	18.9-178		
m+p-Xylene	**139**	J		14.5	"	144.7	U	96.1	60 7-162		
o-Xylene	**72.6**	J		7.24	"	72.36	8.03	89.2	50.1-152		
Styrene	**61.9**	J		7 24	"	72.36	6.20	77 0	55.3-141		
Bromoform	**51.6**			7.24	"	72.36	U	71.3	26.6-148		
Isopropylbenzene	**53.1**			7.24	"	72.36	9.17	60.7	40-159		
1,1,2,2-Tetrachloroethane	**70.3**			7.24	"	72.36	U	97.1	21.9-168		
1,2,3-Trichloropropane	**56.6**			7.24	"	72.36	U	78.3	84.7-125		
Bromobenzene	**63.7**			7.24	"	72.36	U	88.0	53-131		
n-Propylbenzene	**50.2**			7.24	"	72.36	5.95	61.1	38.2-161		
2-Chlorotoluene	**59.2**	J		7 24	"	72.36	5.18	74.7	50.2-144		
4-Chlorotoluene	**66.6**			7.24	"	72.36	3.47	87.3	51.3-146		
1,3,5-Trimethylbenzene	**75.9**	J		7.24	"	72 36	31 2	61.7	17.8-174		
tert-Butylbenzene	**42.9**	J		7.24	"	72.36	U	59.3	29.8-163		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike (B909019-MS2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	**104**	J		7.24	ug/kg dry	72.36	57.5	64.3	-8.54-200		
sec-Butylbenzene	**41.4**	J		7.24	"	72 36	U	57.2	28.1-164		
p-Isopropyltoluene	**66.7**	J		7.24	"	72.36	31.5	48.8	16.4-170		
1,3-Dichlorobenzene	**59.7**	J		7.24	"	72.36	U	82.5	39-139		
1,4-Dichlorobenzene	**51.1**			7.24	"	72.36	U	70.6	36.9-139		
n-Butylbenzene	**60.3**			7.24	"	72 36	U	83.3	30.4-163		
1,2-Dichlorobenzene	**53.4**			7.24	"	72.36	2.74	70.0	42.5-139		
1,2-Dibromo-3-chloropropane	**46.8**	J		7.24	"	72.36	U	64.7	24.5-163		
1,2,4-Trichlorobenzene	**31.4**			7.24	"	72.36	6.91	33.9	-15.8-161		
Hexachlorobutadiene	**32.8**			7 24	"	72.36	U	45.4	-16.4-171		
1,2,3-Trichlorobenzene	**32.6**			7.24	"	72 36	5.89	36.9	-29.6-168		
Surrogate: Benzene-d6	*12.9*				"	*14.47*		*89.0*	*76.5-116*		
Surrogate: Toluene-d8	*13.7*				"	*14.47*		*94.7*	*47.1-134*		
Surrogate: 4-Bromofluorobenzene	*16.5*				"	*14.47*		*114*	*55.3-141*		

Matrix Spike Dup (B909019-MSD1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**61.4**	J		33.7	ug/kg dry	168.5	0.00	36.4	-29.5-230	29.1	49.7
Chloromethane	**82.2**	J		33 7	"	168.5	U	48.8	14.8-180	10.8	43 7
Vinyl chloride	**64.0**	J		33.7	"	168.5	U	38.0	13.3-151	30.3	74.9
Bromomethane	**153**	J		84.3	"	168.5	U	90.8	-143-258	7.54	140
Chloroethane	**98.5**			33.7	"	168.5	U	58.5	19.3-188	17.6	49.6
Trichlorofluoromethane	**70.9**	J		33.7	"	168.5	0.00	42.1	-1.98-170	26.5	52.8
Acrolein	**848**	J		84.3	"	842.6	U	101	-102-301	17.3	121
1,1-Dichloroethene	**40.3**			16.9	"	168.5	U	23.9	20-157	10.3	138
Acetone	**510**	J		84.3	"	842.6	21.6	58.0	17.1-171	15.1	165

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike Dup (B909019-MSD1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Carbon disulfide	**45.0**			16.9	ug/kg dry	168.5	U	26.7	-59.9-203	6.49	110
Methylene chloride	**74.6**			16.9	"	168.5	U	44 3	-18.8-144	3.93	195
Acrylonitrile	**454**	J		84.3	"	842.6	U	53.9	56.2-141	10.7	156
trans-1,2-Dichloroethene	**49.2**			16.9	"	168.5	U	29.2	35.4-155	8.77	146
1,1-Dichloroethane	**56.2**			16.9	"	168.5	U	33.4	41-151	5.91	148
2-Butanone	**496**	J		84.3	"	842.6	U	58.9	31.4-223	16.3	167
cis-1,2-Dichloroethene	**66.3**			16.9	"	168.5	U	39 3	38-146	0.793	149
2,2-Dichloropropane	**47.4**			16.9	"	168.5	U	28.1	-194-530	10.9	171
Bromochloromethane	**89.1**			16.9	"	168.5	U	52.9	66.4-119	5.81	151
Chloroform	**68.8**			16.9	"	168.5	U	40.8	41-142	4.52E-2	140
1,1,1-Trichloroethane	**44.0**			16.9	"	168.5	U	26.1	14.5-179	15.4	123
1,1-Dichloropropene	**39.5**			16.9	"	168.5	U	23.4	11.1-177	16.3	128
Carbon tetrachloride	**40.7**			16.9	"	168.5	U	24.2	-242-553	16.8	145
1,2-Dichloroethane	**86.6**			16.9	"	168.5	U	51.4	45.3-162	4 68	147
Benzene	**60.3**			16.9	"	168.5	U	35.8	29.9-158	2.91	129
Trichloroethene	**166**			16.9	"	168.5	U	98.5	-13.7-201	23.0	115
1,2-Dichloropropane	**80.3**			16.9	"	168.5	U	47.7	33-156	1.95	127
Dibromomethane	**97.0**			16.9	"	168.5	U	57.6	42.7-164	4.92	142
Bromodichloromethane	**86.5**			16.9	"	168.5	U	51.4	22 2-164	4.01	115
cis-1,3-Dichloropropene	**93.7**			16.9	"	168.5	U	55.6	15.5-172	5.48	116
4-Methyl-2-pentanone	**196**	J		33.7	"	337.0	U	58.0	44.5-159	13.3	152
Toluene	**63.4**			16.9	"	168.5	U	37.6	15.2-170	0.345	96.3
trans-1,3-Dichloropropene	**99.8**			16.9	"	168.5	U	59.3	7.7-170	9.03	118
1,1,2-Trichloroethane	**96.3**			16.9	"	168.5	U	57.1	44.6-136	5.69	124
1,3-Dichloropropane	**102**			16.9	"	168.5	U	60.5	41.1-147	5.45	121
Tetrachloroethene	**49.2**			16.9	"	168.5	U	29.2	-5.13-177	9.49	77
2-Hexanone	**191**	J		33.7	"	337.0	U	56 6	60.4-152	18.7	149
Dibromochloromethane	**98.6**			16.9	"	168.5	U	58.5	0.423-168	5.53	94.1
1,2-Dibromoethane (EDB)	**104**			16.9	"	168.5	U	61.5	35-144	5.66	118
Chlorobenzene	**82.9**			16.9	"	168.5	U	49.2	65.8-134	1.93	111
1,1,1,2-Tetrachloroethane	**93.0**			16.9	"	168.5	U	55.2	21.7-178	3.41	104
Ethylbenzene	**69.9**			16.9	"	168.5	U	41.5	18.9-178	2.70E-2	96.6
m+p-Xylene	**173**	J		33.7	"	337.0	U	51.5	60.7-162	1.43	85.1

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike Dup (B909019-MSD1) **Source: 0909005-02** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
o-Xylene	**95.4**	J		16.9	ug/kg dry	168.5	U	56.6	50.1-152	4.98	76.5
Styrene	**87.0**	J		16.9	"	168.5	U	51 6	55.3-141	5.97	84.5
Bromoform	**102**			16.9	"	168.5	U	60.5	26 6-148	5.67	119
Isopropylbenzene	**62.0**			16.9	"	168 5	U	36.8	40-159	7.24	72.5
1,1,2,2-Tetrachloroethane	**6.01**			16.9	"	168.5	U	3.56	21.9-168	143	156
1,2,3-Trichloropropane	**111**			16.9	"	168.5	U	65.9	84.7-125	9.25	145
Bromobenzene	**111**			16.9	"	168.5	U	66.0	53-131	5.94	78.8
n-Propylbenzene	**64.2**			16.9	"	168.5	U	38 1	38.2-161	1.15	51.4
2-Chlorotoluene	**90.1**	J		16.9	"	168 5	U	53.5	50.2-144	3.00	49.9
4-Chlorotoluene	**97.4**			16.9	"	168.5	U	57.8	51.3-146	1.83	50.6
1,3,5-Trimethylbenzene	**87.6**	J		16.9	"	168.5	U	52.0	17.8-174	2.62	31.2
tert-Butylbenzene	**69.3**	J		16.9	"	168.5	U	41.1	29.8-163	3.10	31.7
1,2,4-Trimethylbenzene	**96.7**	J		16 9	"	168.5	U	57.4	-8.54-200	4.81	32
sec-Butylbenzene	**65.3**	J		16.9	"	168.5	U	38.7	28.1-164	4.65	33.6
p-Isopropyltoluene	**73.4**	J		16.9	"	168.5	U	43.6	16.4-170	0.855	31.8
1,3-Dichlorobenzene	**108**	J		16.9	"	168.5	U	63.8	39-139	5.38	45
1,4-Dichlorobenzene	**120**			16.9	"	168.5	U	71.0	36.9-139	5.57	44.9
n-Butylbenzene	**63.1**			16.9	"	168.5	U	37.4	30.4-163	3.77	39.9
1,2-Dichlorobenzene	**96.1**			16.9	"	168.5	U	57.0	42.5-139	11 4	76 6
1,2-Dibromo-3-chloropropane	**93.6**	J		16.9	"	168.5	U	55 5	24.5-163	20.2	157
1,2,4-Trichlorobenzene	**112**			16.9	"	168.5	U	66.6	-15.8-161	13.6	77
Hexachlorobutadiene	**41.0**			16.9	"	168.5	U	24.3	-16.4-171	10.2	85.3
1,2,3-Trichlorobenzene	**114**			16.9	"	168.5	U	67.6	-29.6-168	15 3	73 8

Surrogate: Benzene-d6	*29.0*	"	*33 70*	*85 9*	*76.5-116*
Surrogate: Toluene-d8	*33.2*	"	*33.70*	*98.5*	*47.1-134*
Surrogate: 4-Bromofluorobenzene	*38 7*	"	*33.70*	*115*	*55.3-141*

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike Dup (B909019-MSD2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**56.4**	J		14.8	ug/kg dry	74 03	0.00	76.2	-29.5-230	8.88	49.7
Chloromethane	**55.2**	J		14.8	"	74.03	U	74.6	14.8-180	2.01	43.7
Vinyl chloride	**61.7**	J		14.8	"	74.03	U	83.3	13.3-151	16.1	74.9
Bromomethane	**90.6**	J		37.0	"	74.03	6.88	113	-143-258	3.54	140
Chloroethane	**85.2**			14.8	"	74.03	U	115	19.3-188	8 21	49.6
Trichlorofluoromethane	**72.0**	J		14.8	"	74.03	0.00	97.2	-1.98-170	8.72	52.8
Acrolein	**107**	J		37.0	"	370.2	U	29.0	-102-301	5.86	121
1,1-Dichloroethene	**50.2**			7.40	"	74.03	U	67.8	20-157	11.0	138
Acetone	**213**	J		37.0	"	370.2	20.4	52.1	17.1-171	3.35	165
Carbon disulfide	**49.5**			7.40	"	74.03	4.31	61.0	-59.9-203	7.89	110
Methylene chloride	**46.8**			7.40	"	74.03	U	63.2	-18.8-144	5.89	195
Acrylonitrile	**201**	J		37.0	"	370.2	U	54.3	56.2-141	1.88	156
trans-1,2-Dichloroethene	**49.9**			7.40	"	74.03	U	67 4	35.4-155	8.66	146
1,1-Dichloroethane	**51.4**			7.40	"	74.03	U	69.5	41-151	10.4	148
2-Butanone	**214**	J		37.0	"	370.2	U	57.9	31.4-223	2.55	167
cis-1,2-Dichloroethene	**50.9**			7.40	"	74.03	U	68.8	38-146	5.98	149
2,2-Dichloropropane	**51.8**			7.40	"	74.03	U	70.0	-194-530	7.02	171
Bromochloromethane	**50.0**			7.40	"	74.03	U	67.6	66.4-119	3.05	151
Chloroform	**51.5**			7.40	"	74.03	U	69.5	41-142	6.90	140
1,1,1-Trichloroethane	**50.6**			7.40	"	74.03	U	68.4	14.5-179	7.34	123
1,1-Dichloropropene	**50.4**			7.40	"	74.03	U	68.1	11 1-177	12.7	128
Carbon tetrachloride	**38.8**			7.40	"	74.03	U	52.4	-242-553	1.48	145
1,2-Dichloroethane	**49.5**			7.40	"	74.03	U	66.9	45.3-162	1.91	147
Benzene	**53.5**			7.40	"	74.03	4.10	66.7	29.9-158	5.88	129
Trichloroethene	**49.3**			7.40	"	74.03	U	66.6	-13.7-201	10.1	115
1,2-Dichloropropane	**54.8**			7.40	"	74.03	U	74.0	33-156	5.27	127
Dibromomethane	**49.5**			7.40	"	74.03	U	66.8	42.7-164	0.739	142
Bromodichloromethane	**49.0**			7.40	"	74.03	U	66.2	22.2-164	3.99	115
cis-1,3-Dichloropropene	**55.7**			7.40	"	74.03	U	75.3	15.5-172	3.19	116
4-Methyl-2-pentanone	**92.6**	J		14.8	"	148.1	U	62.5	44 5-159	0.880	152
Toluene	**55.2**			7.40	"	74.03	4.53	68.5	15.2-170	7.14	96.3
trans-1,3-Dichloropropene	**54.2**			7.40	"	74.03	U	73.2	7.7-170	1.76	118
1,1,2-Trichloroethane	**51.5**			7.40	"	74.03	U	69.6	44.6-136	3 76	124

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike Dup (B909019-MSD2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,3-Dichloropropane	**52.1**			7.40	ug/kg dry	74.03	U	70.4	41.1-147	2.57	121
Tetrachloroethene	**46.7**			7.40	"	74.03	U	63.0	-5.13-177	18.6	77
2-Hexanone	**84.5**	J		14.8	"	148.1	U	57.1	60 4-152	7.77	149
Dibromochloromethane	**48.2**			7.40	"	74.03	U	65.1	0.423-168	1.40	94.1
1,2-Dibromoethane (EDB)	**51.4**			7.40	"	74.03	U	69.4	35-144	3.87	118
Chlorobenzene	**63.9**			7.40	"	74.03	U	86.4	65.8-134	0.486	111
1,1,1,2-Tetrachloroethane	**56.3**			7.40	"	74.03	U	76.0	21.7-178	3.13	104
Ethylbenzene	**71.6**			7.40	"	74.03	19.0	71.0	18.9-178	4.46	96 6
m+p-Xylene	**144**	J		14.8	"	148.1	U	97.5	60.7-162	3.70	85.1
o-Xylene	**72.1**	J		7.40	"	74.03	8.03	86.5	50.1-152	0.746	76.5
Styrene	**63.1**	J		7.40	"	74.03	6.20	76.9	55.3-141	1.92	84.5
Bromoform	**47.8**			7.40	"	74.03	U	64.5	26.6-148	7.67	119
Isopropylbenzene	**57.7**			7.40	"	74.03	9.17	65.5	40-159	8.31	72.5
1,1,2,2-Tetrachloroethane	**62.0**			7.40	"	74.03	U	83.8	21.9-168	12.5	156
1,2,3-Trichloropropane	**53.2**			7.40	"	74.03	U	71.8	84.7-125	6.32	145
Bromobenzene	**63.5**			7 40	"	74.03	U	85.7	53-131	0.284	78.8
n-Propylbenzene	**58.3**			7.40	"	74.03	5.95	70.8	38.2-161	15.0	51.4
2-Chlorotoluene	**65.8**	J		7.40	"	74 03	5 18	81.9	50.2-144	10.5	49.9
4-Chlorotoluene	**69.8**			7.40	"	74.03	3.47	89.6	51.3-146	4.62	50.6
1,3,5-Trimethylbenzene	**77.5**	J		7.40	"	74.03	31.2	62.5	17.8-174	2.06	31.2
tert-Butylbenzene	**53.6**	J		7.40	"	74.03	U	72.4	29.8-163	22.1	31.7
1,2,4-Trimethylbenzene	**97.3**	J		7.40	"	74 03	57.5	53.7	-8.54-200	6.68	32
sec-Butylbenzene	**53.4**	J		7.40	"	74.03	U	72.1	28.1-164	25.2	33.6
p-Isopropyltoluene	**72.2**	J		7.40	"	74.03	31.5	55.1	16.4-170	7.91	31.8
1,3-Dichlorobenzene	**67.2**	J		7.40	"	74.03	U	90.7	39-139	11.8	45
1,4-Dichlorobenzene	**57.5**			7.40	"	74.03	U	77.7	36.9-139	11.8	44 9
n-Butylbenzene	**58.4**			7.40	"	74.03	U	78.9	30.4-163	3.10	39.9
1,2-Dichlorobenzene	**50.4**			7.40	"	74 03	2.74	64.3	42.5-139	5.84	76.6
1,2-Dibromo-3-chloropropane	**41.1**	J		7.40	"	74.03	U	55.5	24.5-163	12.9	157
1,2,4-Trichlorobenzene	**38.0**			7.40	"	74.03	6.91	42.0	-15.8-161	18.9	77
Hexachlorobutadiene	**32.3**			7.40	"	74.03	U	43.6	-16.4-171	1.74	85.3
1,2,3-Trichlorobenzene	**34.7**			7.40	"	74.03	5 89	39.0	-29.6-168	6.28	73.8

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Volatiles by GC/MS, EPA 8260B - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B909019 - Volatiles

Matrix Spike Dup (B909019-MSD2) **Source: 0909014-04** **Prepared & Analyzed: Sep-16-09**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate. Benzene-d6	*13.0*				*ug/kg dry*	*14.81*		*87.8*	*76.5-116*		
Surrogate: Toluene-d8	*14 0*				*"*	*14.81*		*94.4*	*47.1-134*		
Surrogate· 4-Bromofluorobenzene	*16.0*				*"*	*14 81*		*108*	*55.3-141*		

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Dec-14-09 16:23

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 11/23/2009 3:43:40PM**

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Oct-20-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-03-09 10:48
Logged In By: Chi Tang Date Logged In: Sep-03-09 10:48

Samples Received at	5.6°C
Sample tags/labels	Yes
Seals Intact	Yes
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909005-01 T18-50-0.5-1.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-24-09 12:00	45	Sep-29-09 13:00	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-08-09 13:00	
Anions by IC	Oct-24-09 12:00	45	Sep-29-09 13:00	
Metals full ICP (S)	Oct-24-09 12:00	45	Feb-28-10 13:00	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-08-09 13:00	
Ammonia N DA	Oct-24-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-15-09 13:00	
0909005-02 T18-50-1.0-3.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Metals full ICP (S)	Oct-24-09 12:00	45	Feb-28-10 13:00	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-08-09 13:00	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-08-09 13:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-15-09 13:00	
Anions by IC	Oct-24-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-15-09 13:00	
Ammonia N DA	Oct-24-09 12:00	45	Sep-29-09 13:00	
Hg Total CVAA	Oct-24-09 12:00	45	Sep-29-09 13:00	

WORK ORDER

Printed: 11/23/2009 3:43:40PM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-03 T27-125-3.0-4.8 [Soil] Sampled Sep-01-09 14:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-08-09 13:50	
Anions by IC	Oct-24-09 12:00	45	Sep-29-09 13:50	
PCB by ASE	Oct-30-09 12:00	45	Sep-15-09 13:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Feb-28-10 13:50	
Ammonia N DA	Oct-24-09 12:00	45	Sep-29-09 13:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-15-09 13:50	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-08-09 13:50	
Hg Total CVAA	Oct-24-09 12:00	45	Sep-29-09 13:50	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-15-09 13:50	
0909005-04 T24-125-1.0-3.0 [Soil] Sampled Sep-02-09 09:05 Eastern				**Split Sample**
Anions by IC	Oct-24-09 12:00	45	Sep-30-09 08:05	
Hg Total CVAA	Oct-24-09 12:00	45	Sep-30-09 08:05	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-09-09 08:05	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-16-09 08:05	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-16-09 08:05	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-01-10 08:05	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-09-09 08:05	
Ammonia N DA	Oct-24-09 12:00	45	Sep-30-09 08:05	
PCB by ASE	Oct-30-09 12:00	45	Sep-16-09 08:05	
0909005-05 T26-125-1.0-3.0 [Soil] Sampled Sep-02-09 10:30 Eastern				**Split Sample**
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-01-10 09:30	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-09-09 09:30	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-16-09 09:30	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-09-09 09:30	
Anions by IC	Oct-24-09 12:00	45	Sep-30-09 09:30	
Hg Total CVAA	Oct-24-09 12:00	45	Sep-30-09 09:30	
PCB by ASE	Oct-30-09 12:00	45	Sep-16-09 09:30	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-16-09 09:30	
Ammonia N DA	Oct-24-09 12:00	45	Sep-30-09 09:30	

WORK ORDER

Printed: 11/23/2009 3:43:40PM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-06 T20-125-1.0-3.0 [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Ammonia N DA	Oct-24-09 12:00	45	Sep-30-09 13:45	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-16-09 13:45	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-01-10 13:45	
Hg Total CVAA	Oct-24-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-09-09 13:45	
Anions by IC	Oct-24-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-30-09 12:00	45	Sep-16-09 13:45	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-09-09 13:45	
0909005-07 T20-125-1.0-3.0 Duplicate [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Hg Total CVAA	Oct-24-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-30-09 12:00	45	Sep-16-09 13:45	
Ammonia N DA	Oct-24-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Oct-24-09 12:00	10	Sep-09-09 13:45	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-16-09 13:45	
Anions by IC	Oct-24-09 12:00	45	Sep-30-09 13:45	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-09-09 13:45	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-01-10 13:45	

Reviewed By

Date

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 11/23/2009 3:44:52PM**

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman
RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: (312) 353-6057
Fax: (312) 353-2001

Date Due: Oct-24-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-08-09 11:25
Logged In By: Chi Tang Date Logged In: Sep-08-09 11:45

Samples Received at	2.6°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909006-01 T27-150-1.0-3.0 [Soil] Sampled Sep-03-09 15:50 Eastern				**Split Sample**
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-10-09 14:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-17-09 14:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-17-09 14:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-02-10 14:50	
Anions by IC	Oct-24-09 12:00	45	Oct-01-09 14:50	
PCB by ASE	Oct-30-09 12:00	45	Sep-17-09 14:50	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-10-09 14:50	
0909006-02 T29-200-1.0-3.0 [Soil] Sampled Sep-04-09 10:20 Eastern				**Split Sample**
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 09:20	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-18-09 09:20	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 09:20	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 09:20	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 09:20	
PCB by ASE	Oct-30-09 12:00	45	Sep-18-09 09:20	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 09:20	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 09:20	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 09:20	

WORK ORDER

Printed: 11/23/2009 3:44:52PM

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909006-03 T30-150-1.0-3.0 [Soil] Sampled Sep-04-09 11:40 Eastern				**Split Sample**
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 10:40	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 10:40	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 10:40	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-18-09 10:40	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 10:40	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 10:40	
PCB by ASE	Oct-30-09 12:00	45	Sep-18-09 10:40	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 10:40	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 10:40	
0909006-04 T22-175-0.5-1.2 [Soil] Sampled Sep-04-09 13:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 12:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 12:50	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 12:50	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 12:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 12:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 12:50	
PCB by ASE	Oct-30-09 12:00	45	Sep-18-09 12:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 12:50	

Reviewed By

Date

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 11/23/2009 3:46:59PM**

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due:	Oct-30-09 15:00 (45 day TAT)		
Received By:	Chi Tang	Date Received:	Sep-14-09 10:00
Logged In By:	Chi Tang	Date Logged In:	Sep-14-09 11:58

Samples Received at	2.2°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909014-01 T16-125-0.0-0.6 [Soil] Sampled Sep-11-09 10:55 Eastern				**Split Sample**
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 09:55	2nd priority
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 09:55	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 09:55	6th priority
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 09:55	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 09:55	1st priority
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 09:55	5th priority
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 09:55	3rd pirority
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 09:55	
0909014-02 T23-150-1.0-3.0 [Soil] Sampled Sep-11-09 15:00 Eastern				**Split Sample**
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:00	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:00	

WORK ORDER

Printed: 11/23/2009 3:46:59PM

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909014-03 T23-150-5.0-6.2 [Soil] Sampled Sep-11-09 15:08 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:08	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:08	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:08	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:08	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:08	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:08	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:08	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:08	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:08	
0909014-04 T26-175-1.0-2.6 [Soil] Sampled Sep-11-09 17:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 16:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 16:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 16:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 16:00	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 16:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 16:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 16:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 16:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 16:00	
0909014-05 T26-175-0.5-1.0 [Soil] Sampled Sep-11-09 16:53 Eastern				**Split Sample**
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 15:53	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 15:53	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 15:53	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 15:53	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 15:53	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 15:53	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 15:53	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 15:53	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 15:53	

Reviewed By

Date

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 12/10/2009

Volatiles in SOIL extraction/analysis bench sheet

Analyst(s): Chi Yang

LCS/MS spiking solution(s) added by: C Tang & Solatek 12

Date/ time of preservation with $NaHSO_4$ (aq) (if applicable):

Date/ time of methanol addition (if applicable): N/A

Batch Number: B909019

Analyses Included On This Benchsheet

Volatiles Full List x

Surrogate 1: 9040601 Amount: 5uL

Sample Number	Source ID for duplicate or MS/MSD	LCS/MS Spike LIMS ID	LCS/MS Spike Amount (uL)	Weight of Sample (g)	mL of methanol added to soil (medium level only)	µL of methanol spiked into 5 mL water (medium level only)	Dil 1	Dil 2	Dil 3	Dil 4	Comments
0909014-05				4.6704							
0909014-04				5.5618							
0909014-03				5.1826							
0909014-02				4.7521							
0909005-07				5.1404							
0909005-06				5.5836							
0909005-05				4.1604							
0909005-04				4.6824							
0909005-03				4.1195							
0909005-02				4.3468							
0909006-03				5.6954							
0909006-02				4.5395							
0909006-01				5.8986							
B909019-BLK1	-			5							
B909019-BSD1	-	9091501	10	5							
B909019-BS2	-	9091501	10	5							

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 12/10/2009

Volatiles in SOIL extraction/analysis bench sheet

Analyst(s): C Tang

LCS/MS spiking solution(s) added by: C Tang ~~SH Sio~~

Date/ time of preservation with $NaHSO_4$ (aq) (if applicable): N/A

Date/ time of methanol addition (if applicable): N/A

Batch Number: B909019
Analyses Included On This Benchsheet

Volatiles Full List x

Surrogate 1: 9040601 Amount: 5uL

Sample Number	Source ID for duplicate or MS/MSD	LCS/MS Spike LIMS ID	LCS/MS Spike Amount (uL)	Weight of Sample (g)	mL of methanol added to soil (medium level only)	µL of methanol spiked into 5 mL water (medium level only)	Dil 1	Dil 2	Dil 3	Dil 4	Comments
B909019-MS2	0909014-04	9091501	10	4.6376							
B909019-BSD2	-	9091501	10	5							
B909019-MSD1	0909005-02	9091501	10	4.1325							
B909019-MSD2	0909014-04	9091501	10	4.5326							
B909019-BLK2	-			5							
B909019-MS1	0909005-02	9091501	10	4.0736							
B909019-BS1	-	9091501	10	5							

* After all dilutions.

Solvents used: Methanol ( ) Other (list):

Solvent lot number:

Reagents used: $NaHSO_4$ solid ( ) 0.2 g/mL $NaHSO_4$ in water ( ) Other (list):

Reagent LIMS IDs or manufacturer / part # /lot # (NOTE: LIMS ID required for all prepared solutions):

Batch Comments:

Comments:

Sequence Name: D:\Ctang\GCMS4 090914.S
Comment: 0909005 BASF Wyandotte
Operator: CTANG
Data Path: D:\CTANG\DATA\GCMS4_090914\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1) BFB	1		
Datafile		GCMS4 09091401BFB	
Method		GCMS4_090914	
2) Calibration	2		
Datafile		GCMS4 09091402IC3	Not used
Method		GCMS4_090914	
3) Calibration	3		
Datafile		GCMS4 09091403IC6	, IC at 1,000 NG
Method		GCMS4_090914	
4) Calibration	4		
Datafile		GCMS4 09091404IC5	, IC at 750 NG
Method		GCMS4_090914	
5) Calibration	5		
Datafile		GCMS4 09091405IC4	, IC at 500 NG
Method		GCMS4_090914	
6) Calibration	6		
Datafile		GCMS4 09091406IC2	, IC at 125 NG
Method		GCMS4_090914	
7) Calibration	7		
Datafile		GCMS4 09091407IC1	not used
Method		GCMS4_090914	
8) Sample	8		
Datafile		GCMS4 09091408ICC	Not used
Method		GCMS4_090914	
9) Sample	9		
Datafile		GCMS4 09091409BLK	Not used
Method		GCMS4_090914	
10) Calibration	10		
Datafile		GCMS4 09091410IC3	. S 909019-BS1 (IC at 250 NG)
Method		GCMS4_090914	
11) Calibration	11		
Datafile		GCMS4 09091411IC4	, not used
Method		GCMS4_090914	
12) Sample	12		
Datafile		GCMS4 09091412BLK	, not used
Method		GCMS4_090914	
13) Calibration	13		
Datafile		GCMS4 09091413IC1	, IC at 25 NG
Method		GCMS4_090914	
14) Sample	14		
Datafile		GCMS4 09091414BLK	, B909019-BLK1
Method		GCMS4_090914	
15) Sample	15		
Datafile		GCMS4 09091415	, 0909005-03 (T27-125-3.0-4.8), 4.1195 g
Method		GCMS4_090914	
16) Sample	16		
Datafile		GCMS4 09091416	, IC Check
Method		GCMS4_090914	
17) Sample	17		
Datafile		GCMS4 09091417	, 0909005-04 (T24-125-1.0-3.0), 4.6824 g
Method		GCMS4_090914	
18) Sample	18		
Datafile		GCMS4 09091418	, 0909005-05 (T26-125-1.0-3.0), 4.1640 g
Method		GCMS4_090914	
19) Sample	19		
Datafile		GCMS4 09091419	, 0909005-02 (T18-50-1.0-3.0), 4.3468 g
Method		GCMS4_090914	

20) Sample 20
Datafile GCMS4 09091420BSD , B909019-BSD1
Method GCMS4_090914

CMG 12/2/09

4C091491.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	1	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091492.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	2	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	3	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	4	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
4	5	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
5	6	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
6	7	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
7	8	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
8	9	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091492.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	2	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	3	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	4	SOIL5 msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
4	5	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
5	6	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
6	7	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
7	8	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
8	9	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091493.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	10	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	11	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	12	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
4	13	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091494.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	14	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	15	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1 1
3	16	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
4	17	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
5	18	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1.1
6	19	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
7	20	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

B909019-BLK1

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, SAS No.: _____ SDG No.: MS001

Lab File ID: GCMS4_09091 Lab Sample ID: B909019-BLK1

Date Analyzed: 9/14/2009 Time Analyzed: 16:35

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS 4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	T27-125-3.0-4.8	0909005-03	GCMS4_090914	16:56
02	IC CHECK AT 250 N	IC CHECK AT 250 NG	GCMS4_090914	17:16
03	T24-125-1.0-3.0	0909005-04	GCMS4_090914	17:36
04	T26-125-1.0-3.0	0909005-05	GCMS4_090914	17:56
05	T18-50-1.0-3.0	0909005-02	GCMS4_090914	18:17
06	CCC AT 250 NG	B909019-BSD1	GCMS4_090914	18:37

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909014 SAS No.: SDG No.: MS001

Lab File ID: GCMS4_09091 BFB Injection Date: 9/14/2009

Instrument ID: GCMS 4 BFB Injection Time: 10:22

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.8
75	30.0 - 66.0% of mass 95	44.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.9
175	4.0 - 9.0% of mass 174	5.5 (6.8)1
176	93.0 - 101.0% of mass 174	79.1 (97.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC AT 1,000 NG	IC AT 1,000 NG	GCMS4_09091	9/14/2009	11:52
02	IC AT 750 NG	IC AT 750 NG	GCMS4_09091	9/14/2009	12:12
03	IC AT 500 NG	IC AT 500 NG	GCMS4_09091	9/14/2009	12:32
04	IC AT 125 NG	IC AT 125 NG	GCMS4_09091	9/14/2009	12:52
05	IC AT 250 NG	B909019-BS1	GCMS4_09091	9/14/2009	15:03
06	IC AT 25 NG	IC AT 25 NG	GCMS4_09091	9/14/2009	16:04
07	B909019-BLK1	B909019-BLK1	GCMS4_09091	9/14/2009	16:35
08	T27-125-3.0-4.8	0909005-03	GCMS4_09091	9/14/2009	16:56
09	IC CHECK AT 250	IC CHECK AT 250 NG	GCMS4_09091	9/14/2009	17:16
10	T24-125-1.0-3.0	0909005-04	GCMS4_09091	9/14/2009	17:36
11	T26-125-1.0-3.0	0909005-05	GCMS4_09091	9/14/2009	17:56
12	T18-50-1.0-3.0	0909005-02	GCMS4_09091	9/14/2009	18:17
13	CCC AT 250 NG	B909019-BSD1	GCMS4_09091	9/14/2009	18:37

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, -0ESAS No.: SDG No.: MS001

Lab File ID (Standard): GCMS4_0909141 Date Analyzed: 9/14/2009

Instrument ID: GCMS 4 Time Analyzed: 15:03

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2461393	4.15	1298829	5.80	947027	7.04
	UPPER LIMIT	4922786	4.65	2597658	6.30	1894054	7.54
	LOWER LIMIT	1230697	3.65	649415	5.30	473514	6.54
	EPA SAMPLE NO.						
01	B909019-BLK	2413098	4.15	1012713	5.81	888808	7.04
02	T27-125-3.0-4.	2241936	4.15	824301	5.81	550627	7.04
03	IC CHECK AT	2429484	4.15	1115322	5.80	1022136	7.04
04	T24-125-1.0-3.	2373722	4.15	921991	5.81	575324	7.04
05	T26-125-1.0-3.	2407137	4.15	895654	5.81	548411	7.04
06	T18-50-1.0-3.0	2371364	4.15	912969	5.81	783586	7.04
07	CCC AT 250 N	2468692	4.15	1212792	5.80	867425	7.04

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

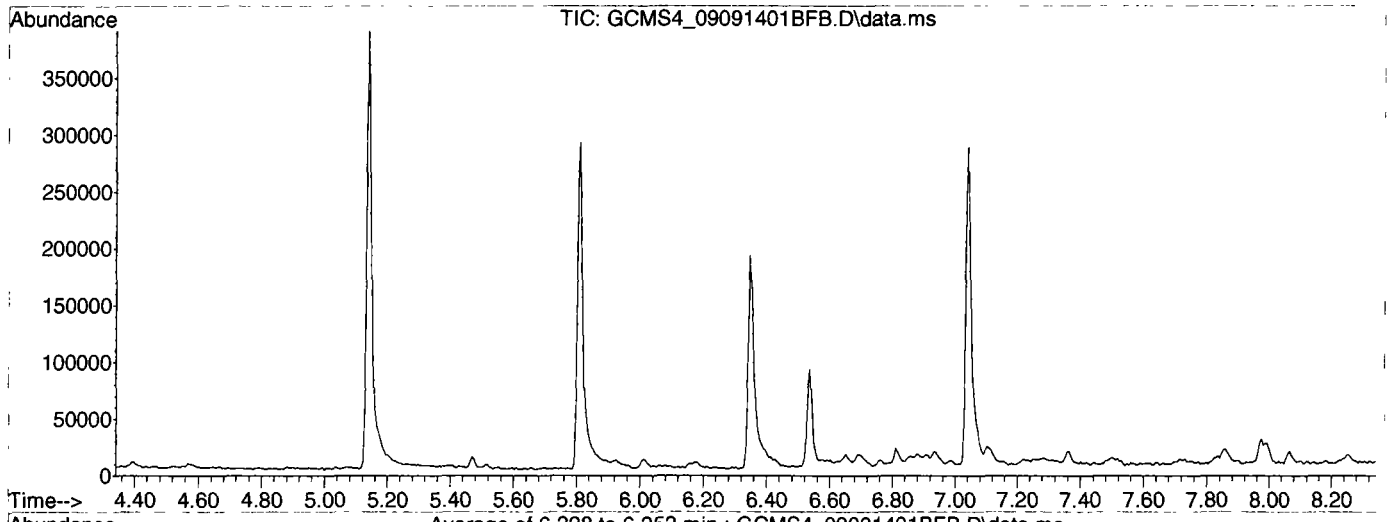
Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

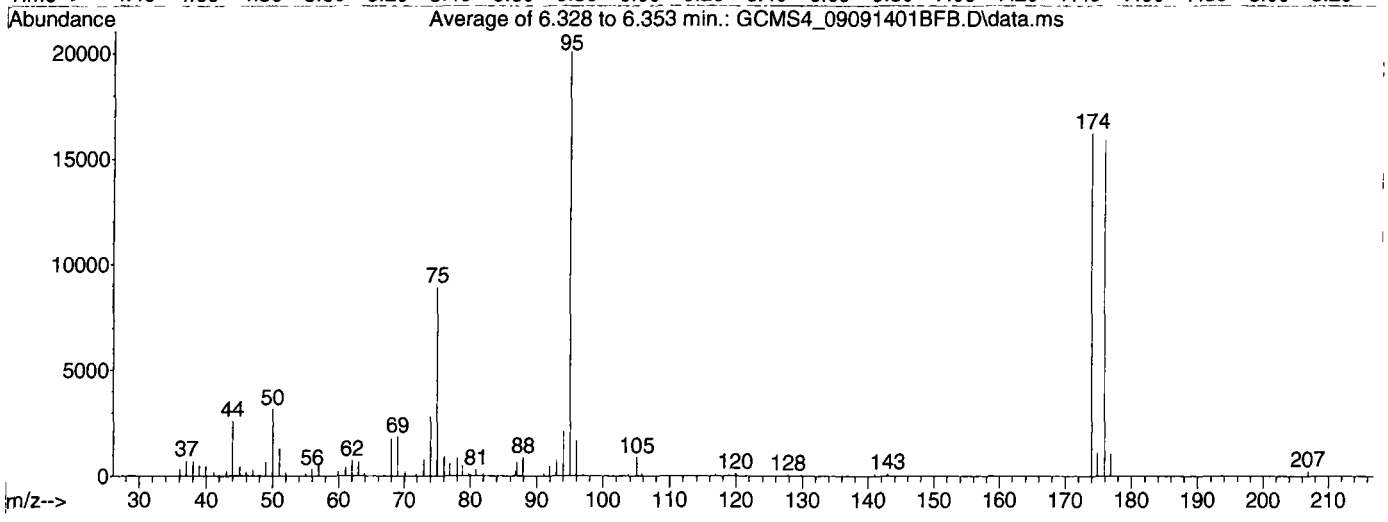
BFB

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091401BFB.D
Acq On : 14 Sep 2009 10:22
Operator : CTANG
Sample : BFB
Misc : LIMS # 9040601
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : D:\CTANG\METHODS\GCMS4_090819.M
Title :
Last Update : Wed Aug 19 13:52:13 2009





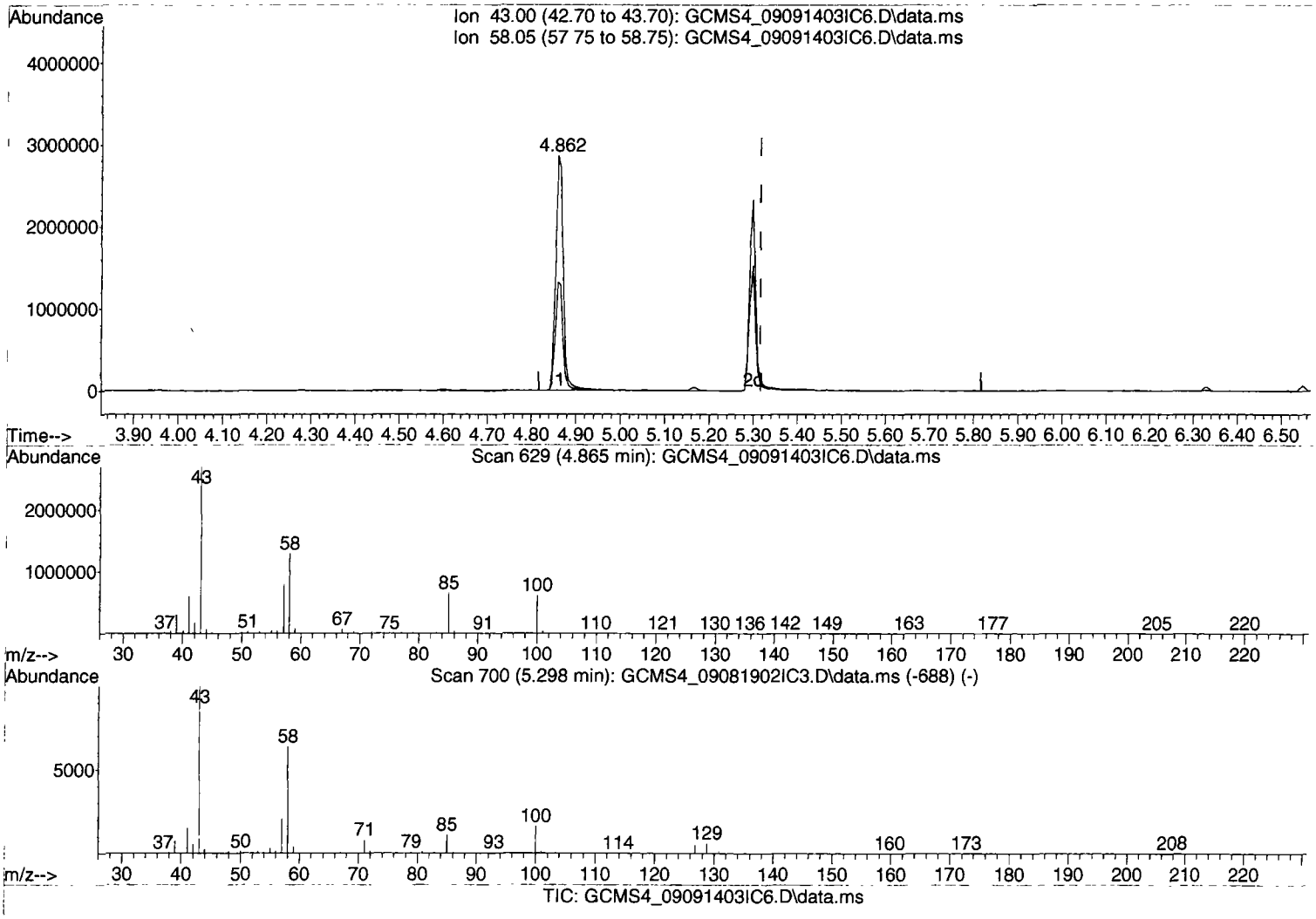
Spectrum Information: Average of 6.328 to 6.353 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	3166	PASS
75	95	30	60	44.6	8944	PASS
95	95	100	100	100.0	20061	PASS
96	95	5	9	8.3	1664	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.9	16223	PASS
175	174	5	9	6.8	1101	PASS
176	174	95	101	97.9	15878	PASS
177	176	5	9	6.5	1036	PASS

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091403IC6.D
Acq On : 14 Sep 2009 11:52
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 12:01:24 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.452) 3173.28ng

response 33824654

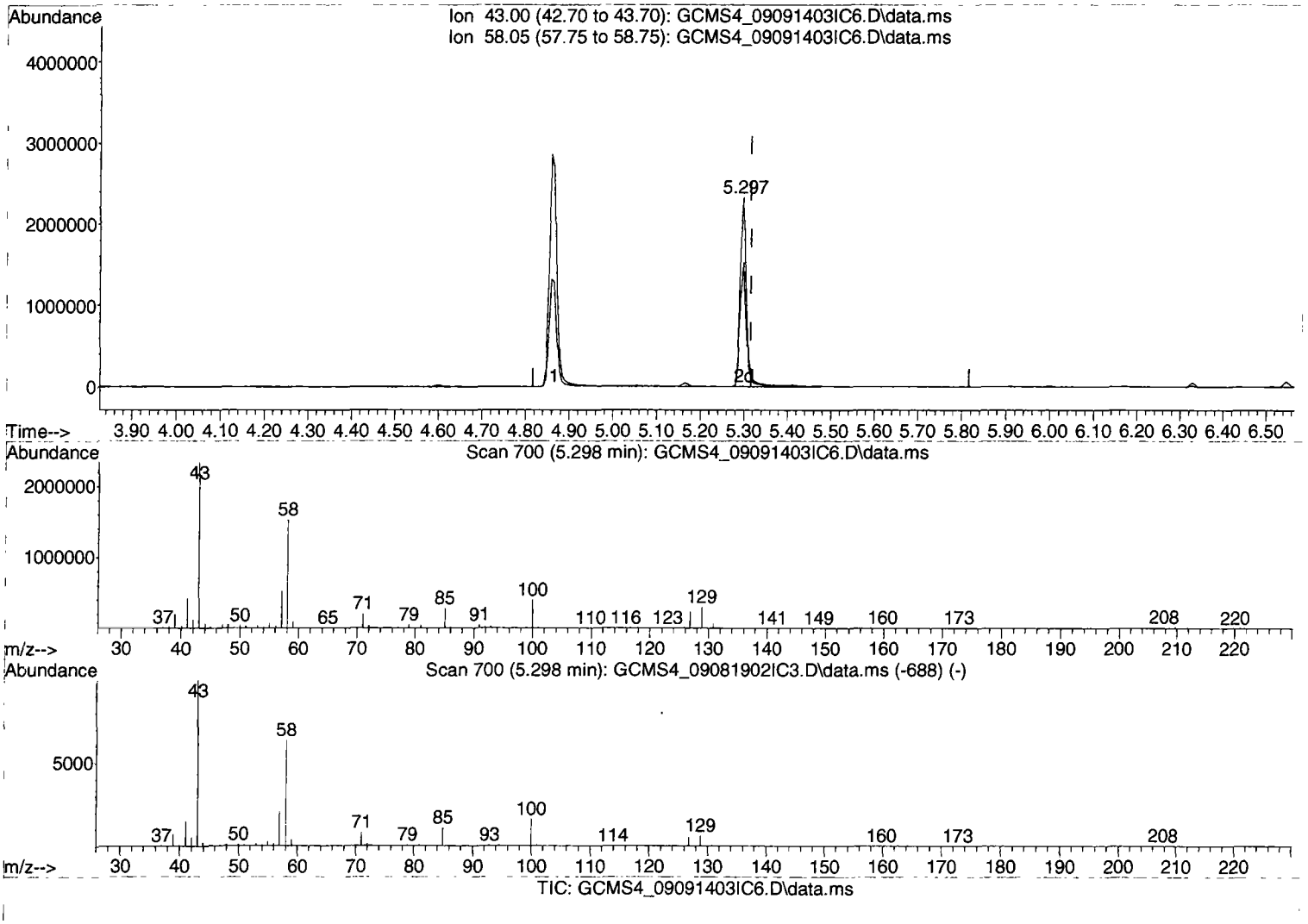
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	46.47
0.00	0.00	0.00
0.00	0.00	0.00

begne P
CMY 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091403IC6.D
Acq On : 14 Sep 2009 11:52
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 12:01:24 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.018) 2310.62ng m

response 24629349

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	63.82#
0.00	0.00	0.00
0.00	0.00	0.00

aptc
emy 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091403IC6.D
Acq On : 14 Sep 2009 11:52
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 14:12:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.144	96	2685124	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.804	82	1136783	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	1003488	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.970	84	3895524	68.47 ng		0.00
34) TOLUENE-D8	5.135	98	2615448	48.69 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	921902	49.90 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.079	85	6808164	551.63 ng		98
3) Chloromethane	1.145	50	14582079	712.29 ng		96
4) Vinyl chloride	1.203	62	1352910	152.69 ng		97
5) Bromomethane	1.353	94	2686434	309.59 ng		99
6) Chloroethane	1.408	64	4331604	451.13 ng		97
7) Trichlorofluoromethane	1.647	101	13905921	814.00 ng		100
8) Acrolein	1.650	56	3458391	4177.51 ng		93
9) 1,1-Dichloroethene	1.901	96	13341538	939.65 ng		90
10) Acetone	1.711	43	23832677	5246.00 ng		88
11) Carbon disulfide	2.087	76	38553850	1434.15 ng		98
12) Methylene chloride	1.983	84	18505297	1066.21 ng		79
13) Acrylonitrile	1.944	53	32167704	5092.63 ng		99
14) trans-1,2-Dichloroethene	2.383	96	16292142	1132.83 ng		88
15) 1,1-Dichloroethane	2.555	63	26950596	1130.78 ng	#	95
16) 2-Butanone	2.932	43	39839383	6610.83 ng	#	66
17) cis-1,2-Dichloroethene	3.020	96	18971621	1116.17 ng		88
18) 2,2-Dichloropropane	3.252	77	13581578	1525.91 ng		99
19) Bromochloromethane	3.149	128	9007211	1158.62 ng		99
20) Chloroform	3.200	83	26896154	1159.50 ng		94
21) 1,1,1-Trichloroethane	3.734	97	17074439	1530.87 ng		94
22) 1,1-Dichloropropene	3.867	75	20488289	1133.67 ng		97
23) Carbon tetrachloride	3.965	117	10021114	6877.33 ng		90
25) 1,2-Dichloroethane	3.677	62	16775072	1431.50 ng		98
26) Benzene	3.999	78	66107021	1073.15 ng		98
27) Trichloroethene	4.390	130	17945440	1099.11 ng		95
28) 1,2-Dichloropropane	4.362	63	14674550	1164.64 ng		99
29) Dibromomethane	4.335	174	9416595	1253.83 ng		97
30) Bromodichloromethane	4.414	83	15749408	1959.45 ng		95
32) cis-1,3-Dichloropropene	4.781	75	16439256	2221.99 ng		97
33) 4-Methyl-2-pentanone	4.864	43	33819701	2311.74 ng	#	91
35) Toluene	5.169	91	66458170	988.96 ng		100
36) trans-1,3-Dichloropropene	5.011	75	15293695	2182.62 ng		96
37) 1,1,2-Trichloroethane	5.078	97	13455068	1133.51 ng		96
38) 1,3-Dichloropropane	5.197	76	22087575	1317.46 ng		92
39) Tetrachloroethene	5.511	166	18407922	1039.83 ng		97
40) 2-Hexanone	5.298	43	24629349m	2310.62 ng		
41) Dibromochloromethane	5.311	129	11550777	2037.98 ng		97
42) 1,2-Dibromoethane	5.423	107	11643911	1049.46 ng		95
44) Chlorobenzene	5.818	112	46374082	1194.34 ng		93
45) 1,1,1,2-Tetrachloroethane	5.787	131	16407380	2001.91 ng		93
46) Ethylbenzene	5.915	91	71671087	1126.08 ng		94
47) m- &/or p-Xylene	6.003	91	98106899	2038.42 ng		92
48) o-Xylene	6.173	91	56388305	1110.22 ng		94
49) Styrene	6.143	104	50866250	1193.34 ng		93
50) Bromoform	6.034	173	10978538	2063.94 ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091403IC6.D
Acq On : 14 Sep 2009 11:52
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 14:12:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

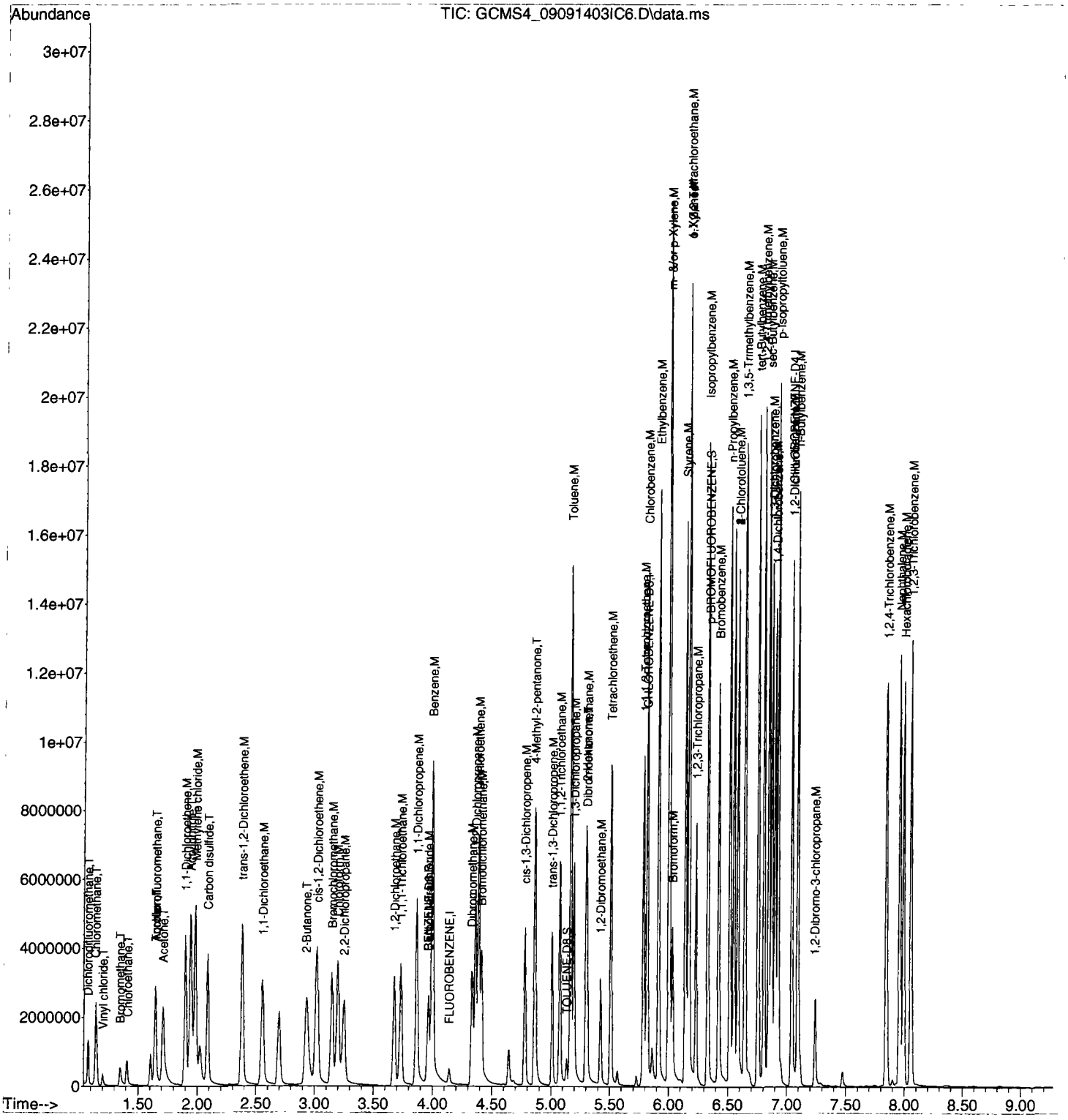
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	68142182	1155.44 ng	90
53) 1,1,2,2-Tetrachloroethane	6.172	83	17394896	1171.21 ng	98
54) 1,2,3-Trichloropropane	6.232	75	16804803	1258.14 ng	95
55) Bromobenzene	6.425	156	21317700	1216.22 ng	91
56) n-Propylbenzene	6.517	91	108562216	1626.88 ng	89
57) 2-Chlorotoluene	6.585	91	54650753	1220.80 ng	91
58) 4-Chlorotoluene	6.585	91	54345039	1199.90 ng	88
59) 1,3,5-Trimethylbenzene	6.646	105	61655253	1222.91 ng	87
60) tert-Butylbenzene	6.757	119	54256249	1240.12 ng	92
61) 1,2,4-Trimethylbenzene	6.806	105	58804614	1148.69 ng	89
62) sec-Butylbenzene	6.848	105	77524944	1221.43 ng	92
63) p-Isopropyltoluene	6.928	119	66055743	1208.71 ng	98
64) 1,3-Dichlorobenzene	6.873	146	34924780	1141.11 ng	98
65) 1,4-Dichlorobenzene	6.902	146	38991769	1127.86 ng	94
67) n-Butylbenzene	7.094	91	55749207	1188.87 ng	94
68) 1,2-Dichlorobenzene	7.046	146	37254406	1184.23 ng	95
69) 1,2-Dibromo-3-chloropr...	7.243	157	5201681	1455.85 ng	89
70) 1,2,4-Trichlorobenzene	7.847	180	27132794	1281.59 ng	96
71) Hexachlorobutadiene	7.994	225	16366671	1677.92 ng	97
72) Naphthalene	7.960	128	63953507	1063.04 ng	96
73) 1,2,3-Trichlorobenzene	8.056	180	27085230	1285.09 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091403IC6.D
Acq On : 14 Sep 2009 11:52
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 3 Sample Multiplier: 1

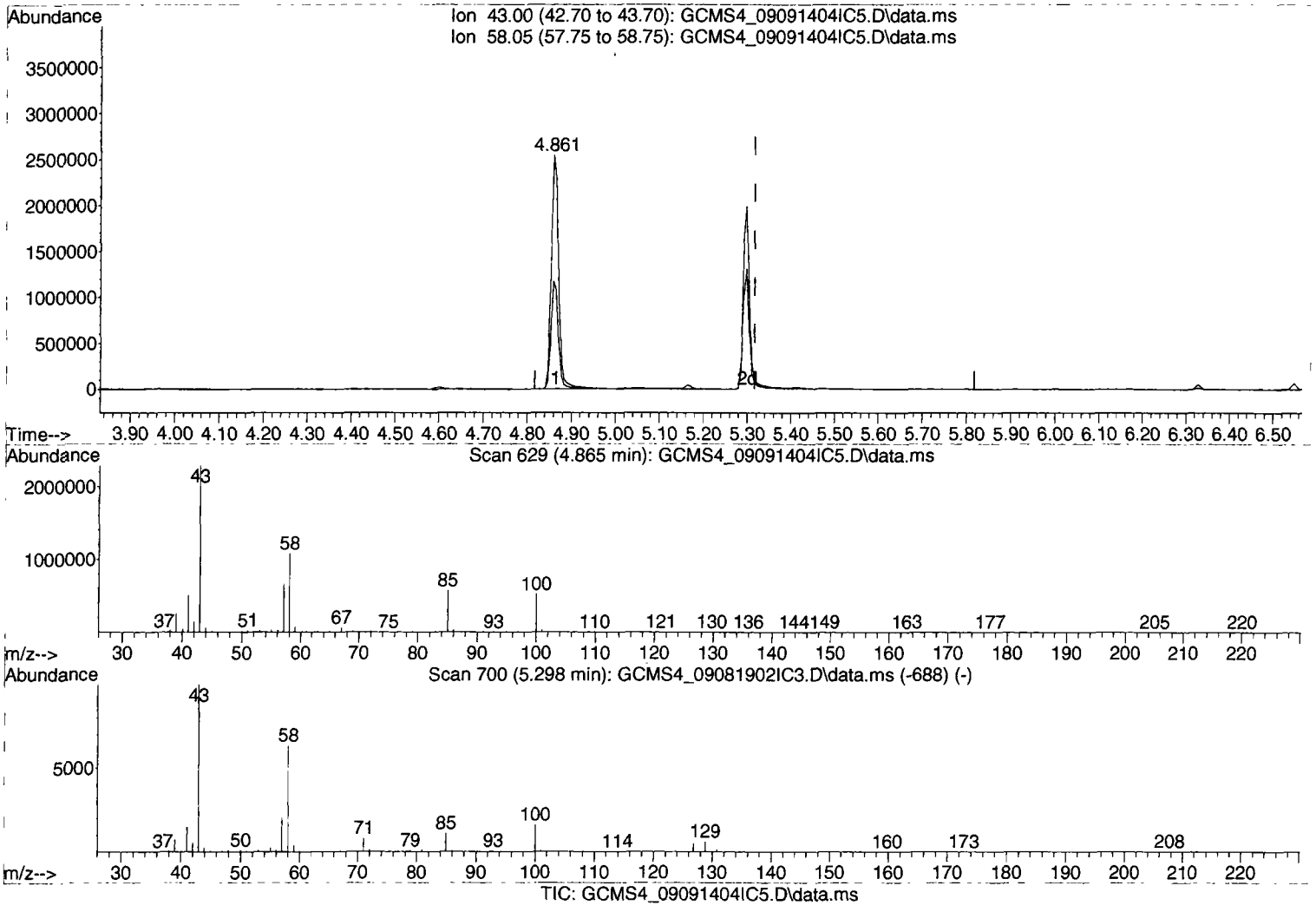
Quant Time: Sep 14 14:12:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091404IC5.D
Acq On : 14 Sep 2009 12:12
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:21:42 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.453) 2802.93ng

response 29074329

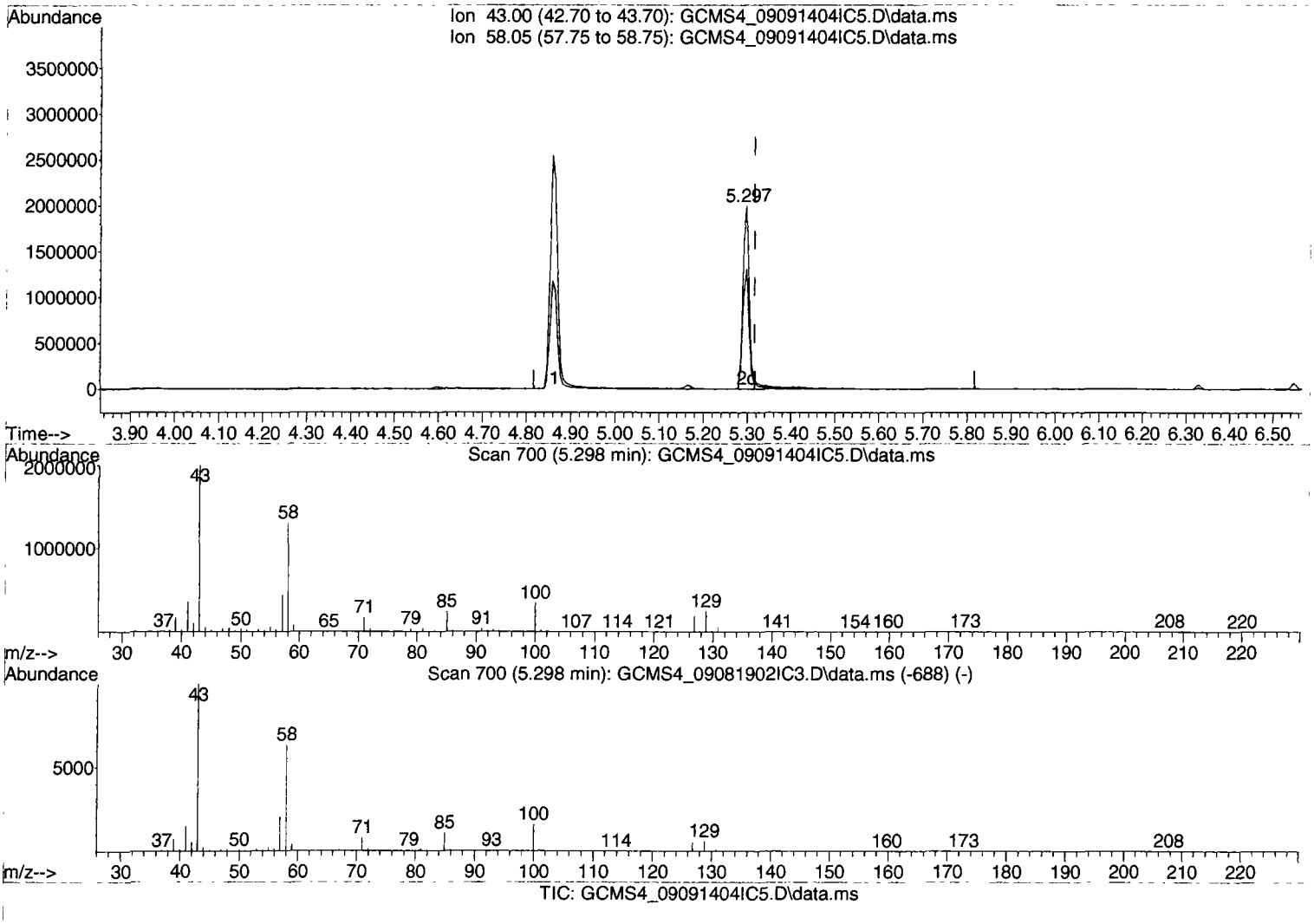
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	46.18
0.00	0.00	0.00
0.00	0.00	0.00

before P
CMY 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091404IC5.D
Acq On : 14 Sep 2009 12:12
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:21:42 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.018) 2100.47ng m

response 21787846

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	61.63#
0.00	0.00	0.00
0.00	0.00	0.00

after P
CMM 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091404IC5.D
Acq On : 14 Sep 2009 12:12
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 14:15:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.144	96	2612982	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.804	82	1093696	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	958713	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.971	84	3989725	72.06 ng		0.00
34) TOLUENE-D8	5.136	98	2534084	48.48 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	877040	49.35 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.080	85	4654322	387.53 ng		99
3) Chloromethane	1.145	50	10910626	547.66 ng		96
4) Vinyl chloride	1.204	62	982303	113.92 ng		97
5) Bromomethane	1.356	94	2917033	345.44 ng		99
6) Chloroethane	1.411	64	3195567	342.00 ng		98
7) Trichlorofluoromethane	1.649	101	9749610	586.46 ng		98
8) Acrolein	1.651	56	3100552	3848.67 ng		93
9) 1,1-Dichloroethene	1.903	96	13326782	964.53 ng		92
10) Acetone	1.711	43	20752015	4694.00 ng		87
11) Carbon disulfide	2.089	76	39264744	1500.92 ng		98
12) Methylene chloride	1.984	84	17534291	1038.15 ng		80
13) Acrylonitrile	1.944	53	27931026	4543.98 ng		98
14) trans-1,2-Dichloroethene	2.385	96	16015458	1144.34 ng		89
15) 1,1-Dichloroethane	2.557	63	25634636	1105.26 ng	#	95
16) 2-Butanone	2.931	43	33529149	5717.34 ng	#	65
17) cis-1,2-Dichloroethene	3.021	96	17879874	1080.98 ng		88
18) 2,2-Dichloropropane	3.253	77	13518201	1560.72 ng		98
19) Bromochloromethane	3.150	128	7886455	1042.46 ng		99
20) Chloroform	3.201	83	25205283	1116.61 ng		94
21) 1,1,1-Trichloroethane	3.735	97	17057166	1571.54 ng		93
22) 1,1-Dichloropropene	3.868	75	20710670	1177.61 ng		97
23) Carbon tetrachloride	3.965	117	10757211	7586.33 ng		89
25) 1,2-Dichloroethane	3.678	62	14320673	1255.80 ng		99
26) Benzene	3.999	78	62899072	1049.26 ng		97
27) Trichloroethene	4.390	130	17669856	1112.12 ng		95
28) 1,2-Dichloropropane	4.362	63	13382945	1091.45 ng		99
29) Dibromomethane	4.335	174	7857556	1075.13 ng		97
30) Bromodichloromethane	4.414	83	14362498	1836.23 ng		96
32) cis-1,3-Dichloropropene	4.781	75	14523713	2017.27 ng		97
33) 4-Methyl-2-pentanone	4.864	43	29123243	2045.68 ng	#	91
35) Toluene	5.169	91	64794306	990.82 ng		99
36) trans-1,3-Dichloropropene	5.011	75	13438508	1970.81 ng		96
37) 1,1,2-Trichloroethane	5.078	97	11695543	1012.48 ng		95
38) 1,3-Dichloropropane	5.197	76	18895940	1158.21 ng		92
39) Tetrachloroethene	5.512	166	18894339	1096.78 ng		97
40) 2-Hexanone	5.298	43	21787846m	2100.47 ng		
41) Dibromochloromethane	5.311	129	10349144	1876.38 ng		97
42) 1,2-Dibromoethane	5.424	107	10358131	959.35 ng		94
44) Chlorobenzene	5.818	112	44204662	1183.32 ng		93
45) 1,1,1,2-Tetrachloroethane	5.787	131	15329806	1944.12 ng		94
46) Ethylbenzene	5.915	91	72345565	1181.46 ng		95
47) m- &/or p-Xylene	6.004	91	101502683	2192.06 ng		96
48) o-Xylene	6.173	91	56102543	1148.11 ng		96
49) Styrene	6.143	104	48321725	1178.31 ng		92
50) Bromoform	6.034	173	9420867	1840.88 ng		88

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091404IC5.D
Acq On : 14 Sep 2009 12:12
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 14:15:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

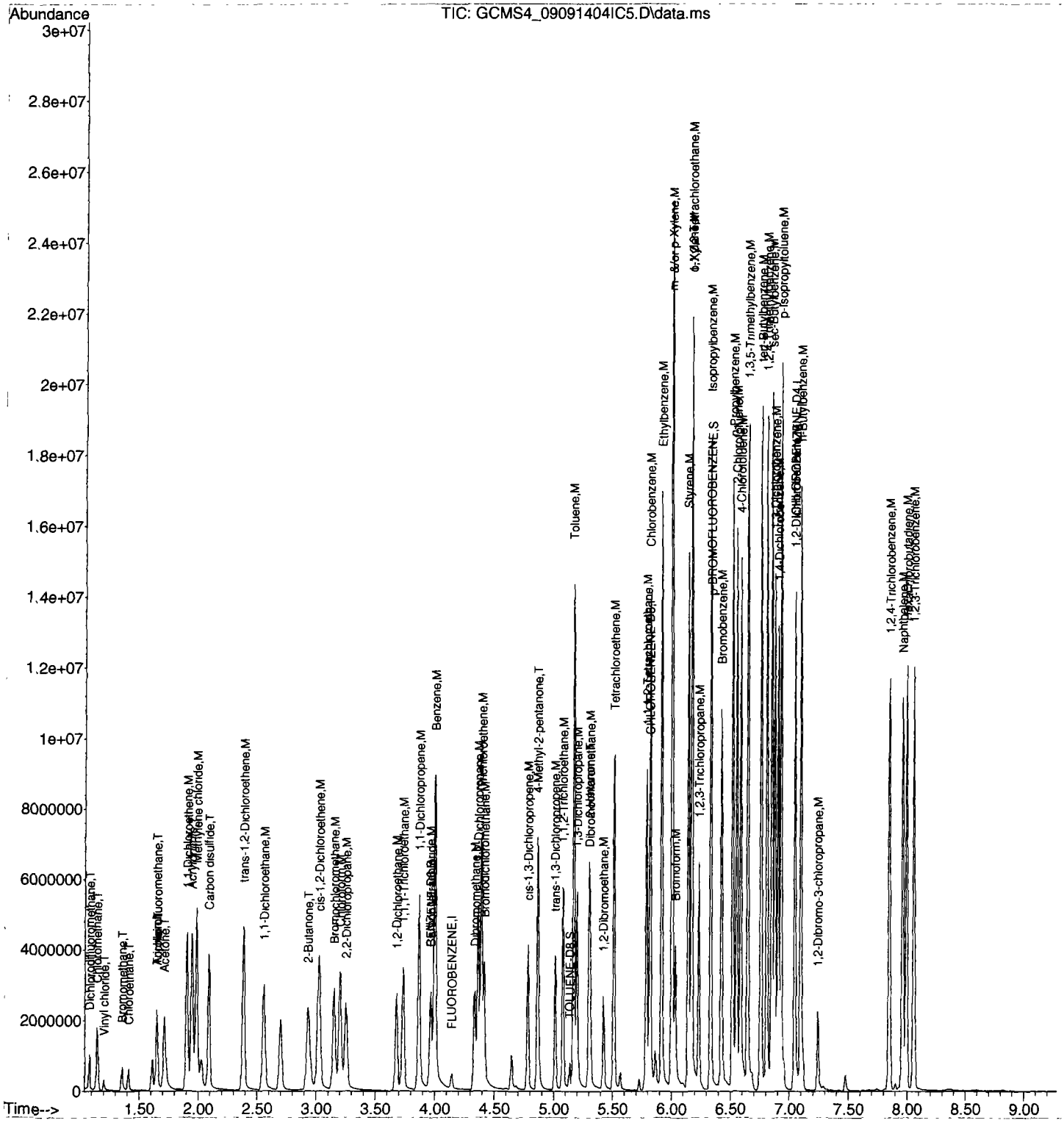
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	67325871	1186.57 ng	90
53) 1,1,2,2-Tetrachloroethane	6.172	83	14805396	1036.13 ng	98
54) 1,2,3-Trichloropropane	6.232	75	14149877	1101.10 ng	94
55) Bromobenzene	6.425	156	19782572	1173.10 ng	91
56) n-Propylbenzene	6.518	91	75404961	1174.51 ng	97
57) 2-Chlorotoluene	6.551	91	52277372	1213.79 ng	95
58) 4-Chlorotoluene	6.586	91	53469904	1227.09 ng	88
59) 1,3,5-Trimethylbenzene	6.646	105	60264217	1242.41 ng	86
60) tert-Butylbenzene	6.757	119	53571450	1272.71 ng	92
61) 1,2,4-Trimethylbenzene	6.806	105	56603447	1149.26 ng	88
62) sec-Butylbenzene	6.849	105	78174091	1280.18 ng	92
63) p-Isopropyltoluene	6.928	119	65935356	1254.04 ng	98
64) 1,3-Dichlorobenzene	6.873	146	32982868	1120.12 ng	98
65) 1,4-Dichlorobenzene	6.902	146	37162175	1117.29 ng	94
67) n-Butylbenzene	7.094	91	57550043	1284.59 ng	93
68) 1,2-Dichlorobenzene	7.046	146	34404073	1144.70 ng	95
69) 1,2-Dibromo-3-chloropr...	7.243	157	4373507	1281.23 ng	89
70) 1,2,4-Trichlorobenzene	7.847	180	26034189	1287.13 ng	96
71) Hexachlorobutadiene	7.994	225	16611663	1782.58 ng	97
72) Naphthalene	7.961	128	58872891	1024.29 ng	96
73) 1,2,3-Trichlorobenzene	8.057	180	25419090	1262.36 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091404IC5.D
Acq On : 14 Sep 2009 12:12
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 4 Sample Multiplier: 1

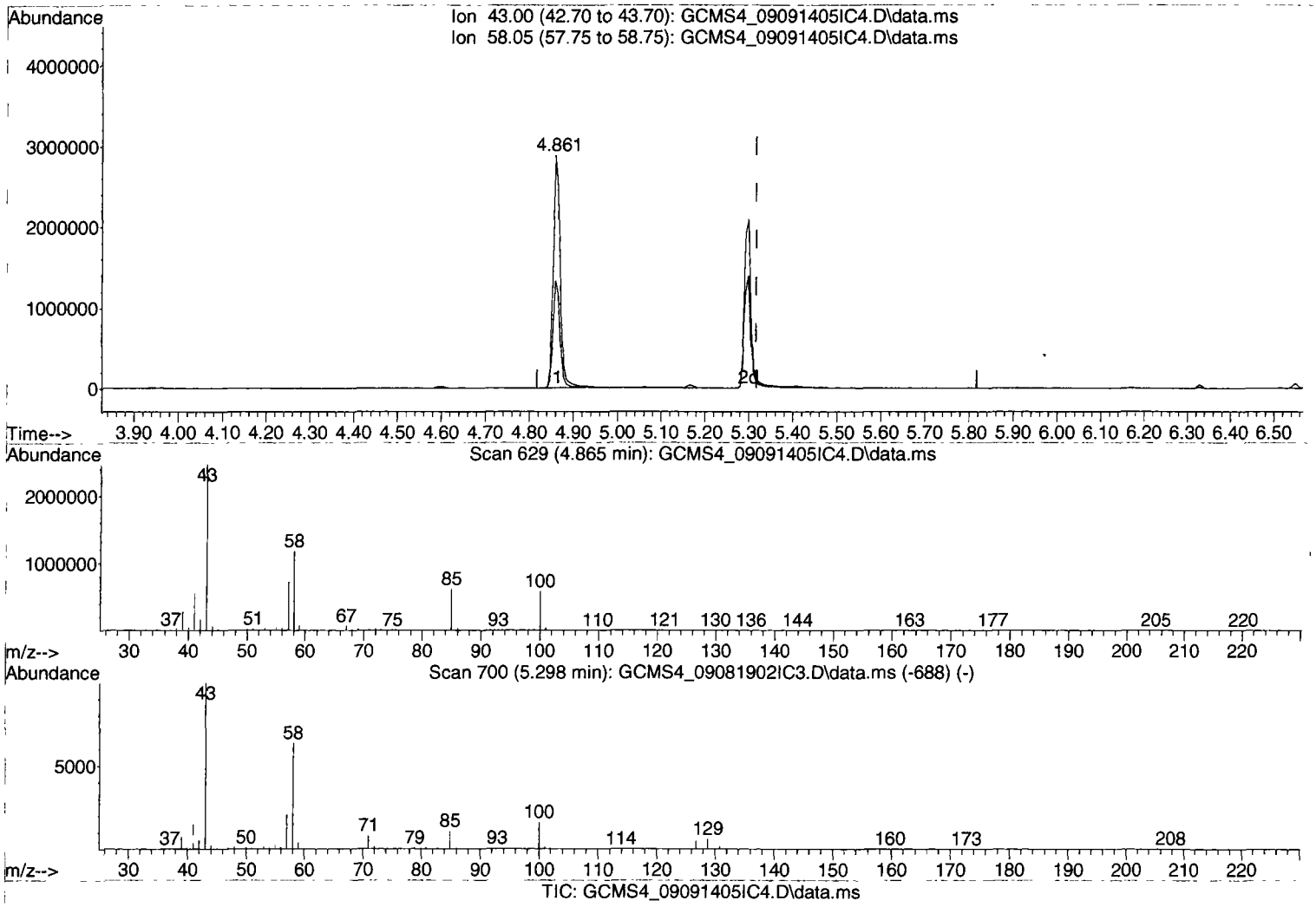
Quant Time: Sep 14 14:15:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091405IC4.D
Acq On : 14 Sep 2009 12:32
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 12:41:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.453) 3106.71ng

response 31180348

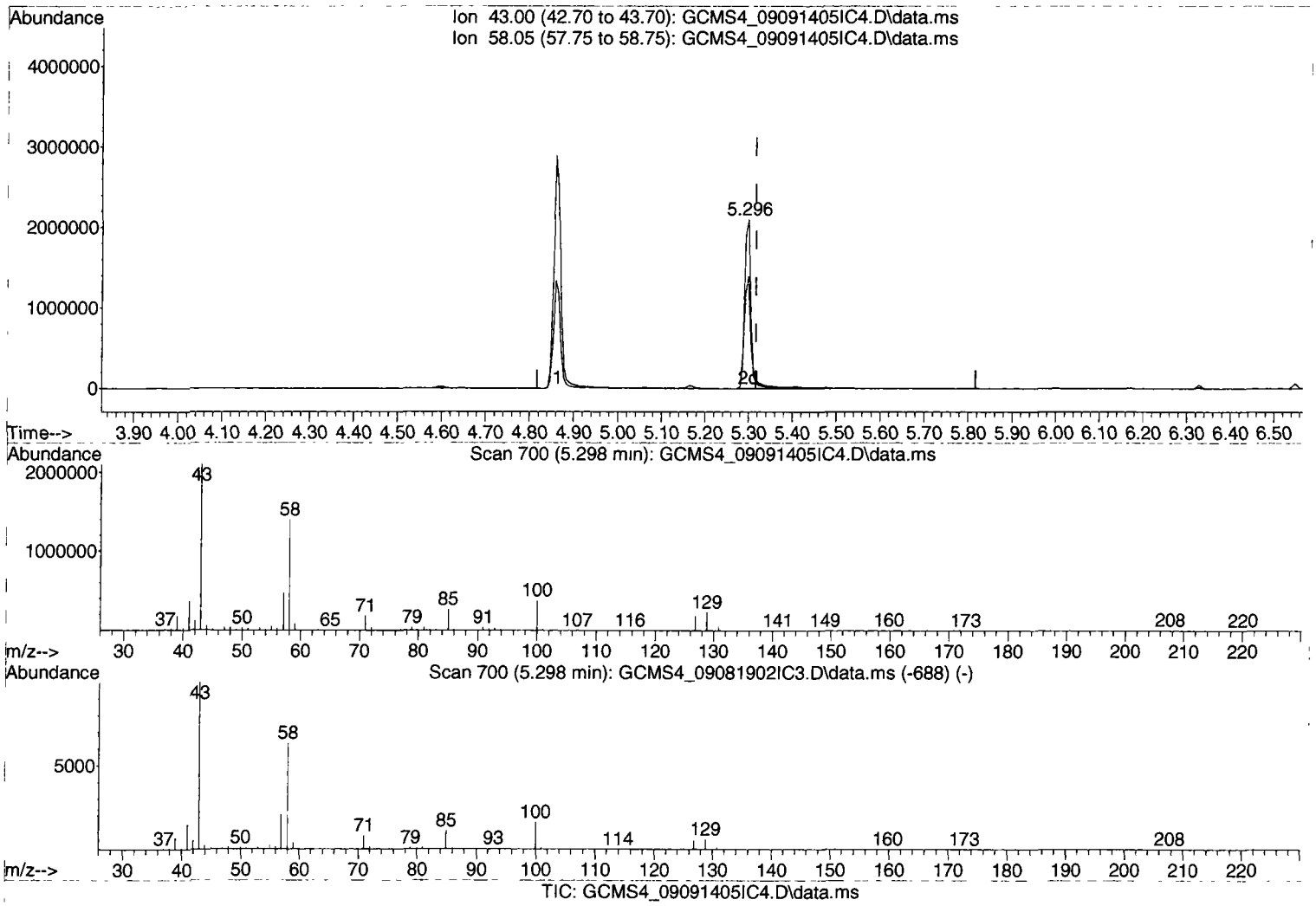
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	46.30
0.00	0.00	0.00
0.00	0.00	0.00

before P
CJM 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091405IC4.D
Acq On : 14 Sep 2009 12:32
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 12:41:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.018) 2311.30ng m

response 23197254

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	62.23#
0.00	0.00	0.00
0.00	0.00	0.00

dpt c
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091405IC4.D
Acq On : 14 Sep 2009 12:32
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 14:16:47 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) FLUOROBENZENE	4.146	96	2528245	50.00	ng		0.00
43) CHLOROBENZENE-D5	5.804	82	1547305	50.00	ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	967208	50.00	ng		0.00
System Monitoring Compounds							
24) BENZENE-D6	3.973	84	3684094	68.77	ng		0.00
34) TOLUENE-D8	5.136	98	2469763	48.83	ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	853049	33.93	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.082	85	3039195	261.53	ng		99
3) Chloromethane	1.148	50	7522835	390.27	ng		96
4) Vinyl chloride	1.205	62	753514	90.32	ng		95
5) Bromomethane	1.360	94	2933951	359.09	ng		99
6) Chloroethane	1.414	64	2782631	307.79	ng		97
7) Trichlorofluoromethane	1.653	101	6840785	425.28	ng		99
8) Acrolein	1.653	56	3533606	4533.22	ng		95
9) 1,1-Dichloroethene	1.906	96	11617218	868.98	ng		92
10) Acetone	1.712	43	23432725	5478.01	ng		87
11) Carbon disulfide	2.093	76	34121358	1348.03	ng		98
12) Methylene chloride	1.987	84	16698798	1021.82	ng		80
13) Acrylonitrile	1.946	53	30536981	5134.44	ng		99
14) trans-1,2-Dichloroethene	2.388	96	13968277	1031.51	ng		88
15) 1,1-Dichloroethane	2.560	63	23113513	1029.96	ng	#	96
16) 2-Butanone	2.931	43	36810197	6487.19	ng	#	66
17) cis-1,2-Dichloroethene	3.024	96	16343017	1021.18	ng		87
18) 2,2-Dichloropropane	3.255	77	11701265	1396.23	ng		99
19) Bromochloromethane	3.153	128	7690654	1050.65	ng		100
20) Chloroform	3.203	83	23186644	1061.61	ng		94
21) 1,1,1-Trichloroethane	3.737	97	14806387	1409.89	ng		93
22) 1,1-Dichloropropene	3.869	75	17335170	1018.72	ng		97
23) Carbon tetrachloride	3.967	117	9134283	6657.69	ng		89
25) 1,2-Dichloroethane	3.679	62	13827436	1253.18	ng		98
26) Benzene	4.001	78	57106773	984.57	ng		98
27) Trichloroethene	4.391	130	15353265	998.70	ng		94
28) 1,2-Dichloropropane	4.363	63	12424770	1047.27	ng		99
29) Dibromomethane	4.336	174	7837990	1108.40	ng		97
30) Bromodichloromethane	4.415	83	13702745	1810.60	ng		95
32) cis-1,3-Dichloropropene	4.782	75	13707829	1967.76	ng		97
33) 4-Methyl-2-pentanone	4.864	43	31160509	2262.14	ng	#	91
35) Toluene	5.170	91	58343720	922.08	ng		100
36) trans-1,3-Dichloropropene	5.012	75	12786171	1937.99	ng		96
37) 1,1,2-Trichloroethane	5.079	97	11700719	1046.88	ng		95
38) 1,3-Dichloropropane	5.197	76	18567919	1176.25	ng		91
39) Tetrachloroethene	5.512	166	15580074	934.70	ng		97
40) 2-Hexanone	5.298	43	23197254m	2311.30	ng		
41) Dibromochloromethane	5.311	129	10273245	1925.05	ng		97
42) 1,2-Dibromoethane	5.424	107	10503106	1005.38	ng		94
44) Chlorobenzene	5.819	112	41587707	786.90	ng		92
45) 1,1,1,2-Tetrachloroethane	5.787	131	14449561	1295.27	ng		93
46) Ethylbenzene	5.915	91	63395430	731.79	ng		95
47) m- &/or p-Xylene	6.004	91	92722508	1415.40	ng		97
48) o-Xylene	6.173	91	51350853	742.79	ng		95
49) Styrene	6.143	104	44782485	771.87	ng		92
50) Bromoform	6.034	173	9542780	1318.04	ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091405IC4.D
Acq On : 14 Sep 2009 12:32
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 14:16:47 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

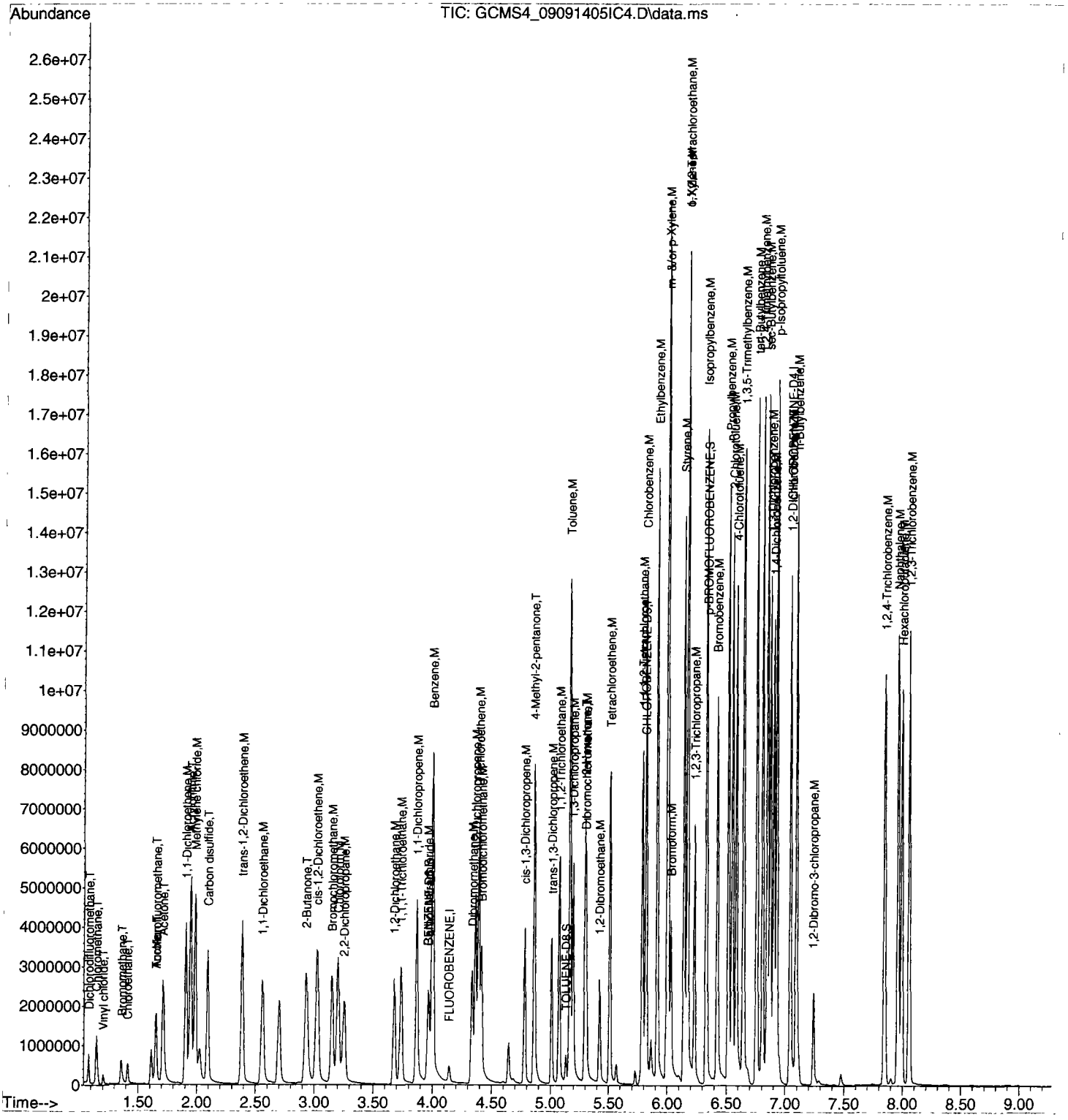
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	62888338	783.43 ng	92
53) 1,1,2,2-Tetrachloroethane	6.172	83	15669963	775.14 ng	98
54) 1,2,3-Trichloropropane	6.232	75	14806291	814.41 ng	95
55) Bromobenzene	6.425	156	18441589	772.99 ng	91
56) n-Propylbenzene	6.518	91	66467710	731.80 ng	94
57) 2-Chlorotoluene	6.551	91	46971810	770.88 ng	96
58) 4-Chlorotoluene	6.585	91	47714943	774.00 ng	88
59) 1,3,5-Trimethylbenzene	6.646	105	54437359	793.28 ng	87
60) tert-Butylbenzene	6.757	119	48399127	812.74 ng	92
61) 1,2,4-Trimethylbenzene	6.806	105	52036480	746.80 ng	90
62) sec-Butylbenzene	6.848	105	70806778	819.60 ng	94
63) p-Isopropyltoluene	6.928	119	57923212	778.69 ng	97
64) 1,3-Dichlorobenzene	6.873	146	29443190	706.77 ng	99
65) 1,4-Dichlorobenzene	6.902	146	34116859	725.03 ng	94
67) n-Butylbenzene	7.095	91	49410118	1093.21 ng	94
68) 1,2-Dichlorobenzene	7.047	146	32224548	1062.76 ng	95
69) 1,2-Dibromo-3-chloropr...	7.243	157	4713823	1368.80 ng	89
70) 1,2,4-Trichlorobenzene	7.847	180	23596230	1156.35 ng	96
71) Hexachlorobutadiene	7.994	225	14208134	1511.27 ng	97
72) Naphthalene	7.962	128	60415071	1041.89 ng	97
73) 1,2,3-Trichlorobenzene	8.057	180	24008717	1181.85 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091405IC4.D
Acq On : 14 Sep 2009 12:32
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 5 Sample Multiplier: 1

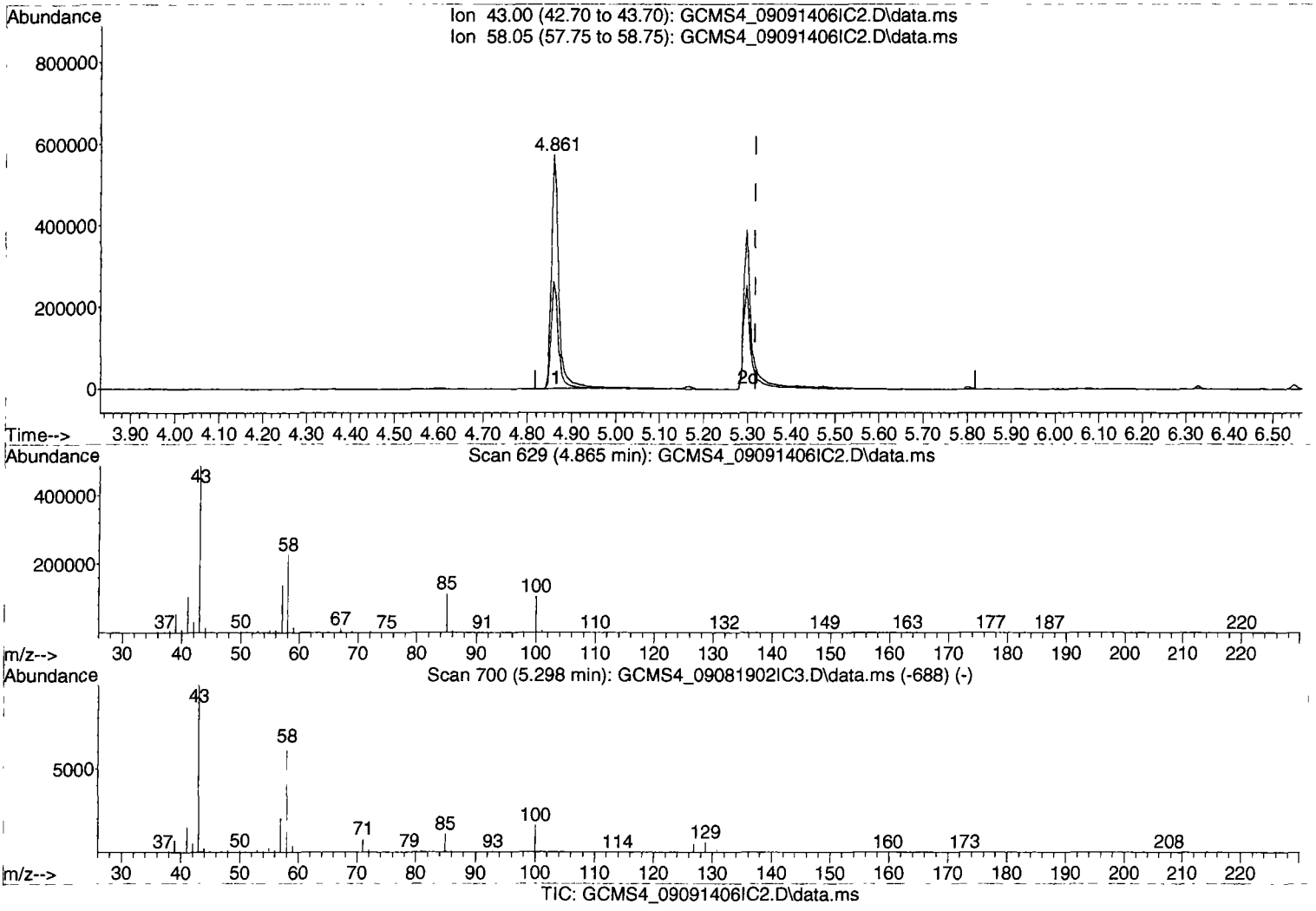
Quant Time: Sep 14 14:16:47 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091406IC2.D
Acq On : 14 Sep 2009 12:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 13:02:16 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.453) 669.28ng

response 6576847

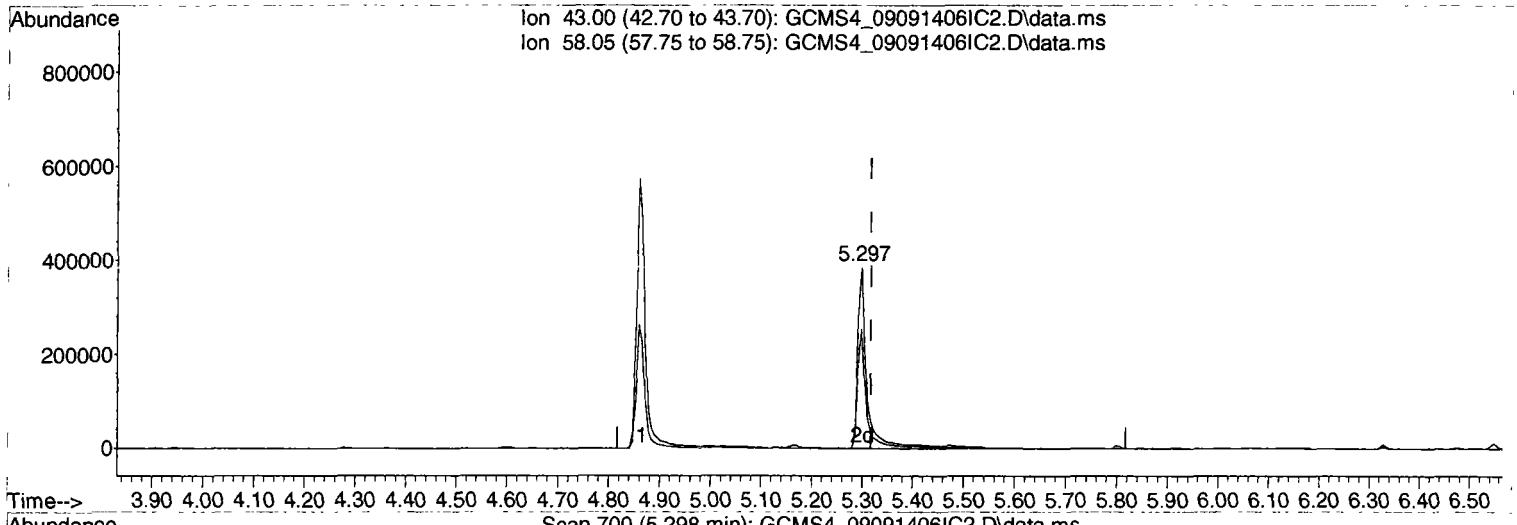
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.84
0.00	0.00	0.00
0.00	0.00	0.00

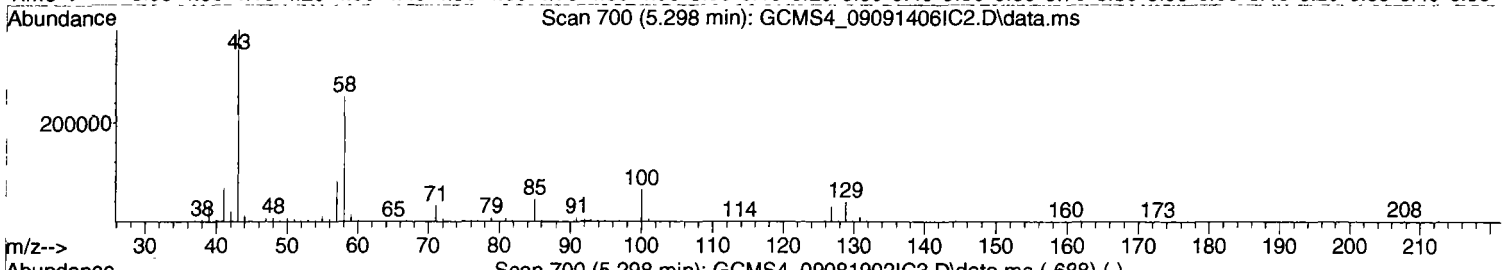
before P
CMH 9/25/09

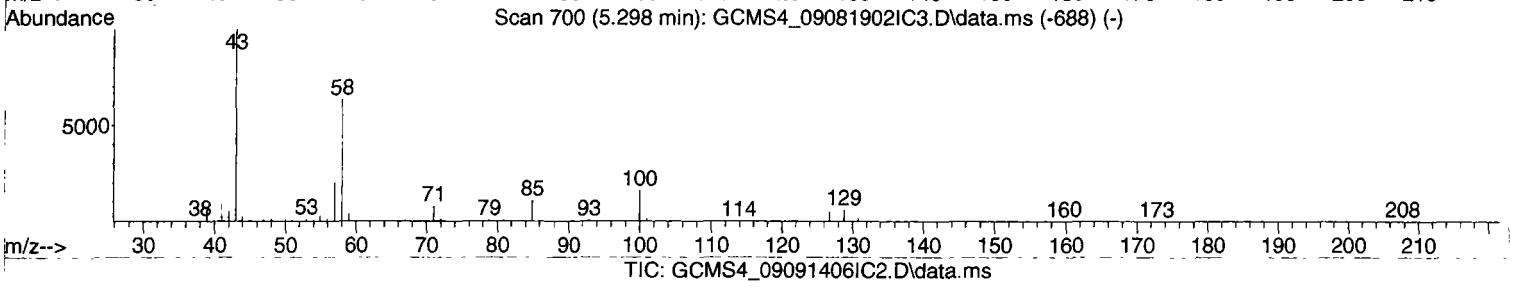
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091406IC2.D
Acq On : 14 Sep 2009 12:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 13:02:16 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration







(40) 2-Hexanone (T)

5.298min (-0.018) 529.85ng m

response 5206680

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	57.90#
0.00	0.00	0.00
0.00	0.00	0.00

aptcc
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091406IC2.D
Acq On : 14 Sep 2009 12:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 14:17:44 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.147	96	2475430	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.805	82	1040047	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	842944	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.975	84	2626694	50.08 ng		0.00
34) TOLUENE-D8	5.136	98	2251357	45.47 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	864374	51.14 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	679136	59.69 ng		97
3) Chloromethane	1.149	50	1925799	102.04 ng		95
4) Vinyl chloride	1.214	62	698134	85.46 ng		96
5) Bromomethane	1.366	94	1313673	164.21 ng		99
6) Chloroethane	1.420	64	814397	92.00 ng		94
7) Trichlorofluoromethane	1.657	101	1624836	103.17 ng		98
8) Acrolein	1.655	56	631549	827.49 ng		98
9) 1,1-Dichloroethene	1.911	96	1700782	129.93 ng		90
10) Acetone	1.713	43	4736201	1130.83 ng		86
11) Carbon disulfide	2.097	76	4853856	195.85 ng		97
12) Methylene chloride	1.990	84	2822428	176.39 ng		80
13) Acrylonitrile	1.947	53	6289755	1080.11 ng		99
14) trans-1,2-Dichloroethene	2.392	96	2050022	154.62 ng		89
15) 1,1-Dichloroethane	2.563	63	3479598	158.36 ng	#	96
16) 2-Butanone	2.931	43	7357885	1324.37 ng	#	68
17) cis-1,2-Dichloroethene	3.027	96	2575154	164.34 ng		88
18) 2,2-Dichloropropane	3.257	77	1840489	224.30 ng		99
19) Bromochloromethane	3.155	128	1347491	188.01 ng		100
20) Chloroform	3.205	83	3586778	167.73 ng		93
21) 1,1,1-Trichloroethane	3.738	97	2256178	219.42 ng		94
22) 1,1-Dichloropropene	3.872	75	2446081	146.81 ng		98
23) Carbon tetrachloride	3.968	117	1491961	1110.65 ng		90
25) 1,2-Dichloroethane	3.681	62	2148093	198.84 ng		99
26) Benzene	4.002	78	9110171	160.42 ng		97
27) Trichloroethene	4.392	130	2329378	154.75 ng		95
28) 1,2-Dichloropropane	4.364	63	2197849	189.21 ng		98
29) Dibromomethane	4.337	174	1560577	225.39 ng		98
30) Bromodichloromethane	4.416	83	2281749	307.93 ng		97
32) cis-1,3-Dichloropropene	4.783	75	2594827	380.44 ng		98
33) 4-Methyl-2-pentanone	4.863	43	6582116	488.03 ng	#	92
35) Toluene	5.170	91	9858041	159.12 ng		99
36) trans-1,3-Dichloropropene	5.013	75	2475339	383.19 ng		95
37) 1,1,2-Trichloroethane	5.079	97	2312396	211.31 ng		97
38) 1,3-Dichloropropane	5.197	76	3925662	253.99 ng		92
39) Tetrachloroethene	5.512	166	2394673	146.73 ng		98
40) 2-Hexanone	5.298	43	5206680m	529.85 ng		
41) Dibromochloromethane	5.311	129	2081958	398.45 ng		96
42) 1,2-Dibromoethane	5.425	107	2462226	240.72 ng		94
44) Chlorobenzene	5.819	112	6942006	195.42 ng		92
45) 1,1,1,2-Tetrachloroethane	5.787	131	2328550	310.54 ng		92
46) Ethylbenzene	5.916	91	10907110	187.31 ng		98
47) m- &/or p-Xylene	6.003	91	18544282	421.14 ng		99
48) o-Xylene	6.173	91	9747504	209.77 ng		96
49) Styrene	6.144	104	8512996	218.29 ng		85
50) Bromoform	6.034	173	1684959	346.23 ng		88

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091406IC2.D
Acq On : 14 Sep 2009 12:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 14 14:17:44 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

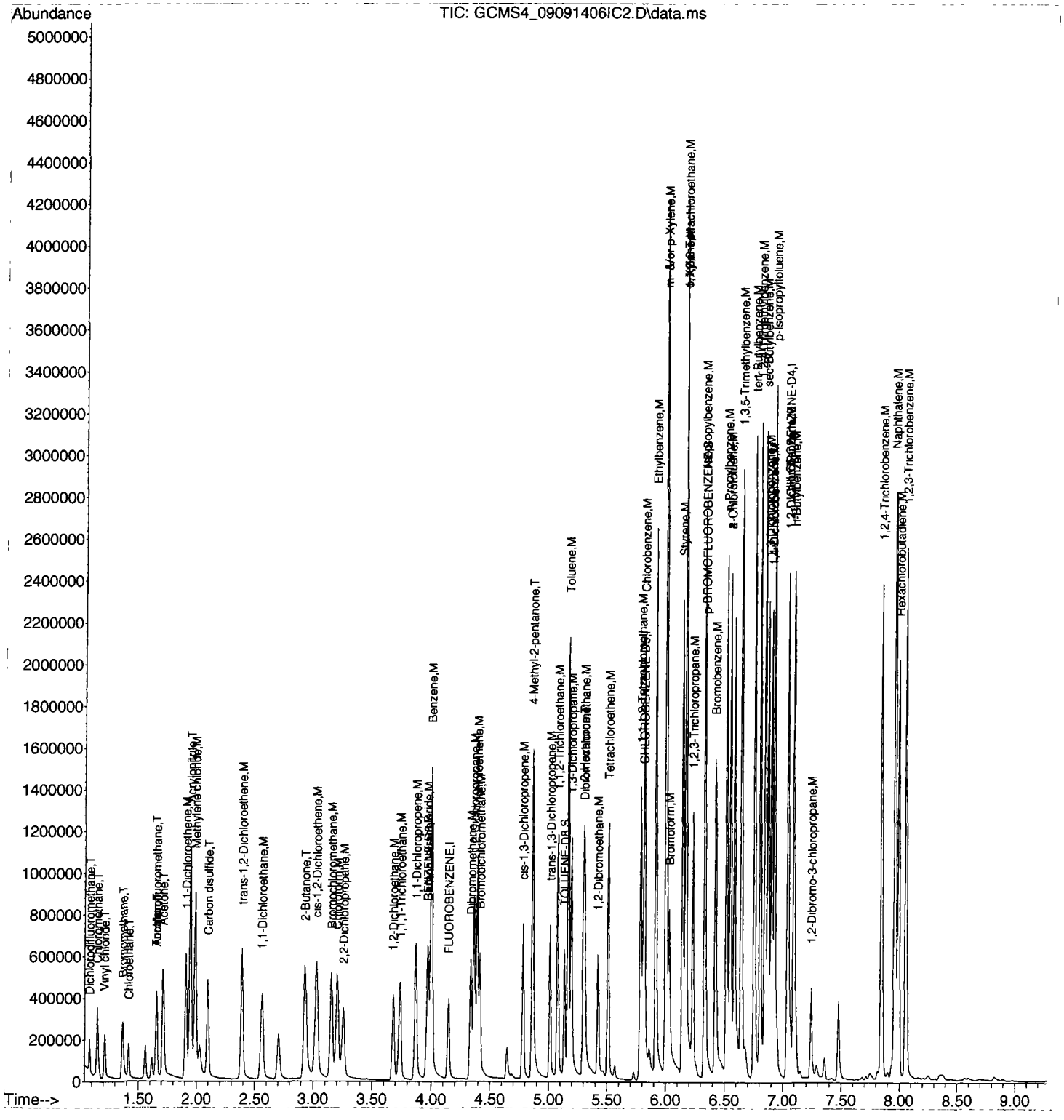
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	10874416	201.54 ng	95
53) 1,1,2,2-Tetrachloroethane	6.171	83	3289223	242.06 ng	100
54) 1,2,3-Trichloropropane	6.233	75	2973735	243.34 ng	96
55) Bromobenzene	6.426	156	3440860	214.57 ng	91
56) n-Propylbenzene	6.519	91	10964814	179.60 ng	93
57) 2-Chlorotoluene	6.551	91	8339183	203.61 ng	99
58) 4-Chlorotoluene	6.551	91	8336690	201.19 ng	96
59) 1,3,5-Trimethylbenzene	6.646	105	9808752	212.65 ng	89
60) tert-Butylbenzene	6.757	119	8593218	214.68 ng	92
61) 1,2,4-Trimethylbenzene	6.806	105	9585025	204.65 ng	90
62) sec-Butylbenzene	6.848	105	13007031	223.99 ng	97
63) p-Isopropyltoluene	6.928	119	10347075	206.94 ng	95
64) 1,3-Dichlorobenzene	6.874	146	5248223	187.43 ng	98
65) 1,4-Dichlorobenzene	6.903	146	7345262	232.23 ng	94
67) n-Butylbenzene	7.096	91	9591812	243.51 ng	97
68) 1,2-Dichlorobenzene	7.047	146	6362776	240.78 ng	94
69) 1,2-Dibromo-3-chloropr...	7.244	157	864792	288.14 ng	90
70) 1,2,4-Trichlorobenzene	7.848	180	5146108	289.37 ng	96
71) Hexachlorobutadiene	7.994	225	2773079	338.44 ng	97
72) Naphthalene	7.962	128	16440927	325.33 ng	98
73) 1,2,3-Trichlorobenzene	8.057	180	5475071	309.25 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091406IC2.D
Acq On : 14 Sep 2009 12:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 6 Sample Multiplier: 1

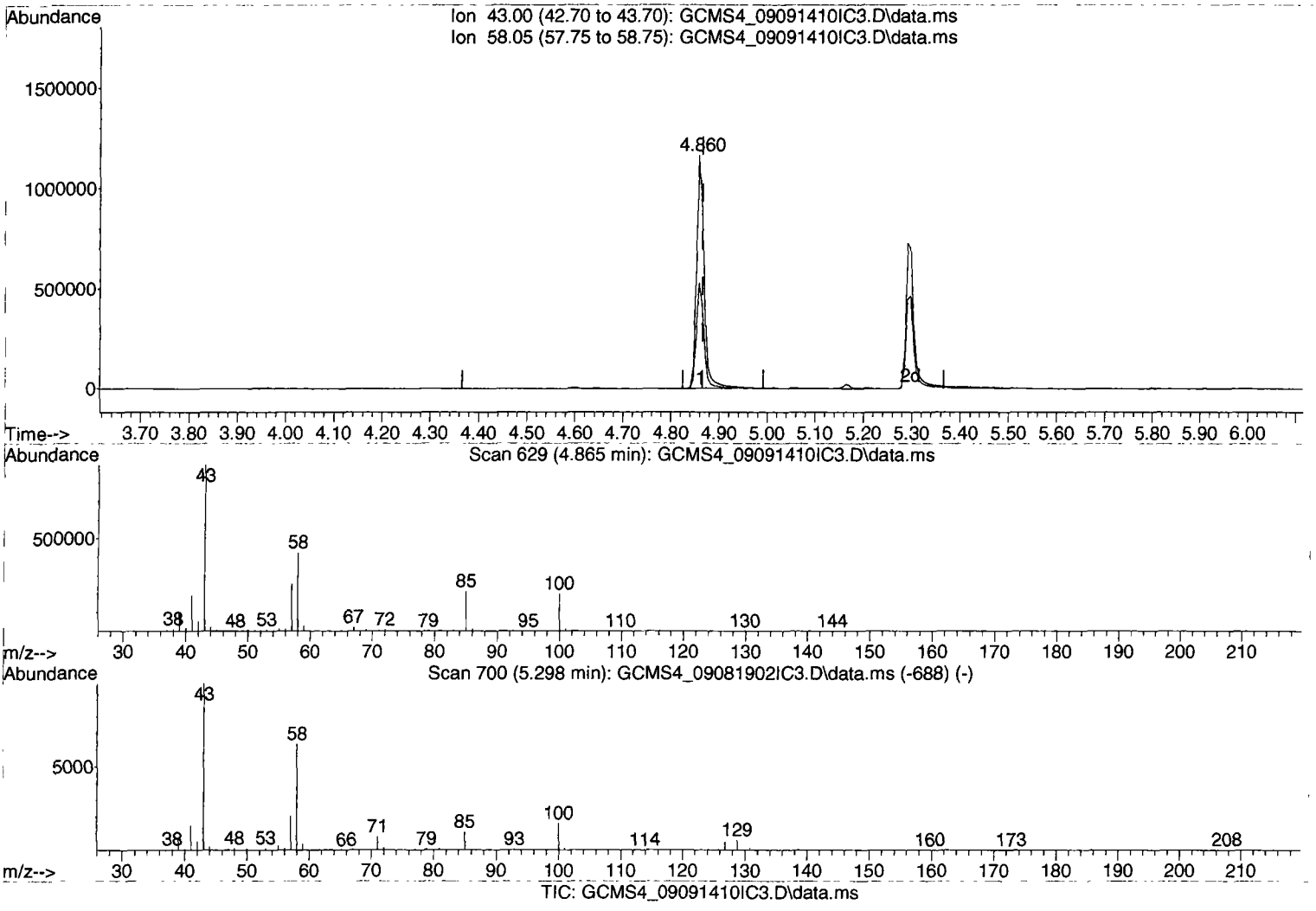
Quant Time: Sep 14 14:17:44 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:48:57 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.863min (-0.003) 786.85ng

response 12615026

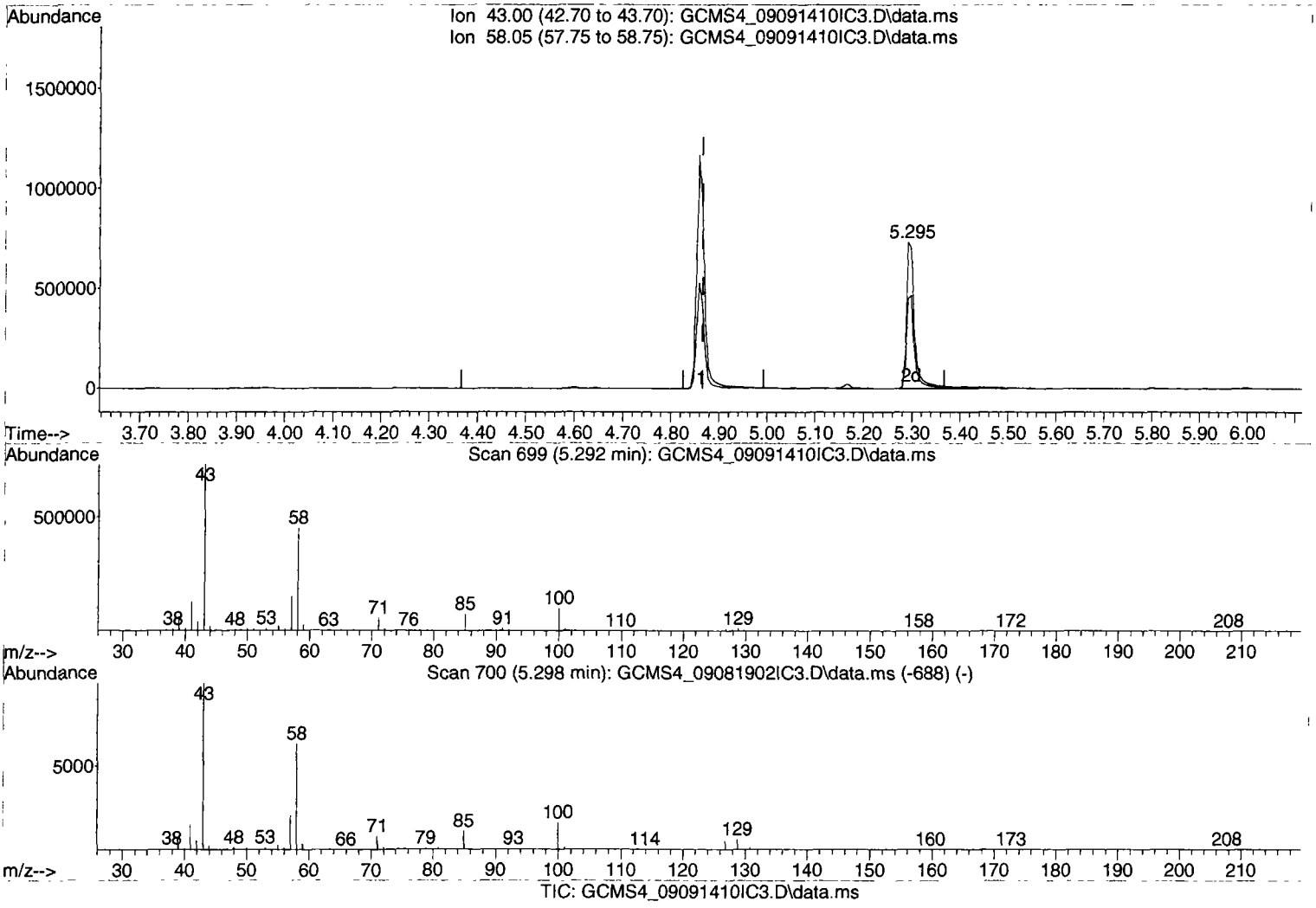
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.73
0.00	0.00	0.00
0.00	0.00	0.00

hexane P
CMY 11/30/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:48:57 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.292min (+0.426) 559.57ng m

response 8971145

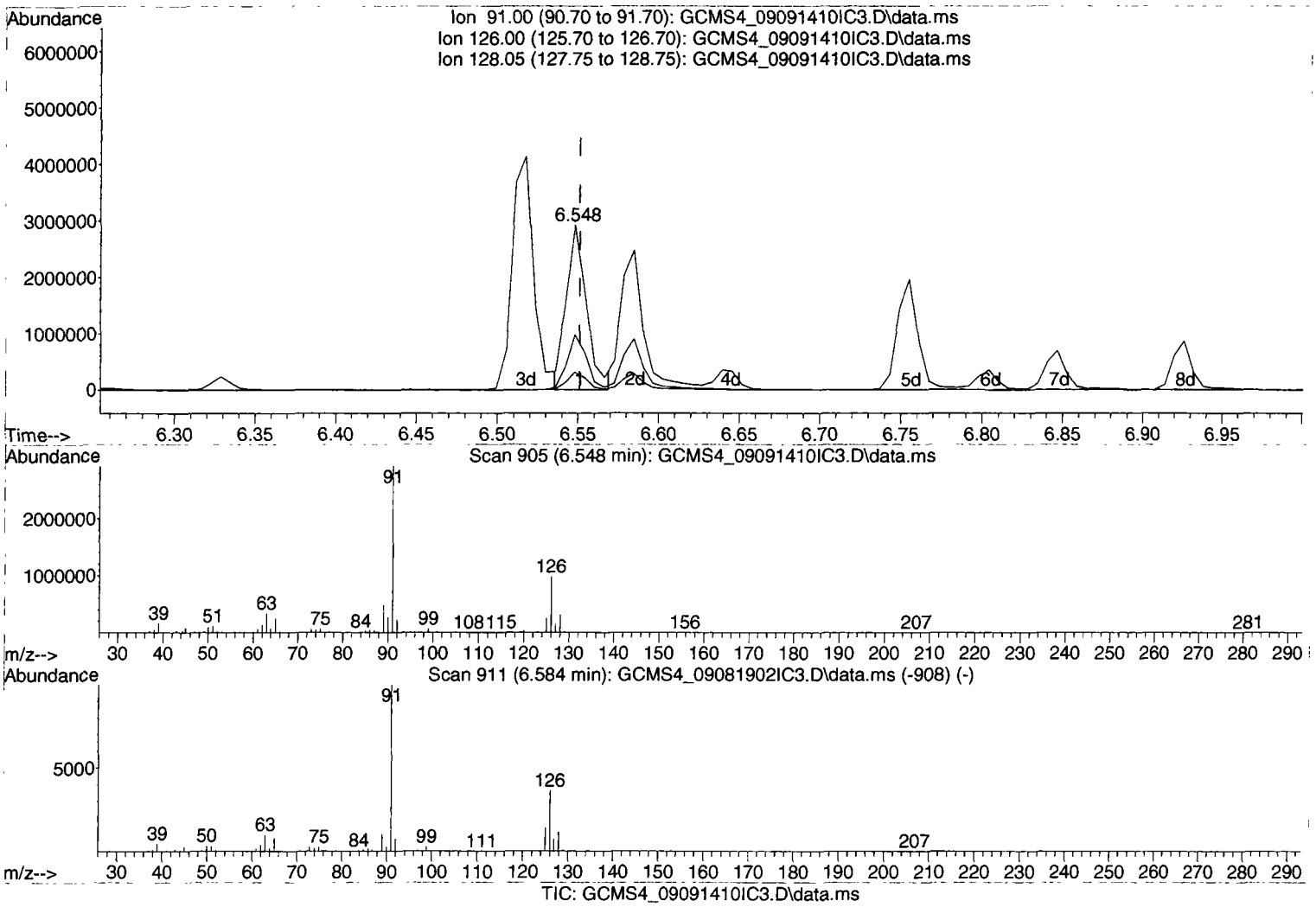
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	64.31#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 11/30/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:48:57 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.551min (-0.000) 302.73ng

response 25609608

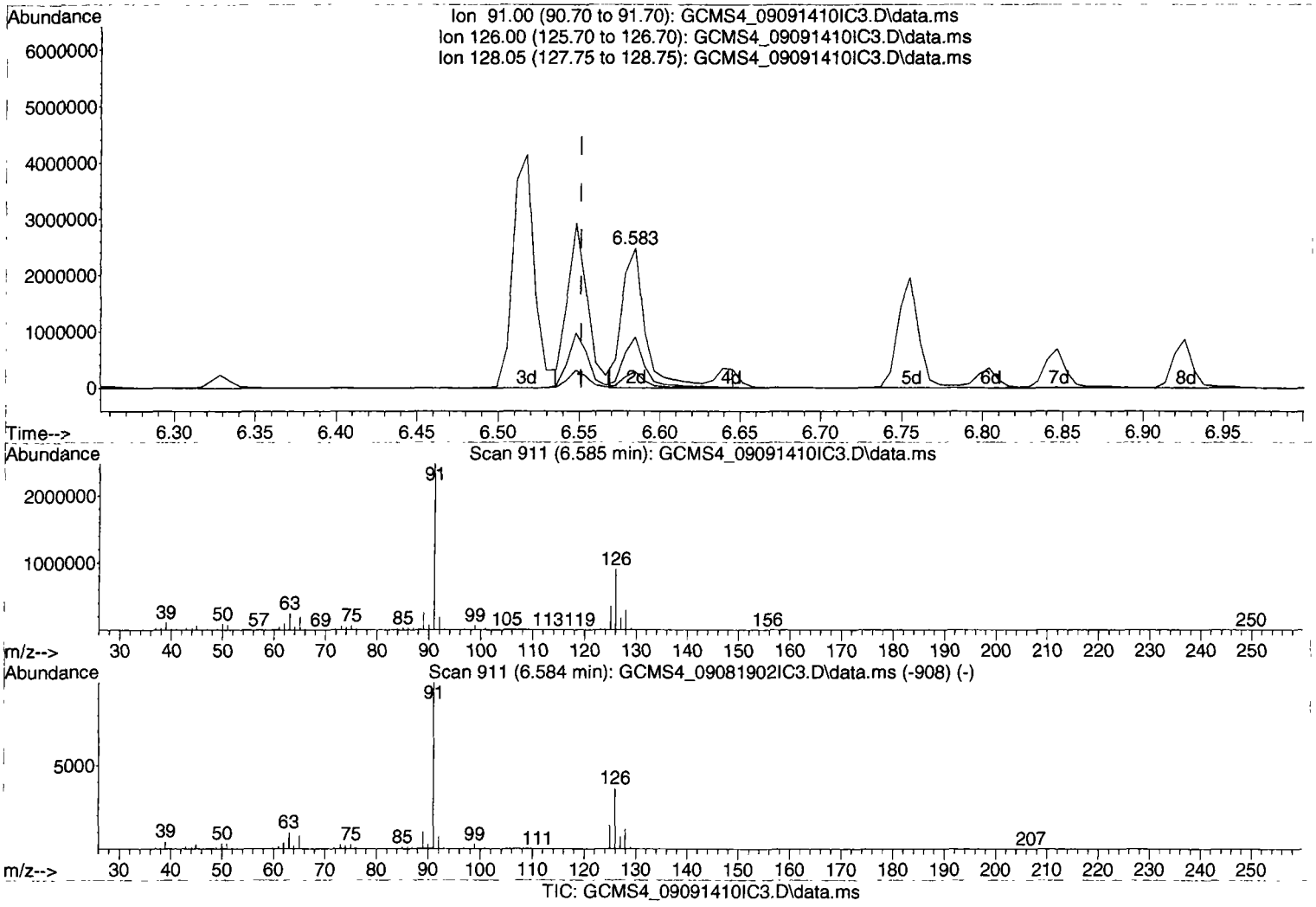
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	32.13
128.05	10.00	10.28
0.00	0.00	0.00

before PC
CMY 11/30/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:48:57 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.585min (+0.033) 311.59ng m

response 26359123

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	31.22
128.05	10.00	9.98
0.00	0.00	0.00

after
CMY 11/30/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:50:14 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.146	96	2461393	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.804	82	1298829	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	947027	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.974	84	3106235	48.71 ng		0.00
34) TOLUENE-D8	5.136	98	2315462	49.79 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	906918	46.21 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	1242803	227.23 ng		99
3) Chloromethane	1.149	50	2816386	205.37 ng		96
4) Vinyl chloride	1.212	62	975195	231.78 ng		97
5) Bromomethane	1.364	94	1459296	259.46 ng		100
6) Chloroethane	1.418	64	1319974	259.62 ng		97
7) Trichlorofluoromethane	1.656	101	2936647	237.95 ng		99
8) Acrolein	1.655	56	1355074	1419.22 ng		97
9) 1,1-Dichloroethene	1.910	96	6182203	353.63 ng		91
10) Acetone	1.712	43	8806696	1349.76 ng		86
11) Carbon disulfide	2.096	76	16062386	327.14 ng		97
12) Methylene chloride	1.989	84	7276718	285.51 ng		80
13) Acrylonitrile	1.946	53	11263945	1252.36 ng		98
14) trans-1,2-Dichloroethene	2.391	96	6620089	322.36 ng		90
15) 1,1-Dichloroethane	2.562	63	10854387	322.90 ng	#	95
16) 2-Butanone	2.930	43	13090132	1300.58 ng	#	65
17) cis-1,2-Dichloroethene	3.026	96	7611313	319.34 ng		87
18) 2,2-Dichloropropane	3.257	77	6116748	337.07 ng		98
19) Bromochloromethane	3.154	128	3230424	289.96 ng		99
20) Chloroform	3.204	83	10904414	324.09 ng		94
21) 1,1,1-Trichloroethane	3.737	97	7948342	348.22 ng		94
22) 1,1-Dichloropropene	3.870	75	9046468	346.92 ng		97
23) Carbon tetrachloride	3.967	117	5314494	366.24 ng		90
25) 1,2-Dichloroethane	3.680	62	5558758	291.18 ng		98
26) Benzene	4.001	78	28576643	333.20 ng		97
27) Trichloroethene	4.391	130	7820575	337.67 ng		95
28) 1,2-Dichloropropane	4.363	63	6016982	318.60 ng		98
29) Dibromomethane	4.337	174	3244879	277.91 ng		97
30) Bromodichloromethane	4.415	83	6312531	316.97 ng		96
32) cis-1,3-Dichloropropene	4.782	75	6368627	304.66 ng		97
33) 4-Methyl-2-pentanone	4.863	43	12615026	562.40 ng	#	92
35) Toluene	5.170	91	30945768	344.00 ng		100
36) trans-1,3-Dichloropropene	5.012	75	5783374	305.44 ng		96
37) 1,1,2-Trichloroethane	5.078	97	5435075	307.00 ng		92
38) 1,3-Dichloropropane	5.197	76	8688395	299.72 ng		92
39) Tetrachloroethene	5.512	166	8764093	358.77 ng		97
40) 2-Hexanone	5.292	43	8971145m	559.57 ng		
41) Dibromochloromethane	5.311	129	4928760	317.67 ng		97
42) 1,2-Dibromoethane	5.424	107	4777601	290.47 ng		94
44) Chlorobenzene	5.818	112	20862962	300.93 ng		92
45) 1,1,1,2-Tetrachloroethane	5.786	131	6924011	296.64 ng		93
46) Ethylbenzene	5.915	91	34952689	311.96 ng		97
47) m- &/or p-Xylene	6.003	91	54585352	628.25 ng		98
48) o-Xylene	6.173	91	28238076	305.37 ng		94
49) Styrene	6.143	104	22553005	284.86 ng		90
50) Bromoform	6.033	173	4056753	275.89 ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 09:50:14 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

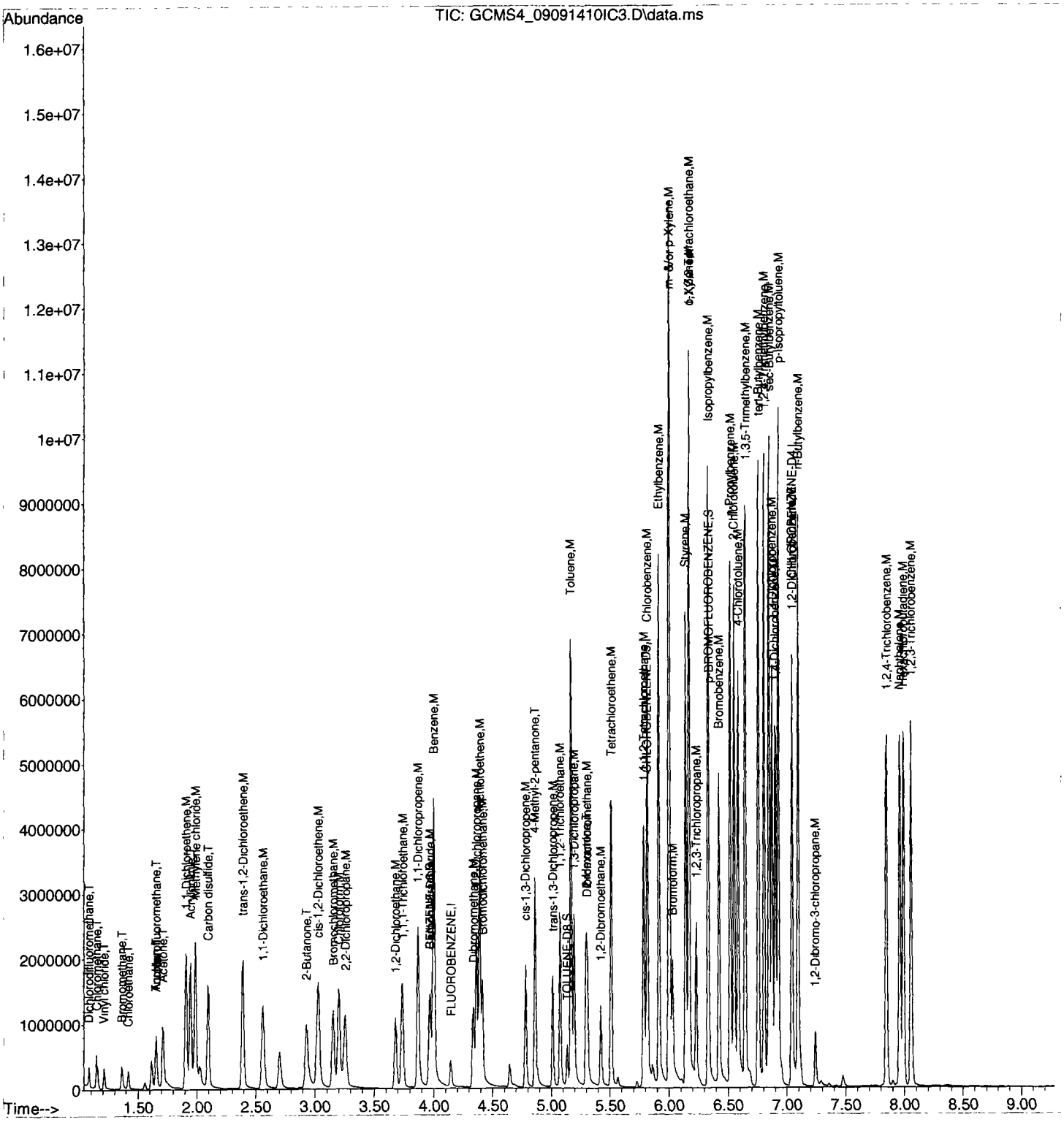
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	35802552	324.29 ng	94
53) 1,1,2,2-Tetrachloroethane	6.171	83	6884410	256.31 ng	98
54) 1,2,3-Trichloropropane	6.231	75	6011031	249.32 ng	94
55) Bromobenzene	6.425	156	8859767	276.35 ng	92
56) n-Propylbenzene	6.518	91	37713086	305.94 ng	97
57) 2-Chlorotoluene	6.551	91	25609608	303.30 ng	98
58) 4-Chlorotoluene	6.585	91	26359123m	311.59 ng	
59) 1,3,5-Trimethylbenzene	6.645	105	30781247	312.78 ng	89
60) tert-Butylbenzene	6.757	119	27648778	319.85 ng	92
61) 1,2,4-Trimethylbenzene	6.806	105	29105557	309.60 ng	91
62) sec-Butylbenzene	6.848	105	41729293	318.89 ng	96
63) p-Isopropyltoluene	6.927	119	33631562	316.74 ng	96
64) 1,3-Dichlorobenzene	6.873	146	15076885	290.51 ng	98
65) 1,4-Dichlorobenzene	6.902	146	17261529	264.10 ng	94
67) n-Butylbenzene	7.094	91	28750127	326.74 ng	96
68) 1,2-Dichlorobenzene	7.045	146	16135936	300.09 ng	94
69) 1,2-Dibromo-3-chloropr...	7.243	157	1715377	259.92 ng	91
70) 1,2,4-Trichlorobenzene	7.847	180	12400431	296.71 ng	96
71) Hexachlorobutadiene	7.993	225	7863604	323.51 ng	97
72) Naphthalene	7.961	128	28263991	233.55 ng	97
73) 1,2,3-Trichlorobenzene	8.057	180	12005525	286.39 ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091410IC3.D
Acq On : 14 Sep 2009 15:03
Operator : CTANG
Sample : B909019-BS1
Misc : IC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

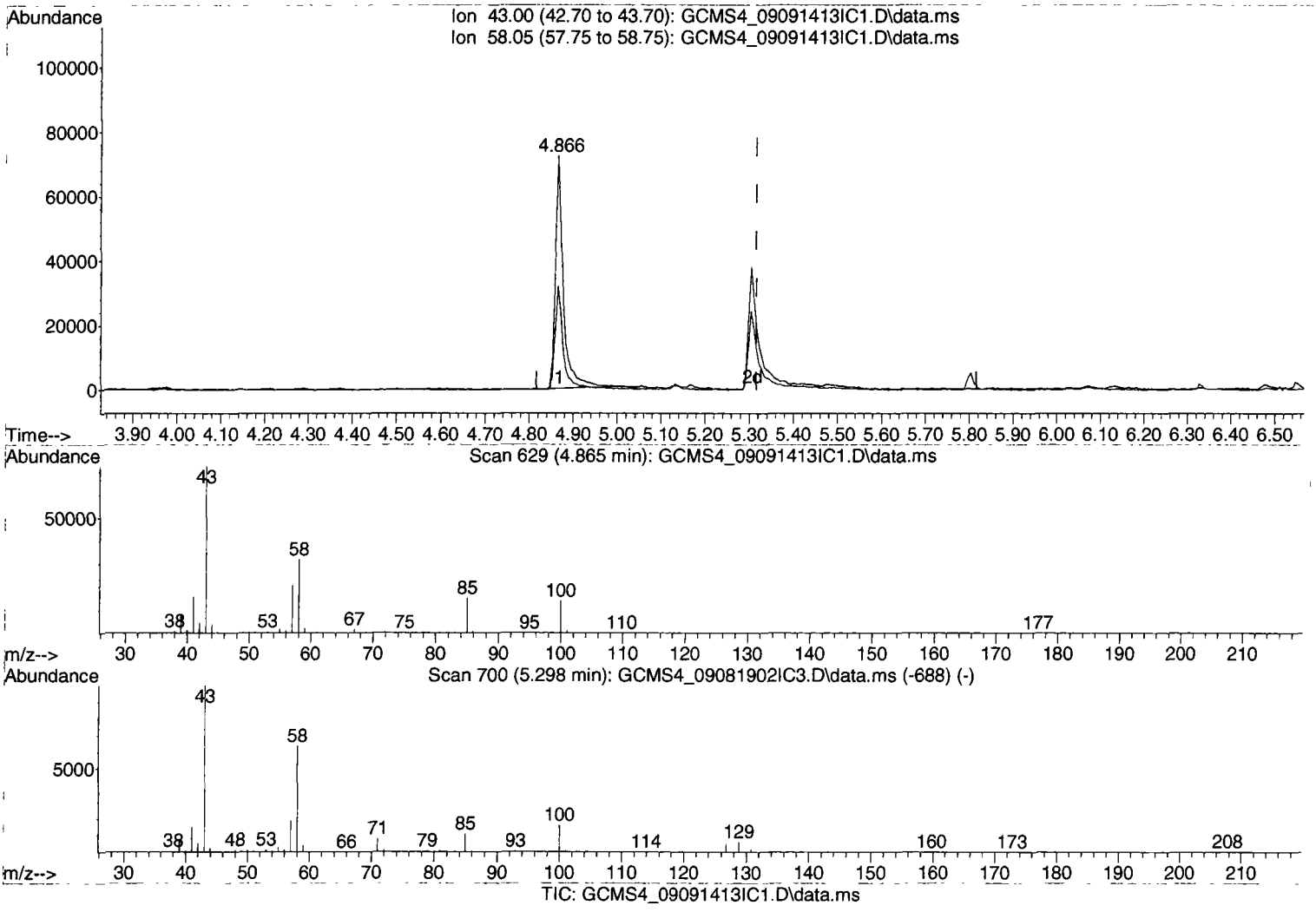
Quant Time: Nov 30 09:50:14 2009
Quant Method : D:\Ctang\Methods\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091413IC1.D
Acq On : 14 Sep 2009 16:04
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 16:14:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.868min (-0.448) 95.99ng

response 917092

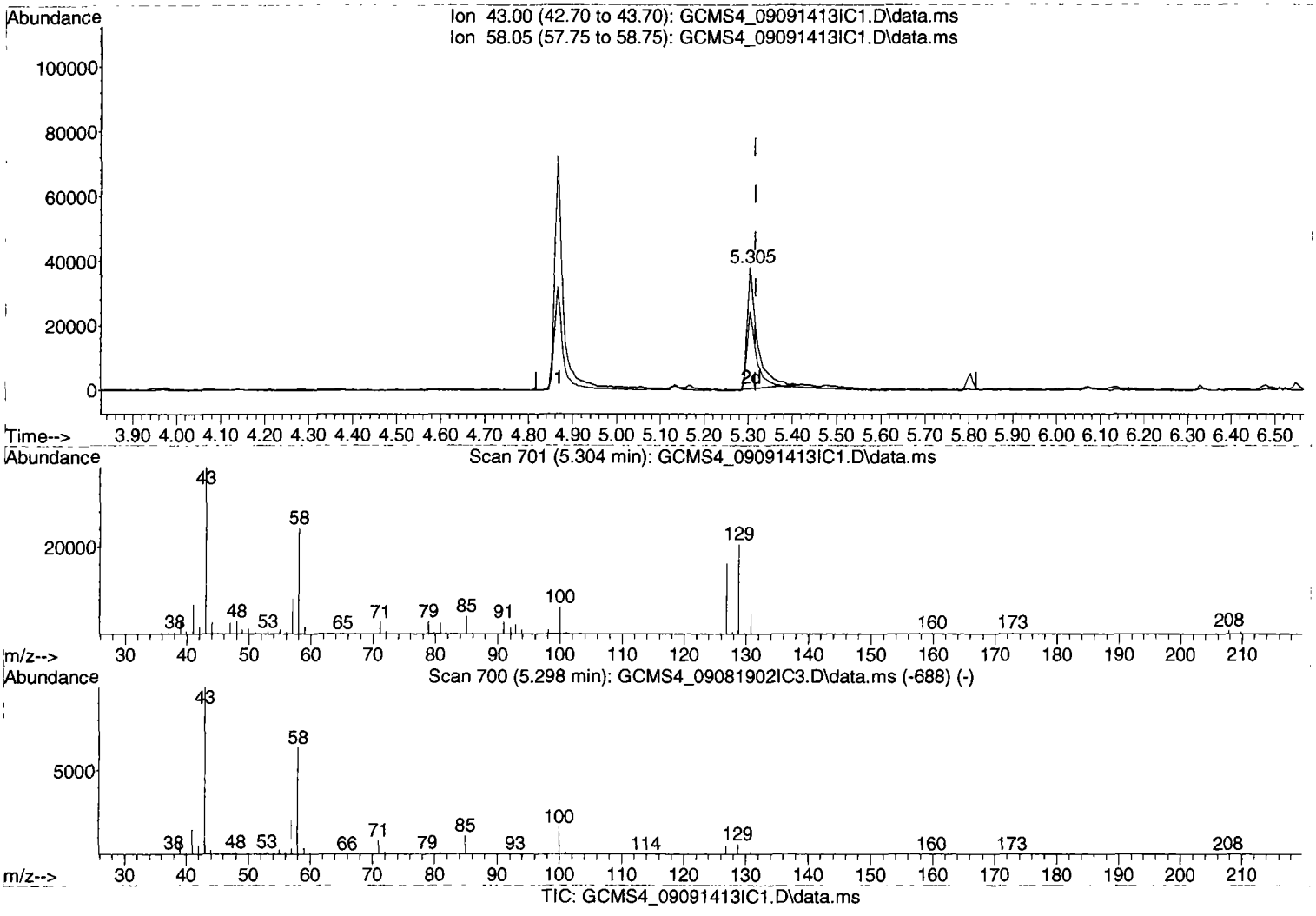
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	44.19
0.00	0.00	0.00
0.00	0.00	0.00

hexane P
CMM 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091413IC1.D
Acq On : 14 Sep 2009 16:04
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 16:14:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.304min (-0.012) 61.91ng m

response 591509

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	68.52#
0.00	0.00	0.00
0.00	0.00	0.00

apt 6
CMM 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091413IC1.D
Acq On : 14 Sep 2009 16:04
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 16:16:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2406751	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	964482	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	866467	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2443698	47.92 ng		0.00
34) TOLUENE-D8	5.137	98	2159761	44.86 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	864174	55.14 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.084	85	217143	19.63 ng		95
3) Chloromethane	1.150	50	683949	37.27 ng		96
4) Vinyl chloride	1.216	62	289012	36.39 ng		100
5) Bromomethane	1.368	94	542931	69.80 ng		96
6) Chloroethane	1.421	64	261537	30.39 ng		94
7) Trichlorofluoromethane	1.658	101	541417	35.36 ng		98
8) Acrolein	1.658	56	104119	140.32 ng		96
9) 1,1-Dichloroethene	1.912	96	368240	28.94 ng		95
10) Acetone	1.716	43	716893	176.05 ng		84
11) Carbon disulfide	2.099	76	994119	41.26 ng		99
12) Methylene chloride	1.991	84	730489	46.96 ng		82
13) Acrylonitrile	1.951	53	877043	154.91 ng		100
14) trans-1,2-Dichloroethene	2.395	96	444974	34.52 ng		91
15) 1,1-Dichloroethane	2.564	63	702142	32.87 ng	#	98
16) 2-Butanone	2.940	43	996658	184.51 ng	#	67
17) cis-1,2-Dichloroethene	3.030	96	499564	32.79 ng		86
18) 2,2-Dichloropropane	3.259	77	429698	53.86 ng		96
19) Bromochloromethane	3.158	128	246356	35.35 ng		99
20) Chloroform	3.207	83	694175	33.39 ng		96
21) 1,1,1-Trichloroethane	3.739	97	521247	52.14 ng		94
22) 1,1-Dichloropropene	3.874	75	549336	33.91 ng		97
23) Carbon tetrachloride	3.970	117	330314	252.91 ng		89
25) 1,2-Dichloroethane	3.684	62	365193	34.77 ng		95
26) Benzene	4.003	78	1884708	34.13 ng		97
27) Trichloroethene	4.394	130	504418	34.47 ng		95
28) 1,2-Dichloropropane	4.366	63	423606	37.51 ng		96
29) Dibromomethane	4.340	174	266678	39.62 ng		97
30) Bromodichloromethane	4.417	83	414383	57.52 ng		94
32) cis-1,3-Dichloropropene	4.785	75	472638	71.27 ng		97
33) 4-Methyl-2-pentanone	4.868	43	934009	71.23 ng	#	95
35) Toluene	5.172	91	1998290	33.18 ng		99
36) trans-1,3-Dichloropropene	5.015	75	366645	58.38 ng		98
37) 1,1,2-Trichloroethane	5.080	97	398459	37.45 ng		96
38) 1,3-Dichloropropane	5.200	76	680552	45.29 ng		92
39) Tetrachloroethene	5.513	166	526745	33.20 ng		99
40) 2-Hexanone	5.304	43	591509m	61.91 ng		
41) Dibromochloromethane	5.312	129	323646	63.71 ng	#	85
42) 1,2-Dibromoethane	5.427	107	387953	39.01 ng		91
44) Chlorobenzene	5.821	112	1306402	39.66 ng		97
45) 1,1,1,2-Tetrachloroethane	5.788	131	404883	58.23 ng		91
46) Ethylbenzene	5.917	91	2238208	41.45 ng		99
47) m- &/or p-Xylene	6.005	91	3908519	95.72 ng		99
48) o-Xylene	6.174	91	2007463	46.59 ng		94
49) Styrene	6.147	104	1670091	46.18 ng	#	74
50) Bromoform	6.035	173	216874	48.06 ng		86

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091413IC1.D
Acq On : 14 Sep 2009 16:04
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 16:16:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration

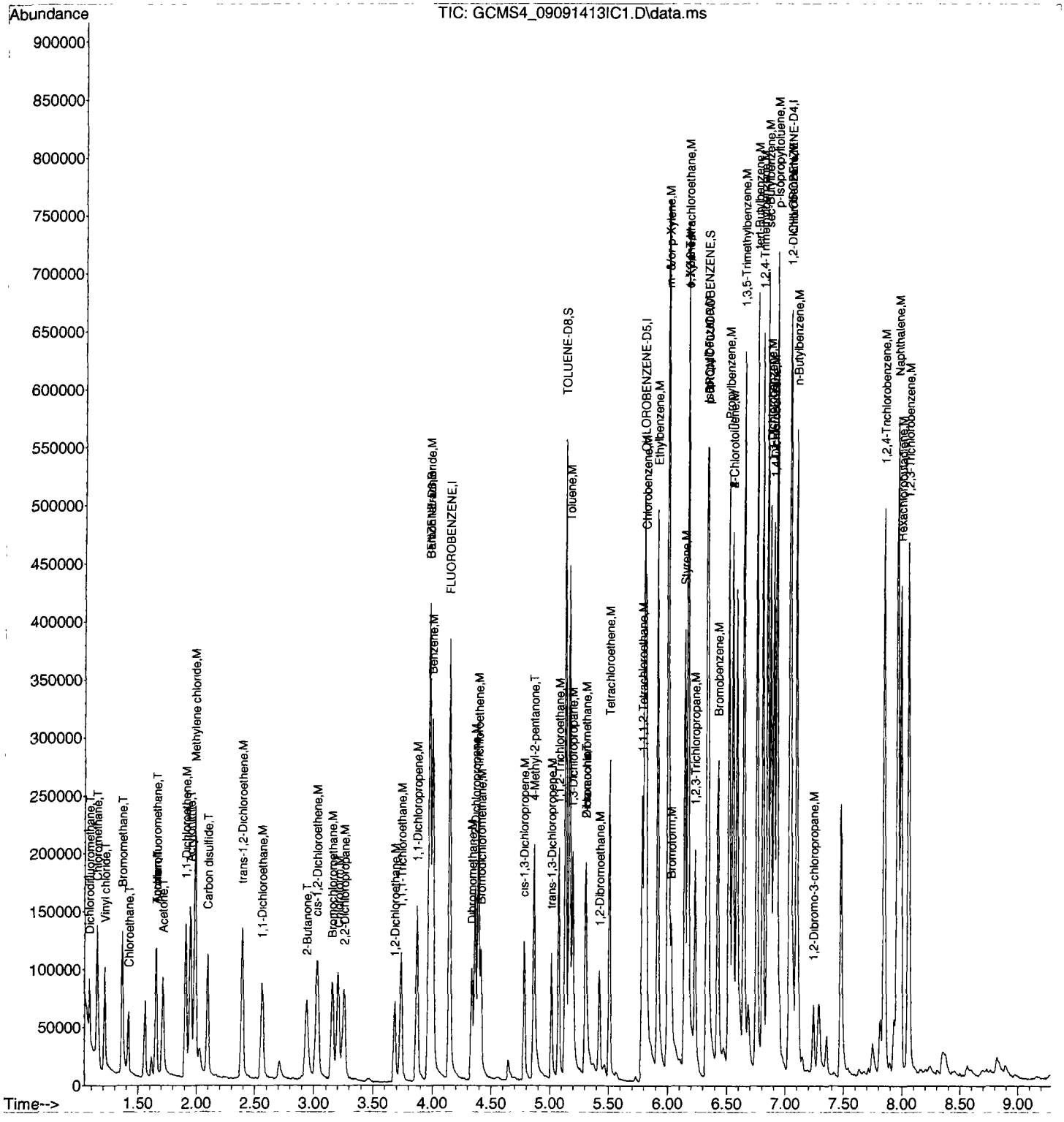
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.333	105	2339368	46.75 ng	95
53) 1,1,2,2-Tetrachloroethane	6.172	83	578918	45.94 ng	91
54) 1,2,3-Trichloropropane	6.234	75	453515	40.02 ng	96
55) Bromobenzene	6.428	156	666466	44.82 ng	92
56) n-Propylbenzene	6.520	91	2304517	40.70 ng	90
57) 2-Chlorotoluene	6.553	91	1798366	47.35 ng	98
58) 4-Chlorotoluene	6.552	91	1795398	46.72 ng	98
59) 1,3,5-Trimethylbenzene	6.647	105	2077601	48.57 ng	90
60) tert-Butylbenzene	6.758	119	1748463	47.10 ng	94
61) 1,2,4-Trimethylbenzene	6.807	105	1999795	46.04 ng	90
62) sec-Butylbenzene	6.849	105	2914068	54.11 ng	98
63) p-Isopropyltoluene	6.928	119	2264587	48.84 ng	95
64) 1,3-Dichlorobenzene	6.875	146	1057055	40.71 ng	98
65) 1,4-Dichlorobenzene	6.904	146	1655991	56.46 ng	95
67) n-Butylbenzene	7.097	91	2321118	57.33 ng	96
68) 1,2-Dichlorobenzene	7.048	146	1310056	48.23 ng	96
69) 1,2-Dibromo-3-chloropr...	7.246	157	115732	37.51 ng	83
70) 1,2,4-Trichlorobenzene	7.850	180	1115316	61.01 ng	97
71) Hexachlorobutadiene	7.994	225	555758	65.99 ng	99
72) Naphthalene	7.964	128	3391112	65.28 ng	97
73) 1,2,3-Trichlorobenzene	8.059	180	1103143	60.62 ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091413IC1.D
Acq On : 14 Sep 2009 16:04
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 14 16:16:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Wed Aug 19 13:47:57 2009
Response via : Initial Calibration



Response Factor Report GCMS04

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090914.M
Title :
Last Update : Mon Sep 14 16:36:00 2009
Response Via : Initial Calibration

Calibration Files
3 =GCMS4 09091410IC3.D 5 =GCMS4 09091404IC5.D 4 =GCMS4 09091405IC4.D
2 =GCMS4_09091406IC2.D 1 =GCMS4_09091413IC1.D 6 =GCMS4_09091403IC6.D

		Compound	3	5	4	2	1	6	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	T	Dichlorodifluo...	0.101	0.119	0.120	0.110	0.090	0.127	0.111	12.27
3)	T	Chloromethane	0.229	0.278	0.298	0.311	0.284	0.272	0.279	10.15
4)	T	Vinyl chloride	0.079		0.030	0.113	0.120		0.085	48.16
5)	T	Bromomethane	0.118	0.074	0.116	0.212		0.050	0.114	54.20
6)	T	Chloroethane	0.107	0.082	0.110	0.132	0.109	0.081	0.103	18.76
7)	T	Trichlorofluor...	0.238	0.249	0.271	0.263	0.225	0.259	0.251	6.72
8)	T	Acrolein	0.022	0.016	0.028	0.020	0.017	0.013	0.019	27.35
9)	M	1,1-Dichloroet...	0.502	0.340	0.459	0.275	0.306	0.248	0.355	28.97
10)	T	Acetone	0.143	0.106	0.185	0.153	0.119	0.089	0.133	26.41
11)	T	Carbon disulfide	1.305	1.002	1.350	0.784	0.826	0.718	0.997	27.32
12)	M	Methylene chlo...	0.591	0.447	0.660	0.456	0.607	0.345	0.518	23.25
13)	T	Acrylonitrile	0.183	0.143	0.302	0.203	0.146	0.120	0.183	35.96
14)	M	trans-1,2-Dich...	0.538	0.409	0.552	0.331	0.370	0.303	0.417	25.24
15)	M	1,1-Dichloroet...	0.881	0.654	0.914	0.562	0.583	0.502	0.683	25.44
16)	T	2-Butanone	0.213	0.171	0.291	0.238	0.166	0.148	0.204	26.31
17)	M	cis-1,2-Dichlo...	0.618	0.456	0.646	0.416	0.415	0.353	0.484	24.70
18)	M	2,2-Dichloropr...	0.497	0.345	0.463	0.297	0.357	0.253	0.369	25.57
19)	M	Bromochloromet...	0.262	0.201	0.304	0.218	0.205	0.168	0.226	21.61
20)	M	Chloroform	0.883	0.643	0.917	0.580	0.577	0.501	0.683	25.48
21)	M	1,1,1-Trichlor...	0.646	0.435	0.586	0.365	0.433	0.318	0.464	27.41
22)	M	1,1-Dichloropr...	0.731	0.528	0.686	0.395	0.456	0.382	0.530	28.03
23)	M	Carbon tetrach...	0.431	0.274	0.361	0.241	0.274	0.187	0.295	29.70
24)	S	BENZENE-D6	1.261	1.527	1.457	1.061	1.015	1.451	1.295	16.86
25)	M	1,2-Dichloroet...	0.452	0.365	0.547	0.347	0.303	0.312	0.388	24.28
26)	M	Benzene	2.320	1.605	2.259	1.472	1.566	1.231	1.742	25.48
27)	M	Trichloroethene	0.635	0.451	0.607	0.376	0.419	0.334	0.470	26.24
28)	M	1,2-Dichloropr...	0.489	0.341	0.491	0.355	0.352	0.273	0.384	22.84
29)	M	Dibromomethane	0.263	0.200	0.310	0.252	0.222	0.175	0.237	20.34
30)	M	Bromodichlorom...	0.513	0.366	0.542	0.369	0.344	0.293	0.405	24.54
31)	T	2-Chloroethyl ...							0.000	-1.00
32)	M	cis-1,3-Dichlo...	0.517	0.371	0.542	0.419	0.393	0.306	0.425	21.16
33)	T	4-Methyl-2-pen...	0.511	0.372	0.616	0.532	0.388	0.315	0.456	25.24
34)	S	TOLUENE-D8	0.940	0.970	0.977	0.909	0.897	0.974	0.945	3.68
35)	M	Toluene	2.513	1.653	2.308	1.593	1.661	1.238	1.827	26.37
36)	M	trans-1,3-Dich...	0.470	0.343	0.506	0.400	0.305	0.285	0.385	23.33
37)	M	1,1,2-Trichlor...	0.441	0.298	0.463	0.374	0.331	0.251	0.360	22.92
38)	M	1,3-Dichloropr...	0.705	0.482	0.734	0.634	0.566	0.411	0.589	21.52
39)	M	Tetrachloroethene	0.712	0.482	0.616	0.387	0.438	0.343	0.496	28.48
40)	T	2-Hexanone	0.322	0.278	0.459	0.421	0.246	0.229	0.326	29.03
41)	M	Dibromochlorom...	0.400	0.264	0.406	0.336	0.269	0.215	0.315	24.89
42)	M	1,2-Dibromoethane	0.388	0.264	0.415	0.398	0.322	0.217	0.334	24.07
43)	I	CHLOROBENZENE-D5	----------ISTD----------							
44)	M	Chlorobenzene	3.213	2.695	2.688	2.670	2.709	2.040	2.669	13.96
45)	M	1,1,1,2-Tetrac...	1.066	0.934	0.934	0.896	0.840	0.722	0.899	12.73
46)	M	Ethylbenzene	5.384	4.410	4.097	4.195	4.641	3.152	4.313	16.95
47)	M	m- &/or p-Xylene	4.203	3.094	2.996	3.566	4.052	2.158	3.345	22.69
48)	M	o-Xylene	4.228	3.420	3.319	3.749	4.163	2.480	3.560	18.16
49)	M	Styrene	3.473	2.945	2.894	3.274	3.463	2.237	3.048	15.36
50)	M	Bromoform	0.625	0.574	0.617	0.648	0.450	0.483	0.566	14.41
51)	M	Isopropylbenzene	5.302	4.104	4.064	4.182	4.851	2.997	4.250	18.52
52)	S	p-BROMOFLUOROB...	0.641	0.802	0.551	0.831	0.896	0.811	0.755	17.30
53)	M	1,1,2,2-Tetrac...	1.058	0.902	1.013	1.265	1.200	0.765	1.034	17.92
54)	M	1,2,3-Trichlor...	0.926	0.863	0.957	1.144	0.940	0.739	0.928	14.25
55)	M	Bromobenzene	1.364	1.206	1.192	1.323	1.382	0.938	1.234	13.43
56)	M	n-Propylbenzene	5.810	4.596	4.296	4.217	4.779	4.775	4.745	12.06
57)	M	2-Chlorotoluene	3.941	3.187	3.036	3.207	3.729	2.404	3.251	16.71

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090914.M
Title :

58)	M	4-Chlorotoluene	3.877	3.259	3.084	3.206	3.723	2.390	3.257	16.16
59)	M	1,3,5-Trimethy...	4.747	3.673	3.518	3.772	4.308	2.712	3.789	18.42
60)	M	tert-Butylbenzene	4.256	3.265	3.128	3.305	3.626	2.386	3.328	18.43
61)	M	1,2,4-Trimethy...	4.481	3.450	3.363	3.686	4.147	2.586	3.619	18.28
62)	M	sec-Butylbenzene	6.429	4.765	4.576	5.002	6.043	3.410	5.037	21.53
63)	M	p-Isopropyltol...	5.182	4.019	3.743	3.979	4.696	2.905	4.088	19.26
64)	M	1,3-Dichlorobe...	2.327	2.010	1.903	2.018	2.192	1.536	1.998	13.60
65)	M	1,4-Dichlorobe...	2.653	2.265	2.205	2.825	3.434	1.715	2.516	23.57
66)	I	1,2-DICHLOROBENZEN...	----------ISTD----------							
67)	M	n-Butylbenzene	6.076	4.002	5.109	4.552	5.358	2.778	4.646	24.88
68)	M	1,2-Dichlorobe...	3.410	2.392	3.332	3.019	3.024	1.856	2.839	21.14
69)	M	1,2-Dibromo-3-...	0.362	0.304	0.487	0.410	0.267	0.259	0.348	25.63
70)	M	1,2,4-Trichlor...	2.621	1.810	2.440	2.442	2.574	1.352	2.207	23.15
71)	M	Hexachlorobuta...	1.662	1.155	1.469	1.316	1.283	0.815	1.283	22.42
72)	M	Naphthalene	5.977	4.094	6.246	7.802	7.827		6.389	24.15
73)	M	1,2,3-Trichlor...	2.536	1.768	2.482	2.598	2.546	1.350	2.213	23.74

(#) = Out of Range

Response Factor Report GCMS04

Method Path : D:\Ctang\Methods\
Method File : GCMS4_090914.M
Title :
Last Update : Tue Sep 15 12:39:47 2009
Response Via : Initial Calibration

Calibration Files
3 =GCMS4 09091410IC3.D 5 =GCMS4 09091404IC5.D 4 =GCMS4 09091405IC4.D
2 =GCMS4_09091406IC2.D 1 =GCMS4_09091413IC1.D 6 =GCMS4_09091403IC6.D

		Compound	3	5	4	2	1	6	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	T	Dichlorodifluo...	0.101	0.119	0.120	0.110	0.090	0.127	0.111	12.27
3)	T	Chloromethane	0.229	0.278	0.298	0.311	0.284	0.272	0.279	10.15
4)	T	Vinyl chloride	0.079		0.030	0.113	0.120		0.085	48.16
5)	T	Bromomethane	0.118	0.074	0.116	0.212		0.050	0.114	54.20
6)	T	Chloroethane	0.107	0.082	0.110	0.132	0.109	0.081	0.103	18.76
7)	T	Trichlorofluor...	0.238	0.249	0.271	0.263	0.225	0.259	0.251	6.72
8)	T	Acrolein	0.022	0.016	0.028	0.020	0.017	0.013	0.019	27.35
9)	M	1,1-Dichloroet...	0.502	0.340	0.459	0.275	0.306	0.248	0.355	28.97
10)	T	Acetone	0.143	0.106	0.185	0.153	0.119	0.089	0.133	26.41
11)	T	Carbon disulfide	1.305	1.002	1.350	0.784	0.826	0.718	0.997	27.32
12)	M	Methylene chlo...	0.591	0.447	0.660	0.456	0.607	0.345	0.518	23.25
13)	T	Acrylonitrile	0.183	0.143	0.302	0.203	0.146	0.120	0.183	35.96
14)	M	trans-1,2-Dich...	0.538	0.409	0.552	0.331	0.370	0.303	0.417	25.24
15)	M	1,1-Dichloroet...	0.881	0.654	0.914	0.562	0.583	0.502	0.683	25.44
16)	T	2-Butanone	0.213	0.171	0.291	0.238	0.166	0.148	0.204	26.31
17)	M	cis-1,2-Dichlo...	0.618	0.456	0.646	0.416	0.415	0.353	0.484	24.70
18)	M	2,2-Dichloropr...	0.497	0.345	0.463	0.297	0.357	0.253	0.369	25.57
19)	M	Bromochloromet...	0.262	0.201	0.304	0.218	0.205	0.168	0.226	21.61
20)	M	Chloroform	0.883	0.643	0.917	0.580	0.577	0.501	0.683	25.48
21)	M	1,1,1-Trichlor...	0.646	0.435	0.586	0.365	0.433	0.318	0.464	27.41
22)	M	1,1-Dichloropr...	0.731	0.528	0.686	0.395	0.456	0.382	0.530	28.03
23)	M	Carbon tetrach...	0.431	0.274	0.361	0.241	0.274	0.187	0.295	29.70
24)	S	BENZENE-D6	1.261	1.527	1.457	1.061	1.015	1.451	1.295	16.86
25)	M	1,2-Dichloroet...	0.452	0.365	0.547	0.347	0.303	0.312	0.388	24.28
26)	M	Benzene	2.320	1.605	2.259	1.472	1.566	1.231	1.742	25.48
27)	M	Trichloroethene	0.635	0.451	0.607	0.376	0.419	0.334	0.470	26.24
28)	M	1,2-Dichloropr...	0.489	0.341	0.491	0.355	0.352	0.273	0.384	22.84
29)	M	Dibromomethane	0.263	0.200	0.310	0.252	0.222	0.175	0.237	20.34
30)	M	Bromodichlorom...	0.513	0.366	0.542	0.369	0.344	0.293	0.405	24.54
31)	T	2-Chloroethyl ...							0.000	-1.00
32)	M	cis-1,3-Dichlo...	0.517	0.371	0.542	0.419	0.393	0.306	0.425	21.16
33)	T	4-Methyl-2-pen...	0.511	0.372	0.616	0.532	0.388	0.315	0.456	25.24
34)	S	TOLUENE-D8	0.940	0.970	0.977	0.909	0.897	0.974	0.945	3.68
35)	M	Toluene	2.513	1.653	2.308	1.593	1.661	1.238	1.827	26.37
36)	M	trans-1,3-Dich...	0.470	0.343	0.506	0.400	0.305	0.285	0.385	23.33
37)	M	1,1,2-Trichlor...	0.441	0.298	0.463	0.374	0.331	0.251	0.360	22.92
38)	M	1,3-Dichloropr...	0.705	0.482	0.734	0.634	0.566	0.411	0.589	21.52
39)	M	Tetrachloroethene	0.712	0.482	0.616	0.387	0.438	0.343	0.496	28.48
40)	T	2-Hexanone	0.322	0.278	0.459	0.421	0.246	0.229	0.326	29.03
41)	M	Dibromochlorom...	0.400	0.264	0.406	0.336	0.269	0.215	0.315	24.89
42)	M	1,2-Dibromoethane	0.388	0.264	0.415	0.398	0.322	0.217	0.334	24.07
43)	I	CHLOROBENZENE-D5	----------ISTD----------							
44)	M	Chlorobenzene	3.213	2.695	2.688	2.670	2.709	2.040	2.669	13.96
45)	M	1,1,1,2-Tetrac...	1.066	0.934	0.934	0.896	0.840	0.722	0.899	12.73
46)	M	Ethylbenzene	5.384	4.410	4.097	4.195	4.641	3.152	4.313	16.95
47)	M	m- &/or p-Xylene	4.203	3.094	2.996	3.566	4.052	2.158	3.345	22.69
48)	M	o-Xylene	4.228	3.420	3.319	3.749	4.163	2.480	3.560	18.16
49)	M	Styrene	3.473	2.945	2.894	3.274	3.463	2.237	3.048	15.36
50)	M	Bromoform	0.625	0.574	0.617	0.648	0.450	0.483	0.566	14.41
51)	M	Isopropylbenzene	5.302	4.104	4.064	4.182	4.851	2.997	4.250	18.52
52)	S	p-BROMOFLUOROB...	0.641	0.802	0.551	0.831	0.896	0.811	0.755	17.30
53)	M	1,1,2,2-Tetrac...	1.058	0.902	1.013	1.265	1.200	0.765	1.034	17.92
54)	M	1,2,3-Trichlor...	0.926	0.863	0.957	1.144	0.940	0.739	0.928	14.25
55)	M	Bromobenzene	1.364	1.206	1.192	1.323	1.382	0.938	1.234	13.43
56)	M	n-Propylbenzene	5.810	4.596	4.296	4.217	4.779	4.775	4.745	12.06
57)	M	2-Chlorotoluene	3.941	3.187	3.036	3.207	3.729	2.404	3.251	16.71

Method Path : D:\Ctang\Methods\
Method File : GCMS4_090914.M
Title :

58)	M	4-Chlorotoluene	3.877	3.259	3.084	3.206	3.723	2.390	3.257	16.16
59)	M	1,3,5-Trimethy...	4.747	3.673	3.518	3.772	4.308	2.712	3.789	18.42
60)	M	tert-Butylbenzene	4.256	3.265	3.128	3.305	3.626	2.386	3.328	18.43
61)	M	1,2,4-Trimethy...	4.481	3.450	3.363	3.686	4.147	2.586	3.619	18.28
62)	M	sec-Butylbenzene	6.429	4.765	4.576	5.002	6.043	3.410	5.037	21.53
63)	M	p-Isopropyltol...	5.182	4.019	3.743	3.979	4.696	2.905	4.088	19.26
64)	M	1,3-Dichlorobe...	2.327	2.010	1.903	2.018	2.192	1.536	1.998	13.60
65)	M	1,4-Dichlorobe...	2.653	2.265	2.205	2.825	3.434	1.715	2.516	23.57
66)	I	1,2-DICHLOROBENZEN...	----------ISTD----------							
67)	M	n-Butylbenzene	6.076	4.002	5.109	4.552	5.358	2.778	4.646	24.88
68)	M	1,2-Dichlorobe...	3.410	2.392	3.332	3.019	3.024	1.856	2.839	21.14
69)	M	1,2-Dibromo-3-...	0.362	0.304	0.487	0.410	0.267	0.259	0.348	25.63
70)	M	1,2,4-Trichlor...	2.621	1.810	2.440	2.442	2.574	1.352	2.207	23.15
71)	M	Hexachlorobuta...	1.662	1.155	1.469	1.316	1.283	0.815	1.283	22.42
72)	M	Naphthalene	5.977	4.094	6.246	7.802	7.827		6.389	24.15
73)	M	1,2,3-Trichlor...	2.536	1.768	2.482	2.598	2.546	1.350	2.213	23.74

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091412BLK.D
Acq On : 14 Sep 2009 15:44
Operator : CTANG
Sample : LAB BLANK
Misc : LIMS # 9040601
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 17:24:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

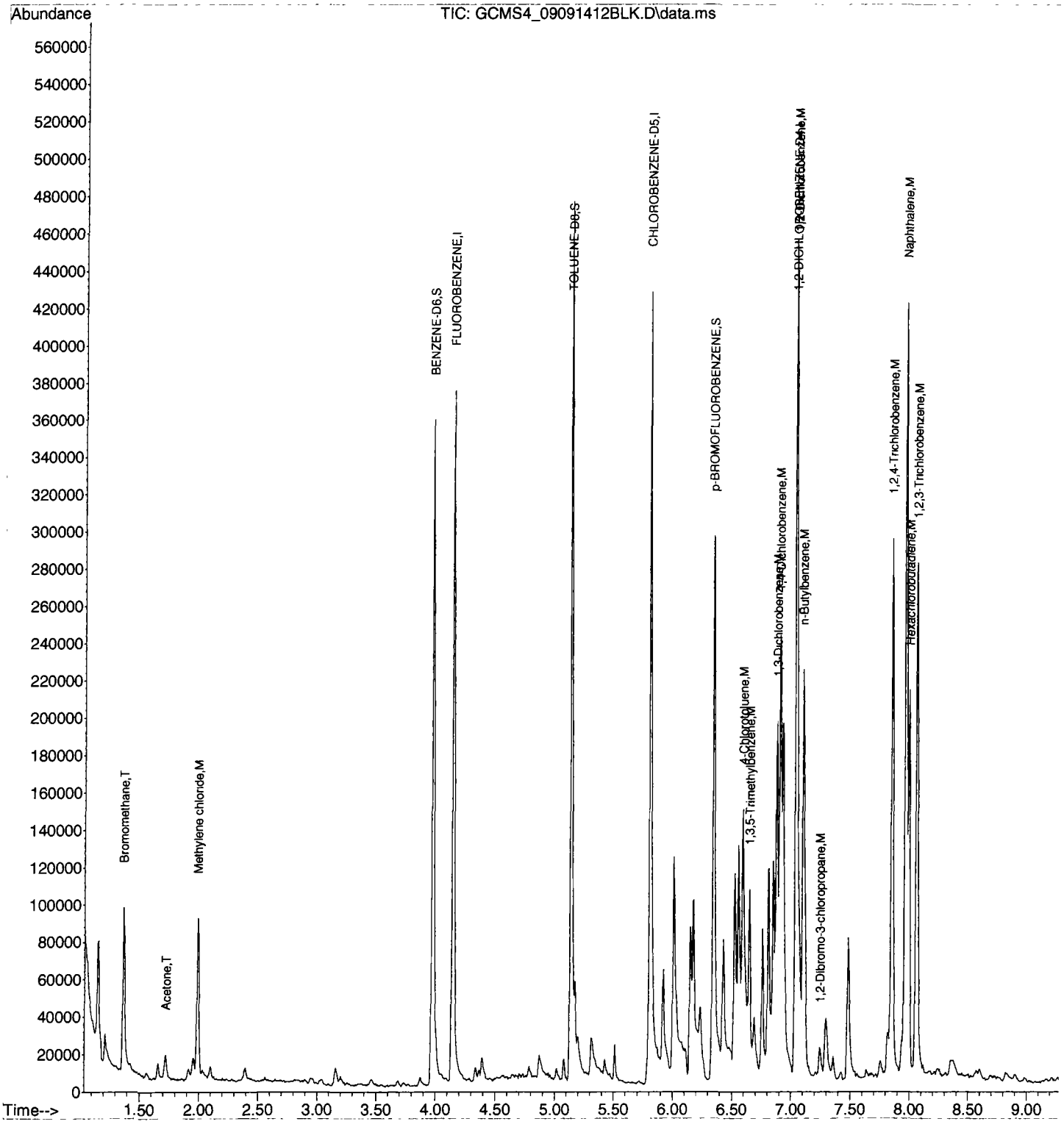
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.149	96	2327807	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.807	82	903238	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.040	152	802185	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.978	84	2288297	37.94 ng	0.00
34) TOLUENE-D8	5.139	98	2093087	47.60 ng	0.00
52) p-BROMOFLUOROBENZENE	6.347	95	804469	58.95 ng	0.00
Target Compounds					Qvalue
5) Bromomethane	1.371	94	421270	79.20 ng	94
10) Acetone	1.721	43	118409	19.19 ng	88
12) Methylene chloride	1.994	84	293106	12.16 ng	79
58) 4-Chlorotoluene	6.593	91	1242376	21.12 ng	97
59) 1,3,5-Trimethylbenzene	6.650	105	383531	5.60 ng	98
64) 1,3-Dichlorobenzene	6.879	146	462334	12.81 ng	98
65) 1,4-Dichlorobenzene	6.908	146	1160164	25.52 ng	93
67) n-Butylbenzene	7.102	91	1168928	15.68 ng	95
68) 1,2-Dichlorobenzene	7.051	146	644076	14.14 ng	96
69) 1,2-Dibromo-3-chloropr...	7.250	157	38022	6.80 ng	77
70) 1,2,4-Trichlorobenzene	7.852	180	734468	20.75 ng	95
71) Hexachlorobutadiene	7.995	225	268914	13.06 ng	94
72) Naphthalene	7.967	128	2668226	26.03 ng	97
73) 1,2,3-Trichlorobenzene	8.060	180	747242	21.04 ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091412BLK.D
Acq On : 14 Sep 2009 15:44
Operator : CTANG
Sample : LAB BLANK
Misc : LIMS # 9040601
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 14 17:24:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091414BLK.D
Acq On : 14 Sep 2009 16:35
Operator : CTANG
Sample : B909019-BLK1
Misc : LIMS # 9040601
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 17:28:15 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.149	96	2413098	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.808	82	1012713	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.040	152	888808	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.978	84	2389609	38.22 ng	0.00
34) TOLUENE-D8	5.139	98	2190825	48.06 ng	0.00
52) p-BROMOFLUOROBENZENE	6.347	95	860564	56.24 ng	0.00
Target Compounds					Qvalue
5) Bromomethane	1.370	94	279819	50.75 ng	93
12) Methylene chloride	1.993	84	265723	10.63 ng	79
~~33) 4-Methyl-2-pentanone~~	~~5.329~~	~~43~~	~~13114~~	~~Below Cal~~	~~# 1~~

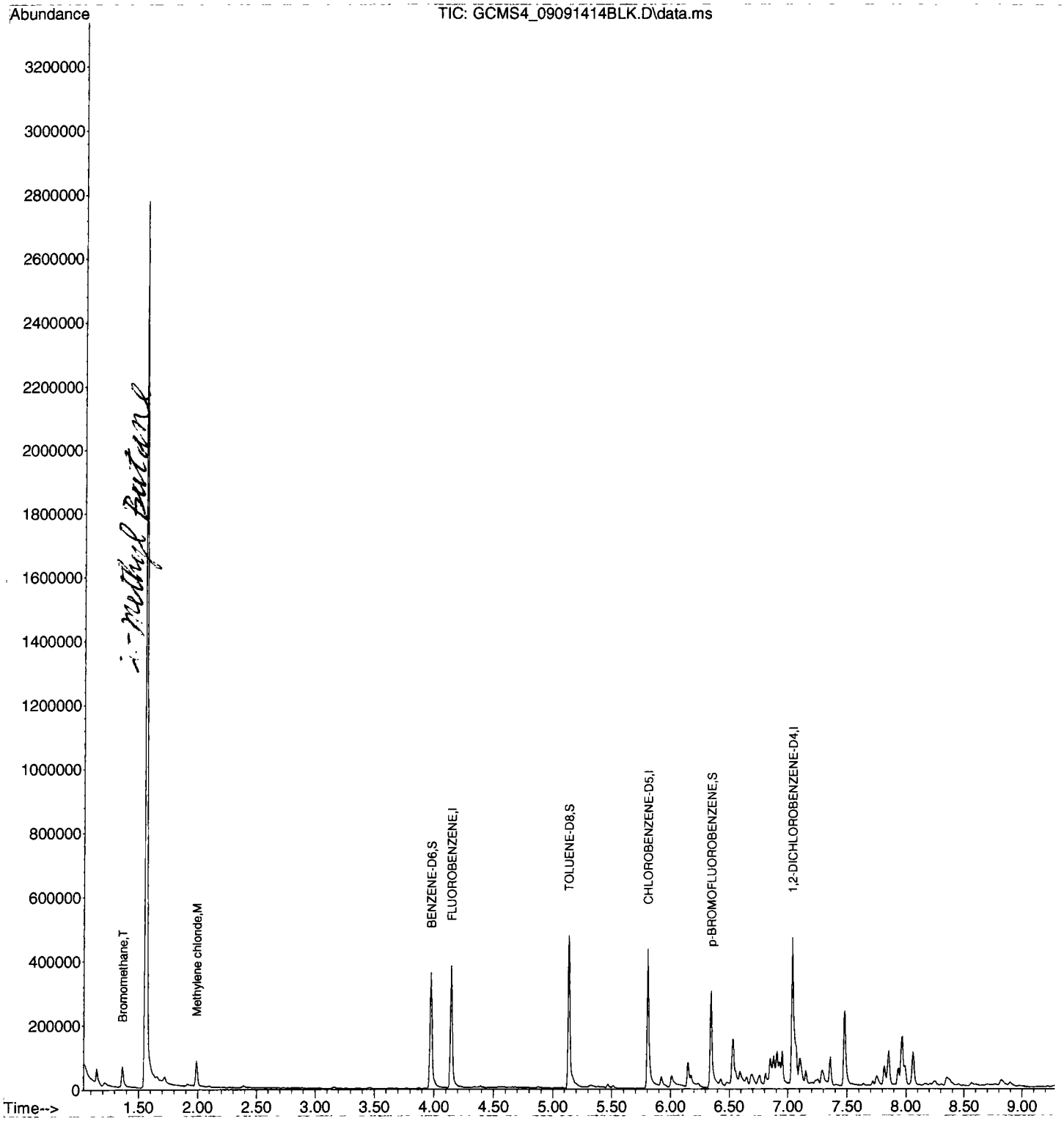
emy 9/25/09

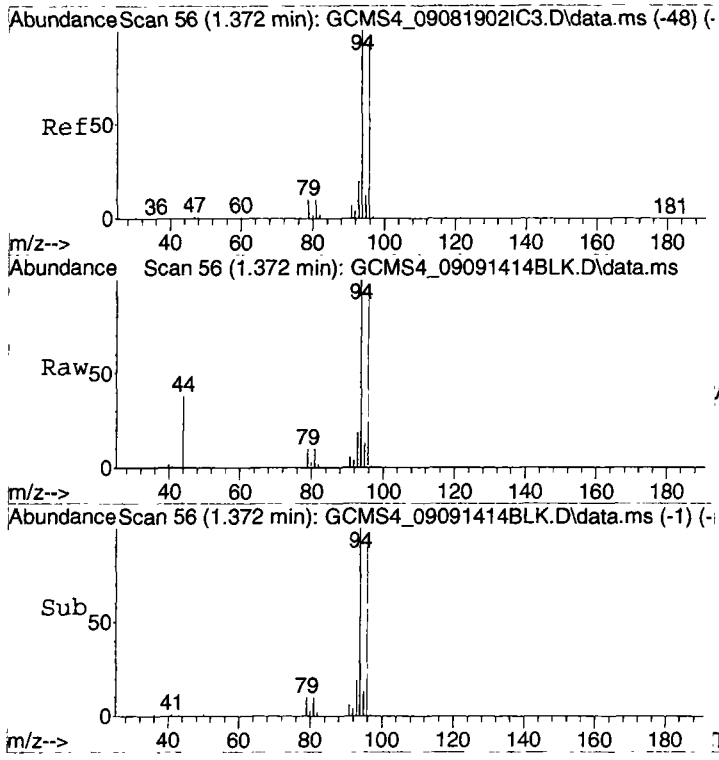
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091414BLK.D
Acq On : 14 Sep 2009 16:35
Operator : CTANG
Sample : B909019-BLK1
Misc : LIMS # 9040601
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 14 17:28:15 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

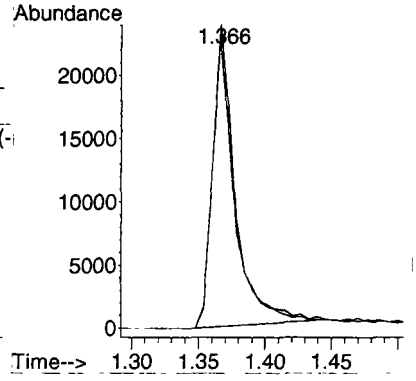


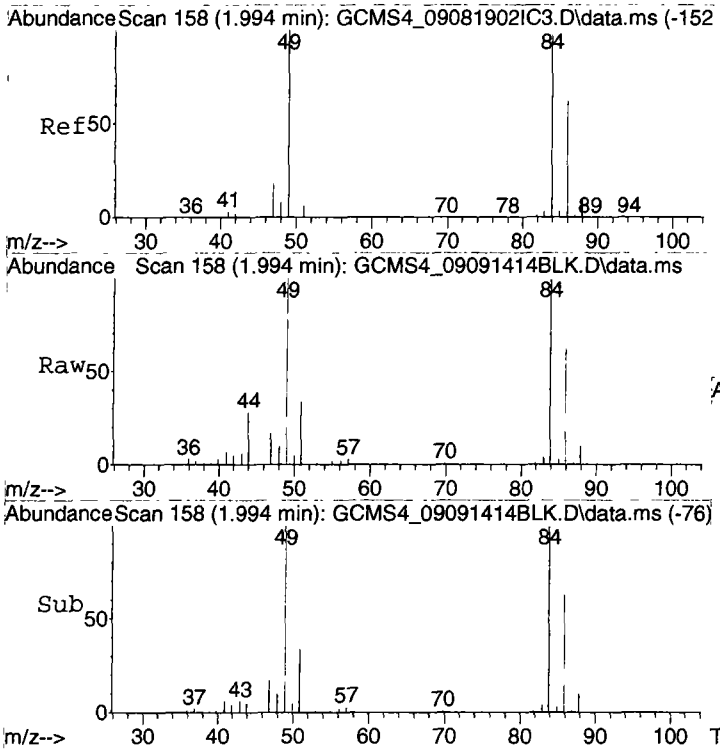


#5
Bromomethane
Concen: 50.75 ng
RT: 1.370 min Scan# 56
Delta R.T. 0.002 min
Lab File: GCMS4 09091414BLK.D
Acq: 14 Sep 2009 16:35

Tgt Ion: 94 Resp: 279819

Ion	Ratio	Lower	Upper
94	100		
96	101.7	61.7	128.3

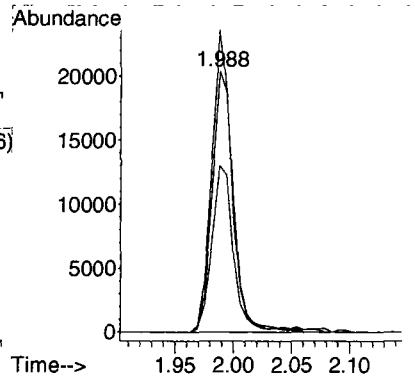




#12
Methylene chloride
Concen: 10.63 ng
RT: 1.993 min Scan# 158
Delta R.T. 0.002 min
Lab File: GCMS4_09091414BLK.D
Acq: 14 Sep 2009 16:35

Tgt Ion: 84 Resp: 265723

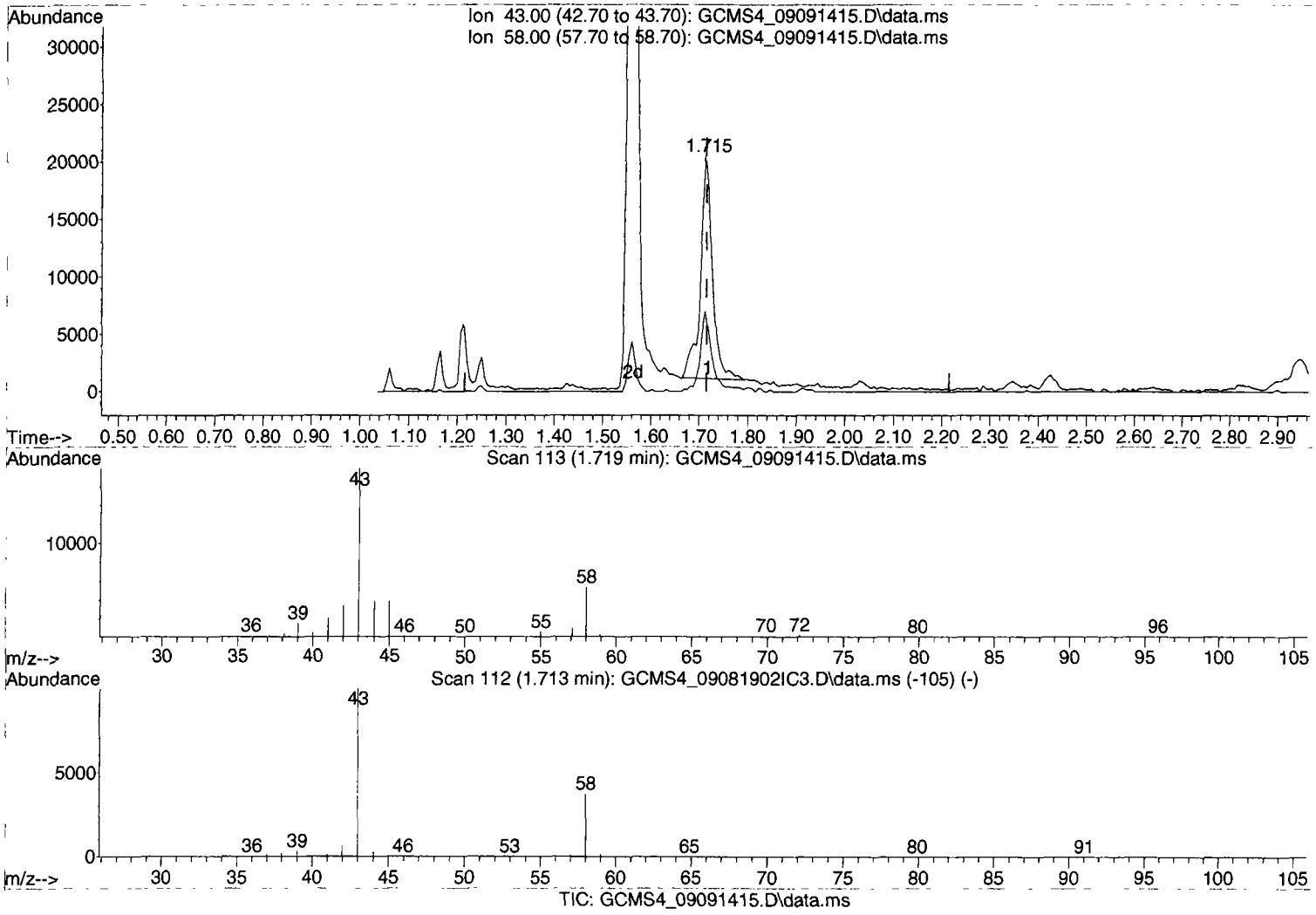
Ion	Ratio	Lower	Upper
84	100		
86	63.7	39.1	81.3
49	105.5	90.5	188.1



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091415.D
Acq On : 14 Sep 2009 16:56
Operator : CTANG
Sample : 0909005-03
Misc : T27-125-3.0-4.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 17:33:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(10) Acetone (T)

1.717min (+0.002) 55.38ng

response 329143

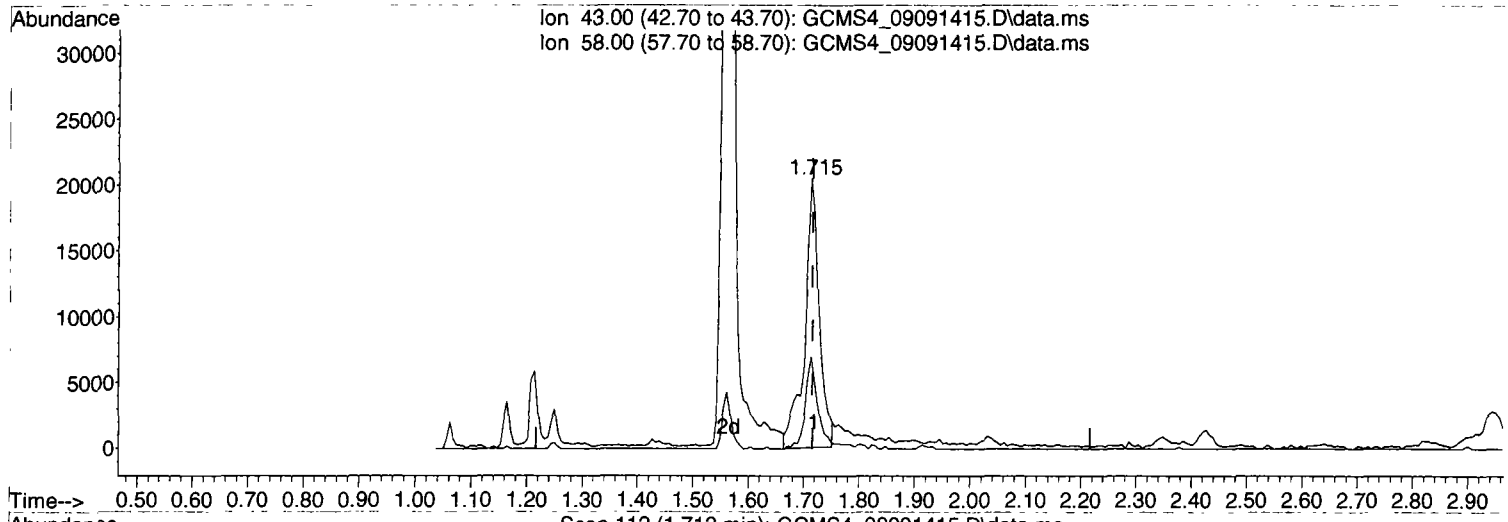
Ion	Exp%	Act%
43.00	100	100
58.00	30.00	36.74
0.00	0.00	0.00
0.00	0.00	0.00

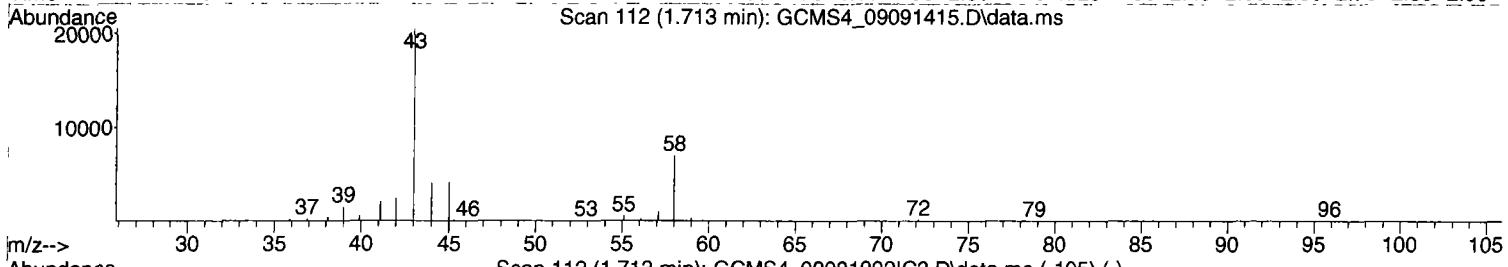
Lepre IB
CMY 9/25/09

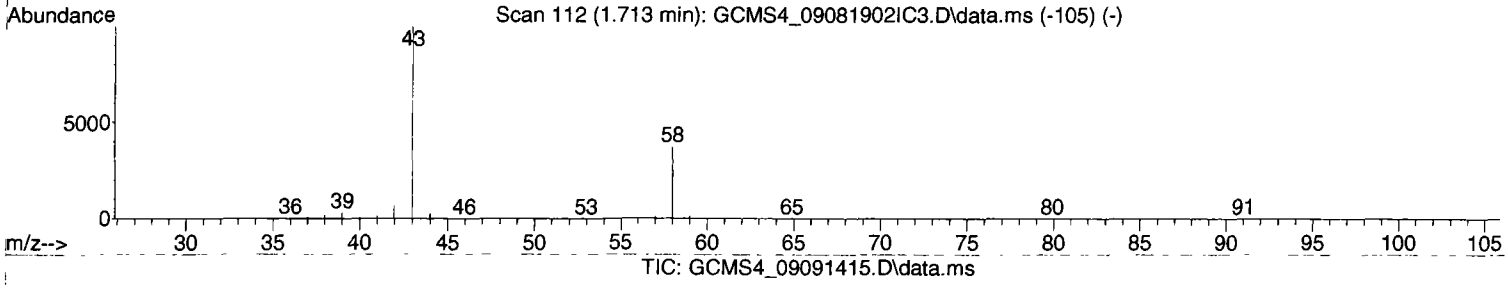
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091415.D
Acq On : 14 Sep 2009 16:56
Operator : CTANG
Sample : 0909005-03
Misc : T27-125-3.0-4.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 14 17:33:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration







TIC: GCMS4_09091415.D\data.ms

(10) Acetone (T)

1.713min (-0.002) 63.29ng m

response 376108

Ion	Exp%	Act%
43.00	100	100
58.00	30.00	32.15
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091415.D
Acq On : 14 Sep 2009 16:56
Operator : CTANG
Sample : 0909005-03
Misc : T27-125-3.0-4.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 15 09:29:14 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2241936	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	824301	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	664991	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2262356	38.95 ng		0.00
34) TOLUENE-D8	5.138	98	1962092	46.33 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	660090	53.00 ng		0.00
Target Compounds						Qvalue
10) Acetone	1.713	43	376108m	-63.29 ng		
46) Ethylbenzene	5.917	91	1189337	16.73 ng		99
47) m- &/or p-Xylene	6.004	91	1024025	18.57 ng		95
48) o-Xylene	6.174	91	449654	7.66 ng		92
49) Styrene	6.146	104	998967	19.88 ng		87
59) 1,3,5-Trimethylbenzene	6.647	105	2911772	46.62 ng		94 ✓
61) 1,2,4-Trimethylbenzene	6.806	105	5886434	98.66 ng		90 ✓
63) p-Isopropyltoluene	6.928	119	8231618	122.15 ng		96 ✓
67) n-Butylbenzene	7.098	91	2326376	37.65 ng	#	30 ✓
72) Naphthalene	7.962	128	66180771	778.81 ng		94 ✓

(#) = qualifier out of range (m) = manual integration (+) = signals summed

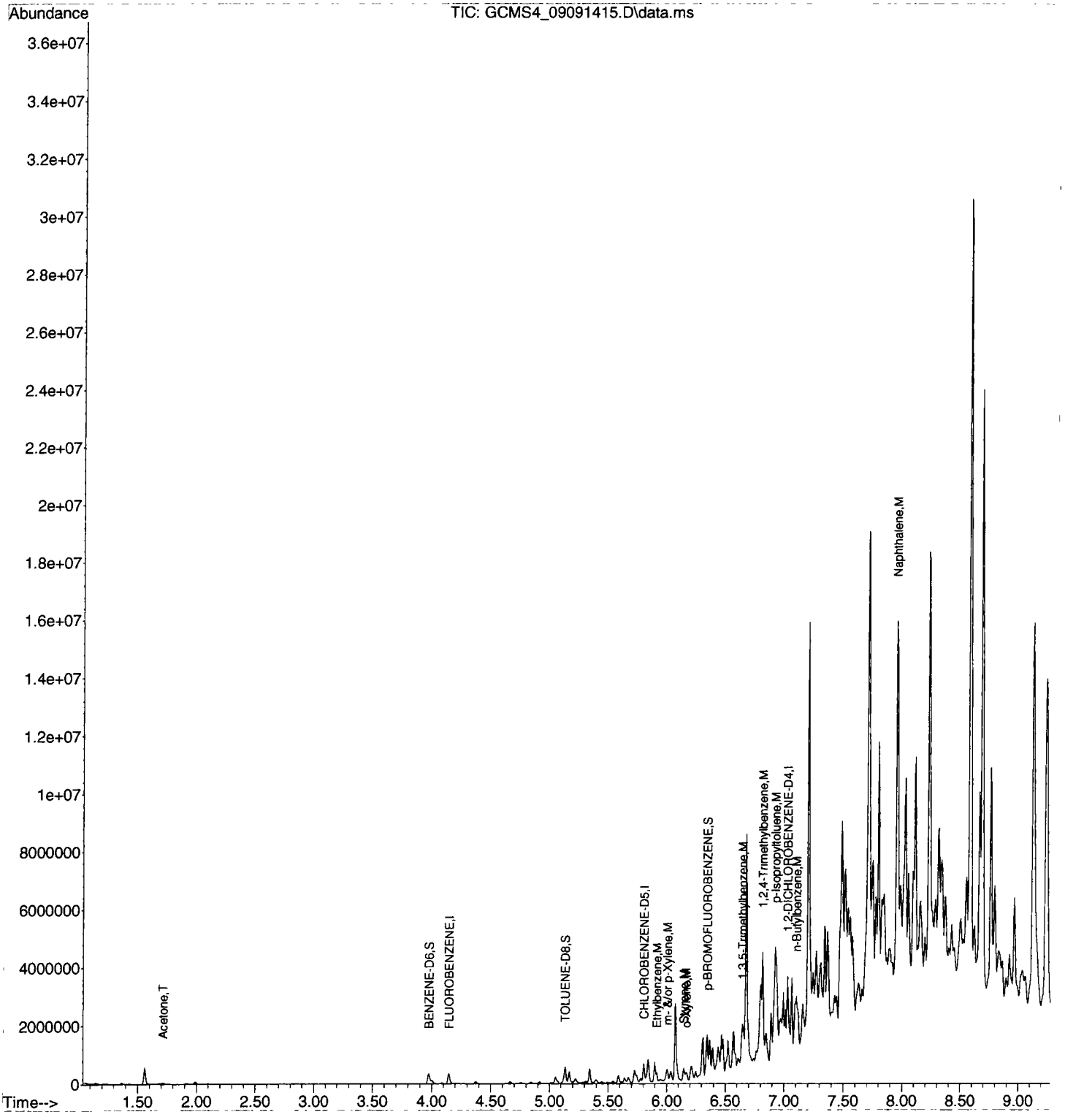
✓ Conc of these five compds are above the Report Limit and are reported.

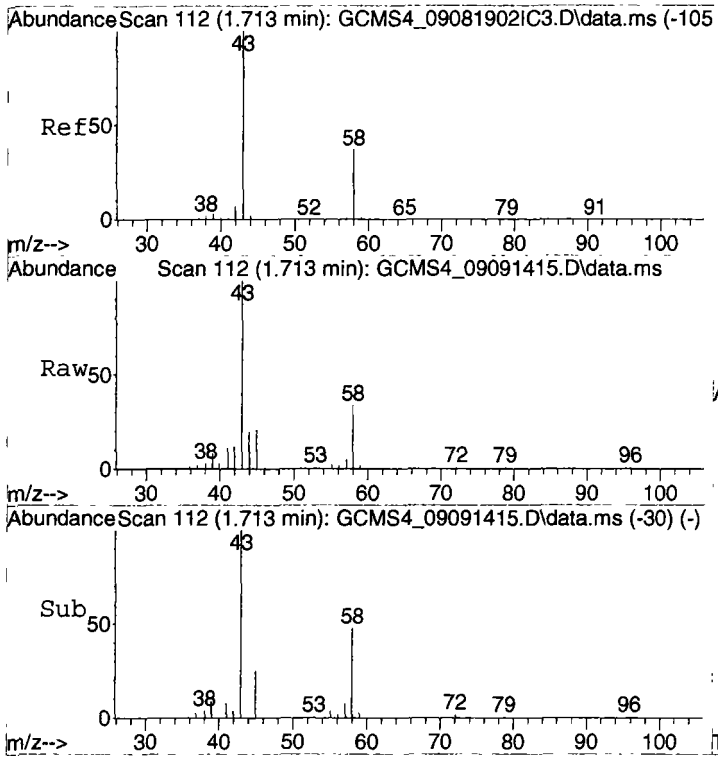
CMJ 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091415.D
Acq On : 14 Sep 2009 16:56
Operator : CTANG
Sample : 0909005-03
Misc : T27-125-3.0-4.8
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 15 09:29:14 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

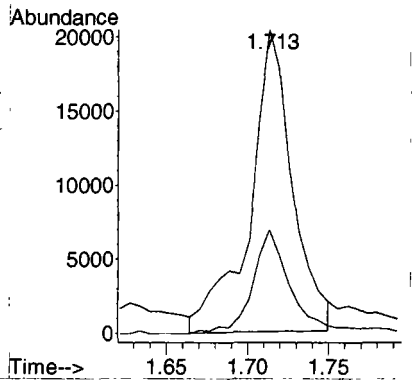


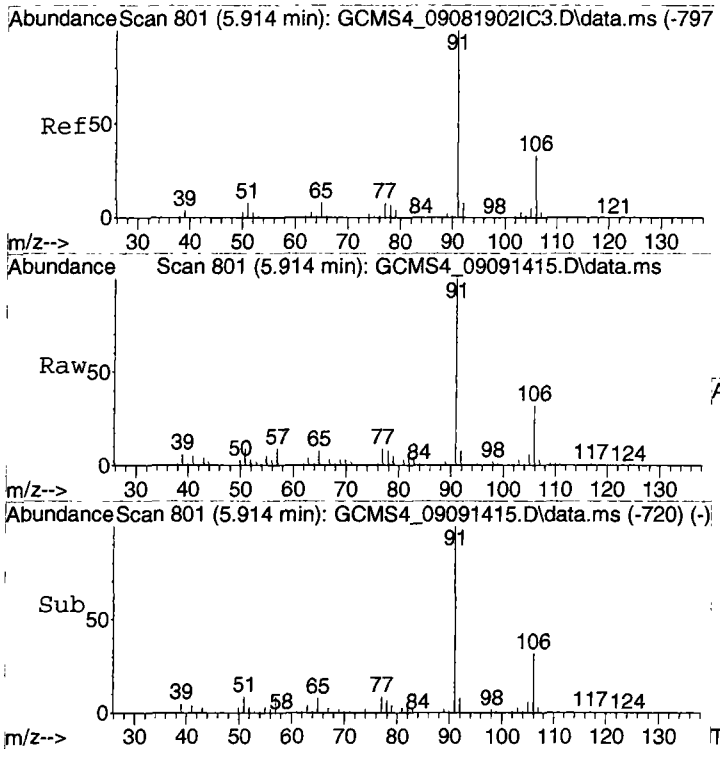


#10
Acetone
Concen: 63.29 ng m
RT: 1.713 min Scan# 112
Delta R.T. -0.002 min
Lab File: GCMS4 09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion: 43 Resp: 376108

Ion	Ratio	Lower	Upper
43	100		
58	32.1	19.5	40.5

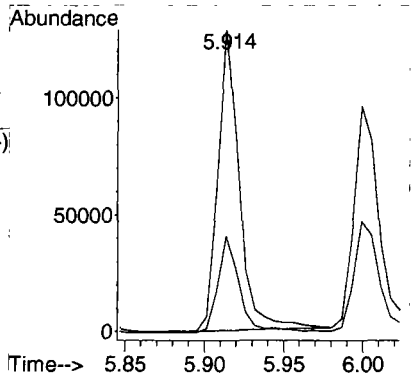


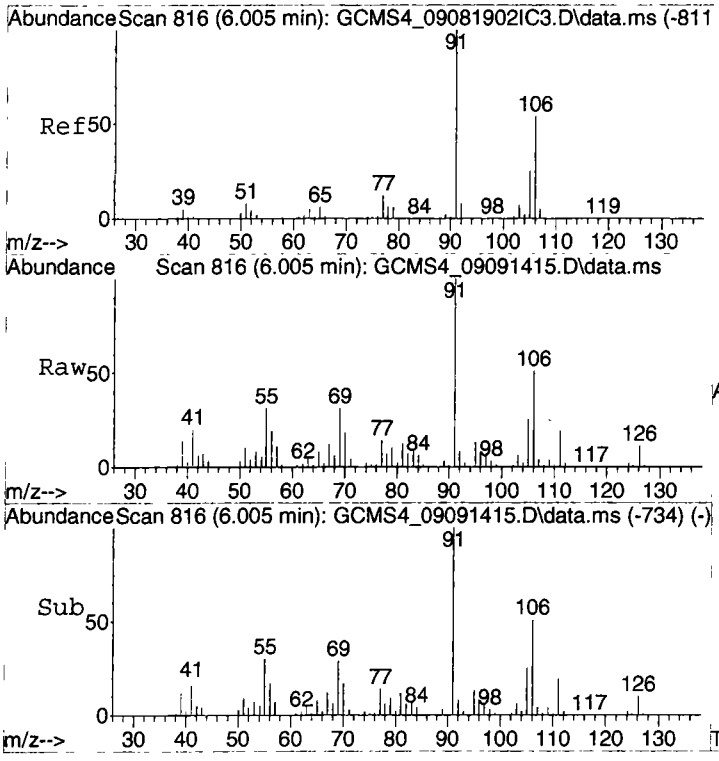


#46
Ethylbenzene
Concen: 16.73 ng
RT: 5.917 min Scan# 801
Delta R.T. -0.000 min
Lab File: GCMS4_09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion: 91 Resp: 1189337

Ion	Ratio	Lower	Upper
91	100		
106	31.6	20.0	41.6

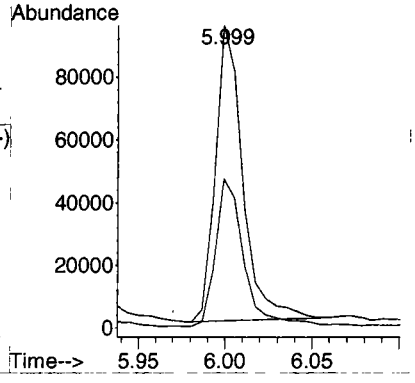


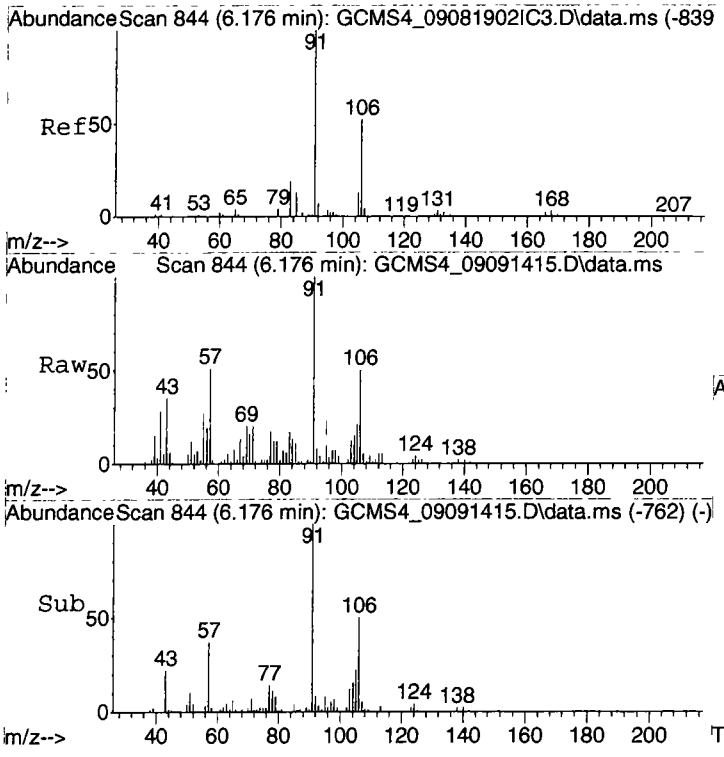


#47
m- &/or p-Xylene
Concen: 18.57 ng
RT: 6.004 min Scan# 816
Delta R.T. -0.001 min
Lab File: GCMS4 09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion: 91 Resp: 1024025

Ion	Ratio	Lower	Upper
91	100		
106	52.3	32.0	66.4

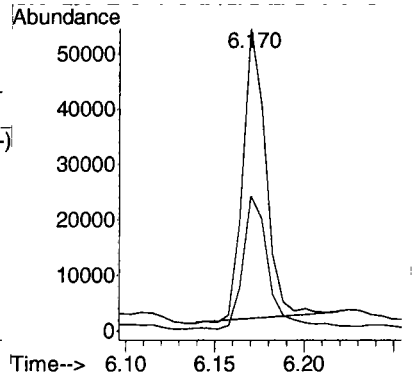


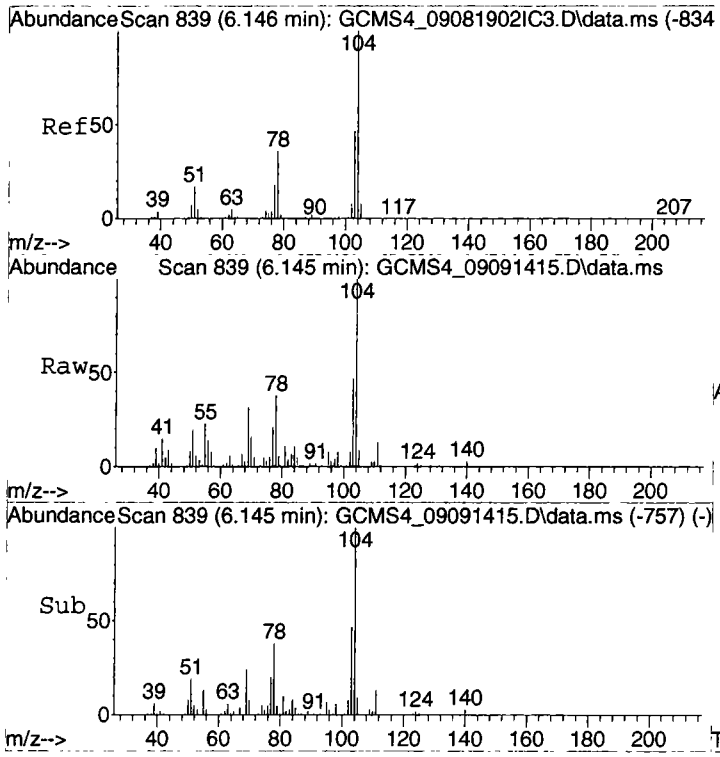


#48
o-Xylene
Concen: 7.66 ng
RT: 6.174 min Scan# 844
Delta R.T. -0.000 min
Lab File: GCMS4_09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion: 91 Resp: 449654

Ion	Ratio	Lower	Upper
91	100		
106	50.6	29.4	61.2

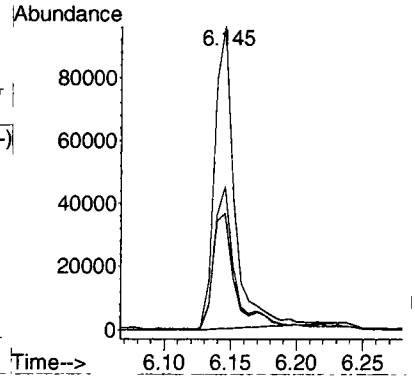


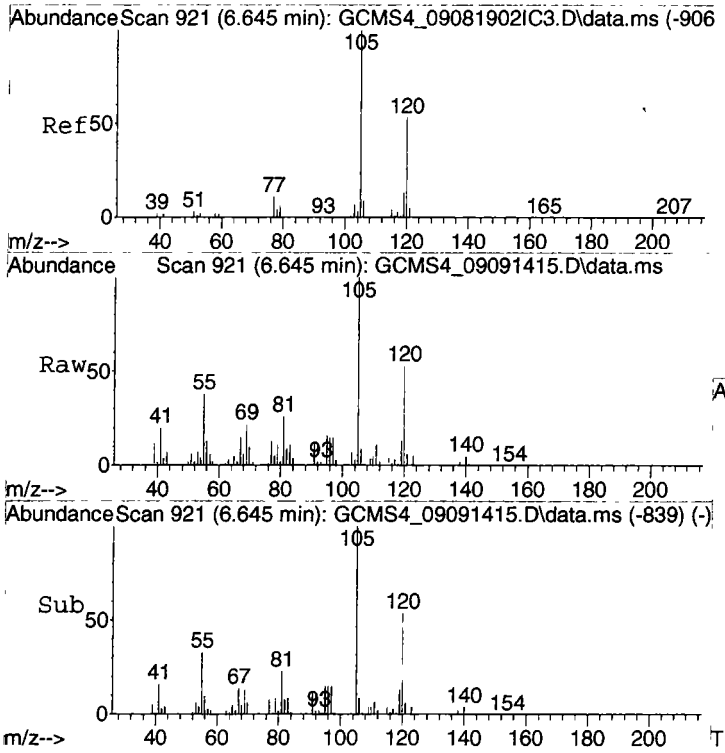


#49
Styrene
Concen: 19.88 ng
RT: 6.146 min Scan# 839
Delta R.T. -0.001 min
Lab File: GCMS4 09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion:104 Resp: 998967

Ion	Ratio	Lower	Upper
104	100		
103	53.7	28.0	58.1
78	38.8	29.4	61.2

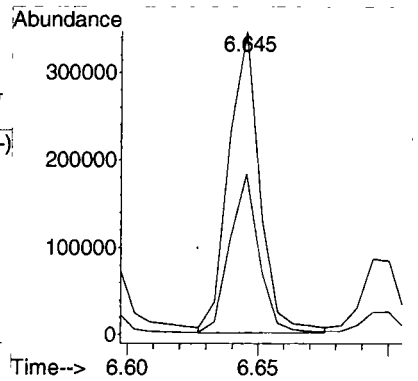


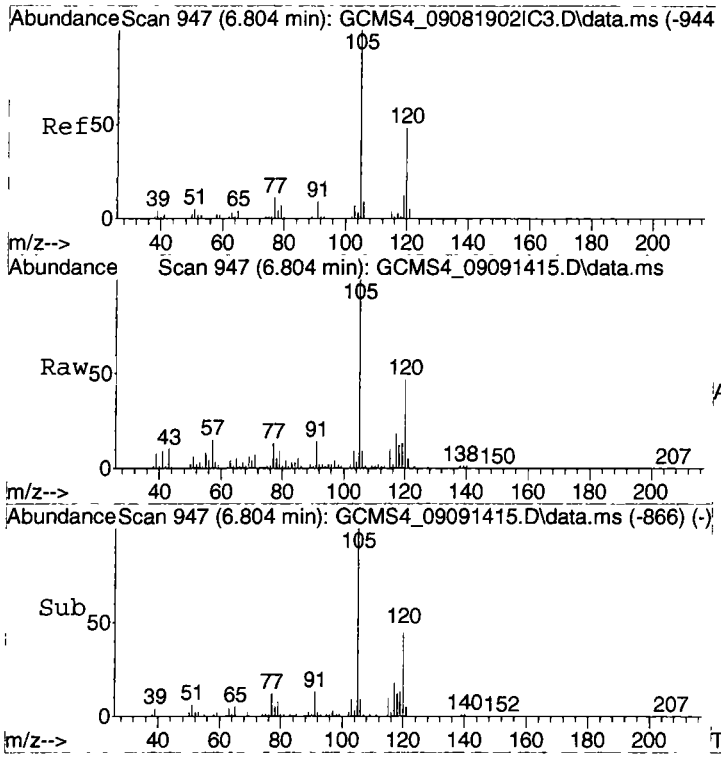


#59
1,3,5-Trimethylbenzene
Concen: 46.62 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.001 min
Lab File: GCMS4_09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion:105 Resp: 2911772

Ion	Ratio	Lower	Upper
105	100		
120	48.1	28.7	59.7

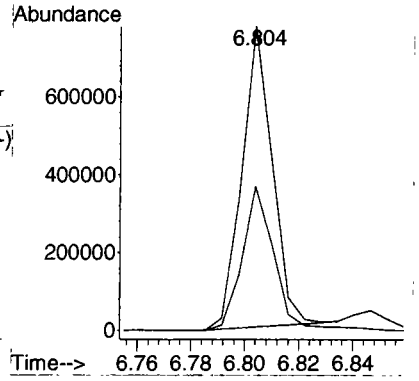


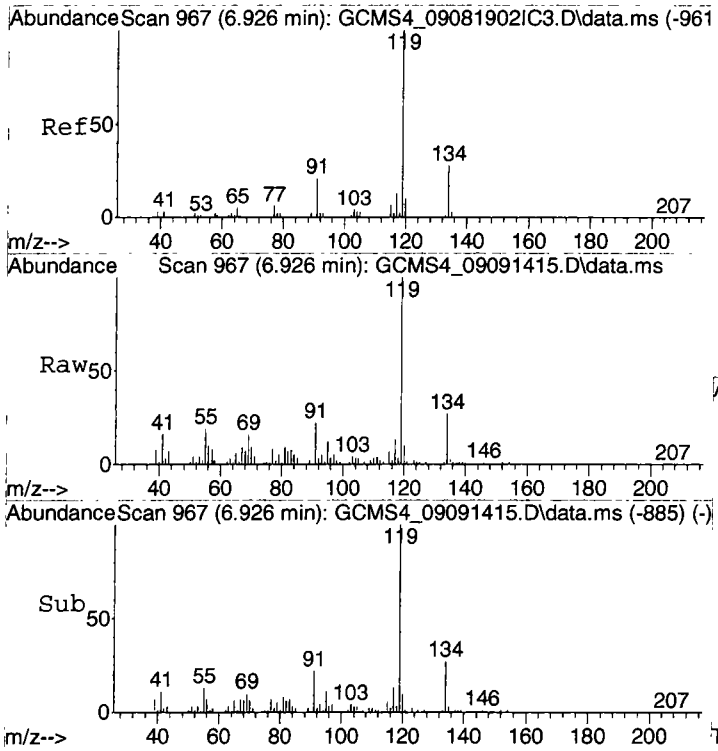


#61
1,2,4-Trimethylbenzene
Concen: 98.66 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.001 min
Lab File: GCMS4 09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion:105 Resp: 5886434

Ion	Ratio	Lower	Upper
105	100		
120	51.8	29.3	60.8

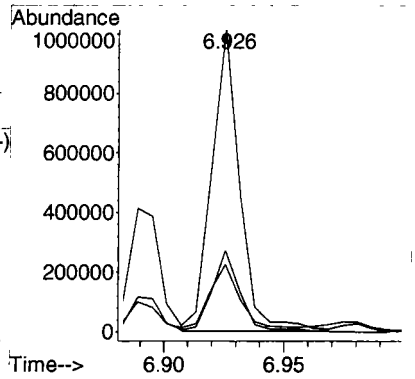


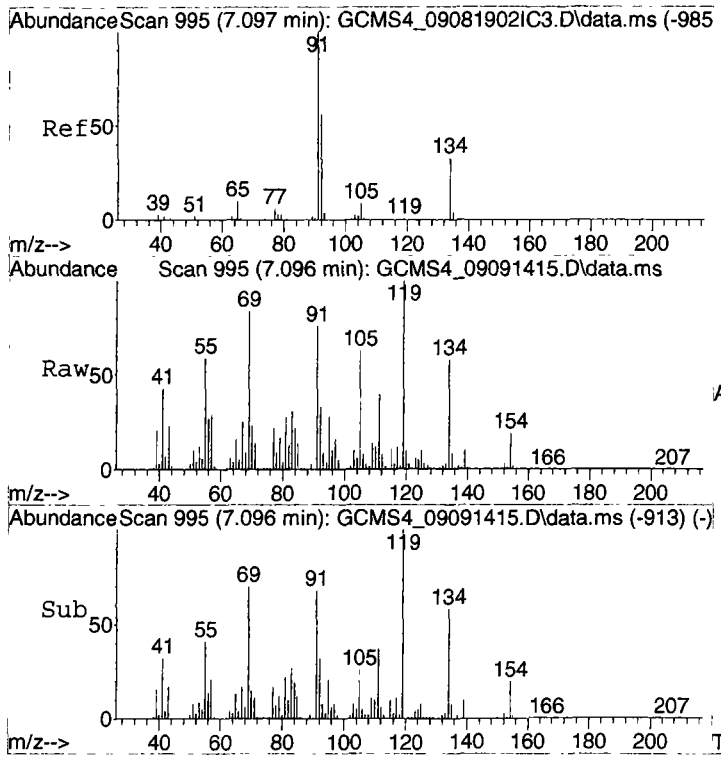


#63
p-Isopropyltoluene
Concen: 122.15 ng
RT: 6.928 min Scan# 967
Delta R.T. -0.001 min
Lab File: GCMS4_09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion:119 Resp: 8231618

Ion	Ratio	Lower	Upper
119	100		
91	22.7	16.3	33.8
134	26.9	18.9	39.1

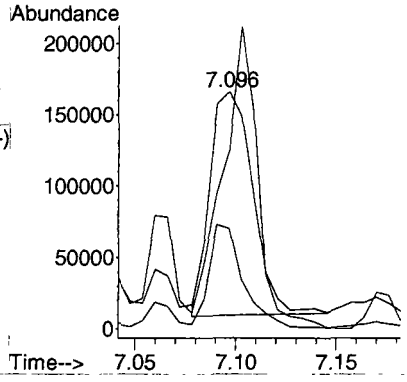


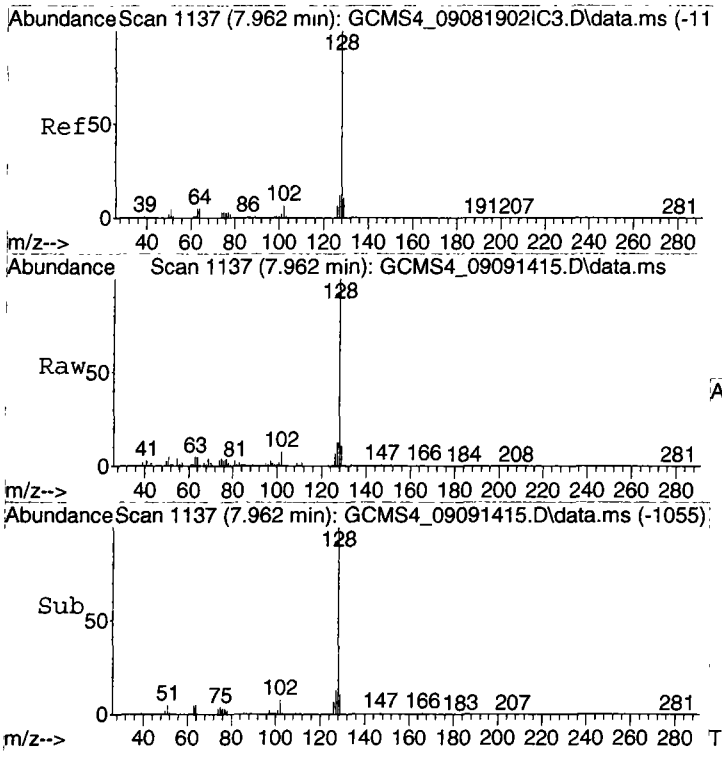


#67
n-Butylbenzene
Concen: 37.65 ng
RT: 7.098 min Scan# 995
Delta R.T. 0.001 min
Lab File: GCMS4 09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion: 91 Resp: 2326376

Ion	Ratio	Lower	Upper
91	100		
134	112.9	18.3	38.1#
92	36.8	34.1	70.7

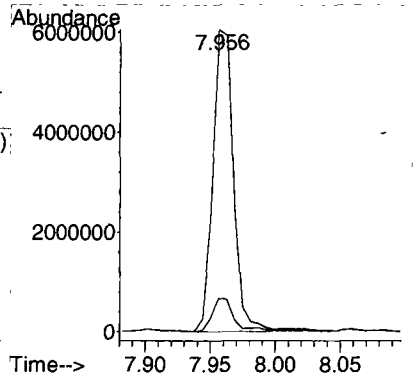




#72
Naphthalene
Concen: 778.81 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.003 min
Lab File: GCMS4_09091415.D
Acq: 14 Sep 2009 16:56

Tgt Ion:128 Resp:66180771

Ion	Ratio	Lower	Upper
128	100		
129	12.5	6.7	13.9



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091416.D
Acq On : 14 Sep 2009 17:16
Operator : CTANG
Sample : IC Check at 250 NG
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 09:32:12 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.147	96	2429484	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.805	82	1115322	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	1022136	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.976	84	2645934	42.04 ng		0.00
34) TOLUENE-D8	5.136	98	2255314	49.14 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	849060	50.39 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.084	85	1196416	221.63 ng		97
3) Chloromethane	1.151	50	2686038	198.43 ng		95
4) Vinyl chloride	1.216	62	1895441	456.41 ng		99
5) Bromomethane	1.366	94	1689827	304.40 ng		99
6) Chloroethane	1.421	64	1732157	345.16 ng		96
7) Trichlorofluoromethane	1.658	101	3615817	296.83 ng		99
9) 1,1-Dichloroethene	1.912	96	2873194	166.51 ng		89
12) Methylene chloride	1.991	84	3892071	154.72 ng		80
14) trans-1,2-Dichloroethene	2.393	96	3241188	159.90 ng		89
15) 1,1-Dichloroethane	2.564	63	5071427	152.85 ng	#	95
17) cis-1,2-Dichloroethene	3.028	96	3662211	155.67 ng		88
18) 2,2-Dichloropropane	3.258	77	2691782	150.28 ng		99
19) Bromochloromethane	3.156	128	1724826	156.85 ng		99
20) Chloroform	3.206	83	5369420	161.68 ng		93
21) 1,1,1-Trichloroethane	3.739	97	3520239	156.25 ng		94
22) 1,1-Dichloropropene	3.872	75	4157751	161.54 ng		98
23) Carbon tetrachloride	3.969	117	2198348	153.49 ng		91
25) 1,2-Dichloroethane	3.682	62	2844672	150.97 ng		98
26) Benzene	4.002	78	13730278	162.20 ng		96
27) Trichloroethene	4.392	130	3767488	164.81 ng		96
28) 1,2-Dichloropropane	4.365	63	3118197	167.28 ng		99
29) Dibromomethane	4.338	174	1809101	156.98 ng		97
30) Bromodichloromethane	4.416	83	3067129	156.03 ng		97
32) cis-1,3-Dichloropropene	4.783	75	3536443	171.40 ng		97
35) Toluene	5.170	91	15040420	169.39 ng		99
36) trans-1,3-Dichloropropene	5.013	75	3202141	171.34 ng		96
37) 1,1,2-Trichloroethane	5.079	97	2863761	163.88 ng		98
38) 1,3-Dichloropropane	5.198	76	4868693	170.16 ng		93
39) Tetrachloroethene	5.513	166	4015298	166.53 ng		96
41) Dibromochloromethane	5.312	129	2359314	154.06 ng		98
42) 1,2-Dibromoethane	5.426	107	2798650	172.39 ng		95
44) Chlorobenzene	5.819	112	9912785	166.51 ng		97
45) 1,1,1,2-Tetrachloroethane	5.787	131	3098901	154.61 ng		94
46) Ethylbenzene	5.916	91	16830624	174.93 ng		97
47) m- &/or p-Xylene	6.003	91	26849867	359.87 ng		98
48) o-Xylene	6.173	91	13624313	171.58 ng		93
49) Styrene	6.144	104	11240326	165.33 ng		90
50) Bromoform	6.034	173	1788555	141.65 ng		88
51) Isopropylbenzene	6.332	105	17177511	181.19 ng		95
53) 1,1,2,2-Tetrachloroethane	6.171	83	3569546	154.76 ng		99
54) 1,2,3-Trichloropropane	6.233	75	3284401	158.64 ng		97
55) Bromobenzene	6.426	156	4483728	162.86 ng		95
56) n-Propylbenzene	6.519	91	17893586	169.04 ng		98
57) 2-Chlorotoluene	6.551	91	11942658	164.71 ng		97
58) 4-Chlorotoluene	6.551	91	11942658	164.40 ng		94

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091416.D
Acq On : 14 Sep 2009 17:16
Operator : CTANG
Sample : IC Check at 250 NG
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 09:32:12 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
59) 1,3,5-Trimethylbenzene	6.646	105	14669907	173.59 ng		89
60) tert-Butylbenzene	6.758	119	12659776	170.55 ng		91
61) 1,2,4-Trimethylbenzene	6.807	105	13793999	170.87 ng		93
62) sec-Butylbenzene	6.849	105	18936908	168.53 ng		96
63) p-Isopropyltoluene	6.928	119	15745819	172.69 ng		95
64) 1,3-Dichlorobenzene	6.873	146	7246742	162.61 ng		98
65) 1,4-Dichlorobenzene	6.902	146	8412778	149.89 ng		94
67) n-Butylbenzene	7.095	91	13256952	139.59 ng		96
68) 1,2-Dichlorobenzene	7.046	146	7869790	135.60 ng		94
69) 1,2-Dibromo-3-chloropr...	7.244	157	794958	111.60 ng	#	38
70) 1,2,4-Trichlorobenzene	7.847	180	5671310	125.73 ng		96
71) Hexachlorobutadiene	7.994	225	3354577	127.87 ng		96
72) Naphthalene	7.962	128	17210931	131.77 ng		97
73) 1,2,3-Trichlorobenzene	8.057	180	5548575	122.63 ng		97

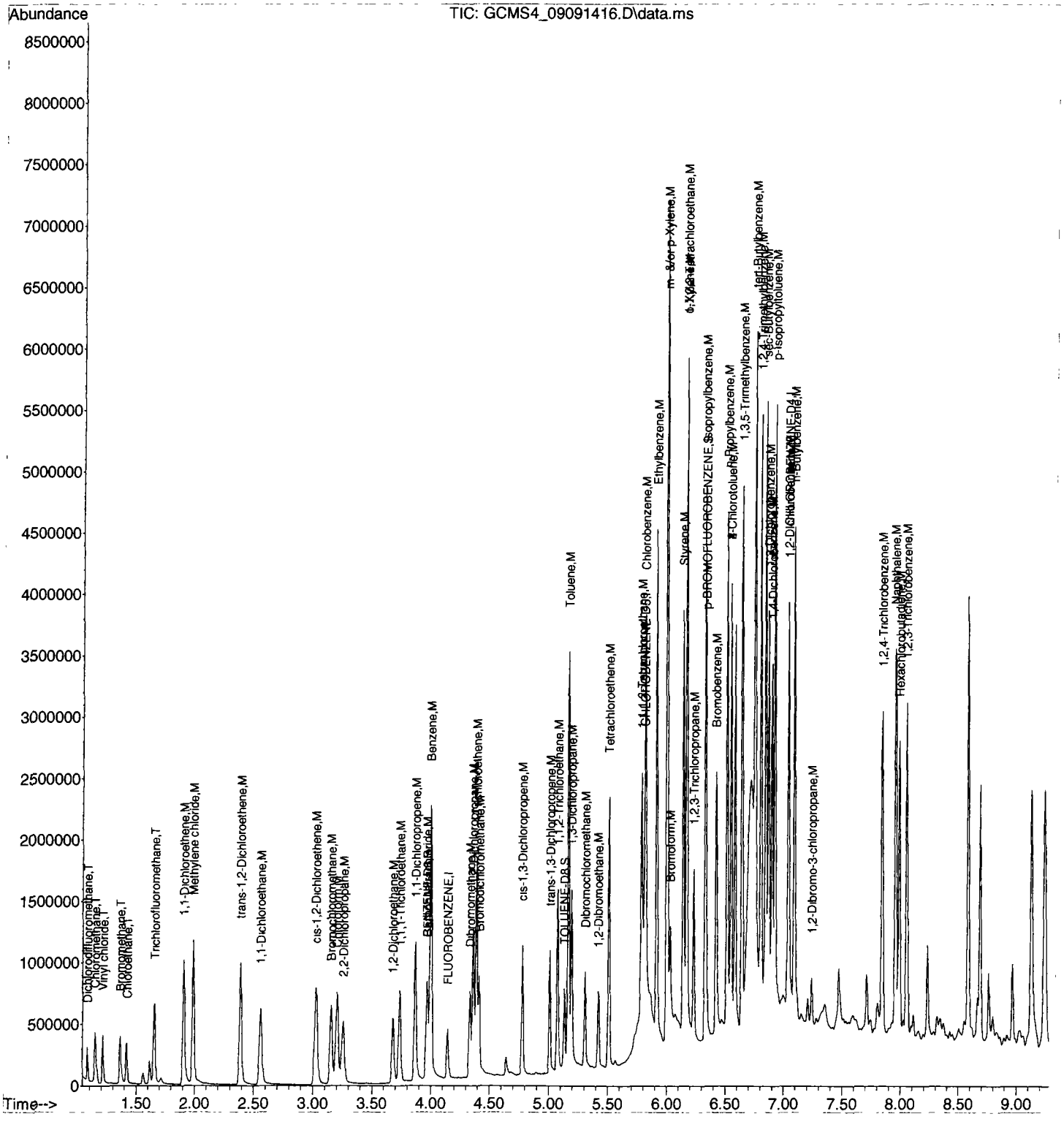
(#) = qualifier out of range (m) = manual integration (+) = signals summed

✓ Only these Six (6) compounds passed the QC Limit of 175 NG to 325 NG. The reason might be of wrong spiking amount CMZ 11/2/09.

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091416.D
Acq On : 14 Sep 2009 17:16
Operator : CTANG
Sample : IC Check at 250 NG
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 09:32:12 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091417.D
Acq On : 14 Sep 2009 17:36
Operator : CTANG
Sample : 0909005-04
Misc : T24-125-1.0-3.0
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 08:40:14 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2373722	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	921991	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	899990	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2373432	38.59 ng		0.00
34) TOLUENE-D8	5.138	98	2134603	47.60 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	886779	63.66 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.151	50	260400	19.69 ng		98
5) Bromomethane	1.369	94	242915	44.79 ng		89
10) Acetone	1.718	43	230219	36.59 ng		84
12) Methylene chloride	1.992	84	253717	10.32 ng		79
35) Toluene	5.172	91	1309204	15.09 ng		98
46) Ethylbenzene	5.917	91	1037576	13.05 ng		99
47) m- &/or p-Xylene	6.004	91	1544782	25.05 ng		96
48) o-Xylene	6.174	91	1051841	16.02 ng		97
49) Styrene	6.147	104	682387	12.14 ng	#	70
~~53) 1,1,2,2-Tetrachloroethane~~	~~6.301~~	~~83~~	~~608188~~	~~31.90 ng~~		~~82~~ ✓ wrong R.T.
59) 1,3,5-Trimethylbenzene	6.647	105	2798305	40.06 ng		95 ✓
61) 1,2,4-Trimethylbenzene	6.807	105	4367260	65.44 ng		94 ✓
63) p-Isopropyltoluene	6.931	119	3119588	41.39 ng	#	53 ✓
67) n-Butylbenzene	7.096	91	1682209m	20.12 ng		
72) Naphthalene	7.962	128	70684732	614.61 ng		97 ✓

(#) = qualifier out of range (m) = manual integration (+) = signals summed

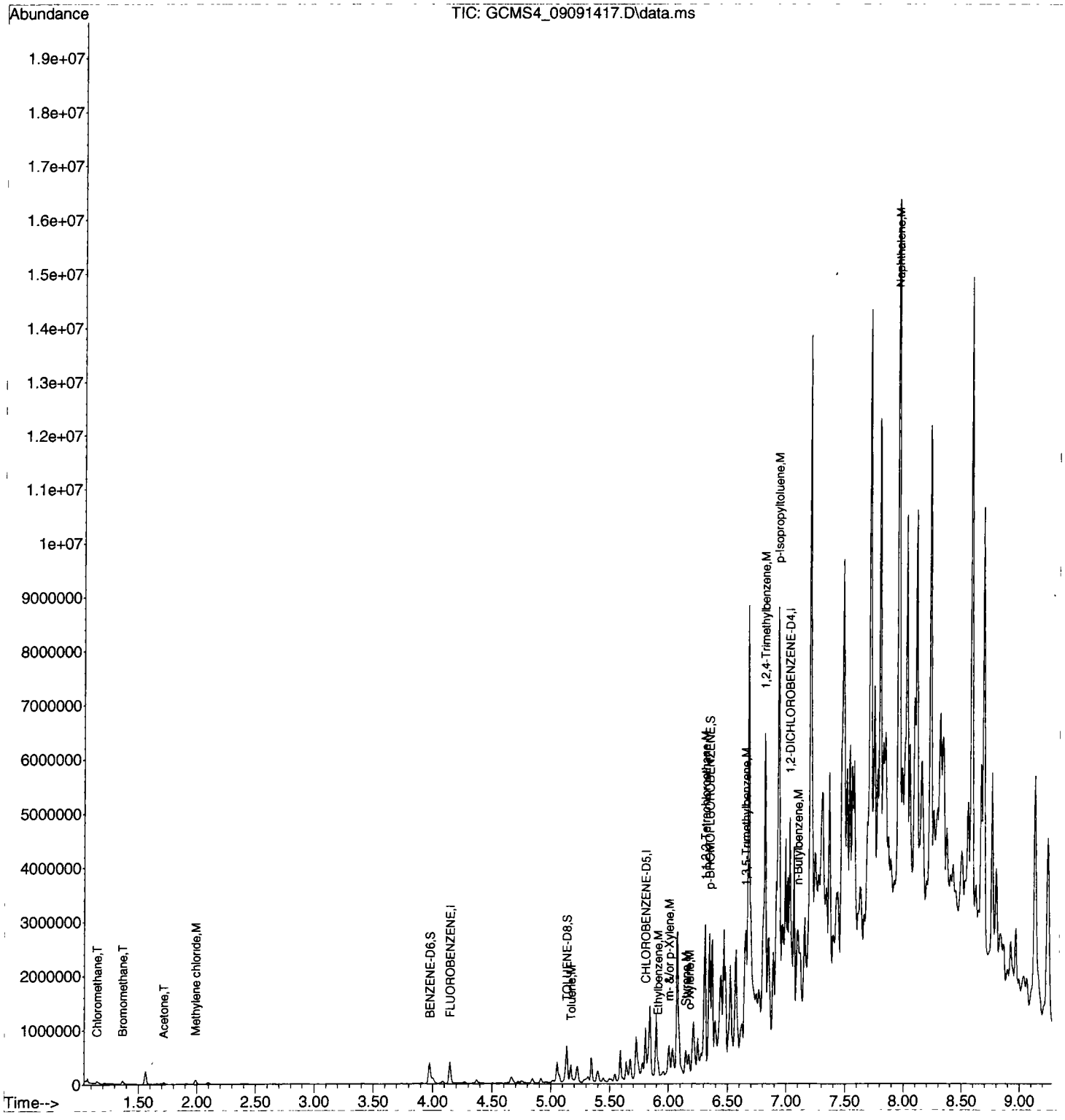
✓ These ~~five~~ Four compounds have concentrations above the report limits and are reported

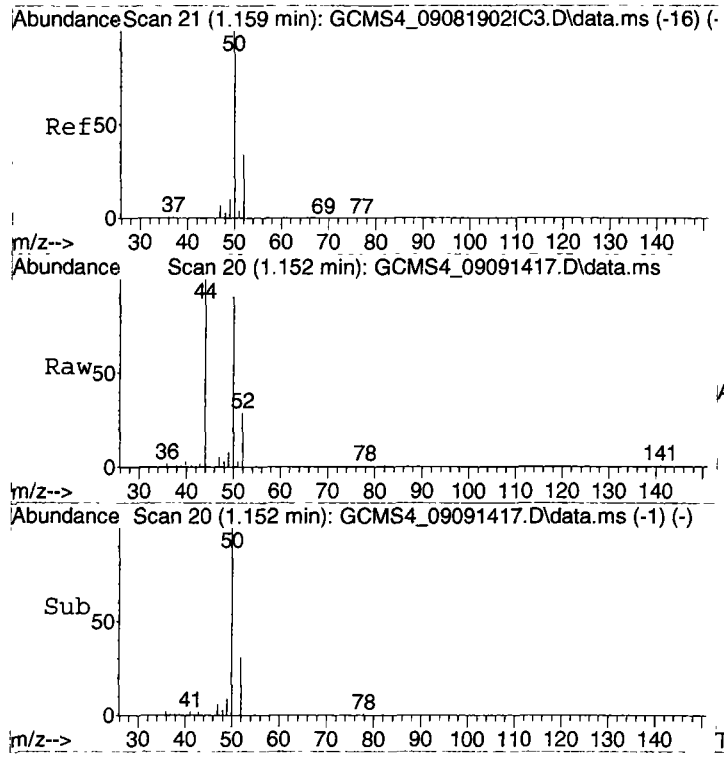
ezy 11/23/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091417.D
Acq On : 14 Sep 2009 17:36
Operator : CTANG
Sample : 0909005-04
Misc : T24-125-1.0-3.0
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 15 08:40:14 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

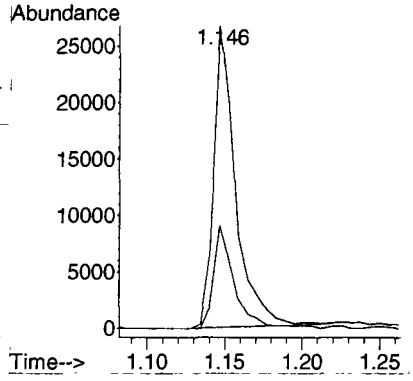


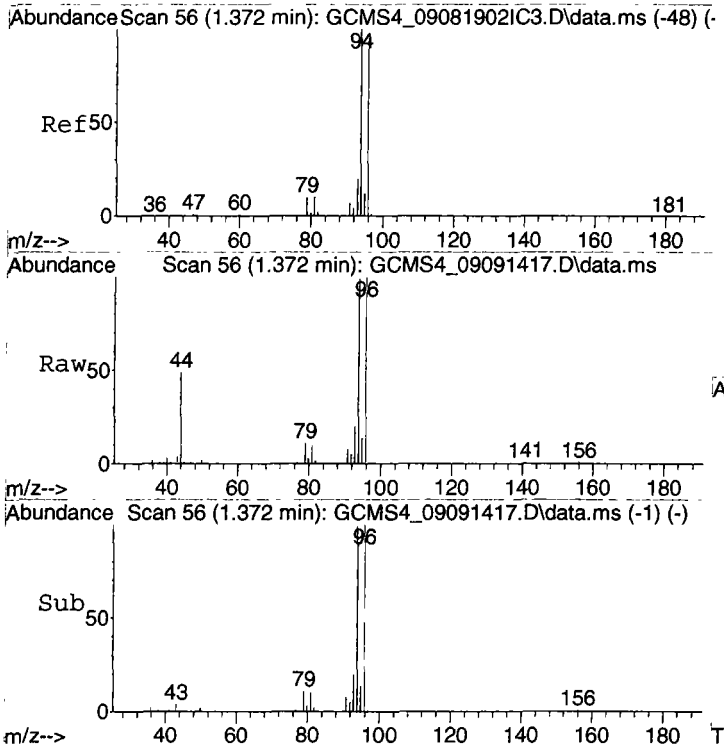


#3
Chloromethane
Concen: 19.69 ng
RT: 1.151 min Scan# 20
Delta R.T. 0.000 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 50 Resp: 260400

Ion	Ratio	Lower	Upper
50	100		
52	34.1	22.8	47.4

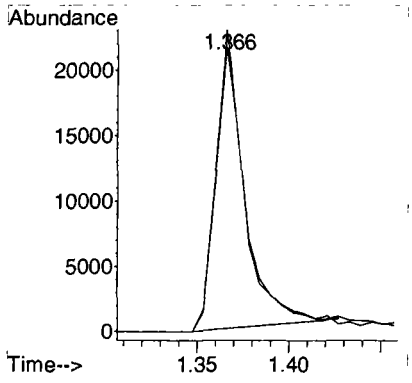


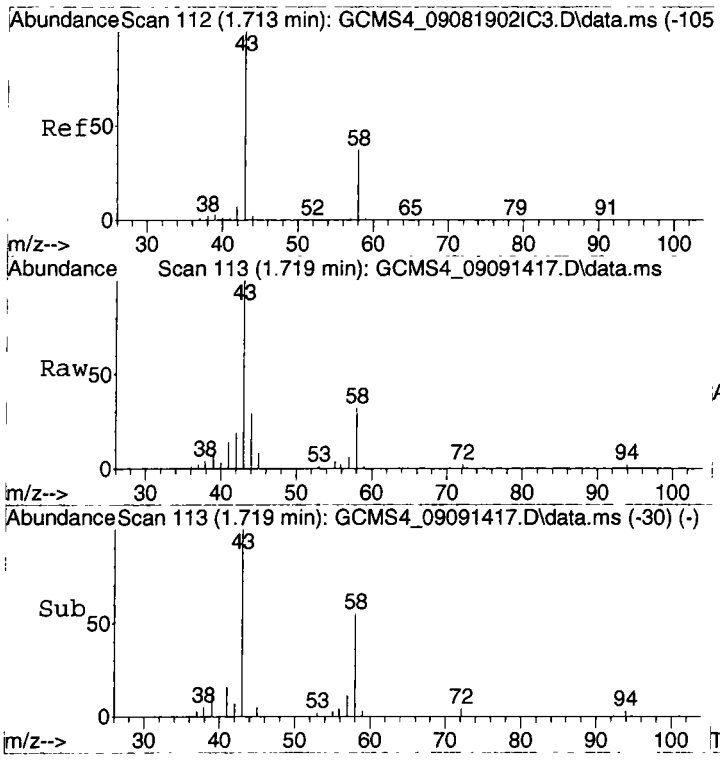


#5
Bromomethane
Concen: 44.79 ng
RT: 1.369 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 94 Resp: 242915

Ion	Ratio	Lower	Upper
94	100		
96	105.7	61.7	128.3

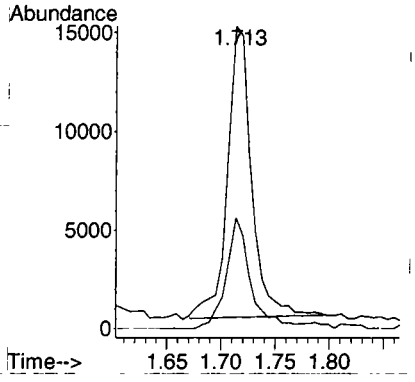


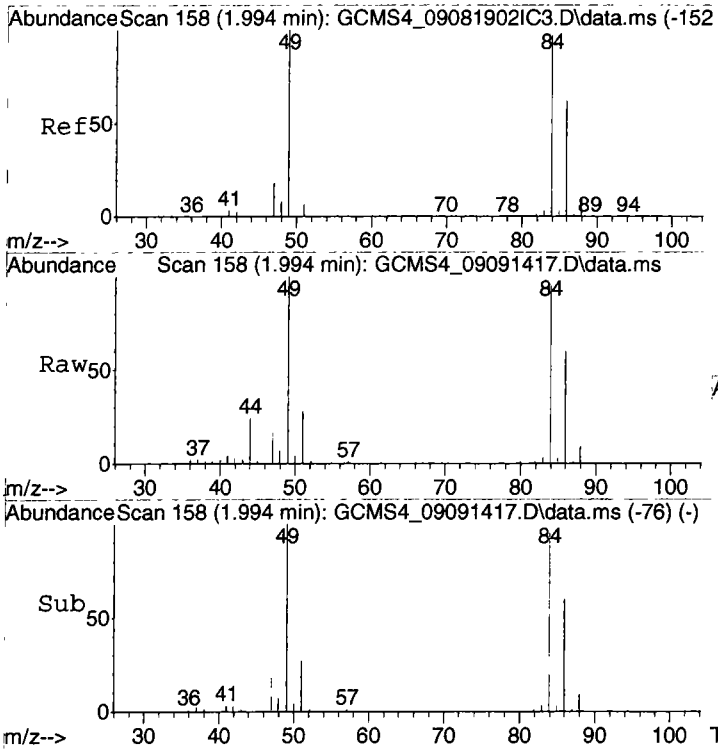


#10
Acetone
Concen: 36.59 ng
RT: 1.718 min Scan# 113
Delta R.T. 0.003 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 43 Resp: 230219

Ion	Ratio	Lower	Upper
43	100		
58	38.6	19.5	40.5

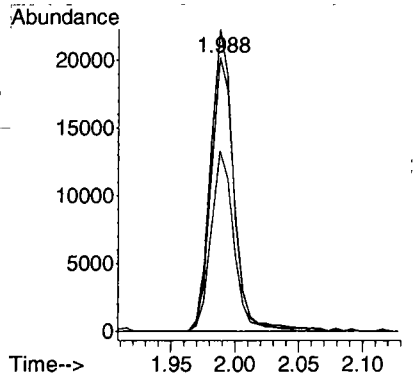


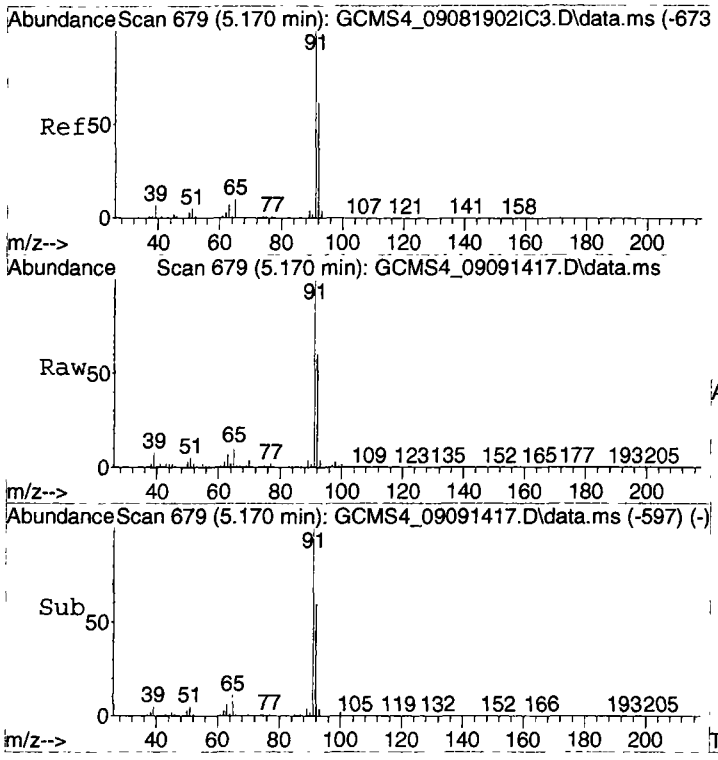


#12
Methylene chloride
Concen: 10.32 ng
RT: 1.992 min Scan# 158
Delta R.T. 0.001 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 84 Resp: 253717

Ion	Ratio	Lower	Upper
84	100		
86	64.1	39.1	81.3
49	104.9	90.5	188.1

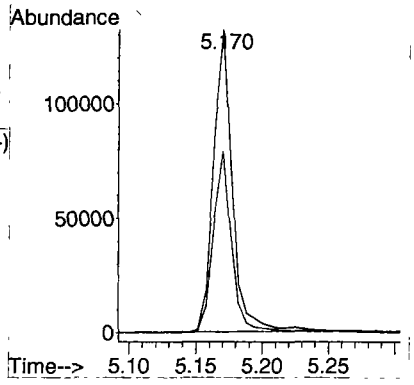


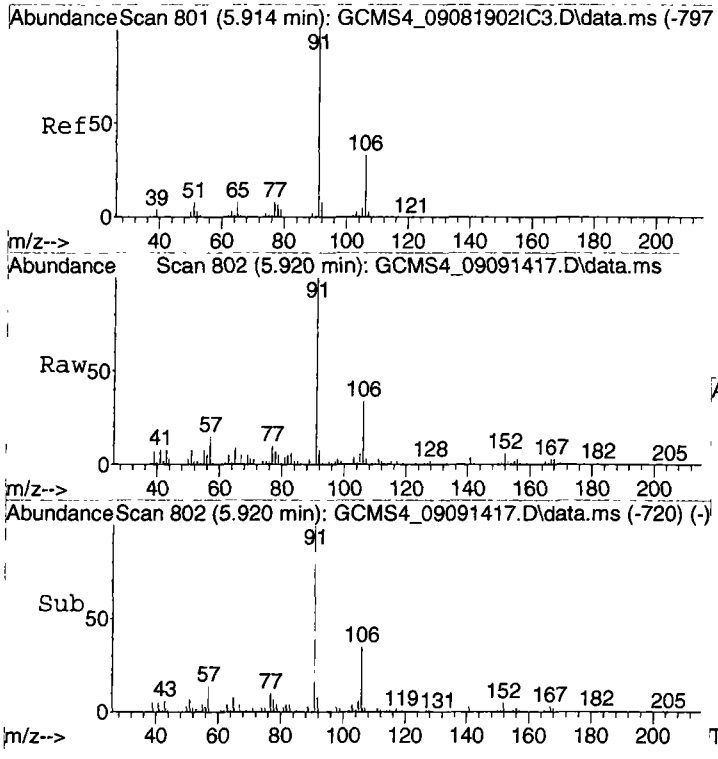


#35
Toluene
Concen: 15.09 ng
RT: 5.172 min Scan# 679
Delta R.T. 0.000 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 91 Resp: 1309204

Ion	Ratio	Lower	Upper
91	100		
92	59.1	39.5	81.9

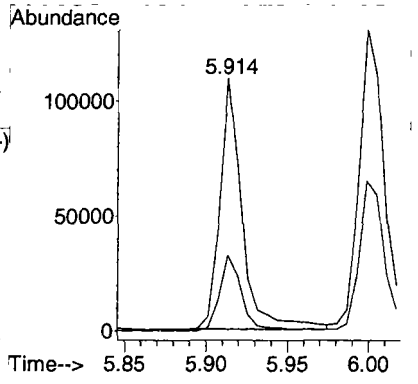


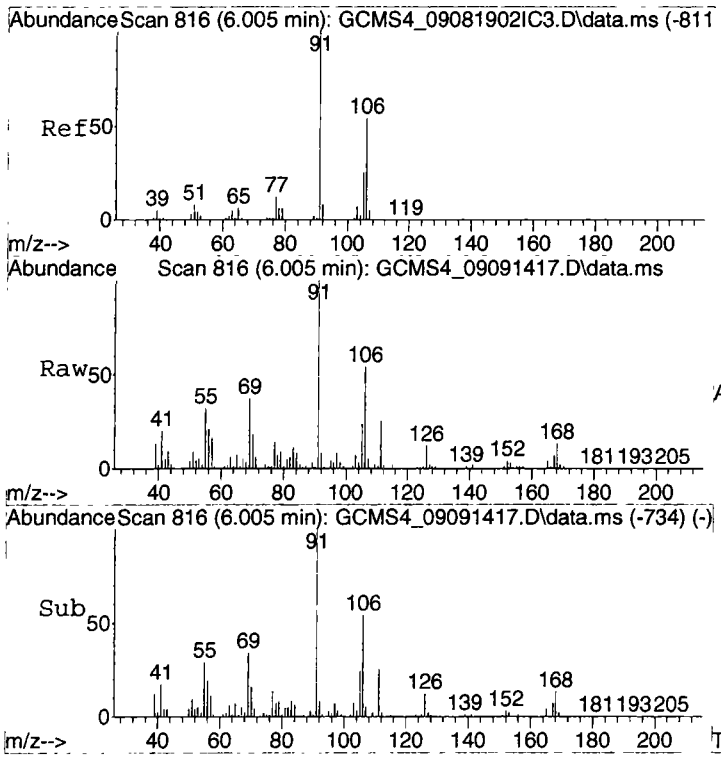


#46
Ethylbenzene
Concen: 13.05 ng
RT: 5.917 min Scan# 802
Delta R.T. -0.000 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 91 Resp: 1037576

Ion	Ratio	Lower	Upper
91	100		
106	30.1	20.0	41.6

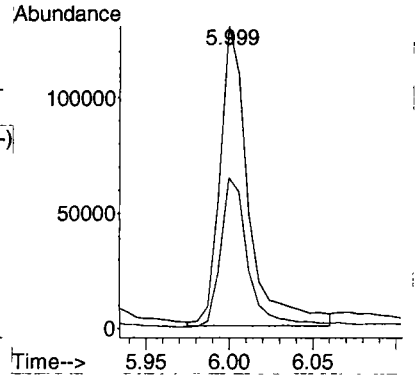


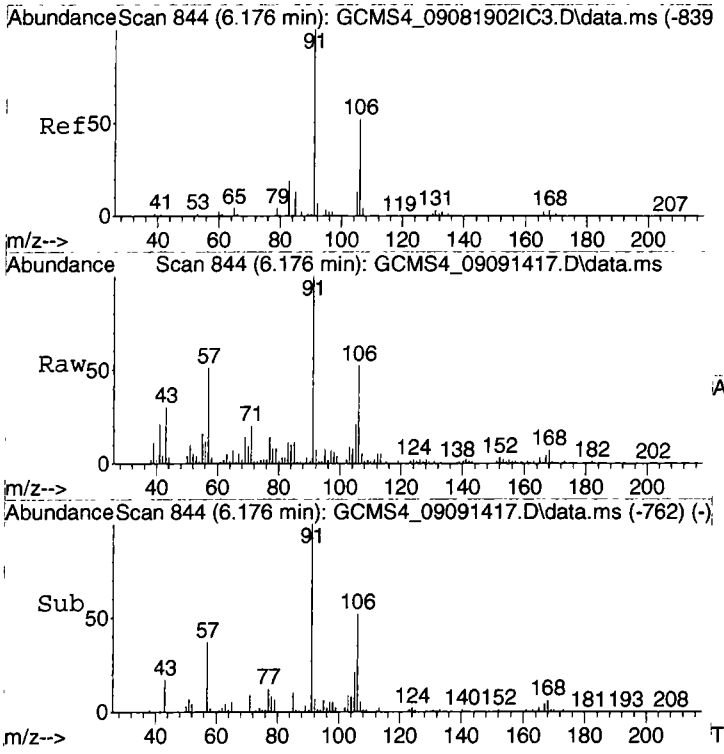


#47
m- &/or p-Xylene
Concen: 25.05 ng
RT: 6.004 min Scan# 816
Delta R.T. -0.002 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 91 Resp: 1544782

Ion	Ratio	Lower	Upper
91	100		
106	46.5	32.0	66.4

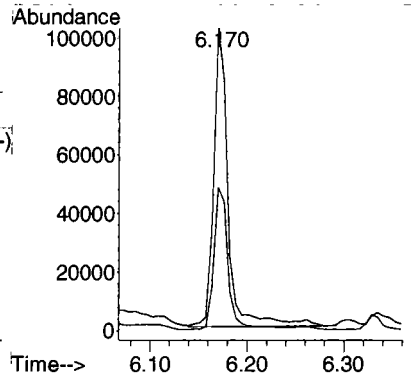


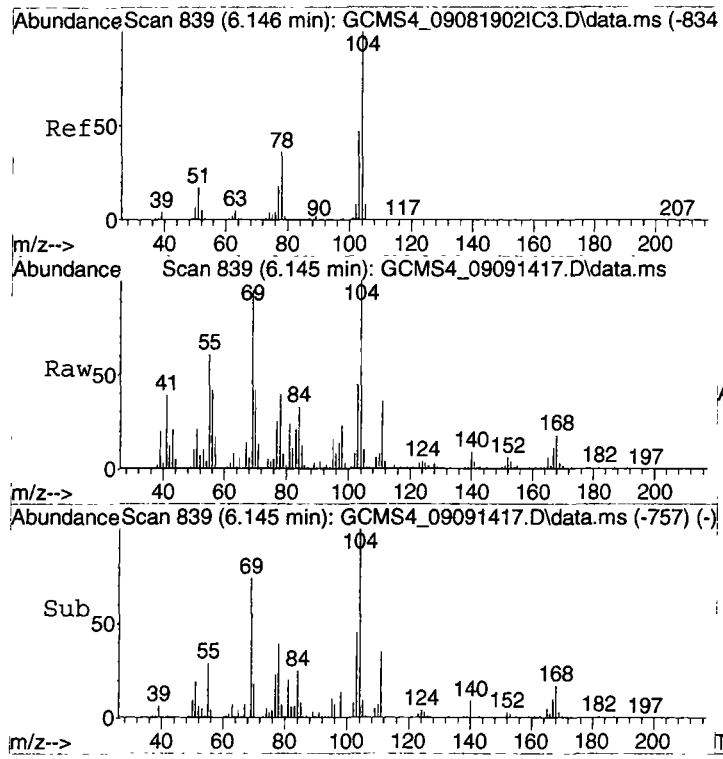


#48
o-Xylene
Concen: 16.02 ng
RT: 6.174 min Scan# 844
Delta R.T. 0.000 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 91 Resp: 1051841

Ion	Ratio	Lower	Upper
91	100		
106	43.6	29.4	61.2

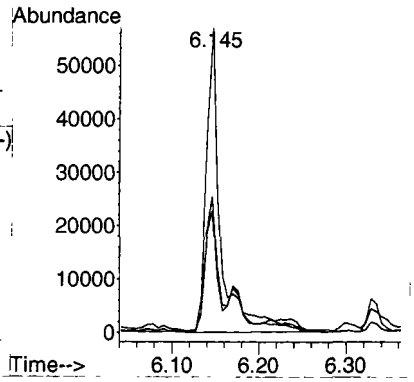


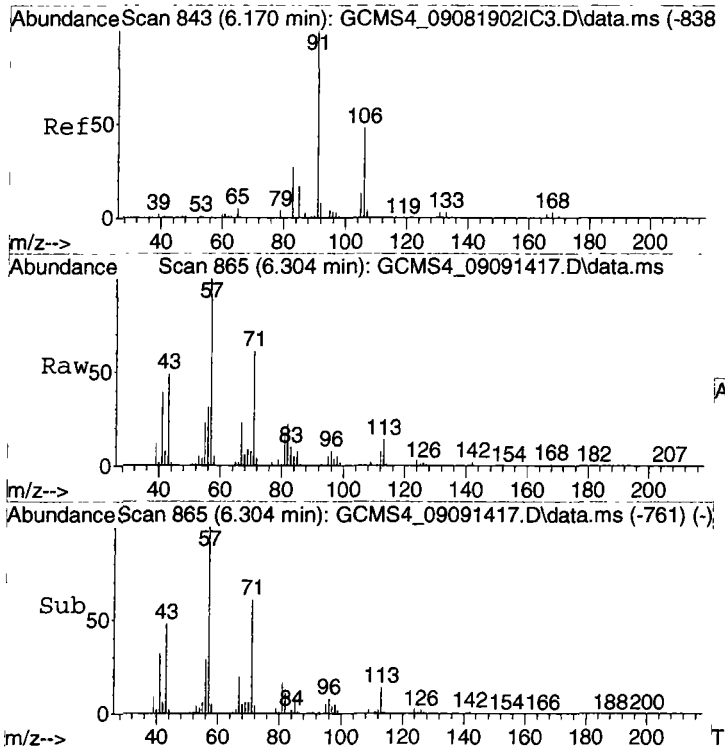


#49
Styrene
Concen: 12.14 ng
RT: 6.147 min Scan# 839
Delta R.T. 0.000 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion:104 Resp: 682387

Ion	Ratio	Lower	Upper
104	100		
103	26.6	28.0	58.1#
78	23.5	29.4	61.2#

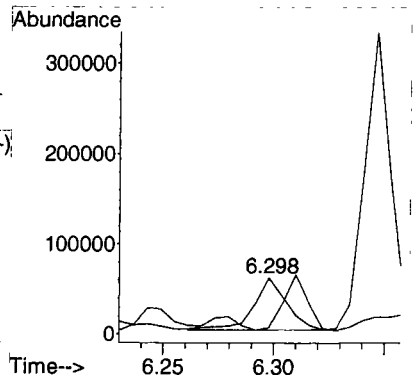


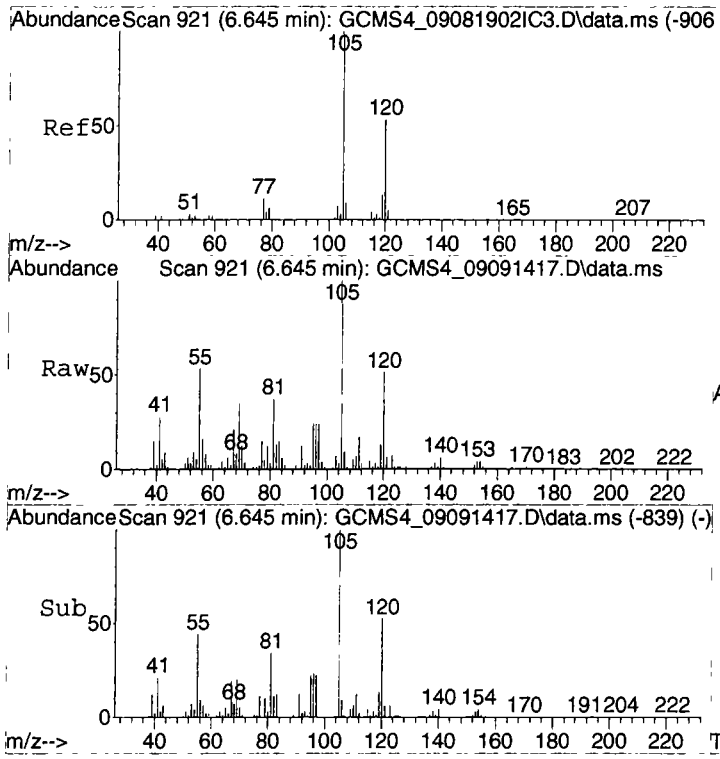


#53
1,1,2,2-Tetrachloroethane
Concen: 31.90 ng
RT: 6.301 min Scan# 865
Delta R.T. 0.129 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 83 Resp: 608188

Ion	Ratio	Lower	Upper
83	100		
85	77.4	41.3	85.7

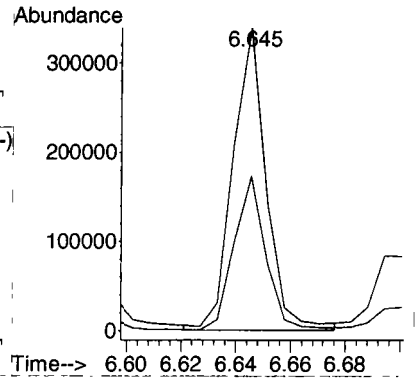


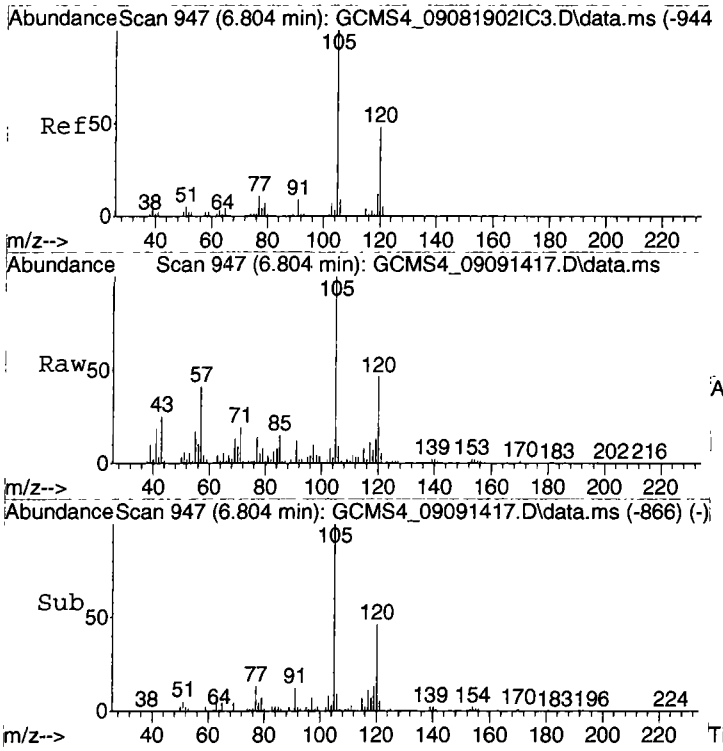


#59
1,3,5-Trimethylbenzene
Concen: 40.06 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.000 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion:105 Resp: 2798305

Ion	Ratio	Lower	Upper
105	100		
120	47.1	28.7	59.7

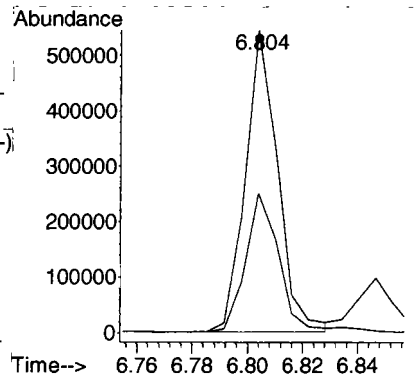


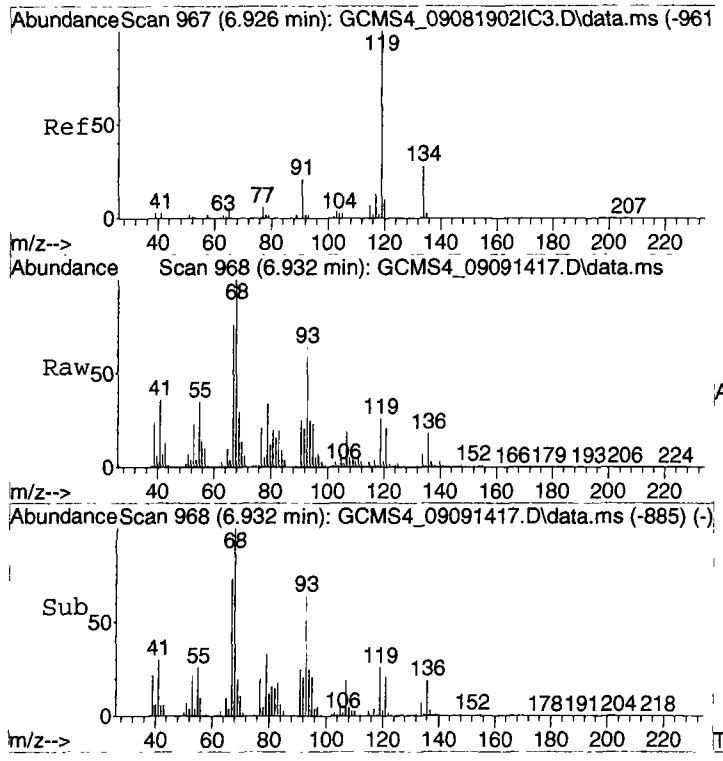


#61
1,2,4-Trimethylbenzene
Concen: 65.44 ng
RT: 6.807 min Scan# 947
Delta R.T. -0.000 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion:105 Resp: 4367260

Ion	Ratio	Lower	Upper
105	100		
120	48.7	29.3	60.8

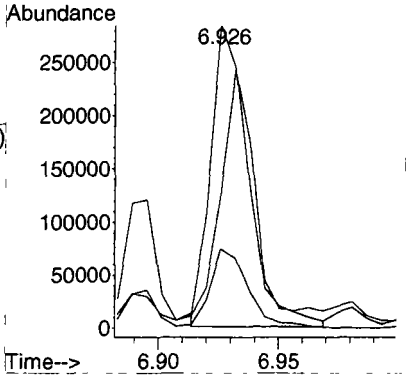


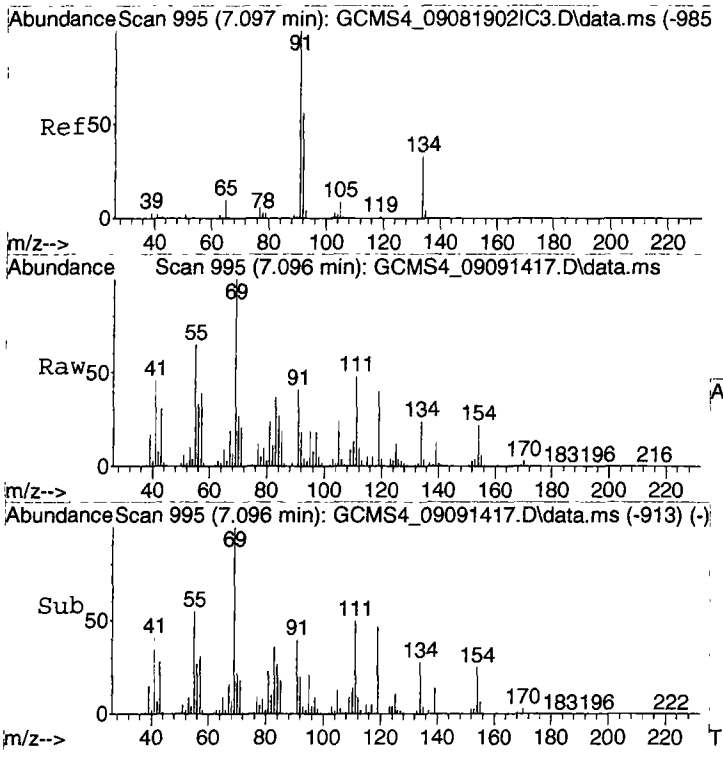


#63
p-Isopropyltoluene
Concen: 41.39 ng
RT: 6.931 min Scan# 968
Delta R.T. 0.002 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion:119 Resp: 3119588

Ion	Ratio	Lower	Upper
119	100		
91	73.7	16.3	33.8#
134	26.8	18.9	39.1

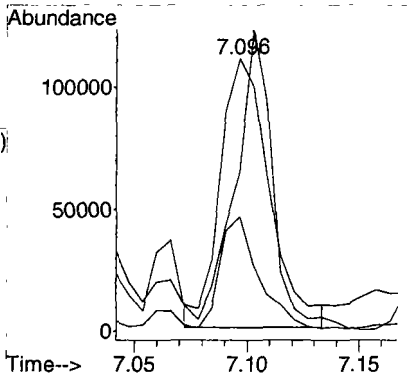


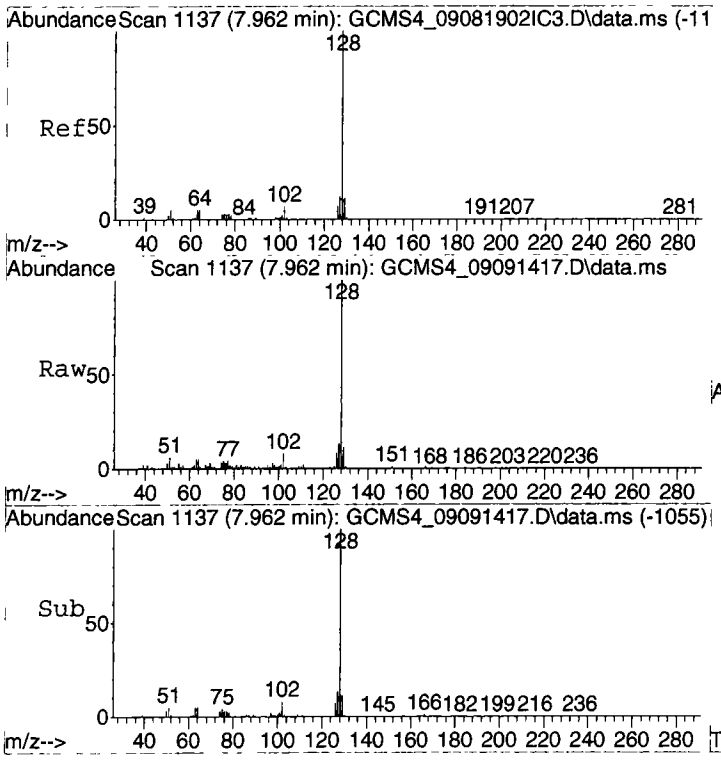


#67
n-Butylbenzene
Concen: 20.12 ng m
RT: 7.096 min Scan# 995
Delta R.T. -0.001 min
Lab File: GCMS4_09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion: 91 Resp: 1682209

Ion	Ratio	Lower	Upper
91	100		
134	86.1	18.3	38.1#
92	33.0	34.1	70.7#

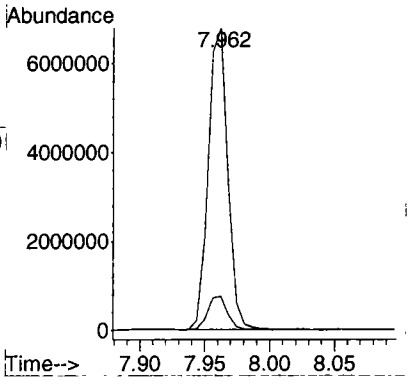




#72
Naphthalene
Concen: 614.61 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.002 min
Lab File: GCMS4 09091417.D
Acq: 14 Sep 2009 17:36

Tgt Ion:128 Resp:70684732

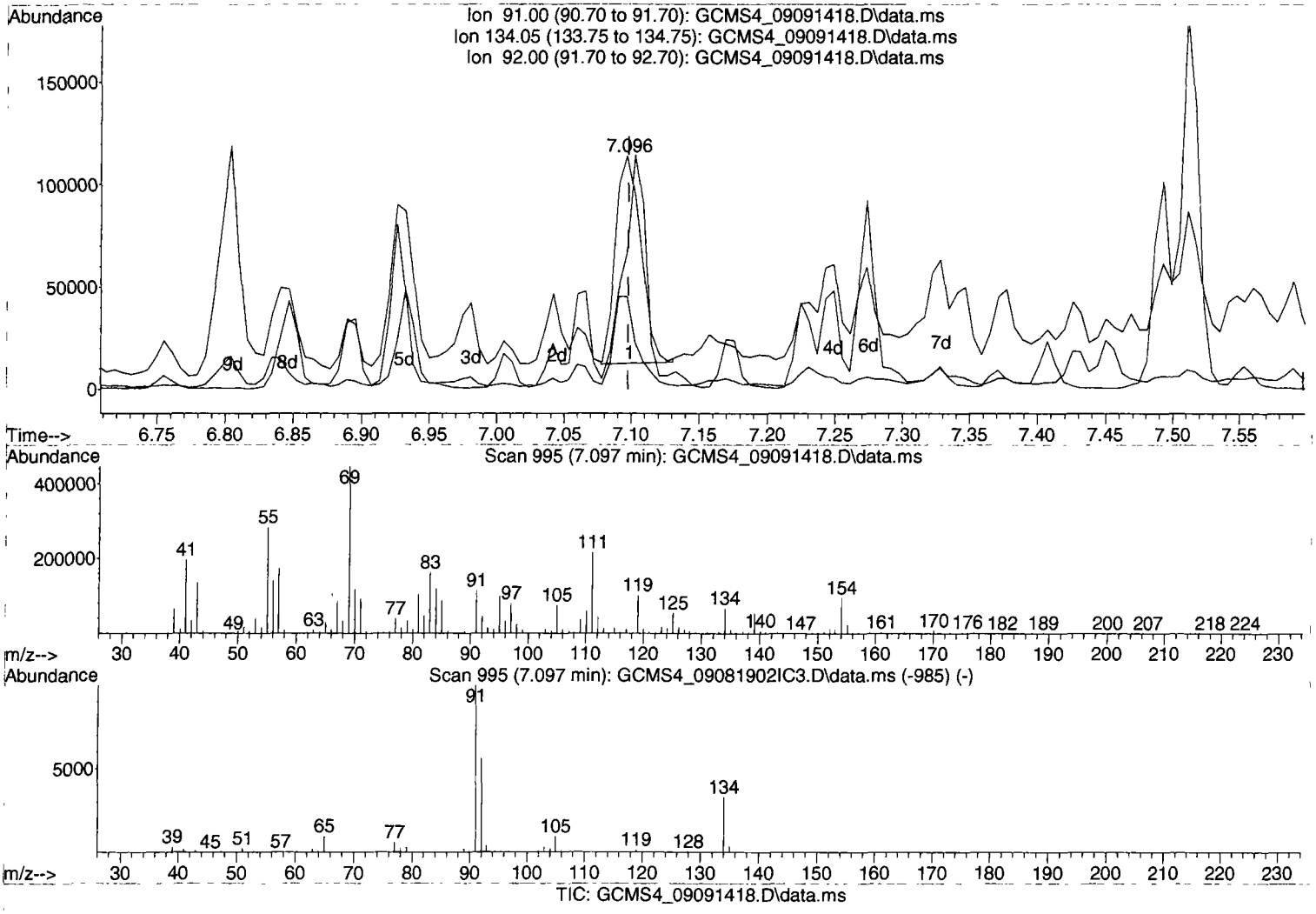
Ion	Ratio	Lower	Upper
128	100		
129	11.4	6.7	13.9



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 18:06:19 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(67) n-Butylbenzene (M)

7.099min (+0.001) 21.53ng

response 1313243

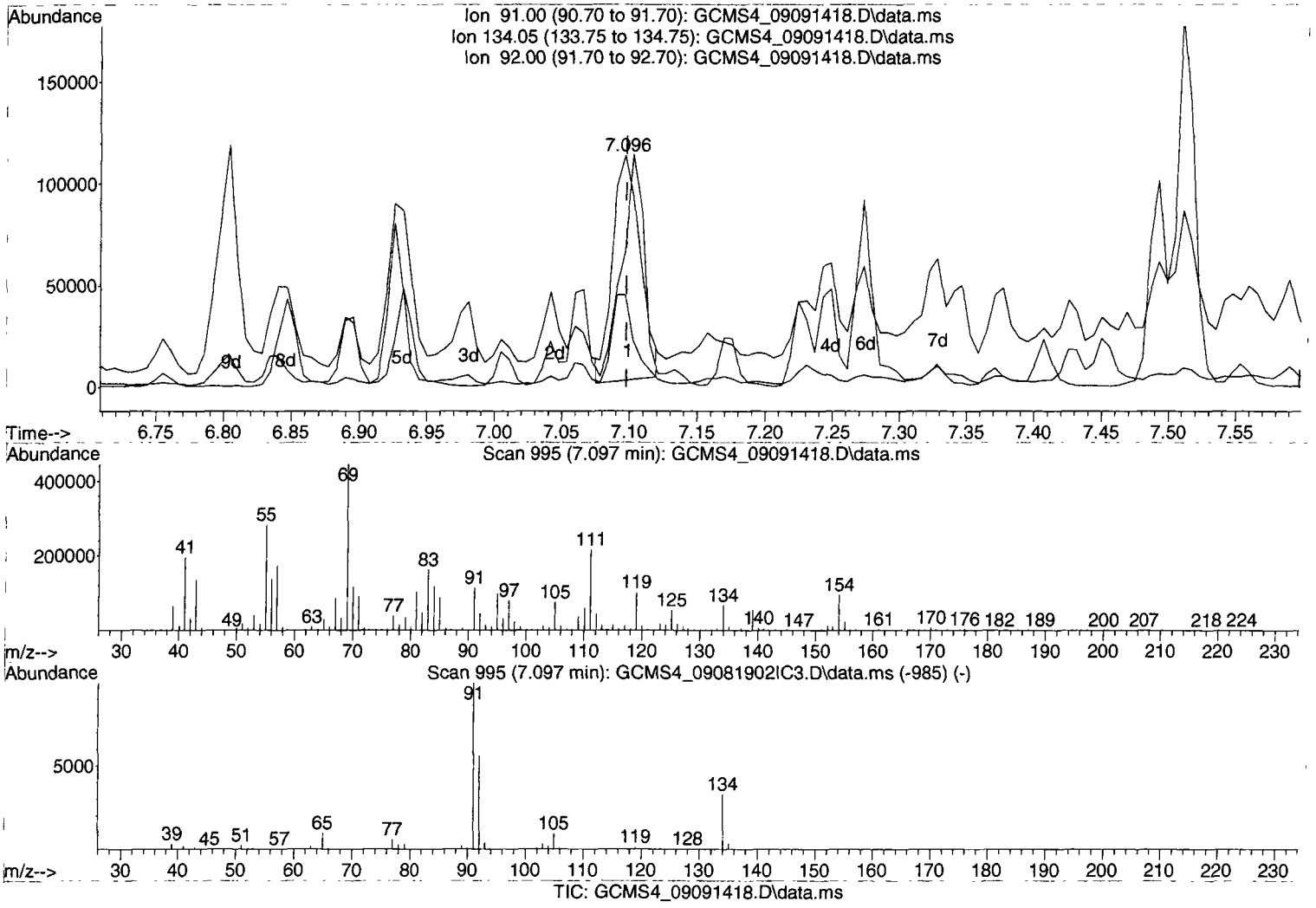
Ion	Exp%	Act%
91.00	100	100
134.05	28.20	102.33#
92.00	52.40	39.12
0.00	0.00	0.00

Refer IB
CMY 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 14 18:06:19 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(67) n-Butylbenzene (M)

7.097min (-0.001) 25.04ng m

response 1527113

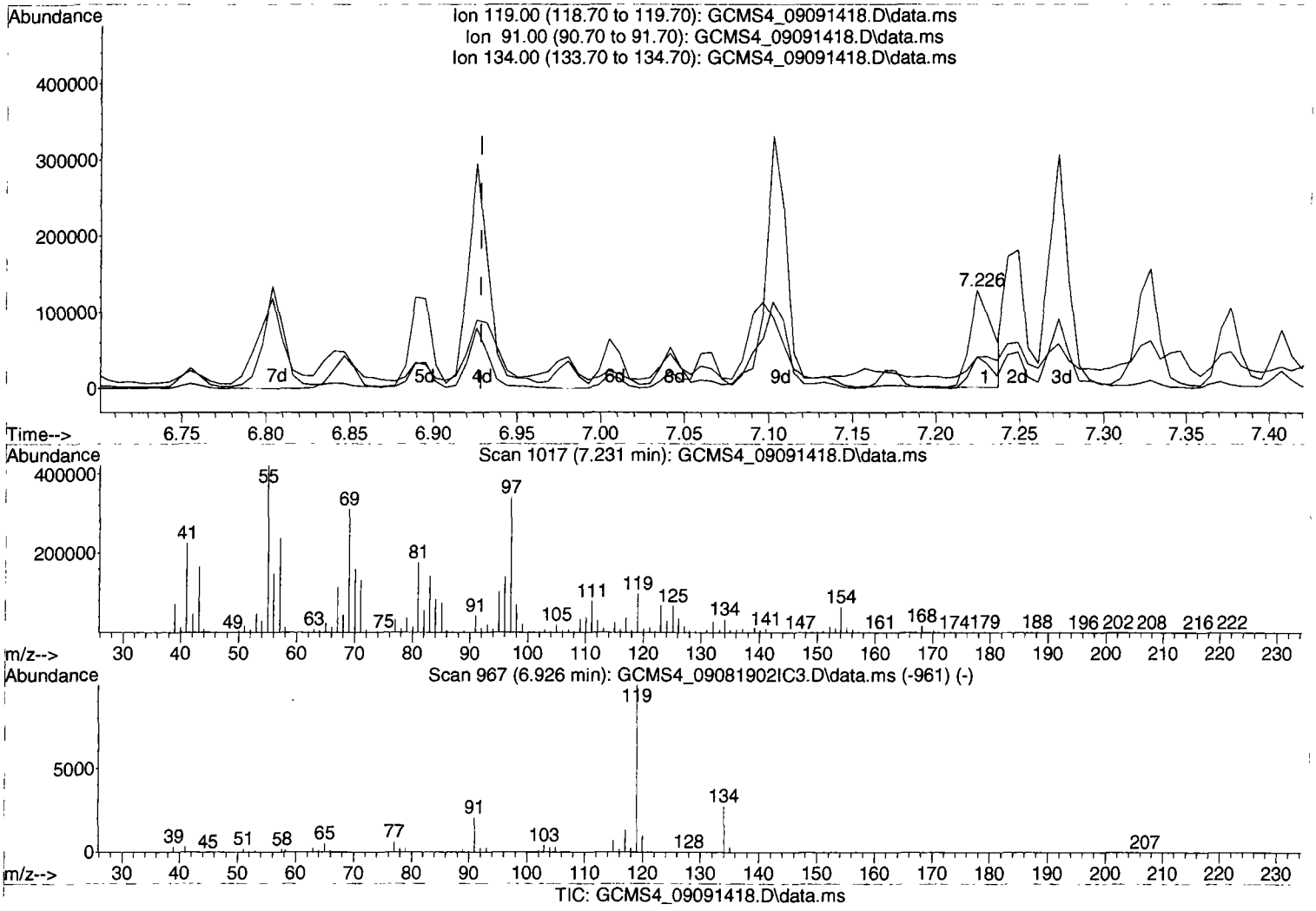
Ion	Exp%	Act%
91.00	100	100
134.05	28.20	88.00#
92.00	52.40	33.64#
0.00	0.00	0.00

after
CMY 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:46:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(63) p-Isopropyltoluene (M)

7.229min (+0.301) 13.91ng

response 1018427

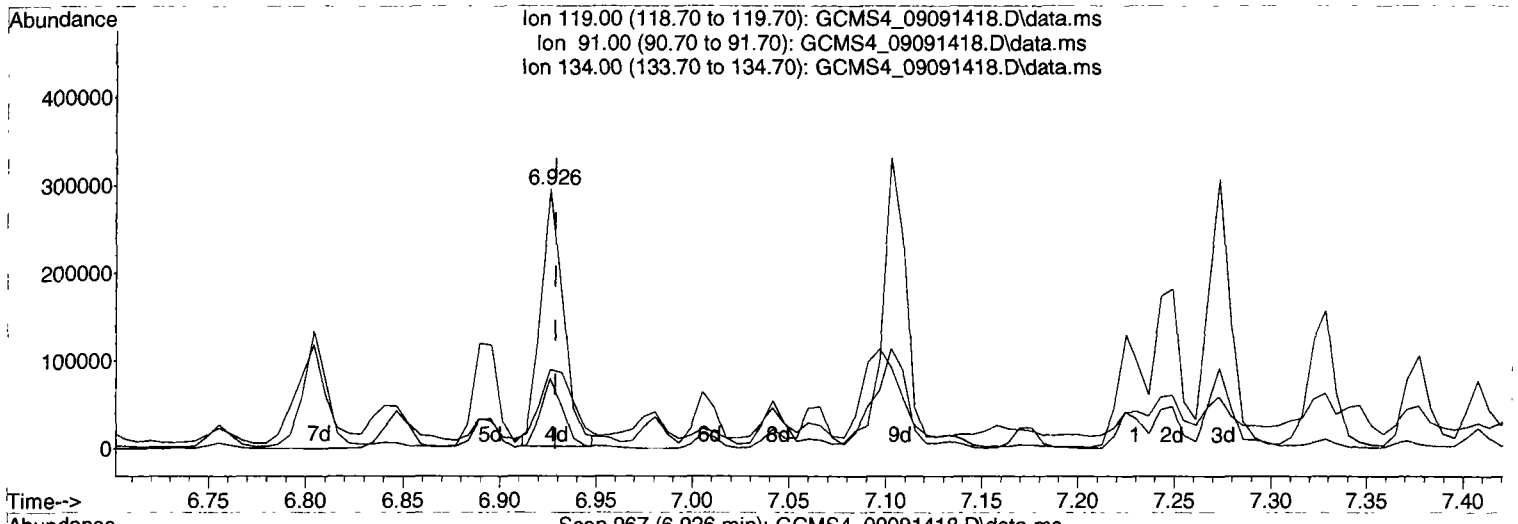
Ion	Exp%	Act%
119.00	100	100
91.00	25.00	23.89
134.00	29.00	33.03
0.00	0.00	0.00

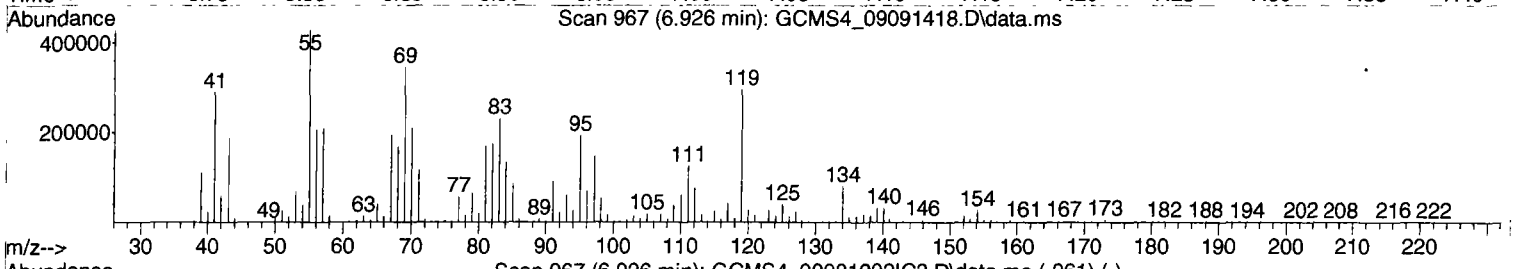
bgne P
CMY 9/25/09

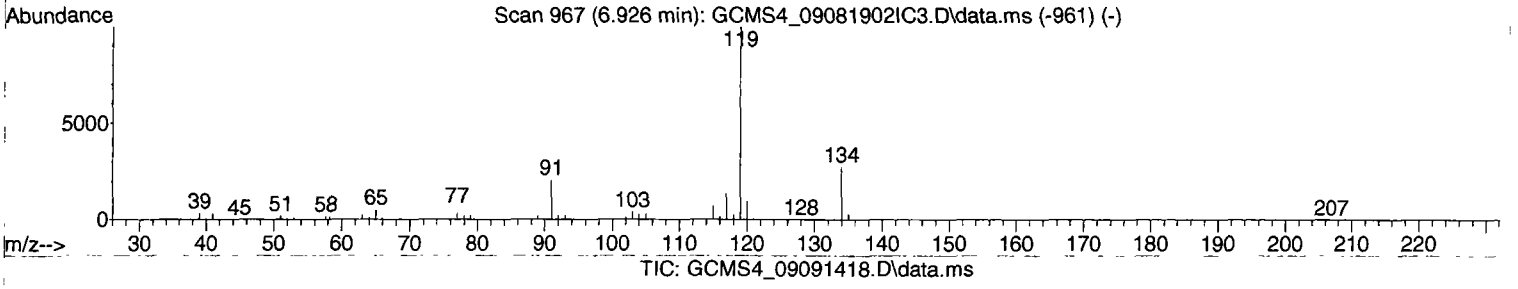
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:46:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration







TIC: GCMS4_09091418.D\data.ms

(63) p-Isopropyltoluene (M)

6.926min (-0.003) 33.21ng m

response 2431581

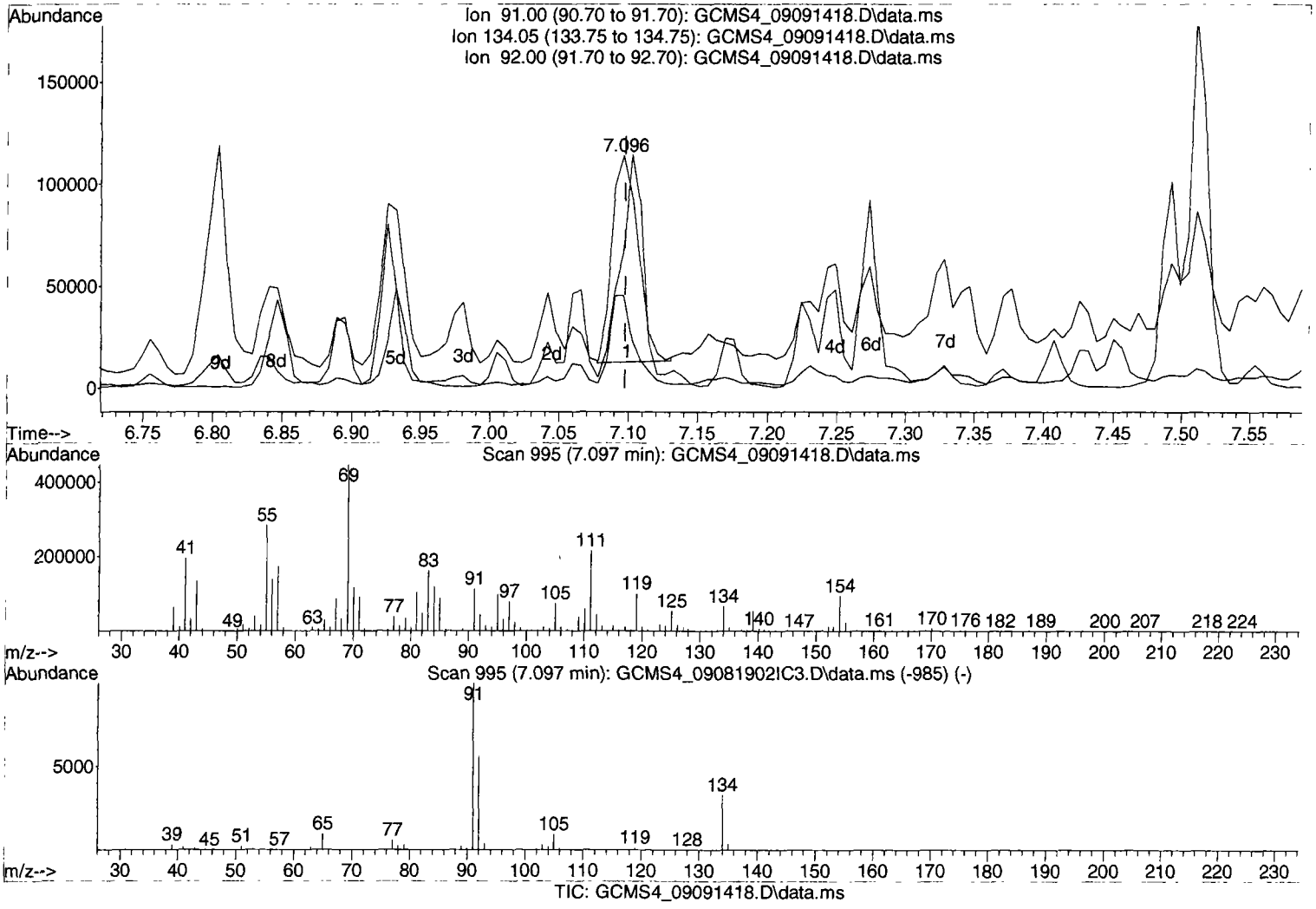
Ion	Exp%	Act%
119.00	100	100
91.00	25.00	10.01#
134.00	29.00	13.84#
0.00	0.00	0.00

after
cmy 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:46:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(67) n-Butylbenzene (M)

7.099min (+0.001) 21.53ng

response 1313243

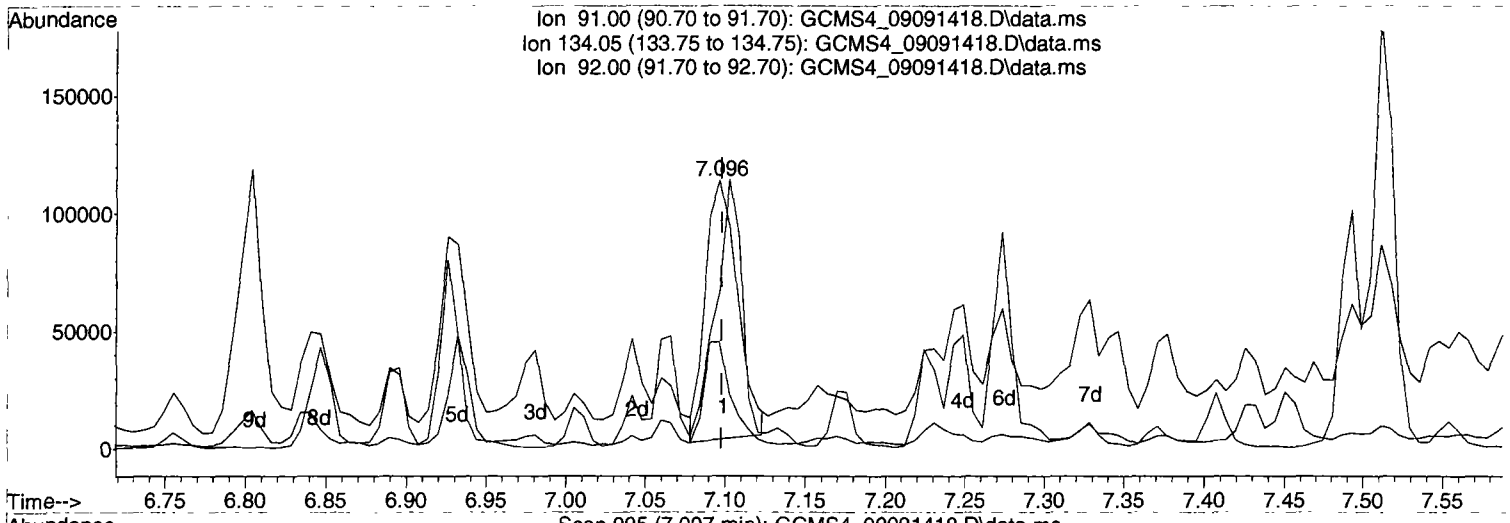
Ion	Exp%	Act%
91.00	100	100
134.05	28.20	102.33#
92.00	52.40	39.12
0.00	0.00	0.00

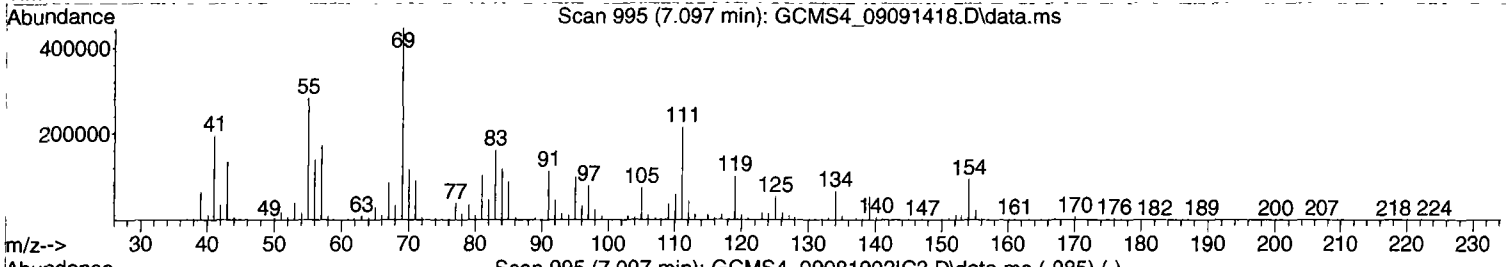
bzne IB
CAY 9/25/09

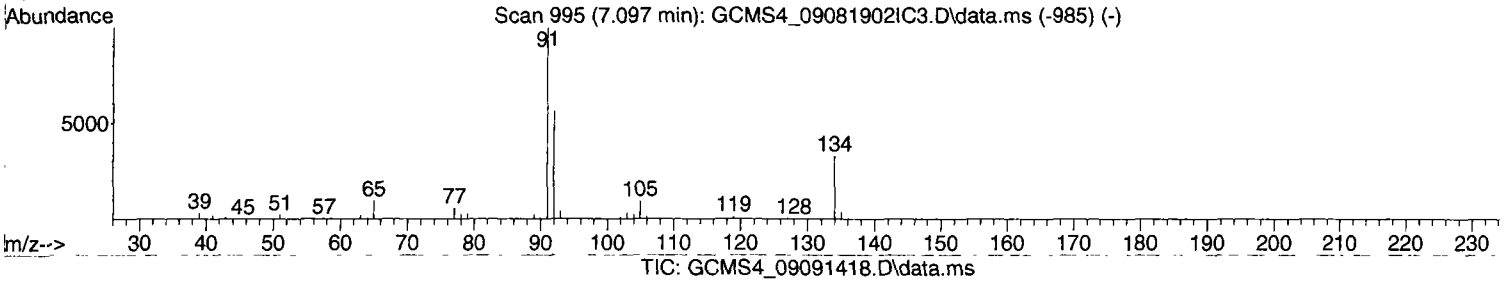
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:46:39 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration







TIC: GCMS4_09091418.D\data.ms

(67) n-Butylbenzene (M)

7.097min (-0.001) 24.66ng m

response 1504255

Ion	Exp%	Act%
91.00	100	100
134.05	28.20	89.33#
92.00	52.40	34.15
0.00	0.00	0.00

after
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:50:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.148	96	2407137	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.806	82	895654	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	656400	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.977	84	2411373	38.67 ng	0.00
34) TOLUENE-D8	5.137	98	2141359	47.09 ng	0.00
52) p-BROMOFLUOROBENZENE	6.343	95	755263	55.81 ng	0.00
Target Compounds					Qvalue
35) Toluene	5.171	91	2176861	24.74 ng	97
46) Ethylbenzene	5.916	91	1061560	13.74 ng	98
47) m- &/or p-Xylene	6.003	91	2668599	44.54 ng	97
48) o-Xylene	6.173	91	2083672	32.68 ng	97 ✓
51) Isopropylbenzene	6.332	105	1950418	25.62 ng	98 ✓
59) 1,3,5-Trimethylbenzene	6.647	105	5040959	74.28 ng	93 ✓
61) 1,2,4-Trimethylbenzene	6.807	105	7917541	122.13 ng	93 ✓
62) sec-Butylbenzene	6.849	105	1785673	19.79 ng	93
63) p-Isopropyltoluene	6.926	119	2431581m	33.21 ng ✓	
67) n-Butylbenzene	7.097	91	1504255m	24.66 ng	
72) Naphthalene	7.962	128	75594905	901.24 ng	97 ✓

(#) = qualifier out of range (m) = manual integration (+) = signals summed

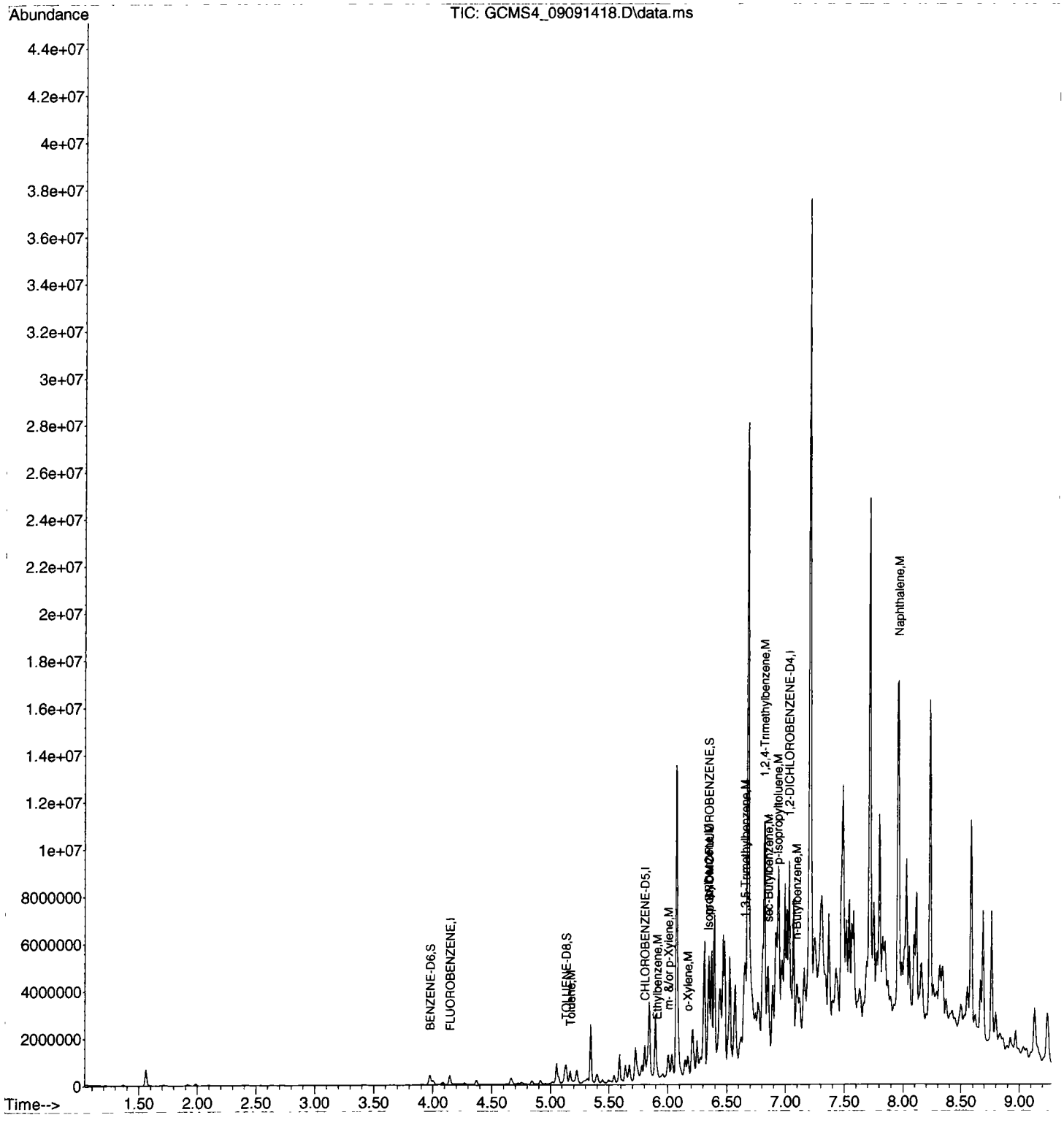
✓ These six compounds have concentration above report limits and are reported

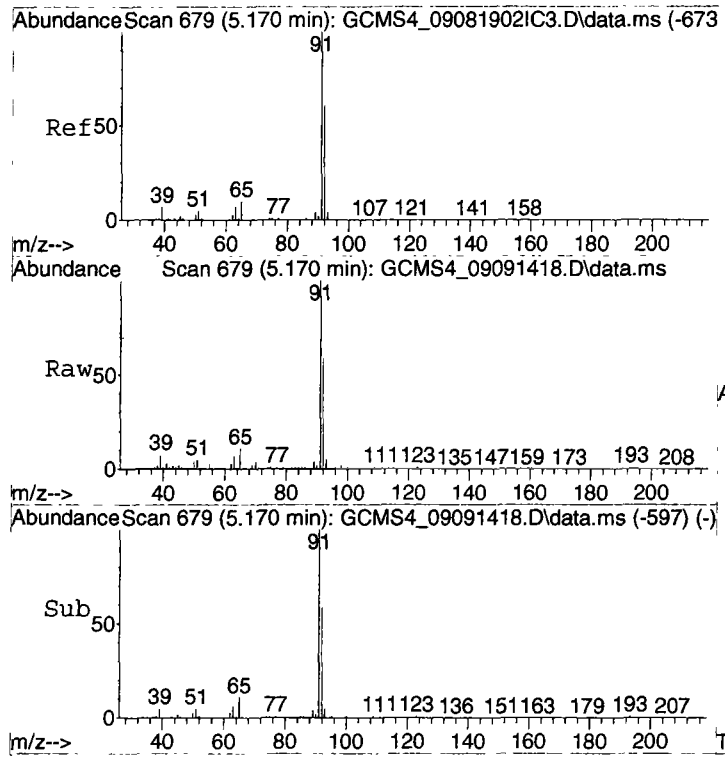
emg 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091418.D
Acq On : 14 Sep 2009 17:56
Operator : CTANG
Sample : 0909005-05
Misc : T26-125-1.0-3.0
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 15 09:50:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

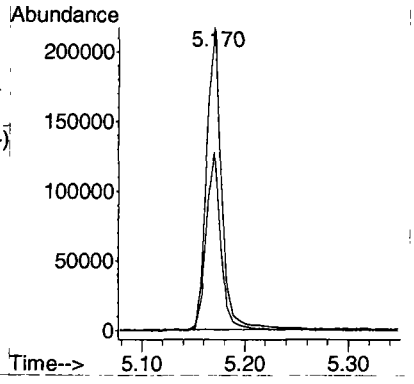


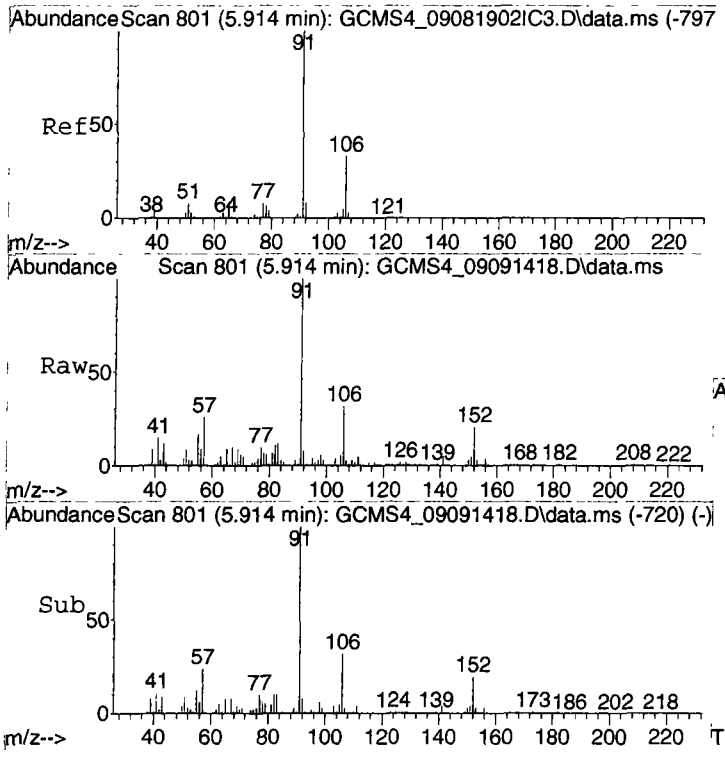


#35
Toluene
Concen: 24.74 ng
RT: 5.171 min Scan# 679
Delta R.T. -0.000 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion: 91 Resp: 2176861

Ion	Ratio	Lower	Upper
91	100		
92	58.2	39.5	81.9

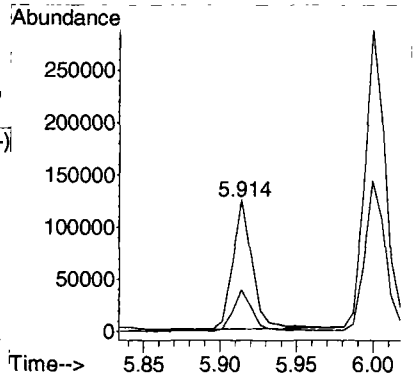


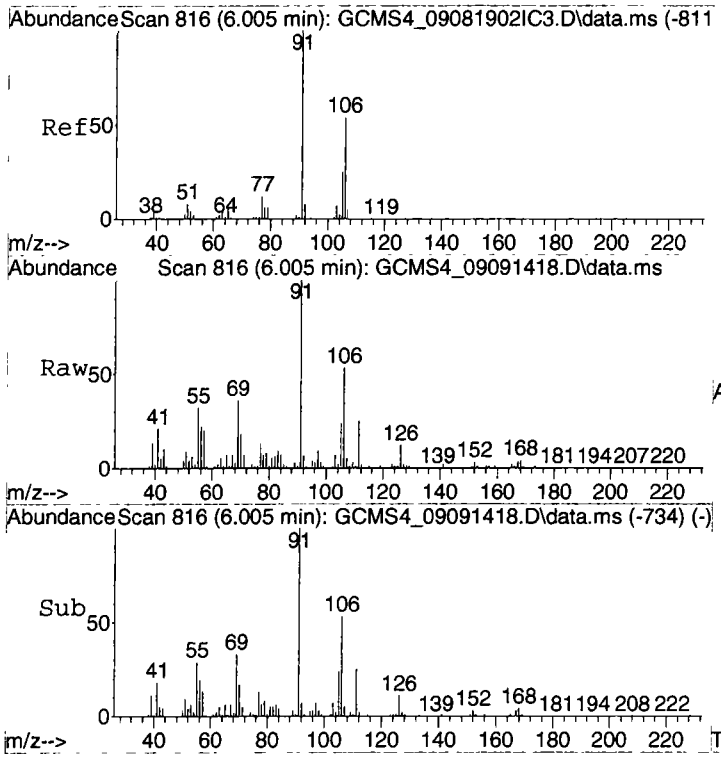


#46
Ethylbenzene
Concen: 13.74 ng
RT: 5.916 min Scan# 801
Delta R.T. -0.001 min
Lab File: GCMS4_09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion: 91 Resp: 1061560

Ion	Ratio	Lower	Upper
91	100		
106	32.0	20.0	41.6

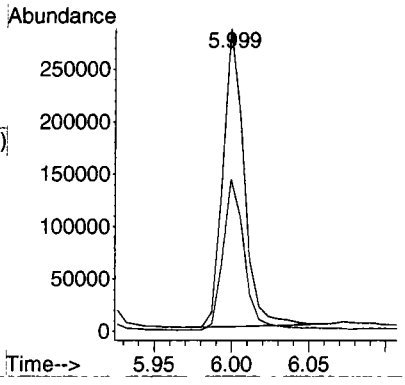


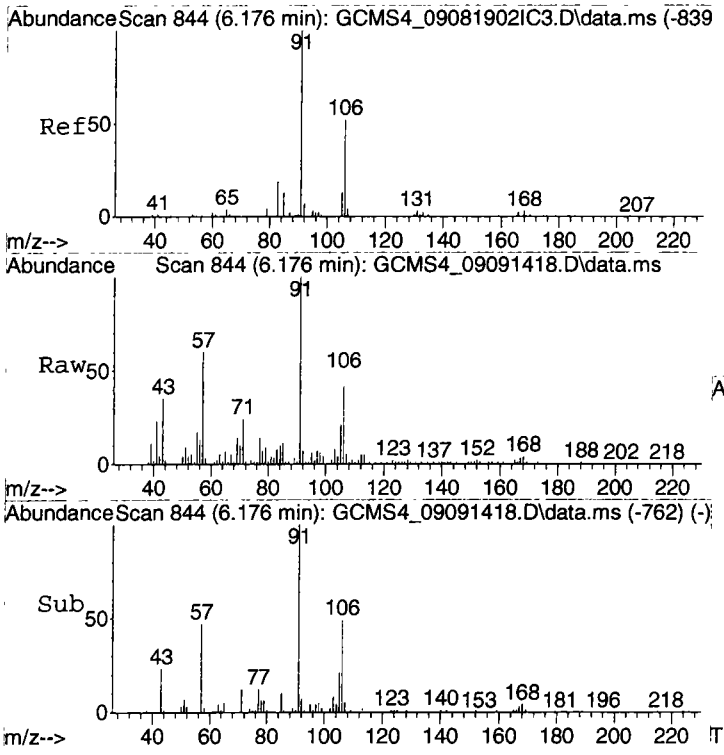


#47
m- &/or p-Xylene
Concen: 44.54 ng
RT: 6.003 min Scan# 816
Delta R.T. -0.003 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion: 91 Resp: 2668599

Ion	Ratio	Lower	Upper
91	100		
106	51.0	32.0	66.4

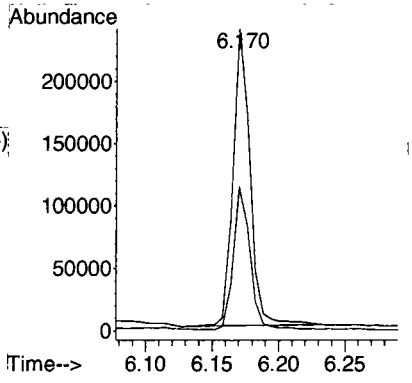


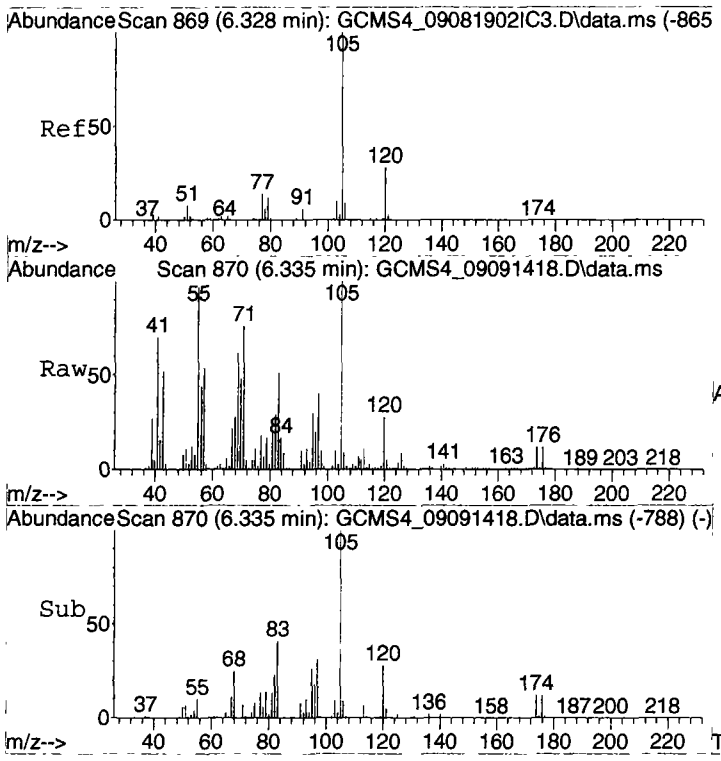


#48
o-Xylene
Concen: 32.68 ng
RT: 6.173 min Scan# 844
Delta R.T. -0.000 min
Lab File: GCMS4_09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion: 91 Resp: 2083672

Ion	Ratio	Lower	Upper
91	100		
106	47.0	29.4	61.2

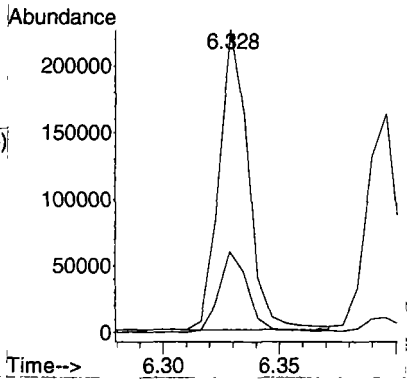


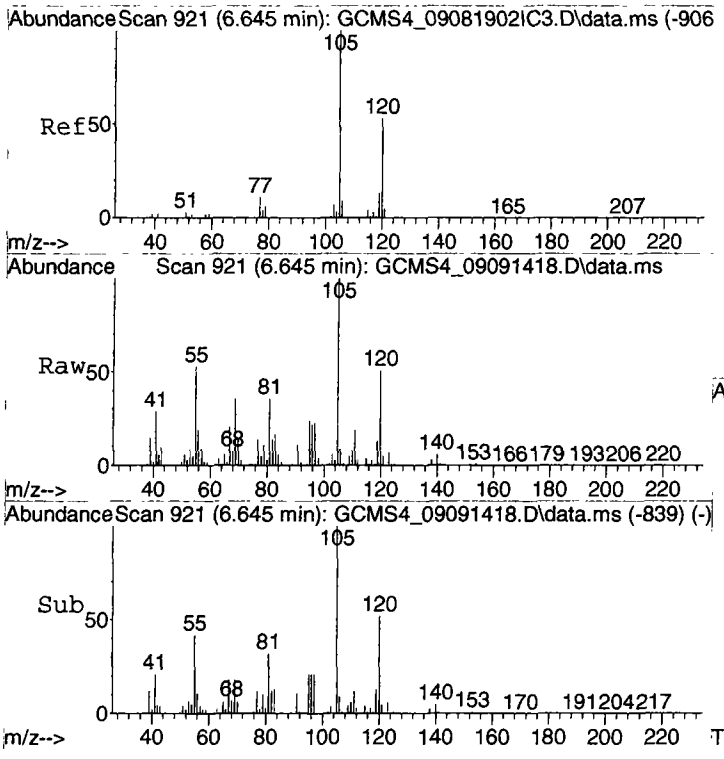


#51
Isopropylbenzene
Concen: 25.62 ng
RT: 6.332 min Scan# 870
Delta R.T. -0.001 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:105 Resp: 1950418

Ion	Ratio	Lower	Upper
105	100		
120	25.9	16.3	33.8

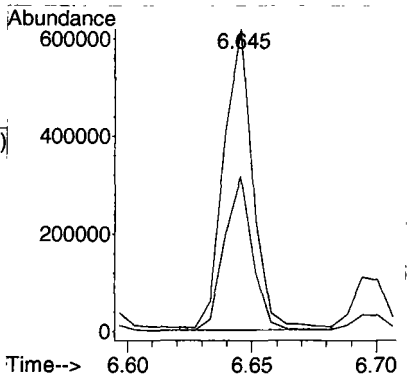


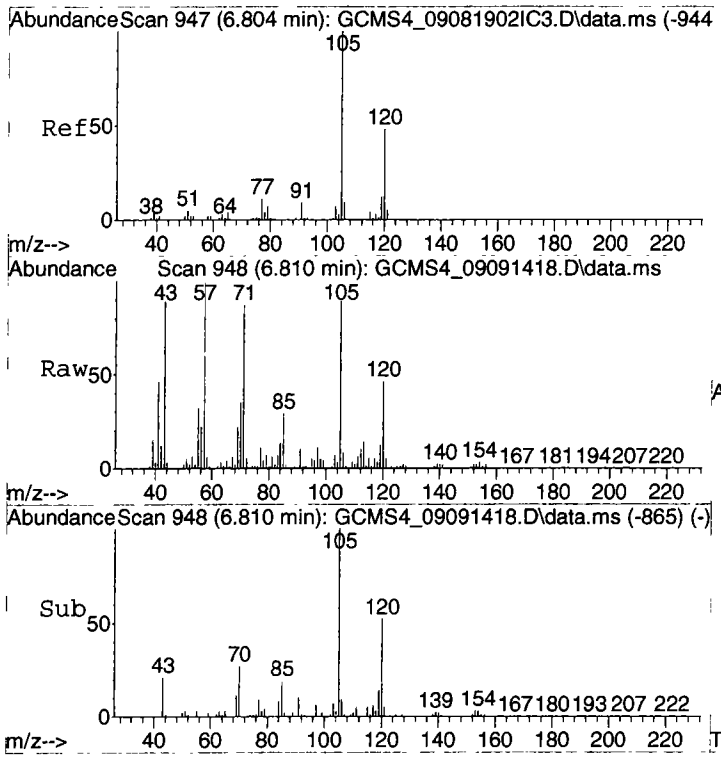


#59
1,3,5-Trimethylbenzene
Concen: 74.28 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.000 min
Lab File: GCMS4_09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:105 Resp: 5040959

Ion	Ratio	Lower	Upper
105	100		
120	49.0	28.7	59.7

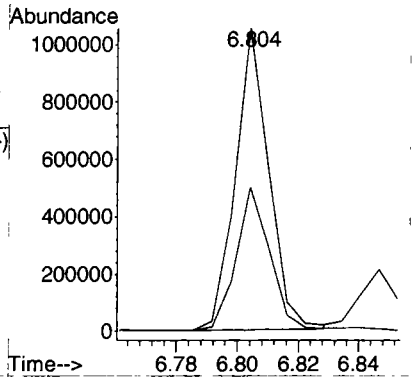


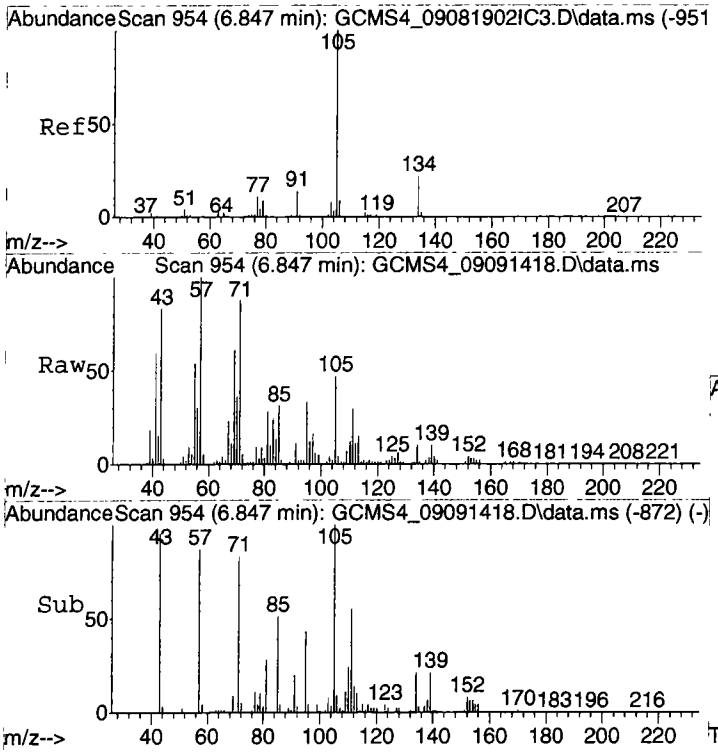


#61
1,2,4-Trimethylbenzene
Concen: 122.13 ng
RT: 6.807 min Scan# 948
Delta R.T. 0.000 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:105 Resp: 7917541

Ion	Ratio	Lower	Upper
105	100		
120	49.8	29.3	60.8

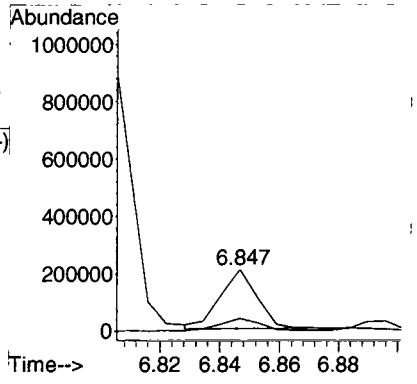


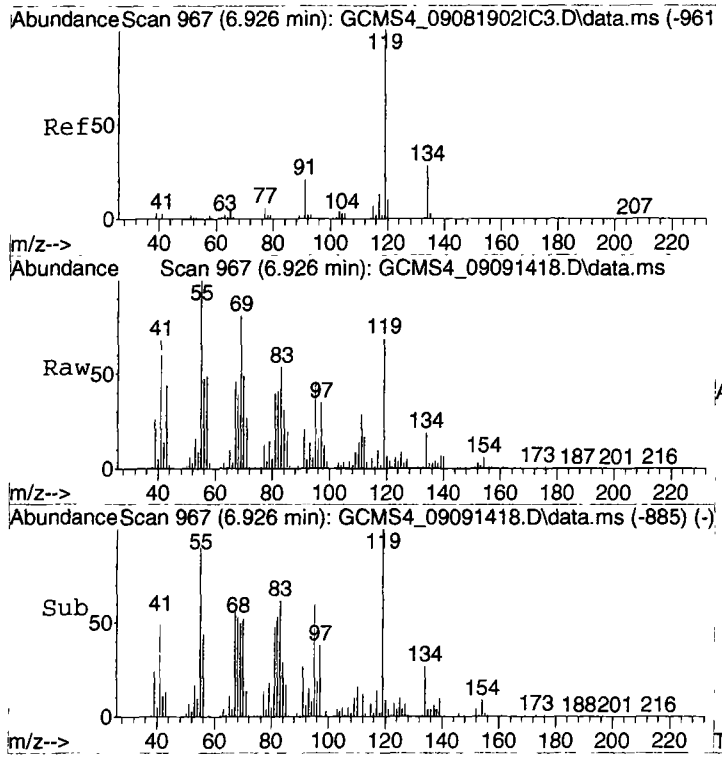


#62
sec-Butylbenzene
Concen: 19.79 ng
RT: 6.849 min Scan# 954
Delta R.T. -0.000 min
Lab File: GCMS4_09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:105 Resp: 1785673

Ion	Ratio	Lower	Upper
105	100		
134	22.8	12.7	26.3

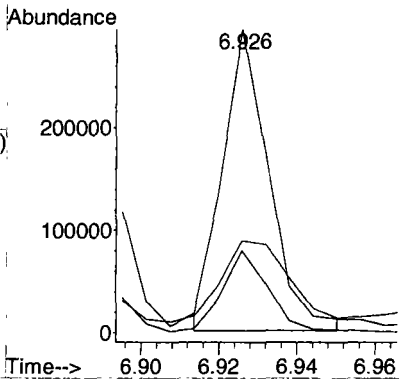


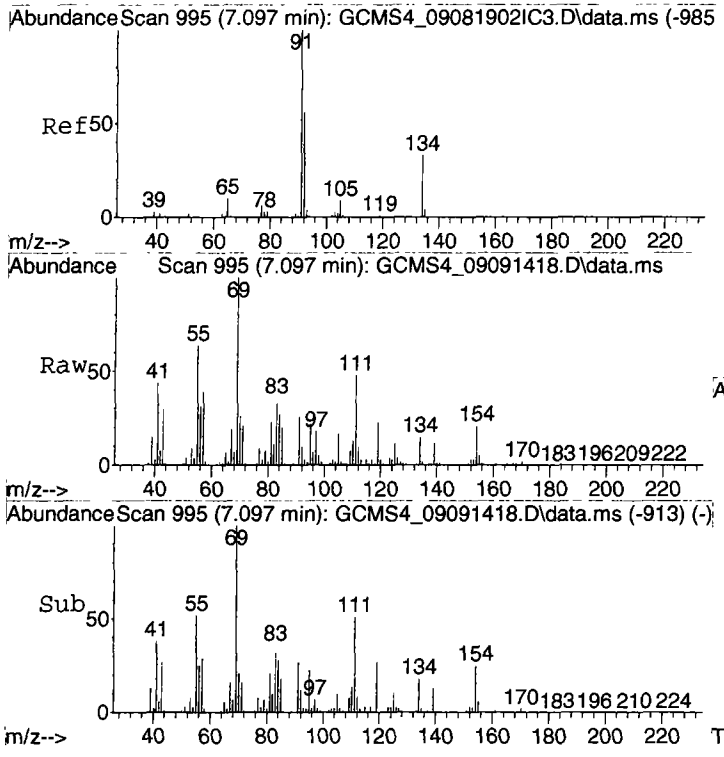


#63
p-Isopropyltoluene
Concen: 33.21 ng m
RT: 6.926 min Scan# 967
Delta R.T. -0.003 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:119 Resp: 2431581

Ion	Ratio	Lower	Upper
119	100		
91	10.0	16.3	33.8#
134	13.8	18.9	39.1#

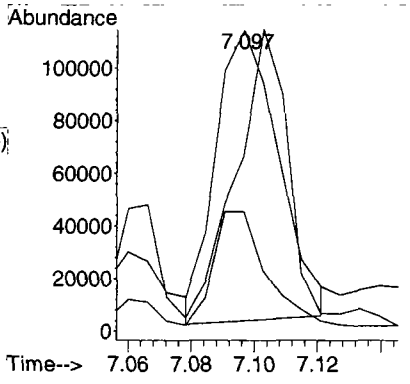


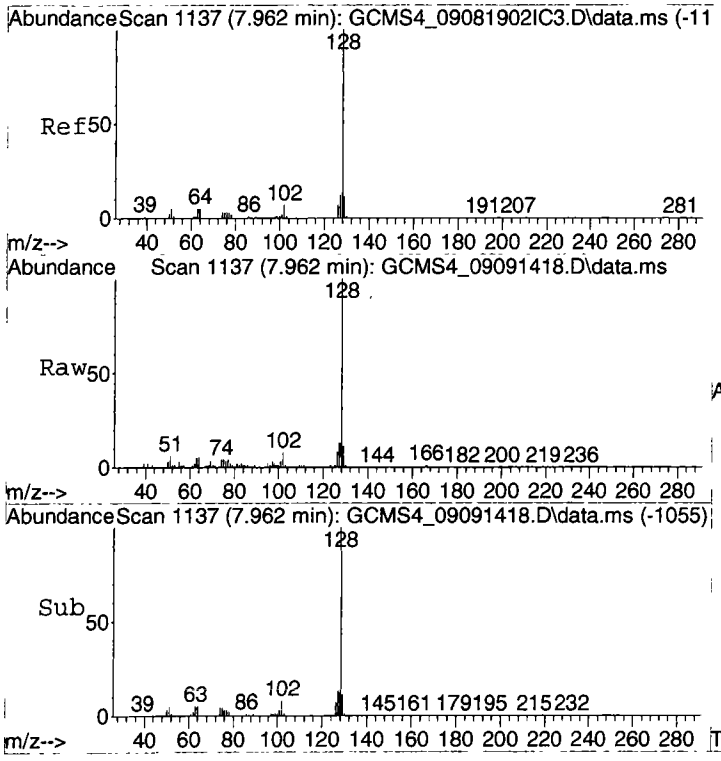


#67
n-Butylbenzene
Concen: 24.66 ng m
RT: 7.097 min Scan# 995
Delta R.T. -0.001 min
Lab File: GCMS4_09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion: 91 Resp: 1504255

Ion	Ratio	Lower	Upper
91	100		
134	89.3	18.3	38.1#
92	34.2	34.1	70.7

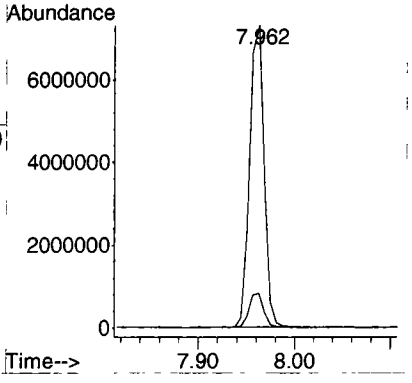




#72
Naphthalene
Concen: 901.24 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.002 min
Lab File: GCMS4 09091418.D
Acq: 14 Sep 2009 17:56

Tgt Ion:128 Resp:75594905

Ion	Ratio	Lower	Upper
128	100		
129	11.3	6.7	13.9



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091419.D
Acq On : 14 Sep 2009 18:17
Operator : CTANG
Sample : 0909005-02
Misc : T18-50-1.0-3.0
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 15 09:51:40 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.148	96	2371364	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.806	82	912969	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.040	152	783586	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.977	84	2365316	38.50 ng	0.00
34) TOLUENE-D8	5.138	98	2116463	47.24 ng	0.00
52) p-BROMOFLUOROBENZENE	6.345	95	765217	55.47 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.719	43	212130	33.75 ng	98
72) Naphthalene	7.963	128	9683121	96.70 ng	99 ✓

(#) = qualifier out of range (m) = manual integration (+) = signals summed

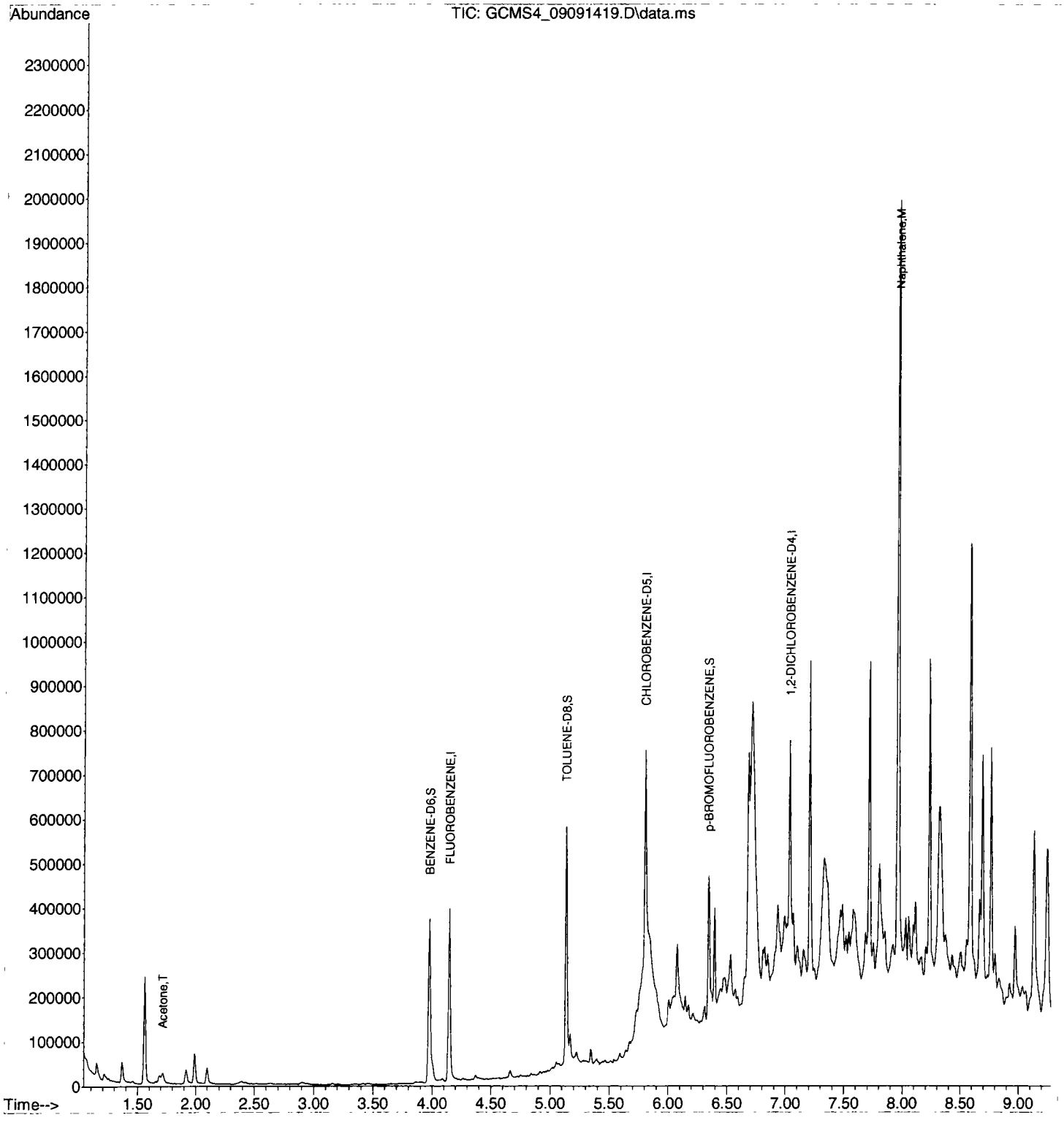
✓ Naphthalene is reported.

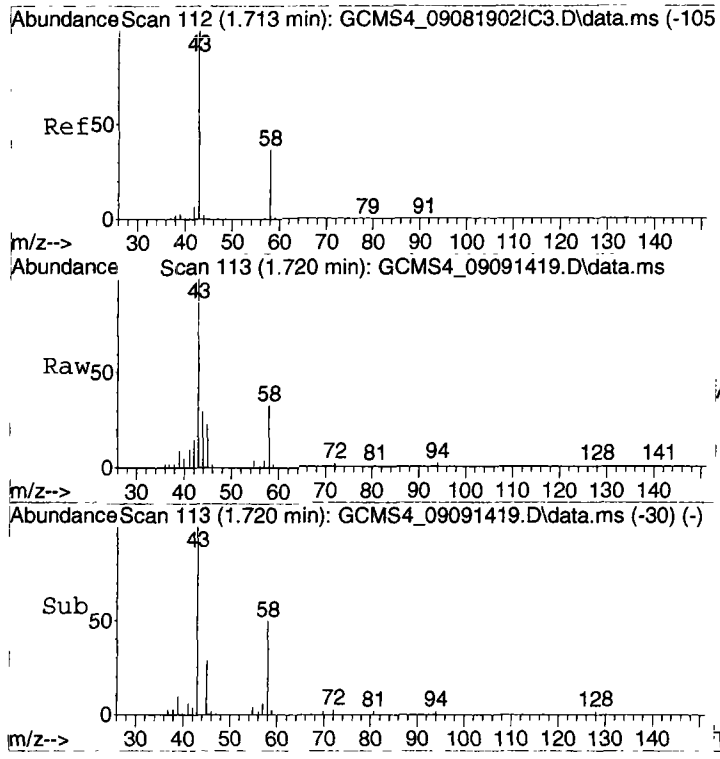
CAM 9/28/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091419.D
Acq On : 14 Sep 2009 18:17
Operator : CTANG
Sample : 0909005-02
Misc : T18-50-1.0-3.0
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 15 09:51:40 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

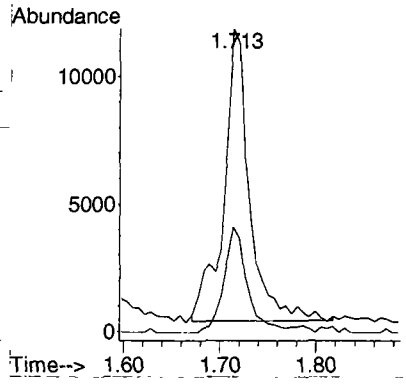


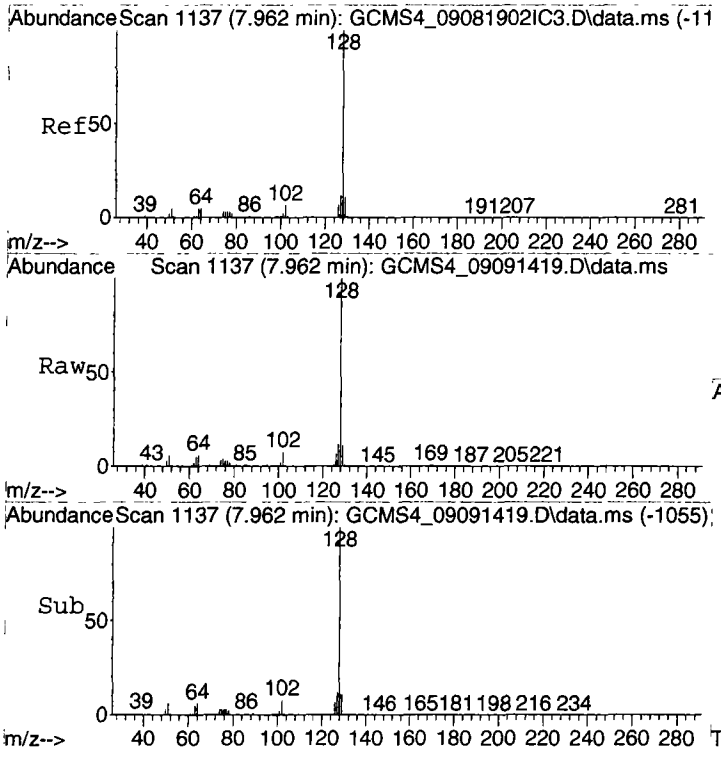


#10
Acetone
Concen: 33.75 ng
RT: 1.719 min Scan# 113
Delta R.T. 0.003 min
Lab File: GCMS4 09091419.D
Acq: 14 Sep 2009 18:17

Tgt Ion: 43 Resp: 212130

Ion	Ratio	Lower	Upper
43	100		
58	28.8	19.5	40.5

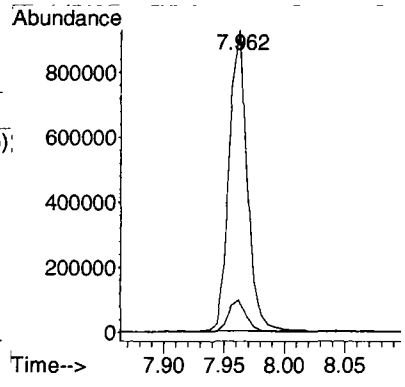




#72
Naphthalene
Concen: 96.70 ng
RT: 7.963 min Scan# 1137
Delta R.T. -0.001 min
Lab File: GCMS4_09091419.D
Acq: 14 Sep 2009 18:17

Tgt Ion:128 Resp: 9683121

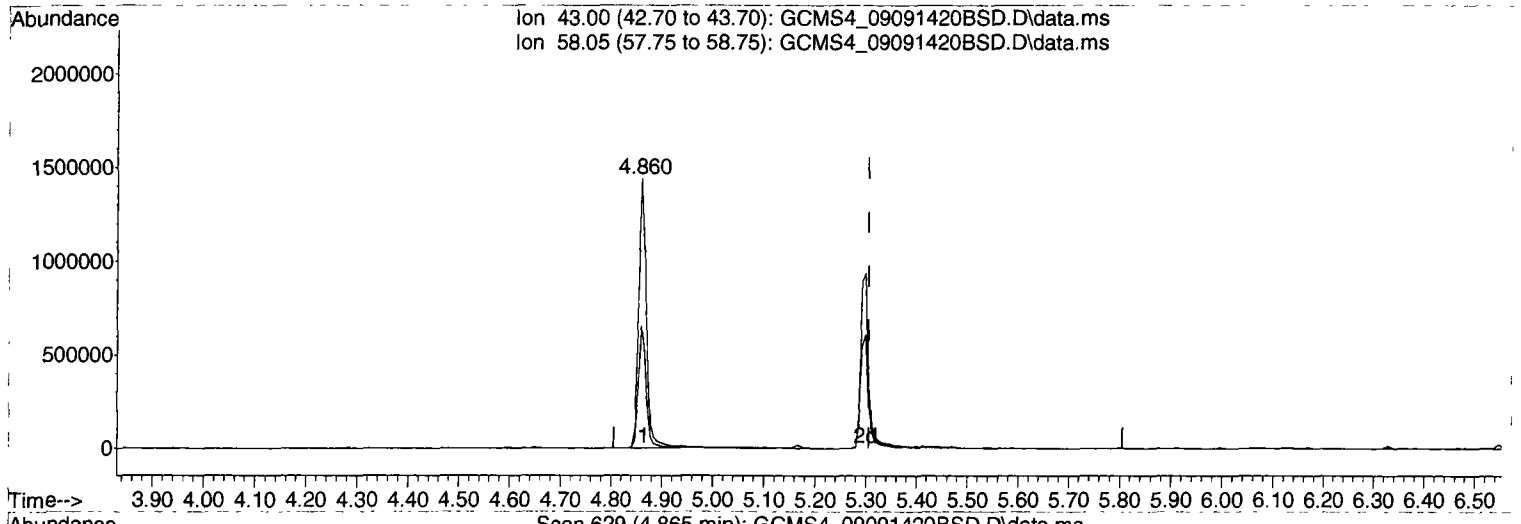
Ion	Ratio	Lower	Upper
128	100		
129	10.8	6.7	13.9

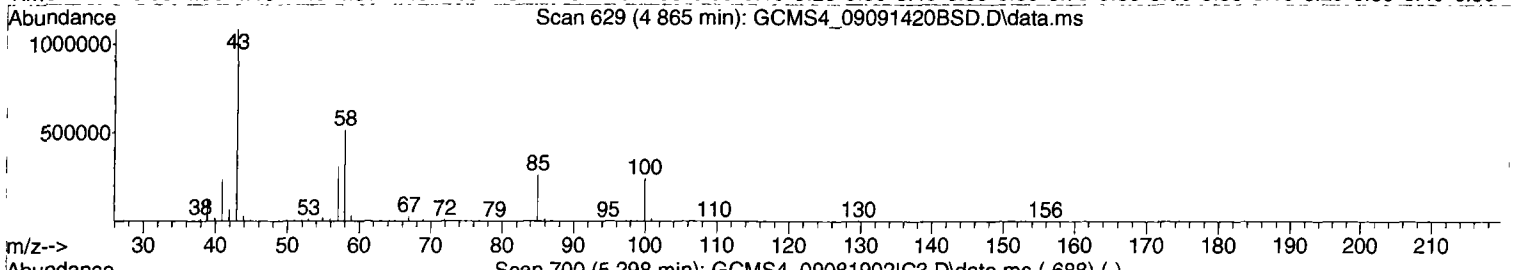


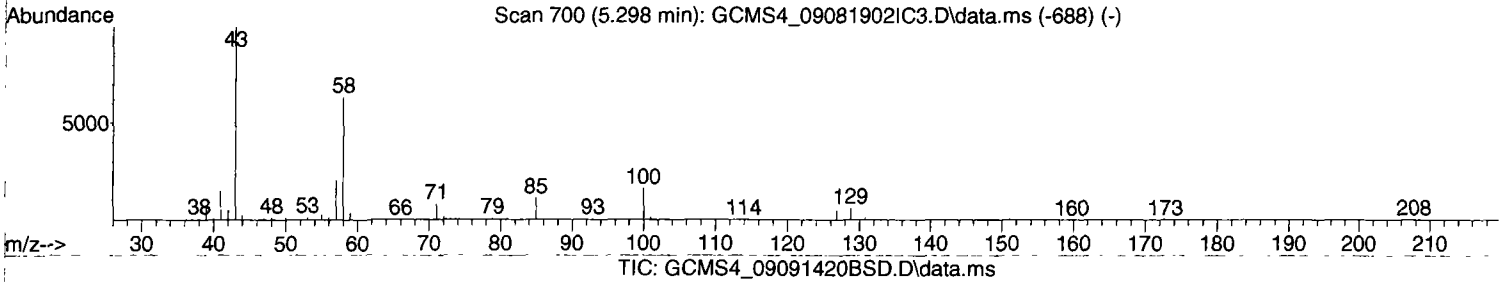
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 18:46:43 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration







TIC: GCMS4_09091420BSD.D\data.ms

(40) 2-Hexanone (T)

4.863min (-0.441) 927.95ng

response 14921279

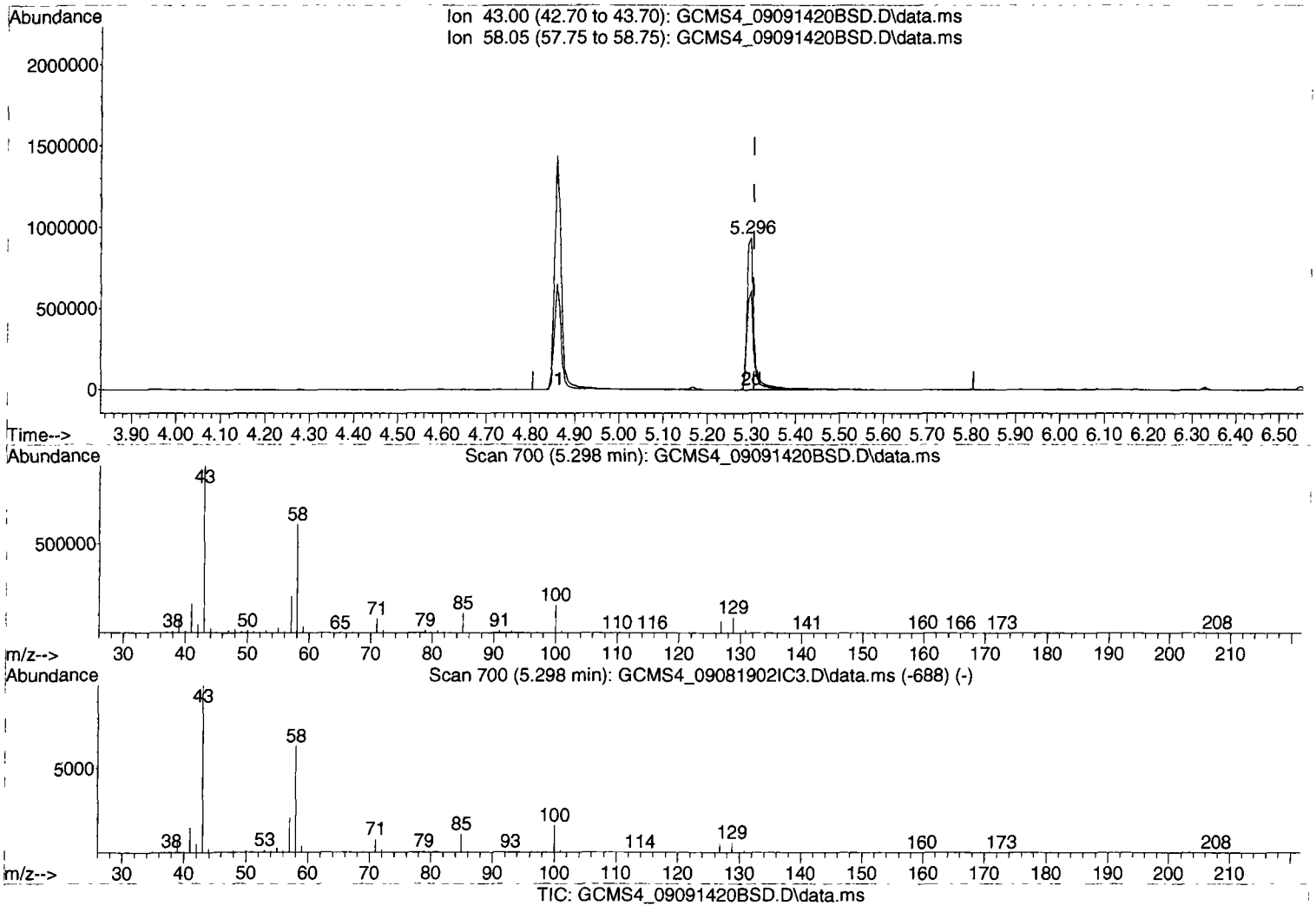
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.46
0.00	0.00	0.00
0.00	0.00	0.00

before P
CTANG 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 14 18:46:43 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 669.40ng m

response 10763798

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	63.01#
0.00	0.00	0.00
0.00	0.00	0.00

after
Ctang 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 15 09:52:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.147	96	2468692	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.804	82	1212792	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	867425	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.975	84	2781554	43.49 ng	0.00
34) TOLUENE-D8	5.136	98	2335449	50.08 ng	0.00
52) p-BROMOFLUOROBENZENE	6.343	95	863487	47.12 ng	0.00

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	1294515	235.99 ng		98
3) Chloromethane	1.149	50	2864914	208.29 ng		95
4) Vinyl chloride	1.211	62	963276	228.27 ng		98
5) Bromomethane	1.364	94	1396326	247.53 ng		98
6) Chloroethane	1.418	64	1492140	292.61 ng		96
7) Trichlorofluoromethane	1.656	101	3024697	244.36 ng		100
8) Acrolein	1.654	56	1480397	1545.89 ng		93
9) 1,1-Dichloroethene	1.909	96	3468346	197.81 ng		92
10) Acetone	1.712	43	10832129	1655.28 ng		87
11) Carbon disulfide	2.096	76	9750575	198.00 ng		97
12) Methylene chloride	1.989	84	6086425	238.10 ng		82
13) Acrylonitrile	1.946	53	14378380	1593.91 ng		98
14) trans-1,2-Dichloroethene	2.391	96	4296937	208.62 ng		91
15) 1,1-Dichloroethane	2.562	63	7537542	223.56 ng	#	95
16) 2-Butanone	2.930	43	16636663	1648.06 ng	#	70
17) cis-1,2-Dichloroethene	3.026	96	5454522	228.17 ng		89
18) 2,2-Dichloropropane	3.257	77	3485151	191.49 ng		99
19) Bromochloromethane	3.154	128	3011002	269.47 ng		98
20) Chloroform	3.204	83	7915518	234.56 ng		94
21) 1,1,1-Trichloroethane	3.738	97	4424571	193.27 ng		94
22) 1,1-Dichloropropene	3.871	75	4951379	189.32 ng		97
23) Carbon tetrachloride	3.968	117	2529128	173.78 ng		89
25) 1,2-Dichloroethane	3.680	62	5451793	284.73 ng		94
26) Benzene	4.001	78	19506845	226.78 ng		97
27) Trichloroethene	4.392	130	4801962	206.72 ng		95
28) 1,2-Dichloropropane	4.364	63	4836379	255.33 ng		99
29) Dibromomethane	4.337	174	3299491	281.75 ng		97
30) Bromodichloromethane	4.416	83	4886024	244.62 ng		96
32) cis-1,3-Dichloropropene	4.782	75	5455823	260.22 ng		98
33) 4-Methyl-2-pentanone	4.863	43	14922972	663.32 ng	#	93
35) Toluene	5.170	91	20443110	226.58 ng		99
36) trans-1,3-Dichloropropene	5.012	75	5456247	287.31 ng		95
37) 1,1,2-Trichloroethane	5.079	97	5148988	289.98 ng		96
38) 1,3-Dichloropropane	5.198	76	8723762	300.05 ng		92
39) Tetrachloroethene	5.512	166	4608167	188.08 ng		98
40) 2-Hexanone	5.298	43	10763798m	669.40 ng		
41) Dibromochloromethane	5.311	129	4348951	279.47 ng		96
42) 1,2-Dibromoethane	5.424	107	5081392	308.03 ng		94
44) Chlorobenzene	5.819	112	14022875	216.61 ng		93
45) 1,1,1,2-Tetrachloroethane	5.787	131	4995419	229.20 ng		93
46) Ethylbenzene	5.915	91	22002253	210.31 ng		98
47) m- &/or p-Xylene	6.003	91	34485608	425.07 ng		99
48) o-Xylene	6.173	91	19051760	220.65 ng		97
49) Styrene	6.144	104	16270748	220.09 ng		91
50) Bromoform	6.034	173	3806190	277.22 ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 15 09:52:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

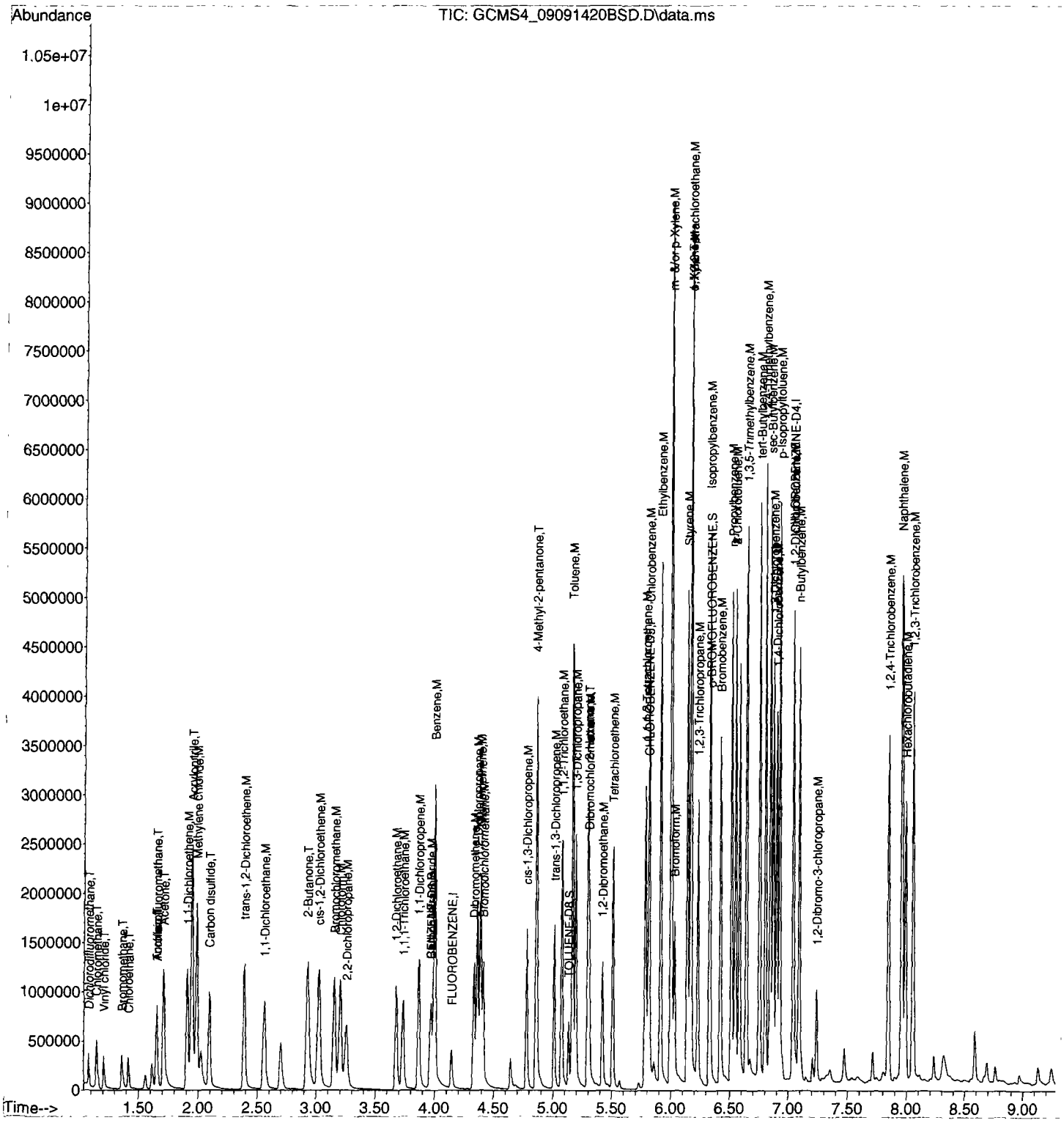
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	21060097	204.29 ng	95
53) 1,1,2,2-Tetrachloroethane	6.171	83	7285369	290.48 ng	99
54) 1,2,3-Trichloropropane	6.232	75	6690347	297.18 ng	95
55) Bromobenzene	6.425	156	6591789	220.19 ng	92
56) n-Propylbenzene	6.518	91	21685476	188.40 ng	98
57) 2-Chlorotoluene	6.551	91	15550625	197.23 ng	96
58) 4-Chlorotoluene	6.551	91	15550625	196.86 ng	93
59) 1,3,5-Trimethylbenzene	6.646	105	18493337	201.25 ng	90
60) tert-Butylbenzene	6.757	119	16231817	201.10 ng	92
61) 1,2,4-Trimethylbenzene	6.807	105	18211393	207.46 ng	93
62) sec-Butylbenzene	6.848	105	23252169	190.30 ng	97
63) p-Isopropyltoluene	6.928	119	18547013	187.07 ng	95
64) 1,3-Dichlorobenzene	6.873	146	9693996	200.04 ng	98
65) 1,4-Dichlorobenzene	6.902	146	11225273	183.93 ng	94
67) n-Butylbenzene	7.095	91	14791660	183.53 ng	96
68) 1,2-Dichlorobenzene	7.047	146	11667454	236.90 ng	94
69) 1,2-Dibromo-3-chloropr...	7.244	157	1818828	300.88 ng	92
70) 1,2,4-Trichlorobenzene	7.848	180	7304007	190.80 ng	96
71) Hexachlorobutadiene	7.994	225	4001582	179.73 ng	96
72) Naphthalene	7.962	128	28370966	255.95 ng	97
73) 1,2,3-Trichlorobenzene	8.057	180	8246256	214.77 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 15 09:52:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 15 09:52:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.111	0.105	5.4	104	0.00
3	T	Chloromethane	0.279	0.232	16.8	102	0.00
4	T	Vinyl chloride	0.085	0.078	8.2	99	0.00
5	T	Bromomethane	0.114	0.113	0.9	96	0.00
6	T	Chloroethane	0.103	0.121	-17.5	113	0.00
7	T	Trichlorofluoromethane	0.251	0.245	2.4	103	0.00
8	T	Acrolein	0.019	0.024	-26.3#	109	0.00
9	M	1,1-Dichloroethene	0.355	0.281	20.8	56	0.00
10	T	Acetone	0.133	0.176	-32.3#	123	0.00
11	T	Carbon disulfide	0.997	0.790	20.8	61	0.00
12	M	Methylene chloride	0.518	0.493	4.8	84	0.00
13	T	Acrylonitrile	0.183	0.233	-27.3#	128	0.00
14	M	trans-1,2-Dichloroethene	0.417	0.348	16.5	65	0.00
15	M	1,1-Dichloroethane	0.683	0.611	10.5	69	0.00
16	T	2-Butanone	0.204	0.270	-32.4#	127	-0.01
17	M	cis-1,2-Dichloroethene	0.484	0.442	8.7	72	0.00
18	M	2,2-Dichloropropane	0.369	0.282	23.6	57	0.00
19	M	Bromochloromethane	0.226	0.244	-8.0	93	0.00
20	M	Chloroform	0.683	0.641	6.1	73	0.00
21	M	1,1,1-Trichloroethane	0.464	0.358	22.8	56	0.00
22	M	1,1-Dichloropropene	0.530	0.401	24.3	55	0.00
23	M	Carbon tetrachloride	0.295	0.205	30.5#	48#	0.00
24	S	BENZENE-D6	1.295	1.127	13.0	90	0.00
25	M	1,2-Dichloroethane	0.388	0.442	-13.9	98	0.00
26	M	Benzene	1.742	1.580	9.3	68	0.00
27	M	Trichloroethene	0.470	0.389	17.2	61	0.00
28	M	1,2-Dichloropropane	0.384	0.392	-2.1	80	0.00
29	M	Dibromomethane	0.237	0.267	-12.7	102	0.00
30	M	Bromodichloromethane	0.405	0.396	2.2	77	0.00
31	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	98	0.00
32	M	cis-1,3-Dichloropropene	0.425	0.442	-4.0	86	0.00
33	T	4-Methyl-2-pentanone	0.456	0.604	-32.5#	118	0.00
34	S	TOLUENE-D8	0.945	0.946	-0.1	101	0.00
35	M	Toluene	1.827	1.656	9.4	66	0.00
36	M	trans-1,3-Dichloropropene	0.385	0.442	-14.8	94	0.00
37	M	1,1,2-Trichloroethane	0.360	0.417	-15.8	95	0.00
38	M	1,3-Dichloropropane	0.589	0.707	-20.0	100	0.00
39	M	Tetrachloroethene	0.496	0.373	24.8	53	0.00
40	T	2-Hexanone	0.326	0.436	-33.7#	136	0.00
41	M	Dibromochloromethane	0.315	0.352	-11.7	88	0.00
42	M	1,2-Dibromoethane	0.334	0.412	-23.4	106	0.00
43	I	CHLOROBENZENE-D5	1.000	1.000	0.0	93	0.00
44	M	Chlorobenzene	2.669	2.312	13.4	67	0.00
45	M	1,1,1,2-Tetrachloroethane	0.899	0.824	8.3	72	0.00
46	M	Ethylbenzene	4.313	3.628	15.9	63	0.00
47	M	m- &/or p-Xylene	3.345	2.843	15.0	63	0.00
48	M	o-Xylene	3.560	3.142	11.7	69	0.00
49	M	Styrene	3.048	2.683	12.0	72	0.00
50	M	Bromoform	0.566	0.628	-11.0	94	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090914\
Data File : GCMS4 09091420BSD.D
Acq On : 14 Sep 2009 18:37
Operator : CTANG
Sample : B909019-BSD1
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 15 09:52:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Mon Sep 14 16:36:00 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	4.250	3.473	18.3	61	0.00
52	S	p-BROMOFLUOROBENZENE	0.755	0.712	5.7	104	0.00
53	M	1,1,2,2-Tetrachloroethane	1.034	1.201	-16.2	106	0.00
54	M	1,2,3-Trichloropropane	0.928	1.103	-18.9	111	0.00
55	M	Bromobenzene	1.234	1.087	11.9	74	0.00
56	M	n-Propylbenzene	4.745	3.576	24.6	57	0.00
57	M	2-Chlorotoluene	3.251	2.564	21.1	61	0.00
58	M	4-Chlorotoluene	3.257	2.564	21.3	62	0.00
59	M	1,3,5-Trimethylbenzene	3.789	3.050	19.5	60	0.00
60	M	tert-Butylbenzene	3.328	2.677	19.6	59	0.00
61	M	1,2,4-Trimethylbenzene	3.619	3.003	17.0	63	0.00
62	M	sec-Butylbenzene	5.037	3.834	23.9	56	0.00
63	M	p-Isopropyltoluene	4.088	3.059	25.2#	55	0.00
64	M	1,3-Dichlorobenzene	1.998	1.599	20.0	64	0.00
65	M	1,4-Dichlorobenzene	2.516	1.851	26.4#	65	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	92	0.00
67	M	n-Butylbenzene	4.646	3.410	26.6#	51	0.00
68	M	1,2-Dichlorobenzene	2.839	2.690	5.2	72	0.00
69	M	1,2-Dibromo-3-chloropropane	0.348	0.419	-20.4	106	0.00
70	M	1,2,4-Trichlorobenzene	2.207	1.684	23.7	59	0.00
71	M	Hexachlorobutadiene	1.283	0.923	28.1#	51	0.00
72	M	Naphthalene	6.389	6.541	-2.4	100	0.00
73	M	1,2,3-Trichlorobenzene	2.213	1.901	14.1	69	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sequence Name: D:\Ctang\GCMS4 090915.S
Comment: 0909005 BASF Wyandotte
Operator: CTANG
Data Path: D:\CTANG\DATA\GCMS4_090915\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info	
1) BFB	1		
Datafile		GCMS4 09091501BFB	
Method		GCMS4_090914	
2) Calibration	2		
Datafile		GCMS4 09091502CC	not used
Method		GCMS4_090914	
3) Calibration	3		
Datafile		GCMS4 09091503BLK	Not used
Method		GCMS4_090914	
4) DailyCal	4		
Datafile		GCMS4 09091504CC	not used
Method		GCMS4_090914	
5) Sample	5		
Datafile		GCMS4 09091505BFB	Not used
Method		GCMS4_090914	
6) Calibration	6		
Datafile		GCMS4 09091506IC1	not used
Method		GCMS4_090914	
7) Calibration	7		
Datafile		GCMS4 09091507IC2	~~, IC at~~ not used. EMM 9/25/09
Method		GCMS4_090914	
8) Calibration	8		
Datafile		GCMS4 09091508IC2	, IC at 125 NG
Method		GCMS4_090914	
9) Calibration	9		
Datafile		GCMS4 09091509IC3	, IC at 250 NG.
Method		GCMS4_090914	
10) Calibration	10		
Datafile		GCMS4 09091510IC4	, IC at 500 NG
Method		GCMS4_090914	
11) Calibration	11		
Datafile		GCMS4 09091511IC5	, IC at 750 NG
Method		GCMS4_090914	
12) Calibration	12		
Datafile		GCMS4 09091516IC6	, IC at 1,000 NG
Method		GCMS4_090914	
13) Sample	13		
Datafile		GCMS4 09091513BLK	, method Blank to remove interferences.
Method		GCMS4_090914	
14) Calibration	14		
Datafile		GCMS4 09091514IC1	, IC at 25 NG
Method		GCMS4_090914	
15) Sample	15		
Datafile		GCMS4 090916ICC	, IC Check at 250 NG.
Method		GCMS4_090914	

4C091591.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	1	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	2	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	3	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091592.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	4	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	5	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091593.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	6	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
2	7	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
3	8	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
4	9	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
5	10	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
6	11	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1

4C091594.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	8	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	9	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	10	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
4	11	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
5	12	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

4C091595.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	13	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
2	14	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1
3	15	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	5 mL	1:1

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, SAS No.: SDG No.: MS001

Lab File ID: GCMS4_09091 BFB Injection Date: 9/15/2009

Instrument ID: GCMS 4 BFB Injection Time: 12:50

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.2
75	30.0 - 66.0% of mass 95	44.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.3
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	74.7
175	4.0 - 9.0% of mass 174	5.4 (7.3)1
176	93.0 - 101.0% of mass 174	72.6 (97.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC #2	IC AT 125 NG	GCMS4_09091	9/15/2009	15:57
02	IC #3	IC AT 250 NG	GCMS4_09091	9/15/2009	16:17
03	IC #4	IC AT 500 NG	GCMS4_09091	9/15/2009	16:38
04	IC #5	IC AT 750 NG	GCMS4_09091	9/15/2009	16:58
05	IC #6	IC AT 1,000 NG	GCMS4_09091	9/15/2009	17:18
06	LAB BLANK	LAB BLANK	GCMS4_09091	9/15/2009	17:53
07	IC #1	IC AT 25 NG	GCMS4_09091	9/15/2009	18:13
08	IC CHECK	IC CHECK	GCMS4_09091	9/15/2009	18:33

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

Lab Blank

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, SAS No.: _____ SDG No.: MS001

Lab File ID: GCMS4_09091 Lab Sample ID: Lab Blank

Date Analyzed: 9/15/2009 Time Analyzed: 17:53

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS 4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	IC CHECK	IC CHECK	GCMS4_090916I	18:33

COMMENTS:

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, -0(SAS No.: SDG No.: MS001

Lab File ID (Standard): GCMS4_0909150 Date Analyzed: 9/15/2009

Instrument ID: GCMS 4 Time Analyzed: 16:17

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2120817	4.15	926822	5.81	761541	7.04
	UPPER LIMIT	4241634	4.65	1853644	6.31	1523082	7.54
	LOWER LIMIT	1060409	3.65	463411	5.31	380771	6.54
	EPA SAMPLE NO.						
01	LAB BLANK	1848985	4.15	686942	5.81	621454	7.04
02	IC CHECK	2109032	4.15	916663	5.80	758695	7.04

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

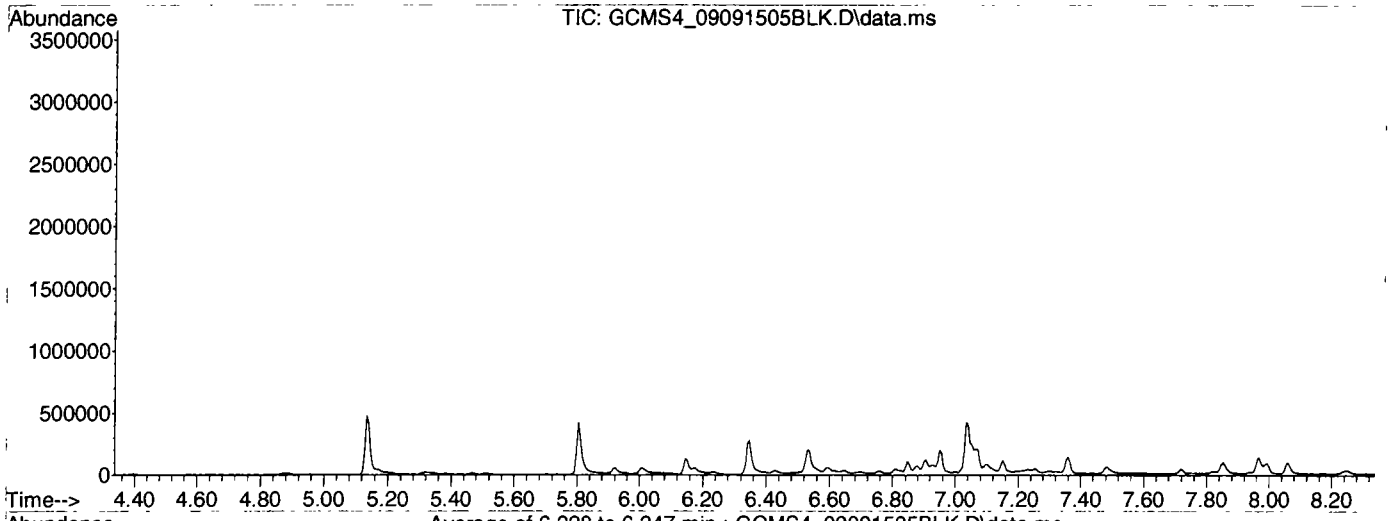
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

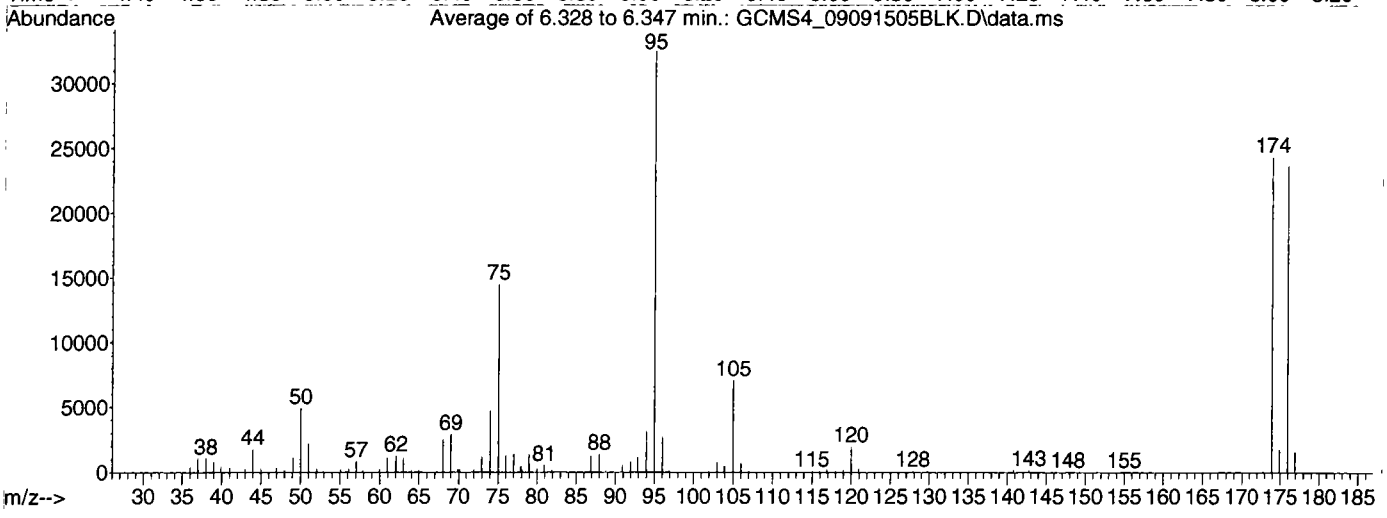
Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091505BLK.D
Acq On : 15 Sep 2009 12:50
Operator : CTANG
Sample : BFB
Misc : LIMS # 9040601
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e

Method : D:\CTANG\METHODS\GCMS4_090914.M
Title :
Last Update : Tue Sep 15 12:39:47 2009





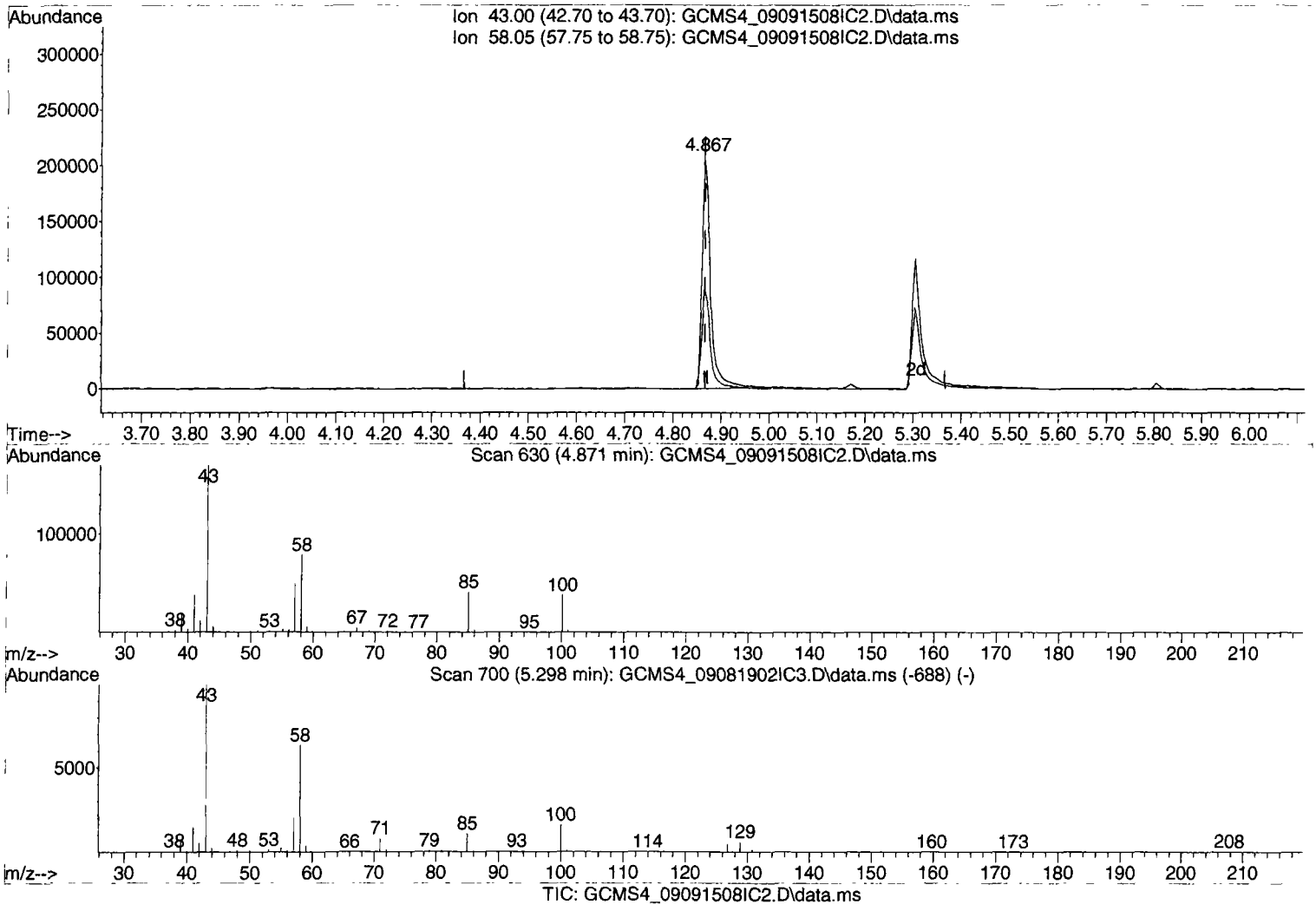
Spectrum Information: Average of 6.328 to 6.347 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	4947	PASS
75	95	30	60	44.6	14524	PASS
95	95	100	100	100.0	32577	PASS
96	95	5	9	8.3	2701	PASS
173	174	0.00	2	0.5	113	PASS
174	95	50	100	74.7	24346	PASS
175	174	5	9	7.3	1775	PASS
176	174	95	101	97.2	23659	PASS
177	176	5	9	6.6	1563	PASS

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091508IC2.D
Acq On : 15 Sep 2009 15:57
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 16:07:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.870min (+0.004) 181.38ng

response 2516038

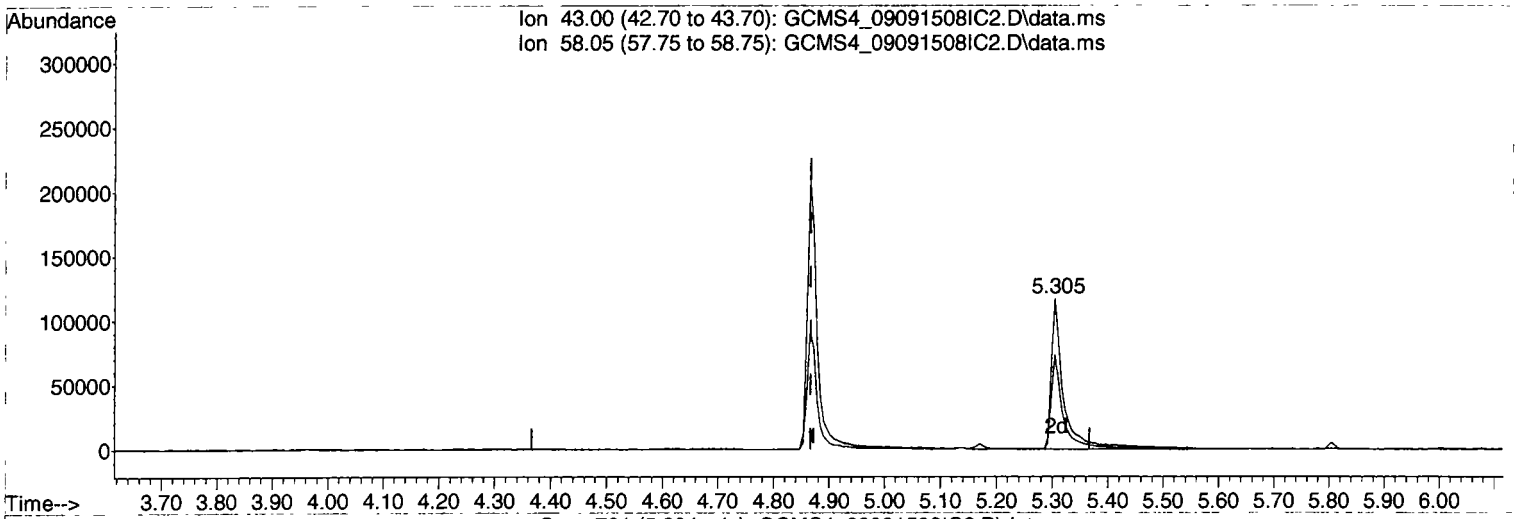
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.31
0.00	0.00	0.00
0.00	0.00	0.00

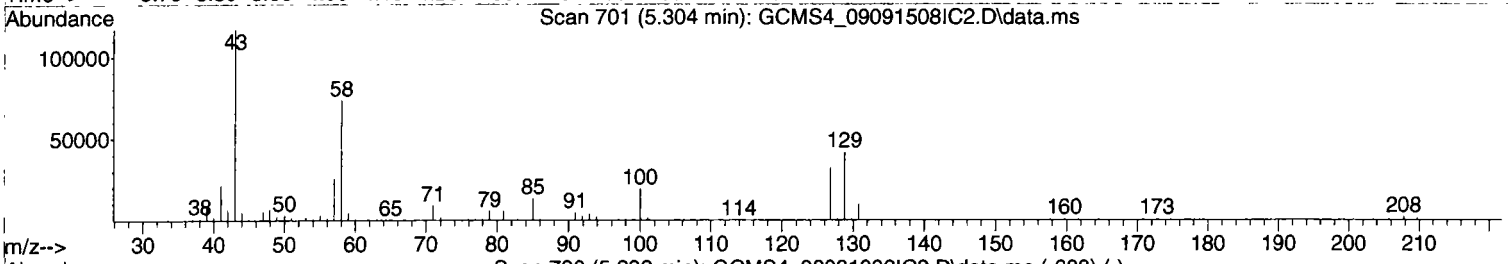
ecpne P
CMY 9/25/09

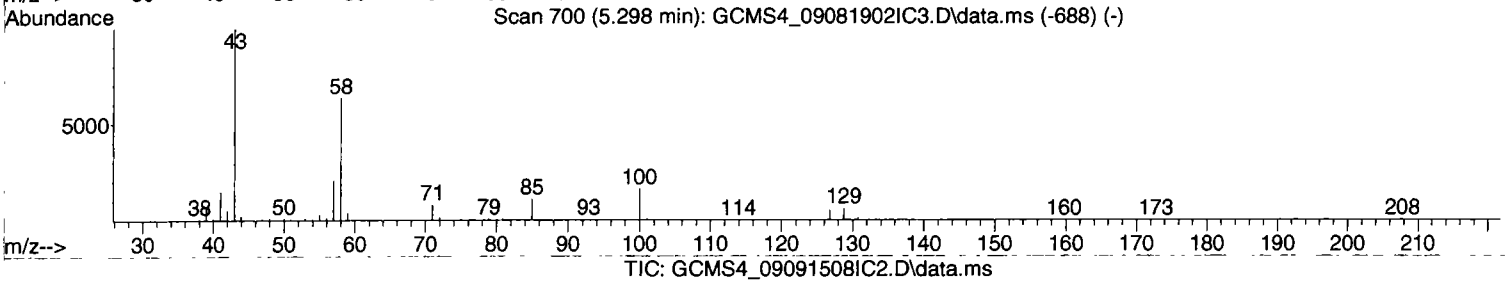
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091508IC2.D
Acq On : 15 Sep 2009 15:57
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 16:07:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration







TIC: GCMS4_09091508IC2.D\data.ms

(40) 2-Hexanone (T)

5.304min (+0.438) 134.97ng m

response 1872213

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	60.90#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMB 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091508IC2.D
Acq On : 15 Sep 2009 15:57
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 07:57:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.152	96	2129697	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.808	82	869378	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.041	152	733722	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.980	84	2174333	39.41 ng		0.00
34) TOLUENE-D8	5.140	98	1928398	47.93 ng		0.00
52) p-BROMOFLUOROBENZENE	6.347	95	733233	55.82 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.087	85	680550	143.81 ng		99
3) Chloromethane	1.154	50	1435992	121.02 ng		97
4) Vinyl chloride	1.218	62	677116	186.00 ng		97
5) Bromomethane	1.369	94	743982	152.88 ng		100
6) Chloroethane	1.424	64	719727	163.61 ng		94
7) Trichlorofluoromethane	1.662	101	1565269	146.58 ng		99
8) Acrolein	1.662	56	302484	366.14 ng		96
9) 1,1-Dichloroethene	1.916	96	876356	57.94 ng		93
10) Acetone	1.720	43	2003656	354.92 ng		87
11) Carbon disulfide	2.103	76	2607407	61.38 ng		97
12) Methylene chloride	1.995	84	1419293	64.36 ng		80
13) Acrylonitrile	1.954	53	2641846	339.48 ng		100
14) trans-1,2-Dichloroethene	2.398	96	1108279	62.37 ng		90
15) 1,1-Dichloroethane	2.569	63	1729901	59.48 ng	#	96
16) 2-Butanone	2.944	43	2867125	329.23 ng	#	70
17) cis-1,2-Dichloroethene	3.035	96	1304312	63.25 ng		88
18) 2,2-Dichloropropane	3.263	77	976546	62.20 ng		98
19) Bromochloromethane	3.162	128	627498	65.10 ng		97
20) Chloroform	3.212	83	1775870	61.00 ng		96
21) 1,1,1-Trichloroethane	3.743	97	1239988	62.79 ng		94
22) 1,1-Dichloropropene	3.877	75	1356883	60.14 ng		98
23) Carbon tetrachloride	3.973	117	832942	66.34 ng		87
25) 1,2-Dichloroethane	3.687	62	1062623	64.33 ng		95
26) Benzene	4.007	78	4725766	63.68 ng		97
27) Trichloroethene	4.397	130	1261842	62.97 ng		96
28) 1,2-Dichloropropane	4.369	63	1102999	67.50 ng		98
29) Dibromomethane	4.342	174	707355	70.02 ng		99
30) Bromodichloromethane	4.420	83	1159516	67.29 ng		95
32) cis-1,3-Dichloropropene	4.787	75	1370848	75.79 ng		96
33) 4-Methyl-2-pentanone	4.870	43	2516038	129.64 ng	#	93
35) Toluene	5.174	91	5087222	65.36 ng		98
36) trans-1,3-Dichloropropene	5.017	75	1187053	72.46 ng		96
37) 1,1,2-Trichloroethane	5.083	97	1080097	70.51 ng		96
38) 1,3-Dichloropropane	5.202	76	1838932	73.32 ng		92
39) Tetrachloroethene	5.516	166	1311589	62.05 ng		98
40) 2-Hexanone	5.304	43	1872213m	134.97 ng		
41) Dibromochloromethane	5.315	129	1001064	74.57 ng		98
42) 1,2-Dibromoethane	5.429	107	1085209	76.26 ng		94
44) Chlorobenzene	5.823	112	3362330	72.45 ng		95
45) 1,1,1,2-Tetrachloroethane	5.790	131	1122215	71.83 ng		94
46) Ethylbenzene	5.919	91	5515570	73.54 ng		97
47) m- &/or p-Xylene	6.007	91	8943650	153.78 ng		98
48) o-Xylene	6.176	91	4662077	75.32 ng		96
49) Styrene	6.148	104	3825311	72.18 ng	#	79
50) Bromoform	6.037	173	761772	77.40 ng		86

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091508IC2.D
Acq On : 15 Sep 2009 15:57
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 07:57:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

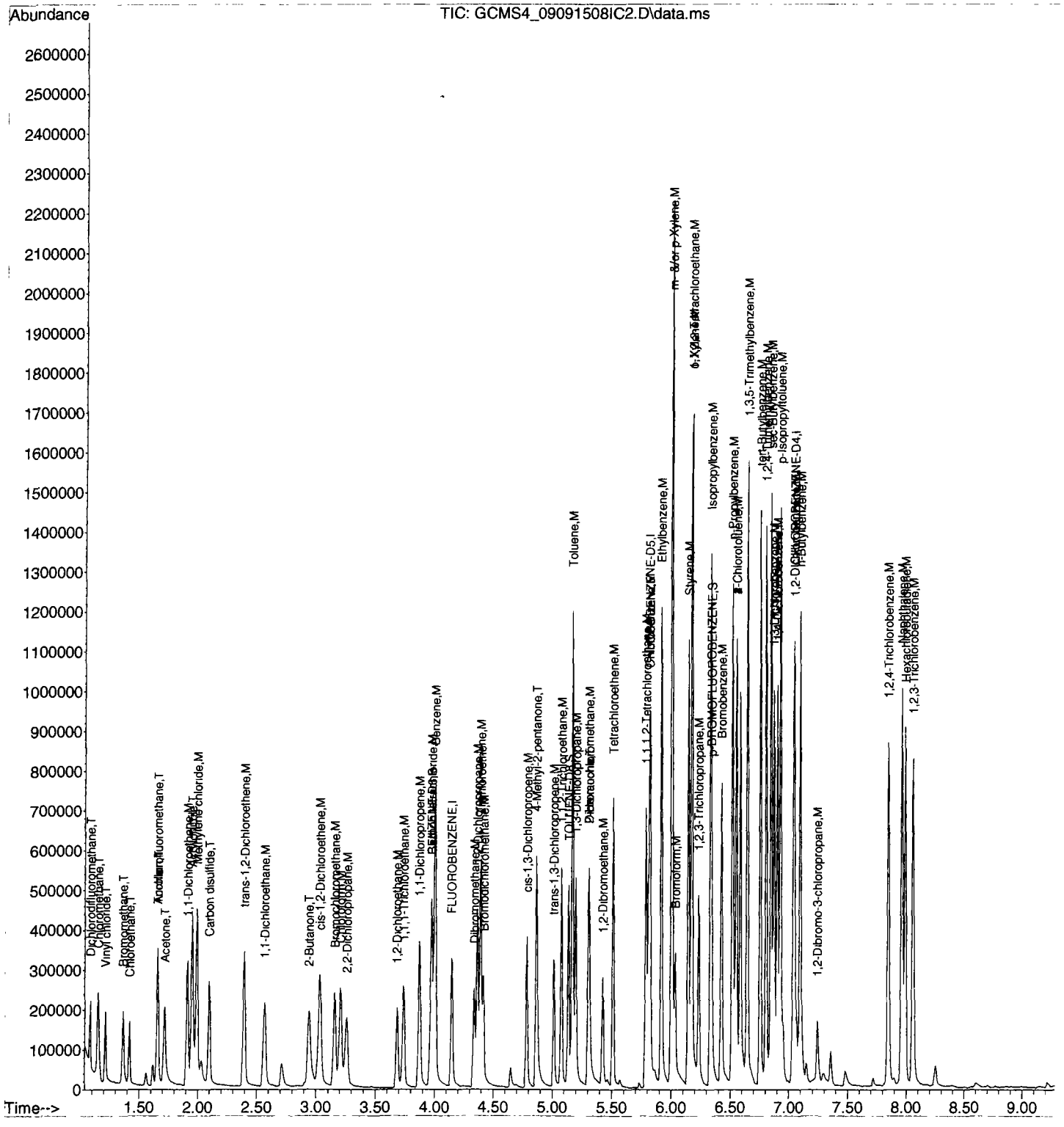
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.335	105	5496815	74.38 ng	96
53) 1,1,2,2-Tetrachloroethane	6.175	83	1338319	74.44 ng	97
54) 1,2,3-Trichloropropane	6.236	75	1272054	78.82 ng	95
55) Bromobenzene	6.430	156	1497831	69.80 ng	90
56) n-Propylbenzene	6.522	91	5525664	66.97 ng	95
57) 2-Chlorotoluene	6.555	91	4034541	71.38 ng	98
58) 4-Chlorotoluene	6.555	91	4034541	71.25 ng	94
59) 1,3,5-Trimethylbenzene	6.649	105	4824271	73.24 ng	90
60) tert-Butylbenzene	6.760	119	4161827	71.93 ng	91
61) 1,2,4-Trimethylbenzene	6.809	105	4608911	73.24 ng	92
62) sec-Butylbenzene	6.851	105	6256956	71.44 ng	98
63) p-Isopropyltoluene	6.931	119	5042604	70.95 ng	95
64) 1,3-Dichlorobenzene	6.877	146	2382245	68.58 ng	98
65) 1,4-Dichlorobenzene	6.905	146	2988548	68.31 ng	94
67) n-Butylbenzene	7.099	91	4251830	62.37 ng	96
68) 1,2-Dichlorobenzene	7.050	146	2756162	66.16 ng	94
69) 1,2-Dibromo-3-chloropr...	7.249	157	339680	66.43 ng	86
70) 1,2,4-Trichlorobenzene	7.852	180	2033644	62.81 ng	96
71) Hexachlorobutadiene	7.996	225	1130887	60.05 ng	97
72) Naphthalene	7.966	128	5656768	60.33 ng	97
73) 1,2,3-Trichlorobenzene	8.061	180	2045283	62.97 ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091508IC2.D
Acq On : 15 Sep 2009 15:57
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 8 Sample Multiplier: 1

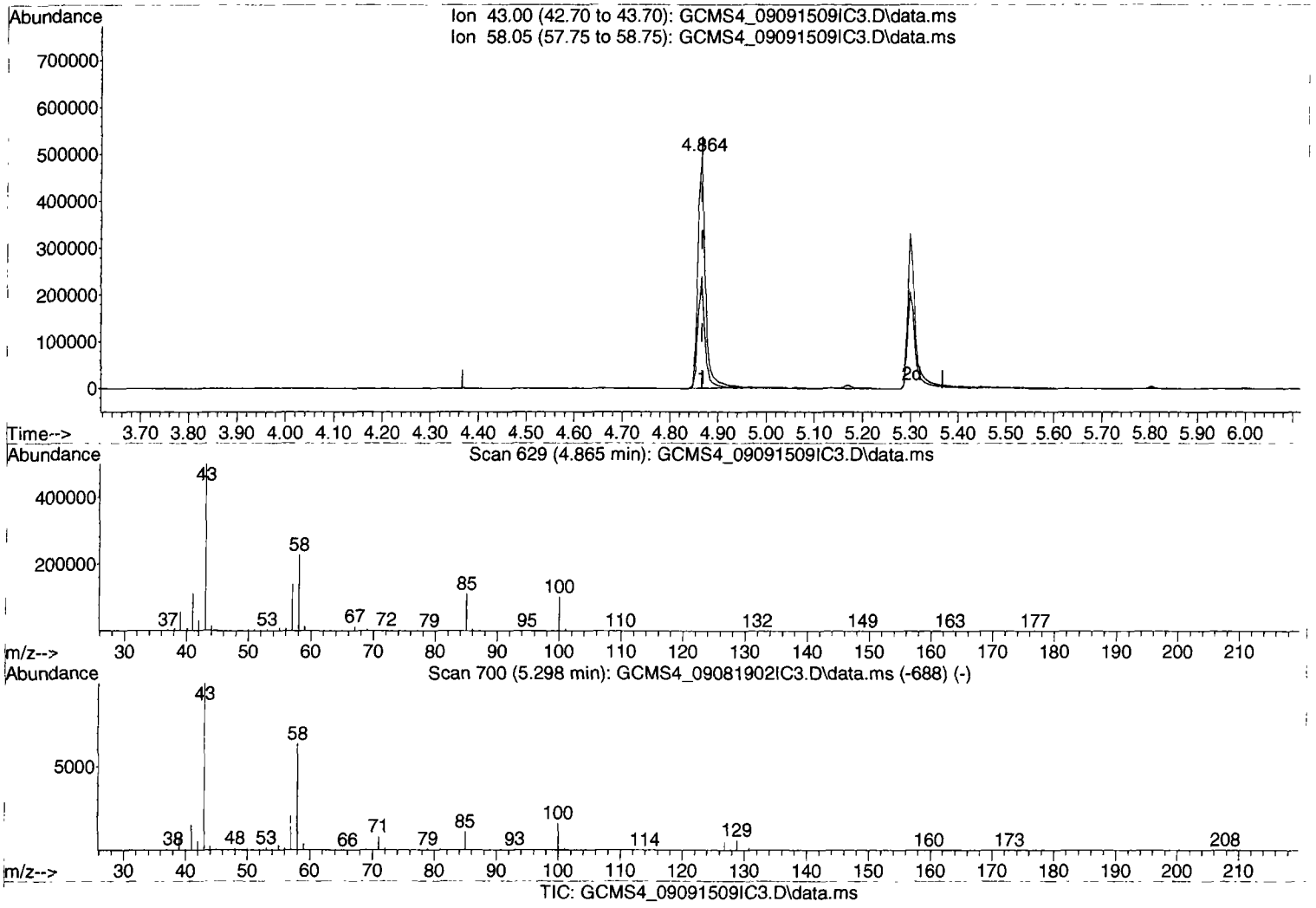
Quant Time: Sep 16 07:57:27 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091509IC3.D
Acq On : 15 Sep 2009 16:17
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 16:27:17 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.866min (+0.000) 396.73ng

response 5480408

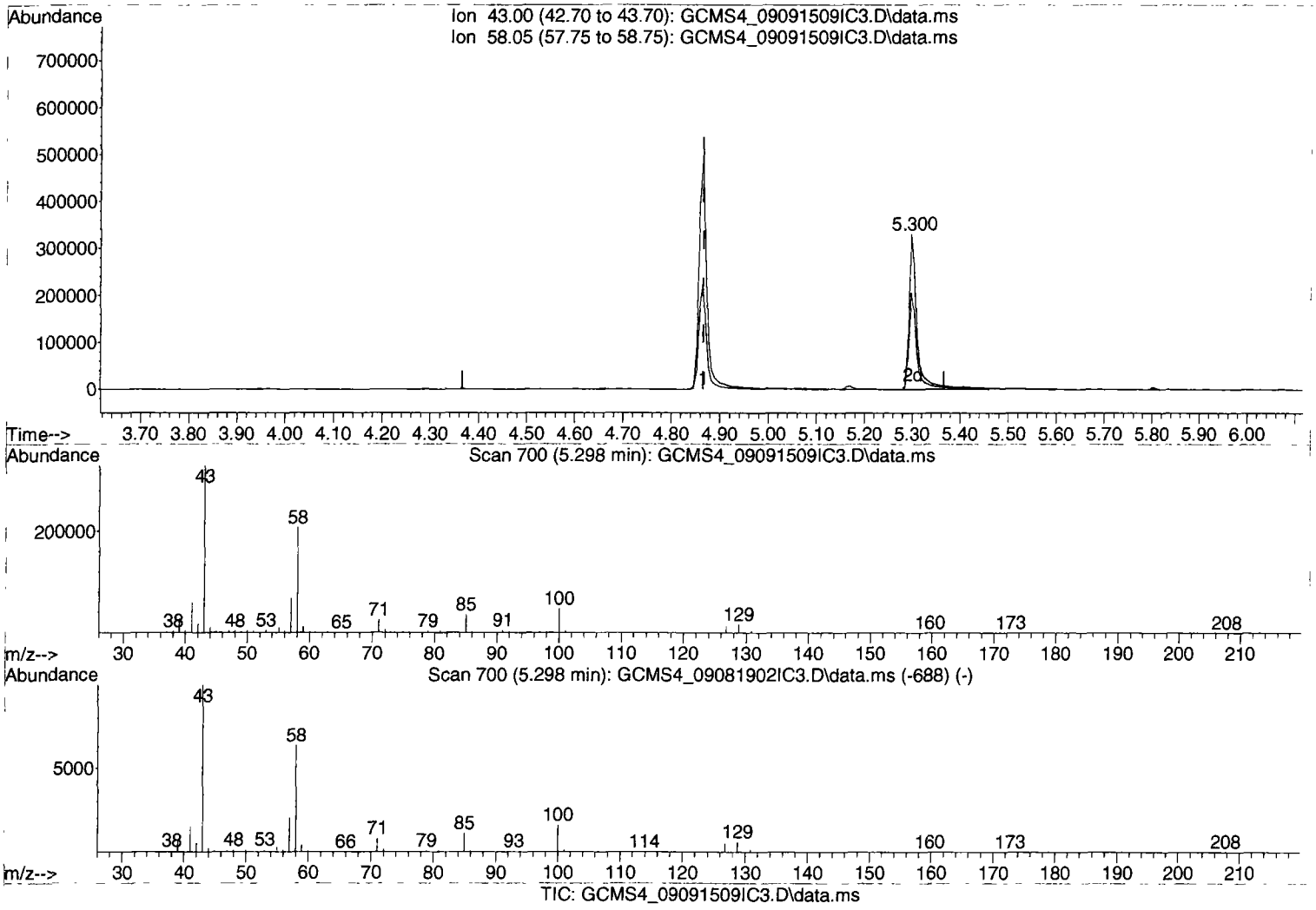
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.32
0.00	0.00	0.00
0.00	0.00	0.00

Reviewed P
CMM 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091509IC3.D
Acq On : 15 Sep 2009 16:17
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 16:27:17 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (+0.432) 287.82ng m

response 3975985

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	62.47#
0.00	0.00	0.00
0.00	0.00	0.00

after
emy 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091509IC3.D
Acq On : 15 Sep 2009 16:17
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 08:04:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.149	96	2120817	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.807	82	926822	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.039	152	761541	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.977	84	2271792	41.35 ng	0.00
34) TOLUENE-D8	5.139	98	1976557	49.33 ng	0.00
52) p-BROMOFLUOROBENZENE	6.345	95	747446	53.38 ng	0.00

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	1415013	300.27 ng		99
3) Chloromethane	1.151	50	2835076	239.93 ng		96
4) Vinyl chloride	1.212	62	919918	253.75 ng		98
5) Bromomethane	1.365	94	1184532	244.43 ng		99
6) Chloroethane	1.419	64	1420026	324.15 ng		98
7) Trichlorofluoromethane	1.657	101	3219633	302.77 ng		99
8) Acrolein	1.657	56	594710	722.89 ng		96
9) 1,1-Dichloroethene	1.911	96	1750320	116.20 ng		92
10) Acetone	1.716	43	4228227	752.11 ng		88
11) Carbon disulfide	2.098	76	4946124	116.91 ng		97
12) Methylene chloride	1.991	84	2628458	119.69 ng		80
13) Acrylonitrile	1.949	53	5492287	708.71 ng		98
14) trans-1,2-Dichloroethene	2.394	96	2135768	120.70 ng		90
15) 1,1-Dichloroethane	2.565	63	3423636	118.20 ng	#	96
16) 2-Butanone	2.936	43	6160679	710.39 ng	#	67
17) cis-1,2-Dichloroethene	3.030	96	2535521	123.46 ng		87
18) 2,2-Dichloropropane	3.260	77	1763651	112.80 ng		99
19) Bromochloromethane	3.158	128	1217546	126.84 ng		99
20) Chloroform	3.208	83	3490213	120.39 ng		94
21) 1,1,1-Trichloroethane	3.740	97	2345494	119.26 ng		94
22) 1,1-Dichloropropene	3.874	75	2627059	116.92 ng		97
23) Carbon tetrachloride	3.970	117	1515936	121.24 ng		89
25) 1,2-Dichloroethane	3.684	62	2081648	126.55 ng		98
26) Benzene	4.004	78	9169110	124.08 ng		97
27) Trichloroethene	4.394	130	2484959	124.52 ng		95
28) 1,2-Dichloropropane	4.366	63	2048836	125.91 ng		97
29) Dibromomethane	4.340	174	1339160	133.11 ng		98
30) Bromodichloromethane	4.418	83	2164610	126.15 ng		96
32) cis-1,3-Dichloropropene	4.785	75	2531167	140.53 ng		96
33) 4-Methyl-2-pentanone	4.866	43	5480408	283.56 ng	#	93
35) Toluene	5.172	91	9934952	128.17 ng		99
36) trans-1,3-Dichloropropene	5.015	75	2313182	141.79 ng		96
37) 1,1,2-Trichloroethane	5.081	97	2120895	139.03 ng		95
38) 1,3-Dichloropropane	5.200	76	3555381	142.35 ng		93
39) Tetrachloroethene	5.515	166	2559660	121.61 ng		97
40) 2-Hexanone	5.298	43	3975985m	287.82 ng		
41) Dibromochloromethane	5.314	129	1870117	139.89 ng		97
42) 1,2-Dibromoethane	5.427	107	2047508	144.48 ng		94
44) Chlorobenzene	5.821	112	6585748	133.12 ng		93
45) 1,1,1,2-Tetrachloroethane	5.789	131	2200163	132.10 ng		93
46) Ethylbenzene	5.918	91	10976797	137.29 ng		97
47) m- &/or p-Xylene	6.005	91	17627363	284.31 ng		99
48) o-Xylene	6.175	91	9073063	137.50 ng		95
49) Styrene	6.146	104	7574764	134.08 ng		89
50) Bromoform	6.036	173	1527621	145.59 ng		88

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091509IC3.D
Acq On : 15 Sep 2009 16:17
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 08:04:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

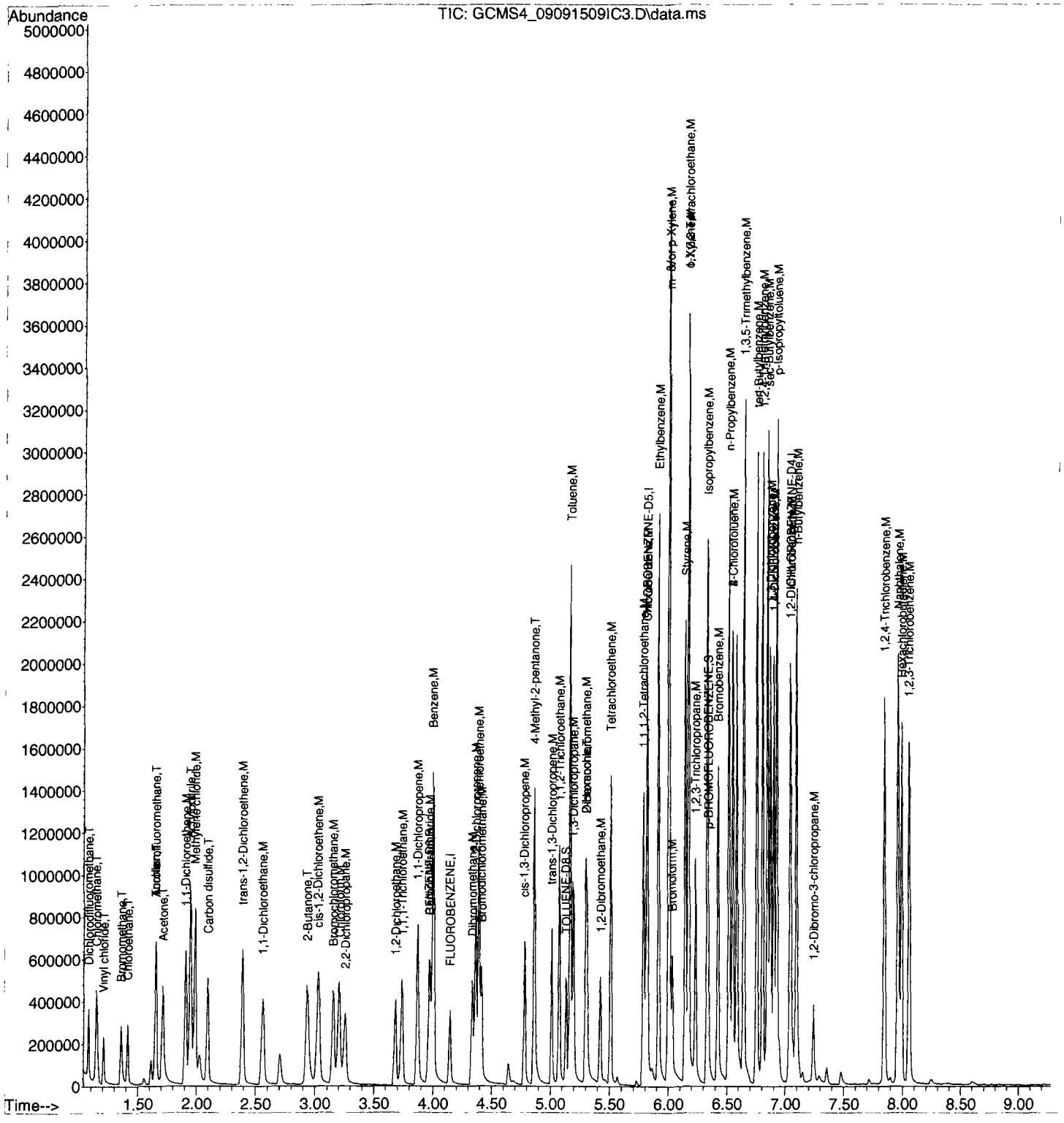
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.334	105	10837980	137.57 ng	95
53) 1,1,2,2-Tetrachloroethane	6.173	83	2761476	144.08 ng	95
54) 1,2,3-Trichloropropane	6.235	75	2572712	149.54 ng	95
55) Bromobenzene	6.428	156	2960599	129.41 ng	92
56) n-Propylbenzene	6.520	91	11527005	131.04 ng	97
57) 2-Chlorotoluene	6.553	91	7962559	132.15 ng	97
58) 4-Chlorotoluene	6.553	91	7962559	131.90 ng	94
59) 1,3,5-Trimethylbenzene	6.648	105	9555547	136.07 ng	89
60) tert-Butylbenzene	6.759	119	8270518	134.08 ng	91
61) 1,2,4-Trimethylbenzene	6.808	105	9111581	135.82 ng	92
62) sec-Butylbenzene	6.851	105	12416213	132.97 ng	97
63) p-Isopropyltoluene	6.930	119	10046674	132.60 ng	95
64) 1,3-Dichlorobenzene	6.876	146	4733655	127.82 ng	98
65) 1,4-Dichlorobenzene	6.904	146	5696431	122.14 ng	94
67) n-Butylbenzene	7.097	91	8419259	118.99 ng	96
68) 1,2-Dichlorobenzene	7.048	146	5326736	123.19 ng	94
69) 1,2-Dibromo-3-chloropr...	7.247	157	722959	136.23 ng	88
70) 1,2,4-Trichlorobenzene	7.850	180	3847910	114.50 ng	96
71) Hexachlorobutadiene	7.996	225	2196950	112.40 ng	96
72) Naphthalene	7.964	128	10889947	111.90 ng	97
73) 1,2,3-Trichlorobenzene	8.060	180	3894704	115.54 ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091509IC3.D
Acq On : 15 Sep 2009 16:17
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 9 Sample Multiplier: 1

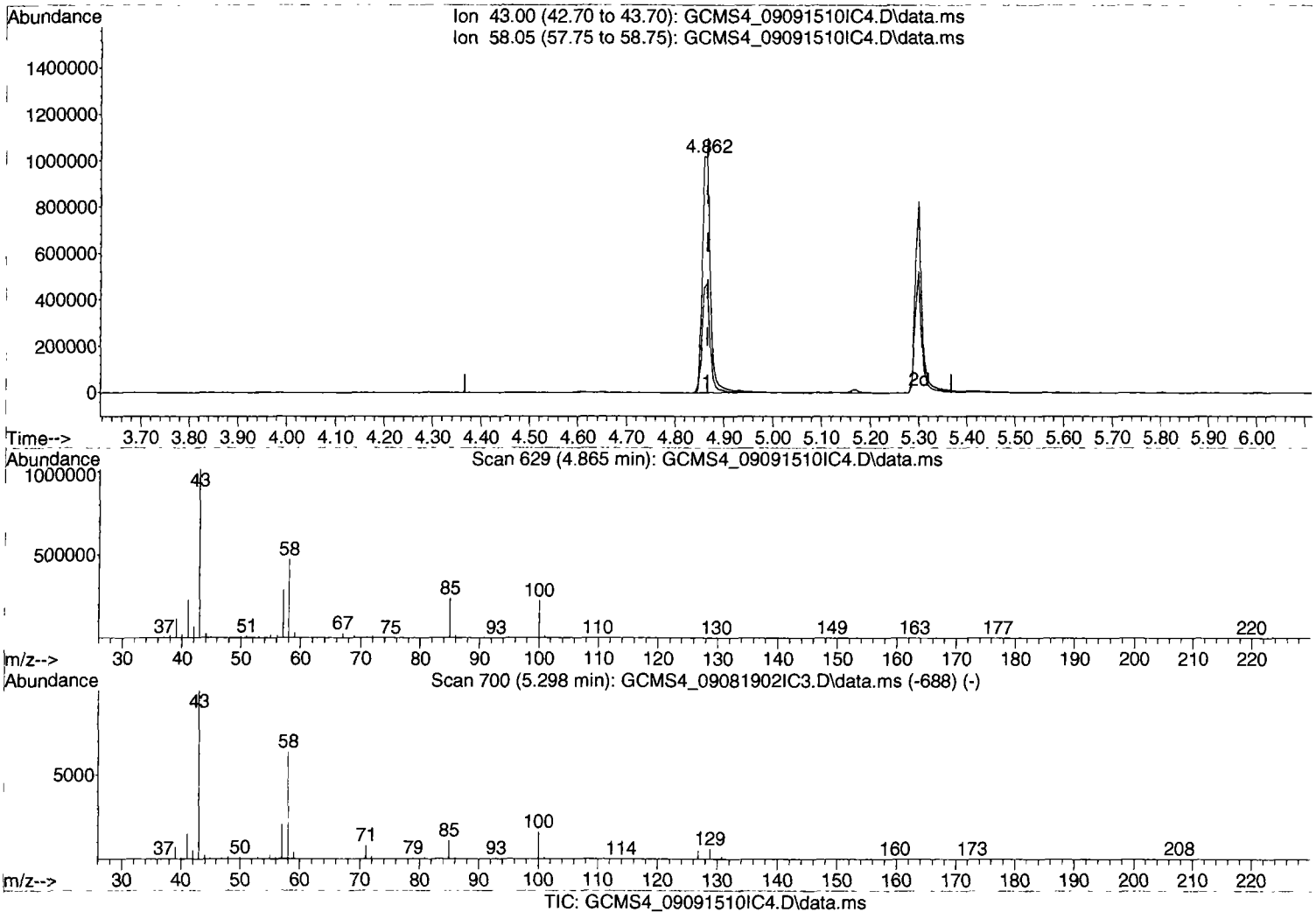
Quant Time: Sep 16 08:04:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091510IC4.D
Acq On : 15 Sep 2009 16:38
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 15 16:47:29 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.865min (-0.001) 827.56ng

response 11617697

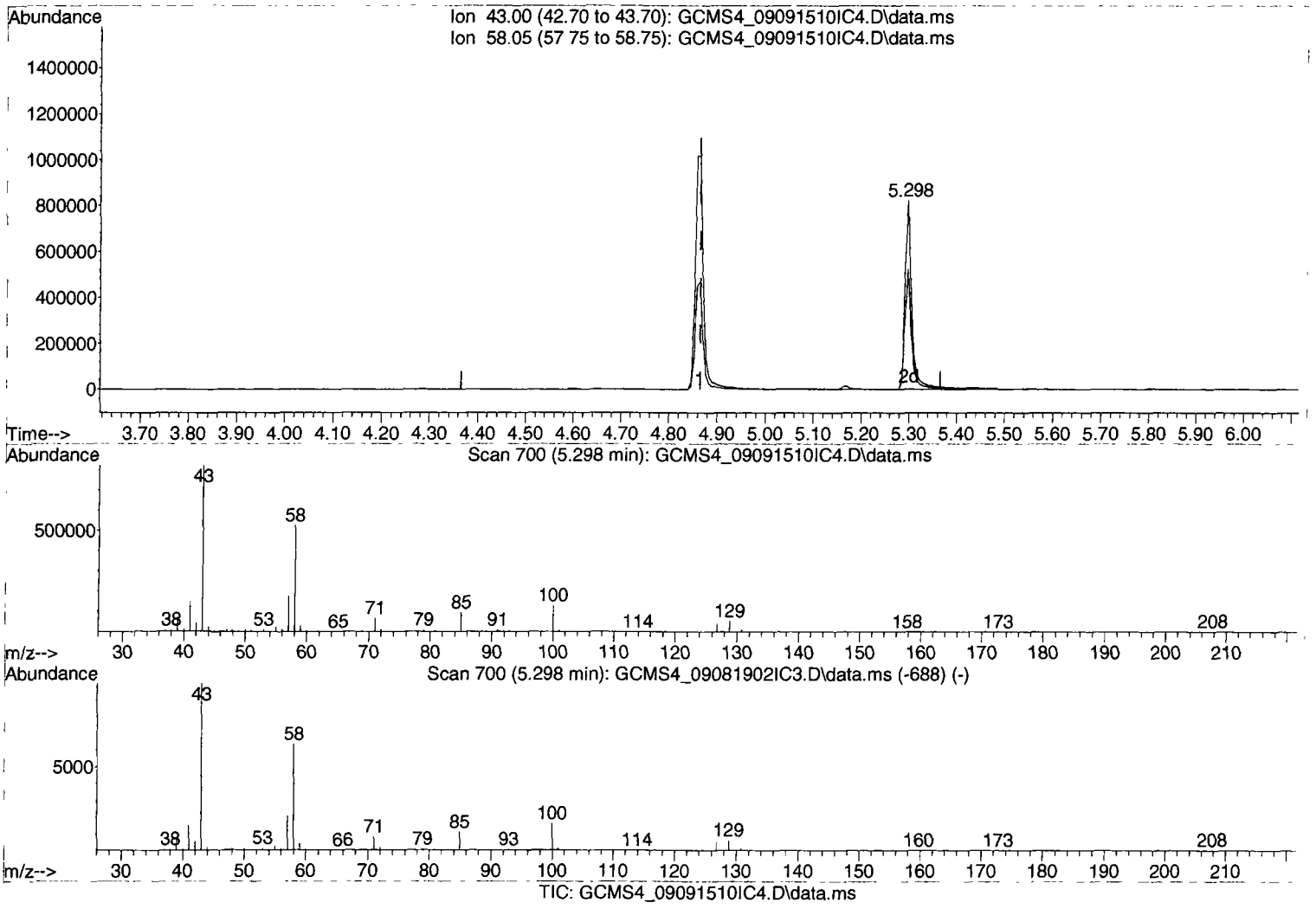
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.34
0.00	0.00	0.00
0.00	0.00	0.00

before P
CMM 9/28/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091510IC4.D
Acq On : 15 Sep 2009 16:38
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 15 16:47:29 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (+0.432) 614.34ng m

response 8624465

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	61.08#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091510IC4.D
Acq On : 15 Sep 2009 16:38
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 08:06:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2155291	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	1037678	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.039	152	799994	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.975	84	2474236	44.31 ng		0.00
34) TOLUENE-D8	5.138	98	2027125	49.78 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	756319	48.24 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.082	85	2833122	591.58 ng		100
3) Chloromethane	1.148	50	5833189	485.75 ng		96
4) Vinyl chloride	1.206	62	785265	213.14 ng		96
5) Bromomethane	1.359	94	1921473	390.16 ng		99
6) Chloroethane	1.414	64	2435241	546.99 ng		96
7) Trichlorofluoromethane	1.653	101	6285577	581.64 ng		99
8) Acrolein	1.654	56	1290204	1543.19 ng		92
9) 1,1-Dichloroethene	1.907	96	3875129	253.15 ng		91
10) Acetone	1.714	43	8647161	1513.53 ng		88
11) Carbon disulfide	2.094	76	10959807	254.92 ng		97
12) Methylene chloride	1.988	84	5762113	258.19 ng		81
13) Acrylonitrile	1.946	53	11444455	1453.15 ng		98
14) trans-1,2-Dichloroethene	2.390	96	4767810	265.14 ng		89
15) 1,1-Dichloroethane	2.561	63	7644460	259.71 ng	#	96
16) 2-Butanone	2.933	43	13050679	1480.82 ng	#	68
17) cis-1,2-Dichloroethene	3.025	96	5645825	270.51 ng		88
18) 2,2-Dichloropropane	3.257	77	3678692	231.51 ng		99
19) Bromochloromethane	3.154	128	2695789	276.34 ng		100
20) Chloroform	3.204	83	7832466	265.85 ng		93
21) 1,1,1-Trichloroethane	3.738	97	4972236	248.77 ng		93
22) 1,1-Dichloropropene	3.871	75	5792032	253.66 ng		97
23) Carbon tetrachloride	3.968	117	3055956	240.51 ng		90
25) 1,2-Dichloroethane	3.681	62	4849878	290.12 ng		99
26) Benzene	4.002	78	20106453	267.74 ng		97
27) Trichloroethene	4.393	130	5410665	266.80 ng		95
28) 1,2-Dichloropropane	4.365	63	4489415	271.47 ng		99
29) Dibromomethane	4.338	174	2815234	275.36 ng		97
30) Bromodichloromethane	4.416	83	4616089	264.71 ng		96
32) cis-1,3-Dichloropropene	4.783	75	5007026	273.54 ng		97
33) 4-Methyl-2-pentanone	4.865	43	11617697	591.49 ng	#	93
35) Toluene	5.171	91	21773907	276.42 ng		99
36) trans-1,3-Dichloropropene	5.013	75	4834235	291.58 ng		96
37) 1,1,2-Trichloroethane	5.080	97	4383008	282.73 ng		96
38) 1,3-Dichloropropane	5.199	76	7359160	289.92 ng		92
39) Tetrachloroethene	5.513	166	5681386	265.61 ng		97
40) 2-Hexanone	5.298	43	8624465m	614.34 ng		
41) Dibromochloromethane	5.312	129	3861765	284.25 ng		96
42) 1,2-Dibromoethane	5.426	107	4179870	290.22 ng		95
44) Chlorobenzene	5.820	112	14620348	263.96 ng		93
45) 1,1,1,2-Tetrachloroethane	5.788	131	4888632	262.15 ng		94
46) Ethylbenzene	5.917	91	24103822	269.27 ng		97
47) m- &/or p-Xylene	6.005	91	37758380	543.95 ng		99
48) o-Xylene	6.175	91	19775325	267.67 ng		98
49) Styrene	6.145	104	16517482	261.13 ng		91
50) Bromoform	6.035	173	3379033	287.64 ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091510IC4.D
Acq On : 15 Sep 2009 16:38
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 08:06:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

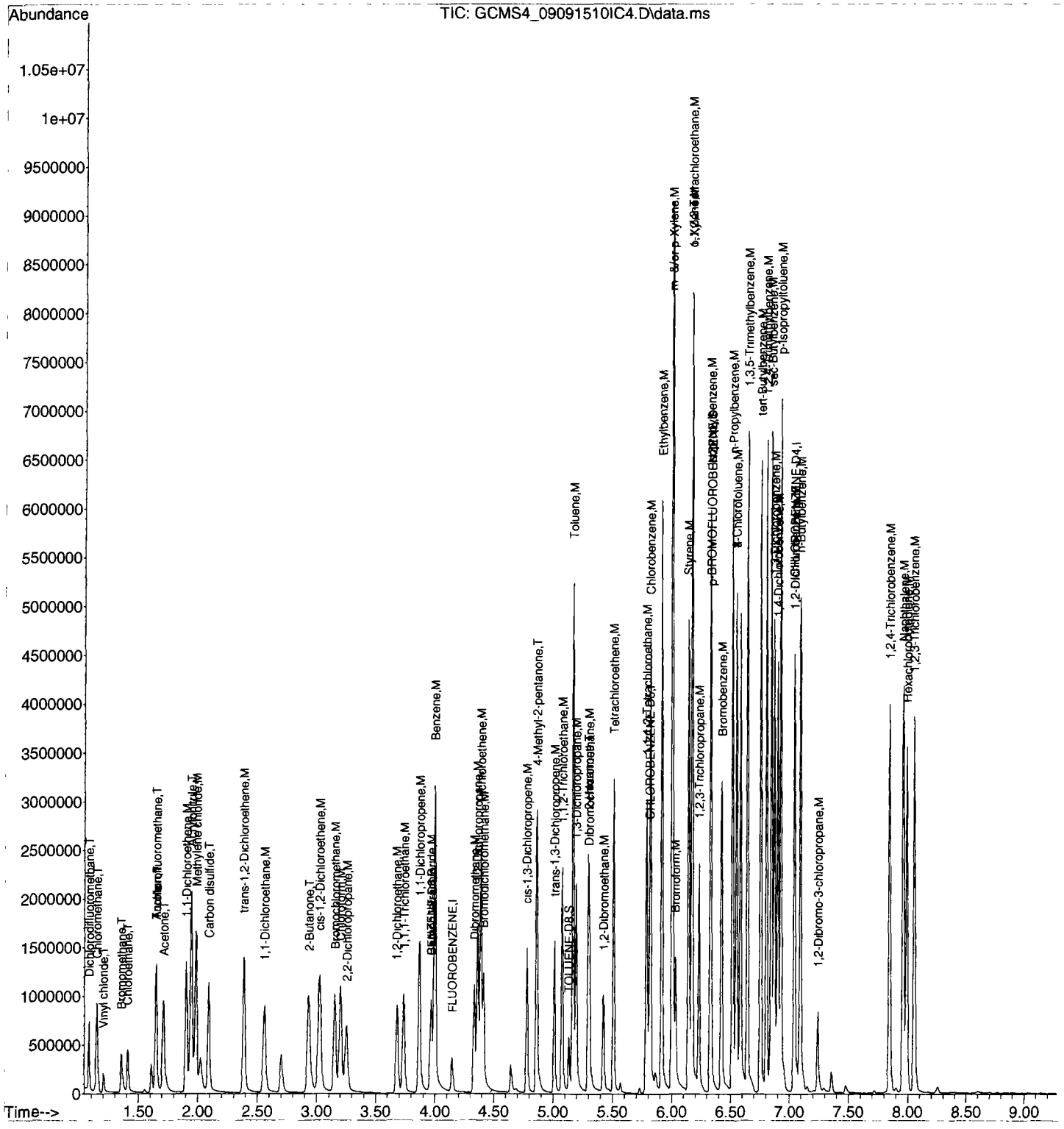
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.333	105	23249625	263.59 ng	95
53) 1,1,2,2-Tetrachloroethane	6.173	83	5792360	269.93 ng	98
54) 1,2,3-Trichloropropane	6.233	75	5336330	277.04 ng	96
55) Bromobenzene	6.427	156	6494853	253.57 ng	92
56) n-Propylbenzene	6.519	91	25246456	256.35 ng	98
57) 2-Chlorotoluene	6.553	91	16993062	251.90 ng	96
58) 4-Chlorotoluene	6.553	91	16993062	251.43 ng	93
59) 1,3,5-Trimethylbenzene	6.647	105	20246505	257.51 ng	89
60) tert-Butylbenzene	6.758	119	17415906	252.18 ng	92
61) 1,2,4-Trimethylbenzene	6.808	105	19549787	260.29 ng	92
62) sec-Butylbenzene	6.850	105	26264881	251.23 ng	96
63) p-Isopropyltoluene	6.929	119	21520854	253.69 ng	96
64) 1,3-Dichlorobenzene	6.874	146	10528743	253.93 ng	98
65) 1,4-Dichlorobenzene	6.903	146	12237831	234.36 ng	94
67) n-Butylbenzene	7.096	91	18228345	245.24 ng	96
68) 1,2-Dichlorobenzene	7.048	146	11587700	255.11 ng	95
69) 1,2-Dibromo-3-chloropr...	7.245	157	1569354	281.50 ng	90
70) 1,2,4-Trichlorobenzene	7.849	180	8322035	235.72 ng	96
71) Hexachlorobutadiene	7.995	225	4783473	232.96 ng	96
72) Naphthalene	7.963	128	22368832	218.81 ng	97
73) 1,2,3-Trichlorobenzene	8.058	180	8407333	237.42 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091510IC4.D
Acq On : 15 Sep 2009 16:38
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 10 Sample Multiplier: 1

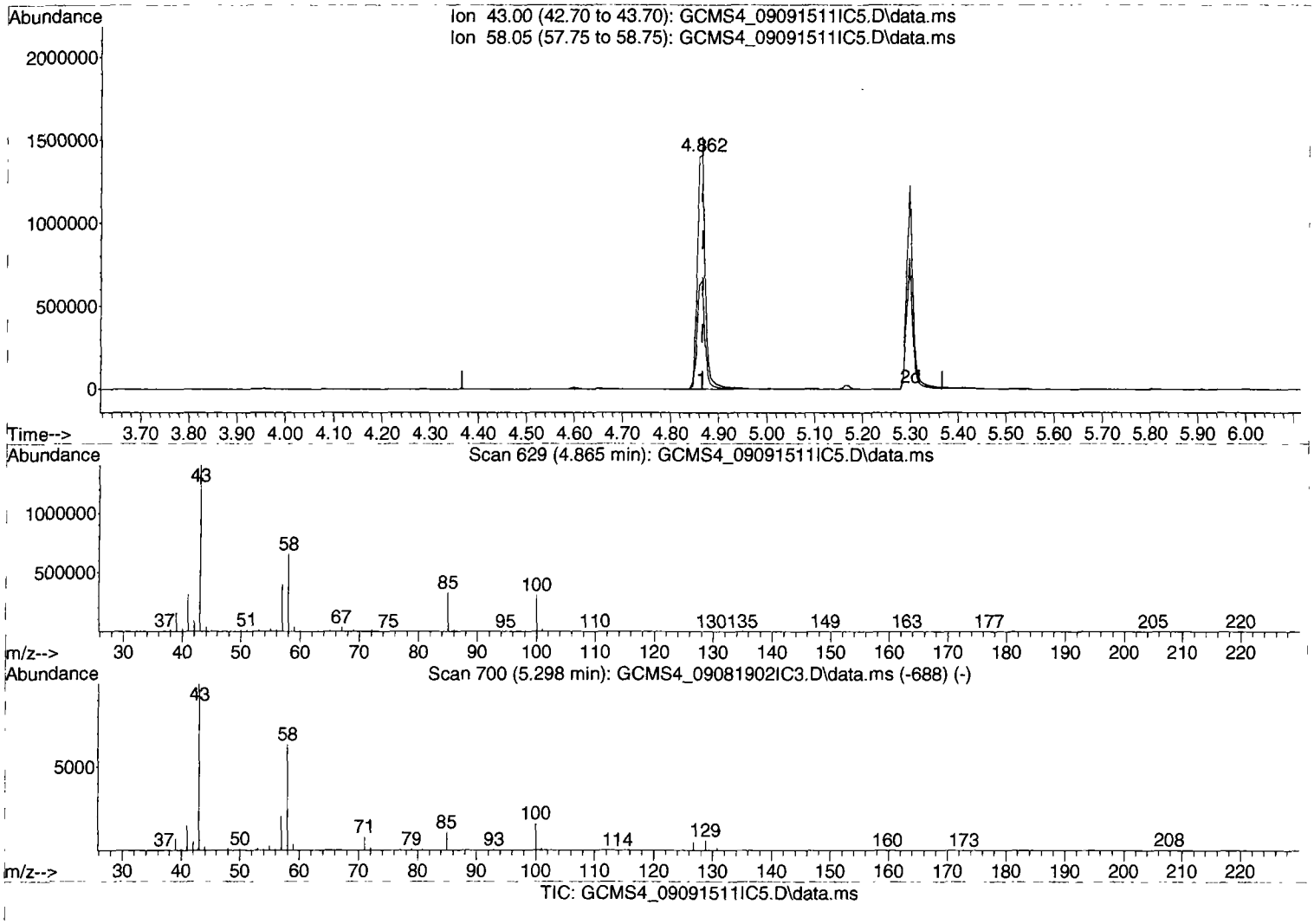
Quant Time: Sep 16 08:06:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091511IC5.D
Acq On : 15 Sep 2009 16:58
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 15 17:07:46 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.865min (-0.001) 1163.03ng

response 16177931

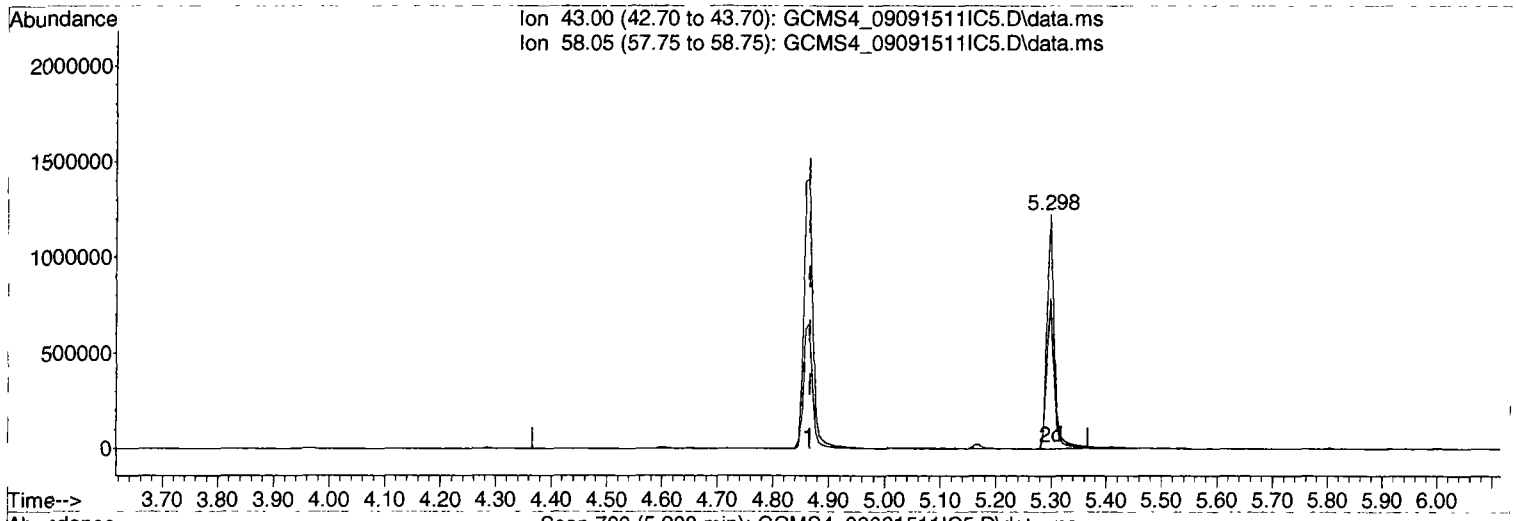
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.12
0.00	0.00	0.00
0.00	0.00	0.00

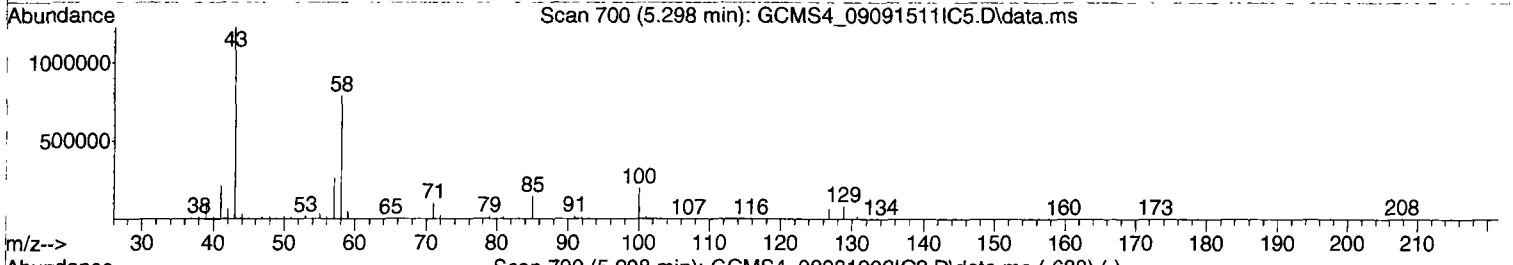
bepne p
CMA 9/25/09

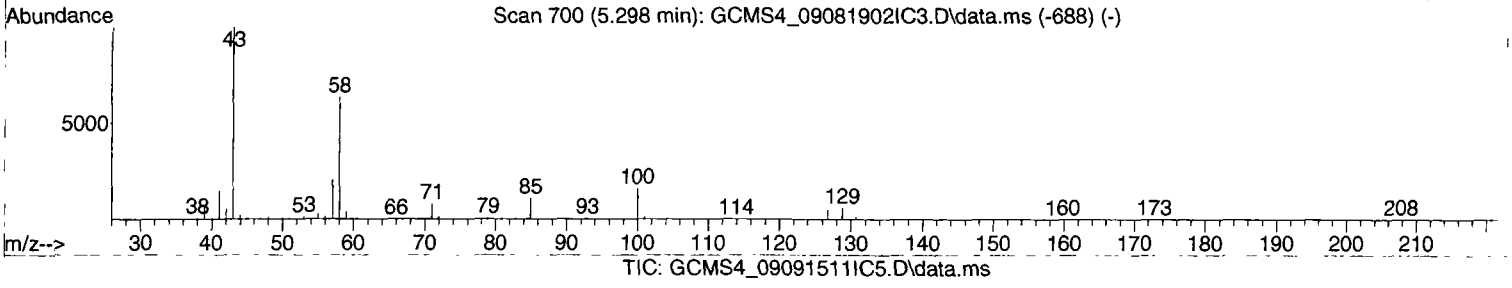
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091511IC5.D
Acq On : 15 Sep 2009 16:58
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 15 17:07:46 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration







TIC: GCMS4_09091511IC5.D\data.ms

(40) 2-Hexanone (T)

5.298min (+0.432) 840.88ng m

response 11696730

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	62.41#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMA 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091511IC5.D
Acq On : 15 Sep 2009 16:58
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 08:07:03 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.146	96	2135588	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.805	82	1124599	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	795699	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.974	84	2792940	50.48 ng	0.00
34) TOLUENE-D8	5.137	98	1987640	49.27 ng	0.00
52) p-BROMOFLUOROBENZENE	6.344	95	751353	44.22 ng	0.00

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.081	85	4361630	919.15 ng		98
3) Chloromethane	1.147	50	9165371	770.28 ng		96
4) Vinyl chloride	1.204	62	929930	254.74 ng		98
5) Bromomethane	1.356	94	2372223	486.13 ng		99
6) Chloroethane	1.411	64	3279471	743.42 ng		97
7) Trichlorofluoromethane	1.650	101	9313647	869.79 ng		100
8) Acrolein	1.653	56	1766891	2132.85 ng		94
9) 1,1-Dichloroethene	1.904	96	6668244	439.63 ng		92
10) Acetone	1.713	43	12043330	2127.42 ng		88
11) Carbon disulfide	2.091	76	19417294	455.80 ng		97
12) Methylene chloride	1.986	84	9235263	417.64 ng		81
13) Acrylonitrile	1.946	53	16015091	2052.26 ng		98
14) trans-1,2-Dichloroethene	2.387	96	8298853	465.76 ng		89
15) 1,1-Dichloroethane	2.559	63	13165635	451.40 ng	#	95
16) 2-Butanone	2.933	43	18447025	2112.43 ng	#	67
17) cis-1,2-Dichloroethene	3.023	96	9342917	451.79 ng		87
18) 2,2-Dichloropropane	3.255	77	6528940	414.68 ng		99
19) Bromochloromethane	3.152	128	4102679	424.44 ng		100
20) Chloroform	3.203	83	13129716	449.77 ng		94
21) 1,1,1-Trichloroethane	3.737	97	8843107	446.53 ng		94
22) 1,1-Dichloropropene	3.870	75	10562878	466.87 ng		98
23) Carbon tetrachloride	3.967	117	5511002	437.72 ng		89
25) 1,2-Dichloroethane	3.680	62	7455479	450.11 ng		98
26) Benzene	4.001	78	33724558	453.22 ng		98
27) Trichloroethene	4.392	130	9339933	464.80 ng		94
28) 1,2-Dichloropropane	4.364	63	7111966	434.03 ng		99
29) Dibromomethane	4.337	174	4159141	410.56 ng		97
30) Bromodichloromethane	4.416	83	7645985	442.50 ng		96
32) cis-1,3-Dichloropropene	4.782	75	7766320	428.20 ng		97
33) 4-Methyl-2-pentanone	4.865	43	16177931	831.27 ng	#	93
35) Toluene	5.170	91	35651003	456.76 ng		99
36) trans-1,3-Dichloropropene	5.013	75	7234297	440.36 ng		96
37) 1,1,2-Trichloroethane	5.079	97	6514047	424.07 ng		94
38) 1,3-Dichloropropane	5.198	76	10665447	424.06 ng		93
39) Tetrachloroethene	5.513	166	9862202	465.32 ng		98
40) 2-Hexanone	5.298	43	11696730m	840.88 ng		
41) Dibromochloromethane	5.312	129	5671696	421.33 ng		98
42) 1,2-Dibromoethane	5.425	107	5845917	409.65 ng		94
44) Chlorobenzene	5.820	112	23756631	395.75 ng		94
45) 1,1,1,2-Tetrachloroethane	5.787	131	7857229	388.78 ng		94
46) Ethylbenzene	5.916	91	39857989	410.85 ng		97
47) m- &/or p-Xylene	6.004	91	59860678	795.70 ng		98
48) o-Xylene	6.174	91	31618638	394.90 ng		97
49) Styrene	6.145	104	26439063	385.68 ng		92
50) Bromoform	6.035	173	4909479	385.61 ng		88

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091511IC5.D
Acq On : 15 Sep 2009 16:58
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 08:07:03 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

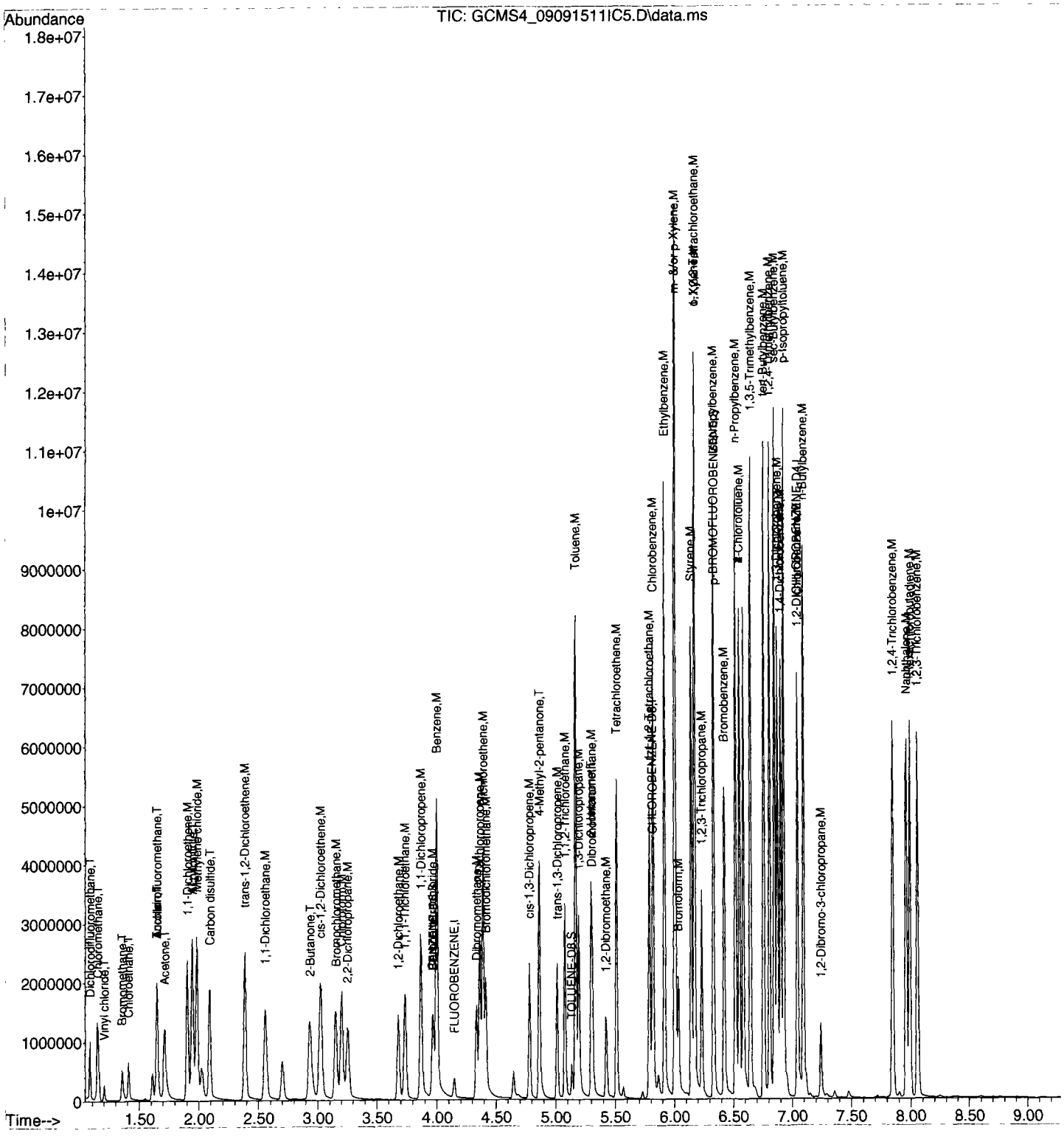
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.333	105	37946807	396.97 ng	93
53) 1,1,2,2-Tetrachloroethane	6.173	83	8246294	354.58 ng	98
54) 1,2,3-Trichloropropane	6.233	75	7776538	372.52 ng	95
55) Bromobenzene	6.426	156	10335939	372.34 ng	92
56) n-Propylbenzene	6.519	91	42708825	400.14 ng	97
57) 2-Chlorotoluene	6.552	91	28212048	385.88 ng	95
58) 4-Chlorotoluene	6.552	91	28212048	385.16 ng	92
59) 1,3,5-Trimethylbenzene	6.647	105	33347023	391.35 ng	88
60) tert-Butylbenzene	6.758	119	29562035	394.97 ng	91
61) 1,2,4-Trimethylbenzene	6.807	105	32356762	397.50 ng	92
62) sec-Butylbenzene	6.850	105	43951723	387.91 ng	95
63) p-Isopropyltoluene	6.929	119	36398085	395.90 ng	96
64) 1,3-Dichlorobenzene	6.874	146	17609530	391.88 ng	99
65) 1,4-Dichlorobenzene	6.903	146	19761293	349.19 ng	94
67) n-Butylbenzene	7.095	91	31386351	424.54 ng	95
68) 1,2-Dichlorobenzene	7.047	146	18355779	406.30 ng	94
69) 1,2-Dibromo-3-chloropr...	7.245	157	2345020	422.90 ng	90
70) 1,2,4-Trichlorobenzene	7.848	180	13257053	377.54 ng	96
71) Hexachlorobutadiene	7.995	225	8537808	418.05 ng	97
72) Naphthalene	7.963	128	32935078	323.91 ng	97
73) 1,2,3-Trichlorobenzene	8.058	180	12992311	368.87 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091511IC5.D
Acq On : 15 Sep 2009 16:58
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 11 Sample Multiplier: 1

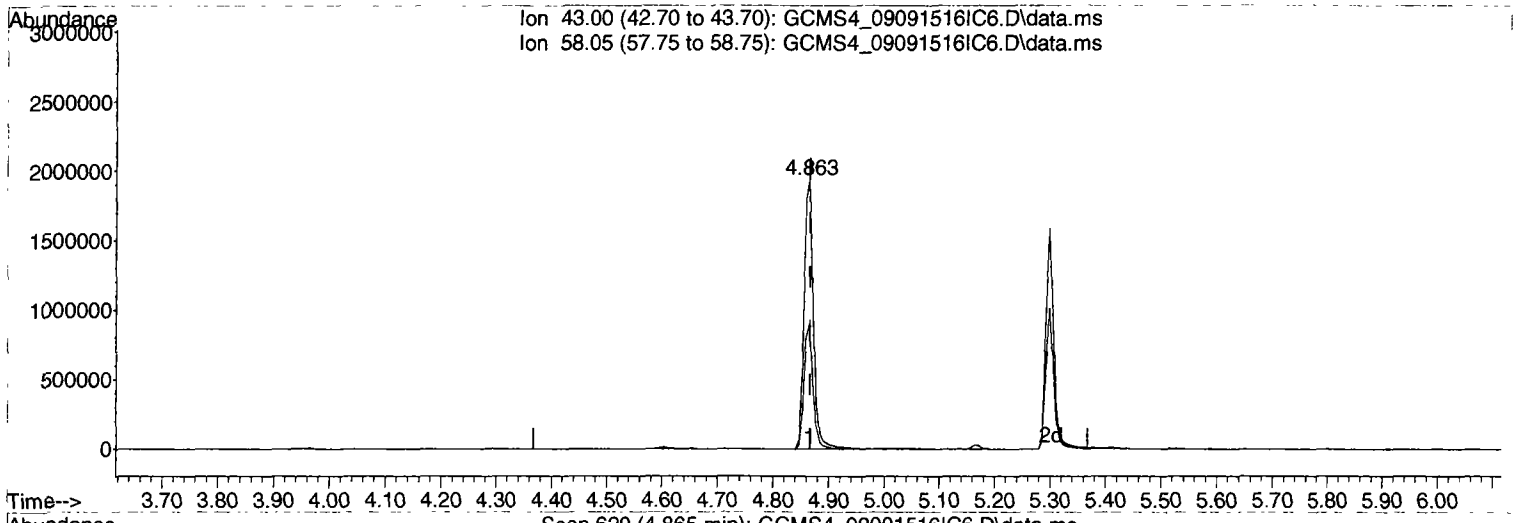
Quant Time: Sep 16 08:07:03 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

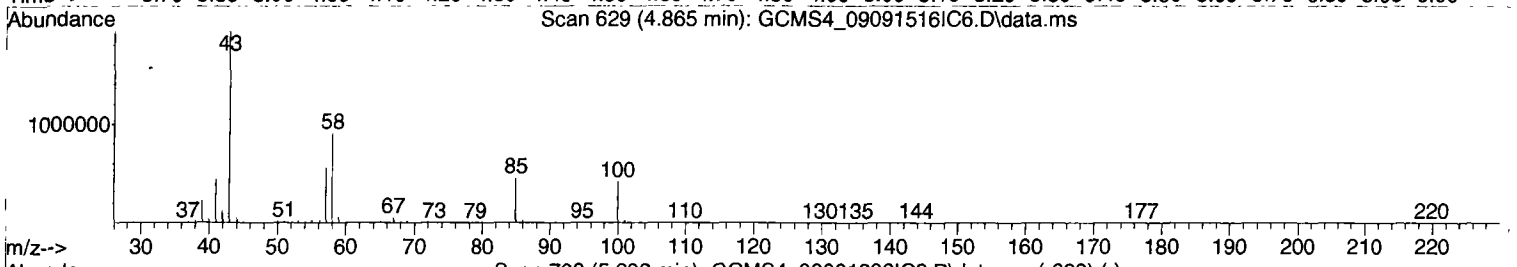


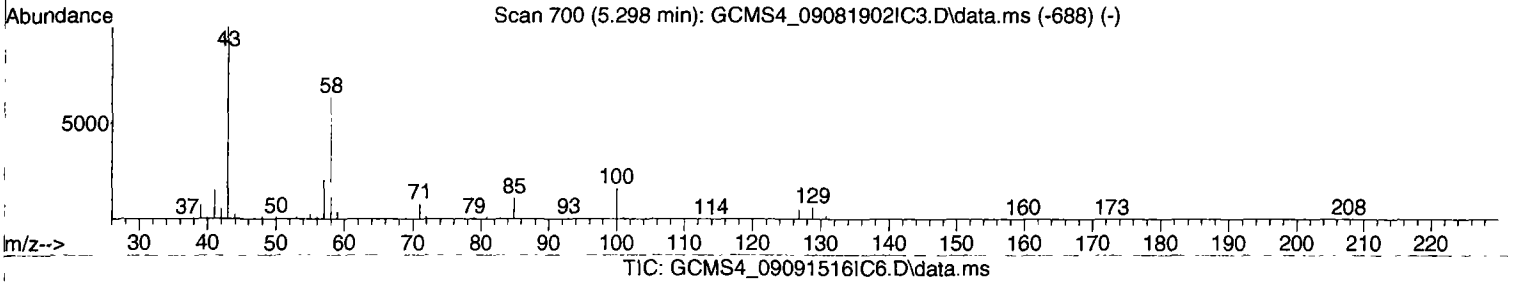
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091516IC6.D
Acq On : 15 Sep 2009 17:18
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 15 17:27:53 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration







TIC: GCMS4_09091516IC6.D\data.ms

(40) 2-Hexanone (T)

4.865min (-0.000) 1577.14ng

response 22222855

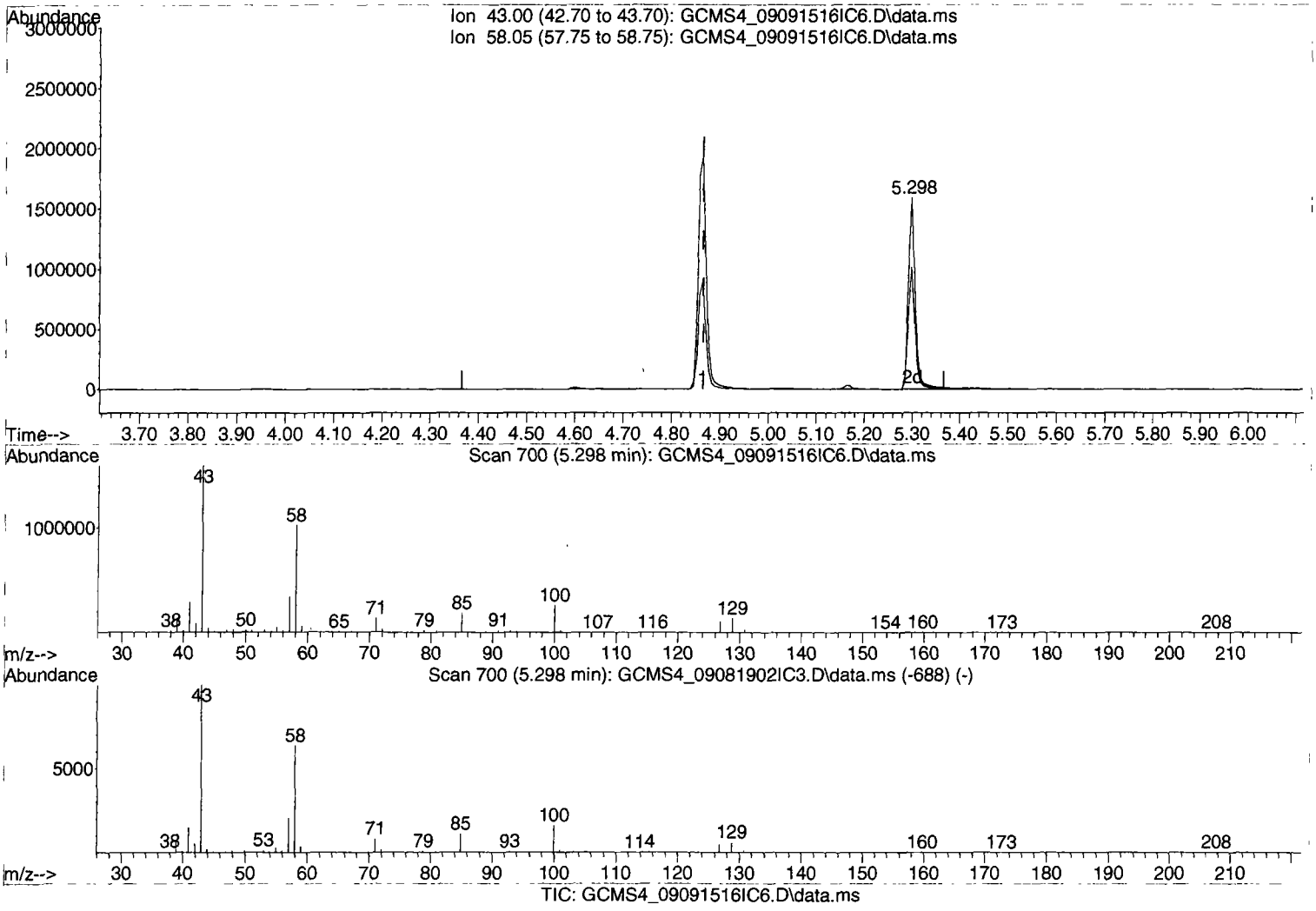
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.45
0.00	0.00	0.00
0.00	0.00	0.00

before P
CMY 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091516IC6.D
Acq On : 15 Sep 2009 17:18
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 15 17:27:53 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (+0.432) 1176.68ng m

response 16580083

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	60.91#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091516IC6.D
Acq On : 15 Sep 2009 17:18
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 08:10:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) FLUOROBENZENE	4.145	96	2163286	50.00	ng		0.00
43) CHLOROBENZENE-D5	5.805	82	1288262	50.00	ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	813605	50.00	ng		0.00
System Monitoring Compounds							
24) BENZENE-D6	3.972	84	3142922	56.08	ng		0.00
34) TOLUENE-D8	5.136	98	2079698	50.89	ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	766560	39.38	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.079	85	5331605	1109.17	ng		98
3) Chloromethane	1.145	50	12189523	1011.32	ng		96
4) Vinyl chloride	1.203	62	1056689	285.75	ng		97
5) Bromomethane	1.353	94	2230531	451.24	ng		98
6) Chloroethane	1.408	64	3137248	702.07	ng		97
7) Trichlorofluoromethane	1.647	101	11052013	1018.92	ng		99
8) Acrolein	1.651	56	2354722	2806.03	ng		92
9) 1,1-Dichloroethene	1.902	96	9173154	597.03	ng		91
10) Acetone	1.713	43	16361911	2853.28	ng		88
11) Carbon disulfide	2.088	76	26903711	623.45	ng		97
12) Methylene chloride	1.984	84	12870008	574.56	ng		80
13) Acrylonitrile	1.946	53	22002192	2783.38	ng		99
14) trans-1,2-Dichloroethene	2.385	96	11502107	637.27	ng		89
15) 1,1-Dichloroethane	2.557	63	18553772	628.00	ng	#	96
16) 2-Butanone	2.934	43	25861248	2923.54	ng	#	67
17) cis-1,2-Dichloroethene	3.021	96	13044054	622.68	ng		88
18) 2,2-Dichloropropane	3.253	77	9320849	584.42	ng		98
19) Bromochloromethane	3.151	128	5851297	597.58	ng		99
20) Chloroform	3.202	83	18580528	628.34	ng		94
21) 1,1,1-Trichloroethane	3.735	97	12376407	616.94	ng		94
22) 1,1-Dichloropropene	3.869	75	14809379	646.19	ng		98
23) Carbon tetrachloride	3.966	117	7851756	615.65	ng		89
25) 1,2-Dichloroethane	3.679	62	10783509	642.70	ng		99
26) Benzene	4.000	78	46416043	615.79	ng		98
27) Trichloroethene	4.391	130	13003043	638.81	ng		95
28) 1,2-Dichloropropane	4.364	63	9787510	589.66	ng		98
29) Dibromomethane	4.337	174	5832279	568.35	ng		97
30) Bromodichloromethane	4.415	83	10934136	624.70	ng		96
32) cis-1,3-Dichloropropene	4.782	75	10969972	597.09	ng		97
33) 4-Methyl-2-pentanone	4.865	43	22222855	1127.25	ng	#	92
35) Toluene	5.170	91	48853629	617.90	ng		100
36) trans-1,3-Dichloropropene	5.012	75	10043115	603.51	ng		96
37) 1,1,2-Trichloroethane	5.079	97	8746300	562.11	ng		95
38) 1,3-Dichloropropane	5.198	76	14572894	572.00	ng		92
39) Tetrachloroethene	5.512	166	13668424	636.64	ng		97
40) 2-Hexanone	5.298	43	16580083m	1176.68	ng		
41) Dibromochloromethane	5.312	129	7819895	573.47	ng		98
42) 1,2-Dibromoethane	5.425	107	7861208	543.81	ng		94
44) Chlorobenzene	5.819	112	33012308	480.07	ng		94
45) 1,1,1,2-Tetrachloroethane	5.787	131	11101856	479.54	ng		93
46) Ethylbenzene	5.916	91	54329865	488.88	ng		96
47) m- &/or p-Xylene	6.004	91	78480181	910.67	ng		98
48) o-Xylene	6.174	91	42097054	458.98	ng		95
49) Styrene	6.144	104	36926442	470.23	ng		94
50) Bromoform	6.035	173	6989184	479.22	ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091516IC6.D
Acq On : 15 Sep 2009 17:18
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 16 08:10:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

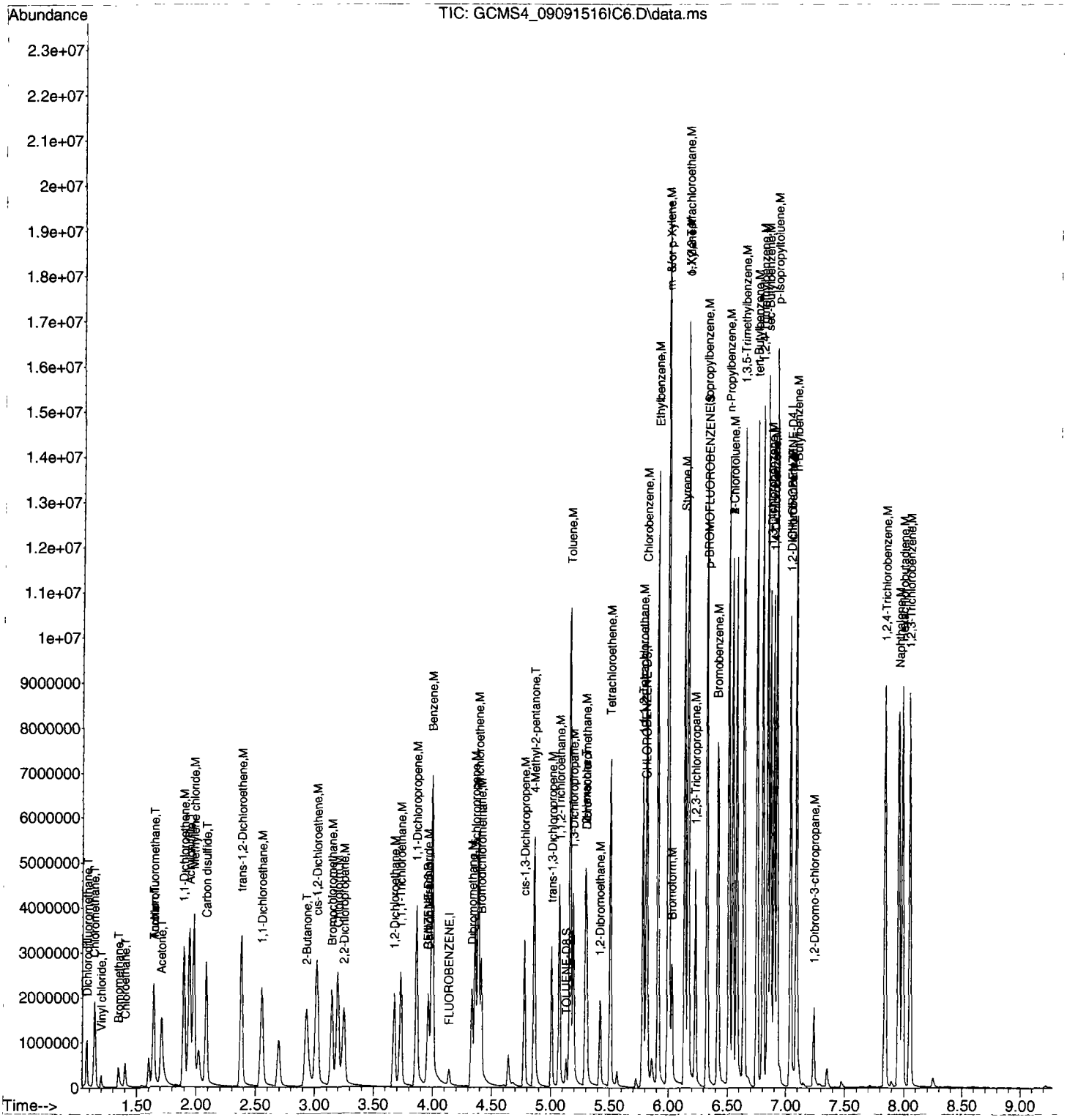
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Isopropylbenzene	6.333	105	51565981	470.91	ng	92
53) 1,1,2,2-Tetrachloroethane	6.173	83	11206662	420.66	ng	98
54) 1,2,3-Trichloropropane	6.233	75	10809068	452.01	ng	96
55) Bromobenzene	6.426	156	14611008	459.48	ng	91
56) n-Propylbenzene	6.519	91	58594556	479.23	ng	97
57) 2-Chlorotoluene	6.552	91	39073888	466.55	ng	94
58) 4-Chlorotoluene	6.552	91	39073888	465.68	ng	91
59) 1,3,5-Trimethylbenzene	6.646	105	43109617	441.64	ng	83
60) tert-Butylbenzene	6.758	119	40461730	471.91	ng	92
61) 1,2,4-Trimethylbenzene	6.807	105	44430119	476.48	ng	92
62) sec-Butylbenzene	6.850	105	59277369	456.71	ng	93
63) p-Isopropyltoluene	6.929	119	50105152	475.76	ng	97
64) 1,3-Dichlorobenzene	6.874	146	25105679	487.72	ng	98
65) 1,4-Dichlorobenzene	6.903	146	27462518	423.62	ng	94
67) n-Butylbenzene	7.096	91	43004794	568.89	ng	94
68) 1,2-Dichlorobenzene	7.047	146	25893733	560.53	ng	94
69) 1,2-Dibromo-3-chloropr...	7.244	157	3307883	583.41	ng	90
70) 1,2,4-Trichlorobenzene	7.848	180	18750455	522.23	ng	96
71) Hexachlorobutadiene	7.994	225	12124412	580.60	ng	96
72) Naphthalene	7.962	128	45113875	433.92	ng	96
73) 1,2,3-Trichlorobenzene	8.058	180	18314990	508.55	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091516IC6.D
Acq On : 15 Sep 2009 17:18
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 12 Sample Multiplier: 1

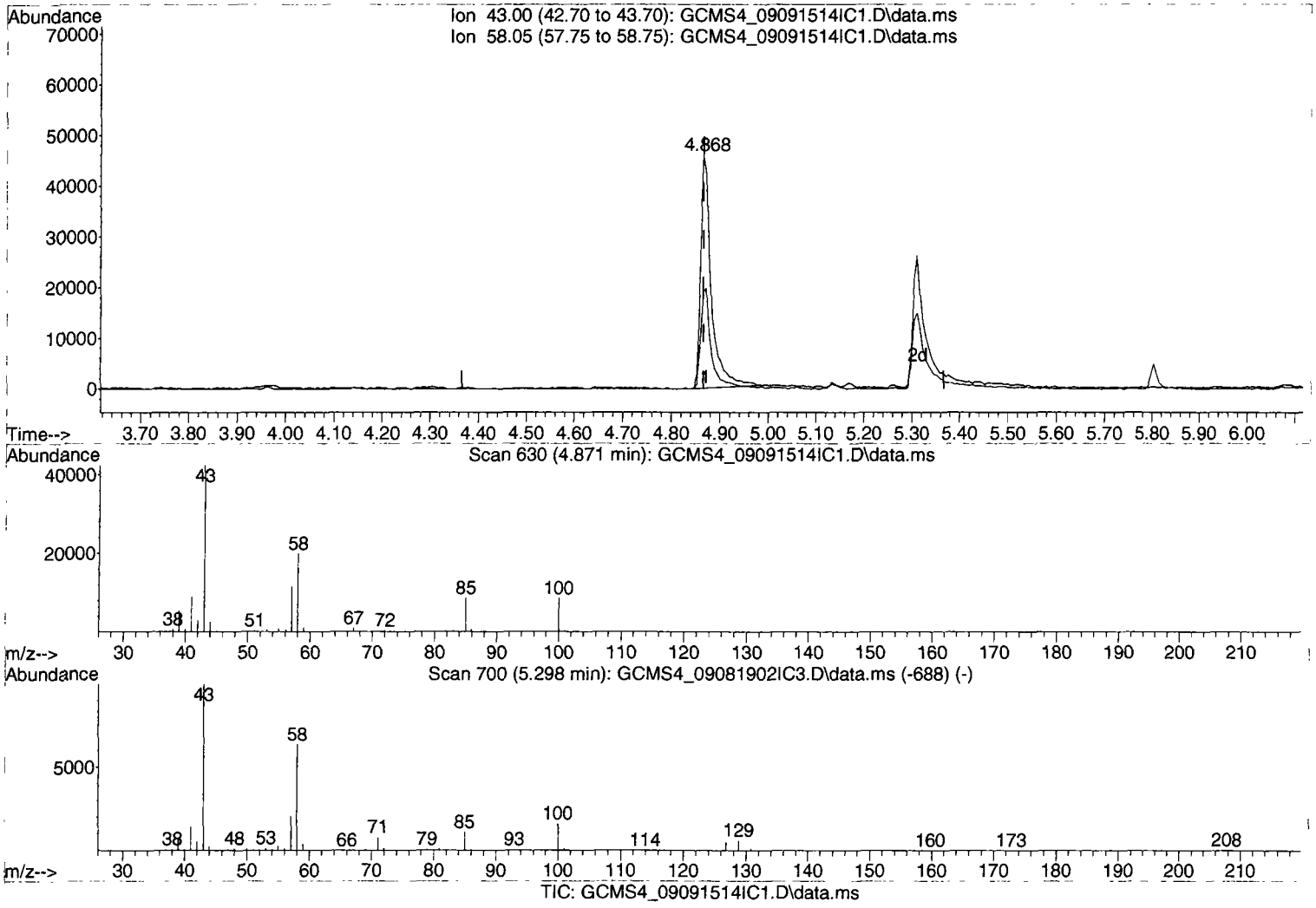
Quant Time: Sep 16 08:10:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091514IC1.D
Acq On : 15 Sep 2009 18:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 18:22:59 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.871min (+0.005) 50.18ng

response 698070

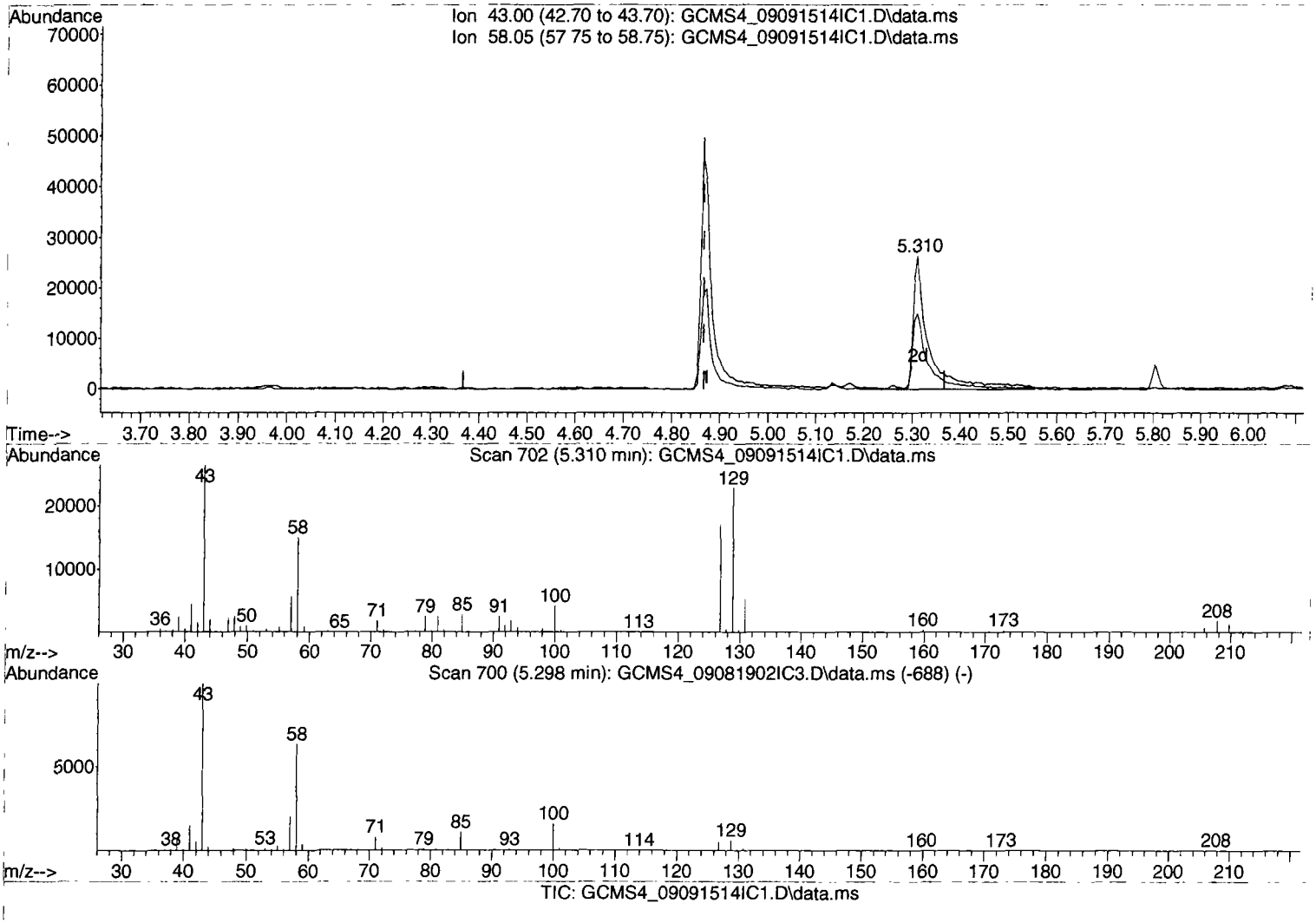
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	43.54
0.00	0.00	0.00
0.00	0.00	0.00

bepue P
CMM 9/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091514IC1.D
Acq On : 15 Sep 2009 18:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 18:22:59 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.310min (+0.445) 44.64ng m

response 620958

Ion	Exp%	Act%
43.00	100	100
58.05	36.90	48.94
0.00	0.00	0.00
0.00	0.00	0.00

aftec
CMY 9/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091514IC1.D
Acq On : 15 Sep 2009 18:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 08:09:19 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.149	96	2135627	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.807	82	842215	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.040	152	746422	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.978	84	2127643	38.45 ng		0.00
34) TOLUENE-D8	5.138	98	1911083	47.37 ng		0.00
52) p-BROMOFLUOROBENZENE	6.346	95	759115	59.66 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.084	85	232775	49.05 ng		98
3) Chloromethane	1.151	50	764581	64.26 ng		97
4) Vinyl chloride	1.217	62	290023	79.44 ng		98
5) Bromomethane	1.368	94	562939	115.36 ng		98
6) Chloroethane	1.421	64	264089	59.86 ng		96
7) Trichlorofluoromethane	1.659	101	562176	52.50 ng		97
8) Acrolein	1.659	56	84905	102.49 ng		84
9) 1,1-Dichloroethene	1.913	96	280281	18.48 ng		90
10) Acetone	1.717	43	625400	110.47 ng		93
11) Carbon disulfide	2.099	76	737771	17.32 ng		97
12) Methylene chloride	1.992	84	449932	20.35 ng		80
13) Acrylonitrile	1.952	53	711161	91.13 ng		96
14) trans-1,2-Dichloroethene	2.395	96	336354	18.88 ng		89
15) 1,1-Dichloroethane	2.566	63	488627	16.75 ng	#	94
16) 2-Butanone	2.944	43	707018	80.96 ng	#	73
17) cis-1,2-Dichloroethene	3.032	96	354980	17.17 ng		88
18) 2,2-Dichloropropane	3.259	77	313870	19.93 ng		97
19) Bromochloromethane	3.158	128	177094	18.32 ng		94
20) Chloroform	3.208	83	493668	16.91 ng		93
21) 1,1,1-Trichloroethane	3.740	97	367482	18.56 ng		93
22) 1,1-Dichloropropene	3.875	75	403560	17.84 ng		96
23) Carbon tetrachloride	3.969	117	251670	19.99 ng		90
25) 1,2-Dichloroethane	3.686	62	295547	17.84 ng		96
26) Benzene	4.004	78	1397568	18.78 ng		97
27) Trichloroethene	4.395	130	371513	18.49 ng		94
28) 1,2-Dichloropropane	4.367	63	304507	18.58 ng		97
29) Dibromomethane	4.341	174	190819	18.84 ng		95
30) Bromodichloromethane	4.418	83	307347	17.79 ng		96
32) cis-1,3-Dichloropropene	4.787	75	355964	19.63 ng		99
33) 4-Methyl-2-pentanone	4.871	43	698070	35.87 ng	#	95
35) Toluene	5.173	91	1534014	19.65 ng		96
36) trans-1,3-Dichloropropene	5.017	75	281888	17.16 ng		97
37) 1,1,2-Trichloroethane	5.081	97	288932	18.81 ng		95
38) 1,3-Dichloropropane	5.201	76	513212	20.40 ng		89
39) Tetrachloroethene	5.514	166	409768	19.33 ng		95
40) 2-Hexanone	5.310	43	620958m	44.64 ng		
41) Dibromochloromethane	5.314	129	235263	17.48 ng	#	84
42) 1,2-Dibromoethane	5.428	107	290965	20.39 ng		89
44) Chlorobenzene	5.822	112	1010932	22.49 ng		98
45) 1,1,1,2-Tetrachloroethane	5.788	131	277865	18.36 ng		92
46) Ethylbenzene	5.919	91	1758301	24.20 ng		97
47) m- &/or p-Xylene	6.006	91	2955753	52.46 ng		95
48) o-Xylene	6.175	91	1490710	24.86 ng		97
49) Styrene	6.148	104	1373517	26.75 ng	#	83
50) Bromoform	6.036	173	167284	17.54 ng		86

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091514IC1.D
Acq On : 15 Sep 2009 18:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 08:09:19 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration

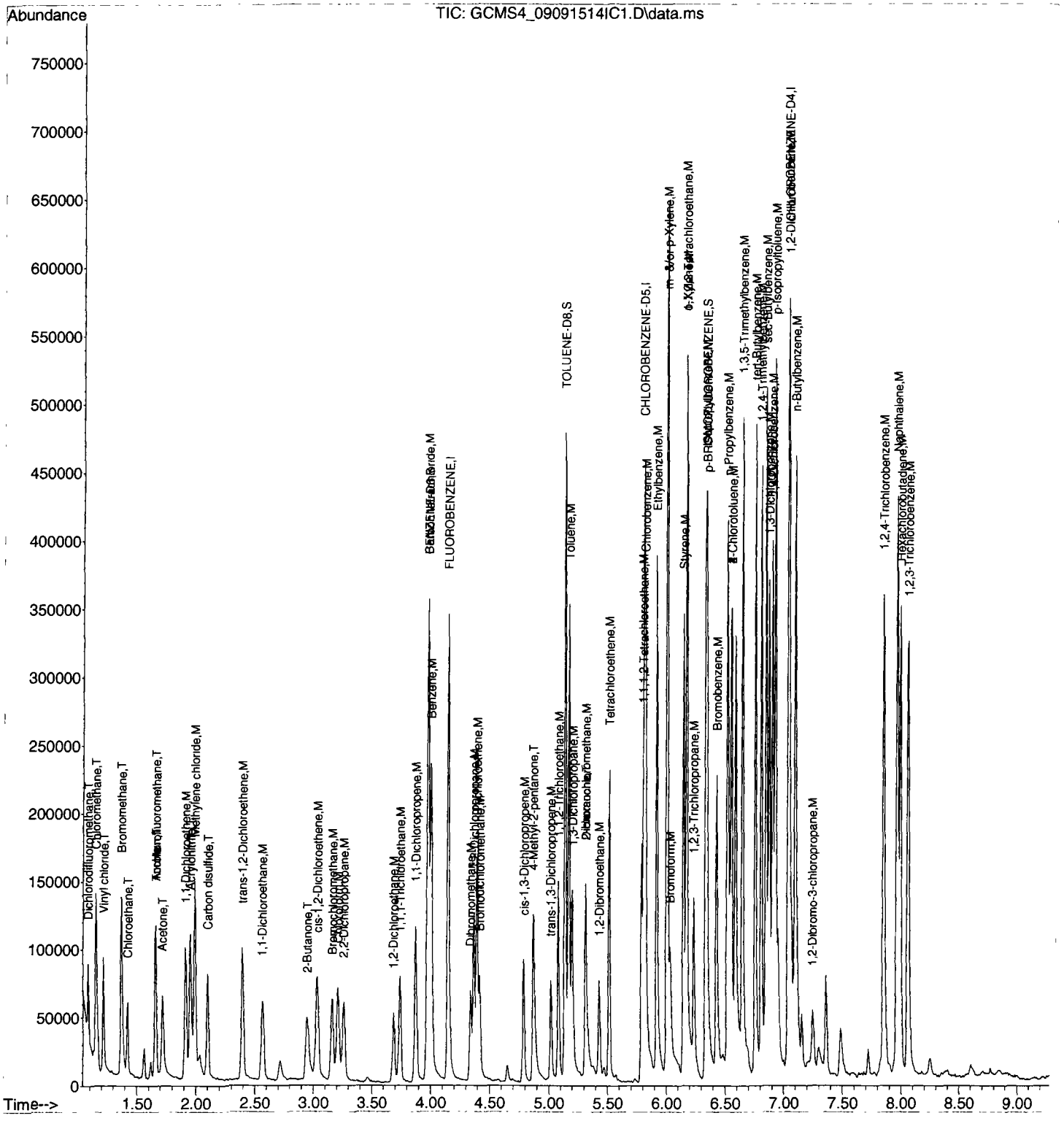
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) Isopropylbenzene	6.334	105	1733792	24.22	ng		97
53) 1,1,2,2-Tetrachloroethane	6.174	83	363615	20.88	ng		97
54) 1,2,3-Trichloropropane	6.236	75	336478	21.52	ng		99
55) Bromobenzene	6.429	156	507881	24.43	ng		90
56) n-Propylbenzene	6.521	91	1822016	22.79	ng		89
57) 2-Chlorotoluene	6.554	91	1357990	24.80	ng		100
58) 4-Chlorotoluene	6.554	91	1357990	24.76	ng		97
59) 1,3,5-Trimethylbenzene	6.648	105	1549062	24.27	ng		91
60) tert-Butylbenzene	6.759	119	1228366	21.91	ng		94
61) 1,2,4-Trimethylbenzene	6.809	105	1505018	24.69	ng		90
62) sec-Butylbenzene	6.850	105	2179609	25.69	ng		98
63) p-Isopropyltoluene	6.930	119	1762965	25.61	ng	#	75
64) 1,3-Dichlorobenzene	6.876	146	858340	25.51	ng		98
65) 1,4-Dichlorobenzene	6.905	146	1384247	32.66	ng		95
67) n-Butylbenzene	7.099	91	1863850	26.88	ng		96
68) 1,2-Dichlorobenzene	7.049	146	1017582	24.01	ng		95
69) 1,2-Dibromo-3-chloropr...	7.249	157	86331	16.60	ng		91
70) 1,2,4-Trichlorobenzene	7.852	180	911357	27.67	ng		97
71) Hexachlorobutadiene	7.995	225	453565	23.67	ng		96
72) Naphthalene	7.967	128	2683621	28.14	ng		98
73) 1,2,3-Trichlorobenzene	8.060	180	874813	26.48	ng		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 09091514IC1.D
Acq On : 15 Sep 2009 18:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 9091403/9091404
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 16 08:09:19 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090914.M
Quant Title :
QLast Update : Tue Sep 15 12:39:47 2009
Response via : Initial Calibration



Response Factor Report GCMS04

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090915.M
Title :
Last Update : Wed Sep 16 08:25:57 2009
Response Via : Initial Calibration

Calibration Files
3 =GCMS4 09091509IC3.D 5 =GCMS4 09091511IC5.D 4 =GCMS4 09091510IC4.D
2 =GCMS4_09091508IC2.D 1 =GCMS4_09091514IC1.D 6 =GCMS4_09091516IC6.D

		Compound	3	5	4	2	1	6	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	T	Dichlorodifluo...	0.133	0.136	0.131	0.128	0.109	0.123	0.127	7.76
3)	T	Chloromethane	0.267	0.286	0.271	0.270	0.358	0.282	0.289	11.99
4)	T	Vinyl chloride	0.087			0.127	0.136		0.117	22.46
5)	T	Bromomethane	0.112	0.074	0.089	0.140		0.052	0.093	36.47
6)	T	Chloroethane	0.134	0.102	0.113	0.135	0.124	0.073	0.113	20.84
7)	T	Trichlorofluor...	0.304	0.291	0.292	0.294	0.263	0.255	0.283	6.76
8)	T	Acrolein	0.011	0.011	0.012	0.011	0.016	0.011	0.012	15.91
9)	M	1,1-Dichloroet...	0.165	0.208	0.180	0.165	0.262	0.212	0.199	18.81
10)	T	Acetone	0.080	0.075	0.080	0.075	0.117	0.076	0.084	19.62
11)	T	Carbon disulfide	0.466	0.606	0.509	0.490	0.691	0.622	0.564	15.73
12)	M	Methylene chlo...	0.248	0.288	0.267	0.267	0.421	0.297	0.298	21.08
13)	T	Acrylonitrile	0.104	0.100	0.133	0.099	0.133	0.102	0.112	14.78
14)	M	trans-1,2-Dich...	0.201	0.259	0.221	0.208	0.315	0.266	0.245	17.65
15)	M	1,1-Dichloroet...	0.323	0.411	0.355	0.325	0.458	0.429	0.383	14.87
16)	T	2-Butanone	0.116	0.115	0.121	0.108	0.132	0.120	0.119	6.89
17)	M	cis-1,2-Dichlo...	0.239	0.292	0.262	0.245	0.332	0.301	0.279	13.00
18)	M	2,2-Dichloropr...	0.166	0.204	0.171	0.183	0.294	0.215	0.206	22.98
19)	M	Bromochloromet...	0.115	0.128	0.125	0.118	0.166	0.135	0.131	14.10
20)	M	Chloroform	0.329	0.410	0.363	0.334	0.462	0.429	0.388	14.00
21)	M	1,1,1-Trichlor...	0.221	0.276	0.231	0.233	0.344	0.286	0.265	17.65
22)	M	1,1-Dichloropr...	0.248	0.330	0.269	0.255	0.378	0.342	0.304	17.69
23)	M	Carbon tetrach...	0.143	0.172	0.142	0.156	0.236	0.181	0.172	20.41
24)	S	BENZENE-D6	1.071	1.308	1.148	1.021	0.996	1.453	1.166	15.41
25)	M	1,2-Dichloroet...	0.196	0.233	0.225	0.200	0.277	0.249	0.230	13.26
26)	M	Benzene	0.865	1.053	0.933	0.888	1.309	1.073	1.020	16.20
27)	M	Trichloroethene	0.234	0.292	0.251	0.237	0.348	0.301	0.277	16.05
28)	M	1,2-Dichloropr...	0.193	0.222	0.208	0.207	0.285	0.226	0.224	14.46
29)	M	Dibromomethane	0.126	0.130	0.131	0.133	0.179	0.135	0.139	14.21
30)	M	Bromodichlorom...	0.204	0.239	0.214	0.218	0.288	0.253	0.236	13.13
31)	T	2-Chloroethyl ...							0.000	-1.00
32)	M	cis-1,3-Dichlo...	0.239	0.242	0.232	0.257	0.333	0.254	0.260	14.37
33)	T	4-Methyl-2-pen...	0.258	0.253	0.270	0.236	0.327	0.257	0.267	11.76
34)	S	TOLUENE-D8	0.932	0.931	0.941	0.905	0.895	0.961	0.927	2.60
35)	M	Toluene	0.937	1.113	1.010	0.955	1.437	1.129	1.097	16.80
36)	M	trans-1,3-Dich...	0.218	0.226	0.224	0.223	0.264	0.232	0.231	7.21
37)	M	1,1,2-Trichlor...	0.200	0.203	0.203	0.203	0.271	0.202	0.214	13.05
38)	M	1,3-Dichloropr...	0.335	0.333	0.341	0.345	0.481	0.337	0.362	16.09
39)	M	Tetrachloroethene	0.241	0.308	0.264	0.246	0.384	0.316	0.293	18.49
40)	T	2-Hexanone	0.187	0.183	0.200	0.176	0.291	0.192	0.205	20.98
41)	M	Dibromochlorom...	0.176	0.177	0.179	0.188	0.220	0.181	0.187	9.03
42)	M	1,2-Dibromoethane	0.193	0.182	0.194	0.204	0.272	0.182	0.205	16.75
43)	I	CHLOROBENZENE-D5	----------ISTD----------							
44)	M	Chlorobenzene	1.421	1.408	1.409	1.547	2.401	1.281	1.578	26.10
45)	M	1,1,1,2-Tetrac...	0.475	0.466	0.471	0.516	0.660	0.431	0.503	16.19
46)	M	Ethylbenzene	2.369	2.363	2.323	2.538	4.175	2.109	2.646	28.79
47)	M	m- &/or p-Xylene	1.902	1.774	1.819	2.057		1.523	1.815	10.78
48)	M	o-Xylene	1.958	1.874	1.906	2.145		1.634	1.903	9.65
49)	M	Styrene	1.635	1.567	1.592	1.760	3.262	1.433	1.875	36.68
50)	M	Bromoform	0.330	0.291	0.326	0.350	0.397	0.271	0.328	13.58
51)	M	Isopropylbenzene	2.339	2.250	2.241	2.529	4.117	2.001	2.579	29.95
52)	S	p-BROMOFLUOROB...	0.806	0.668	0.729	0.843	0.901	0.595	0.757	15.14
53)	M	1,1,2,2-Tetrac...	0.596	0.489	0.558	0.616	0.863	0.435	0.593	25.10
54)	M	1,2,3-Trichlor...	0.555	0.461	0.514	0.585	0.799	0.420	0.556	24.05
55)	M	Bromobenzene	0.639	0.613	0.626	0.689		0.567	0.627	7.05
56)	M	n-Propylbenzene	2.487	2.532	2.433	2.542	4.327	2.274	2.766	27.87
57)	M	2-Chlorotoluene	1.718	1.672	1.638	1.856		1.517	1.680	7.36

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090915.M
Title :

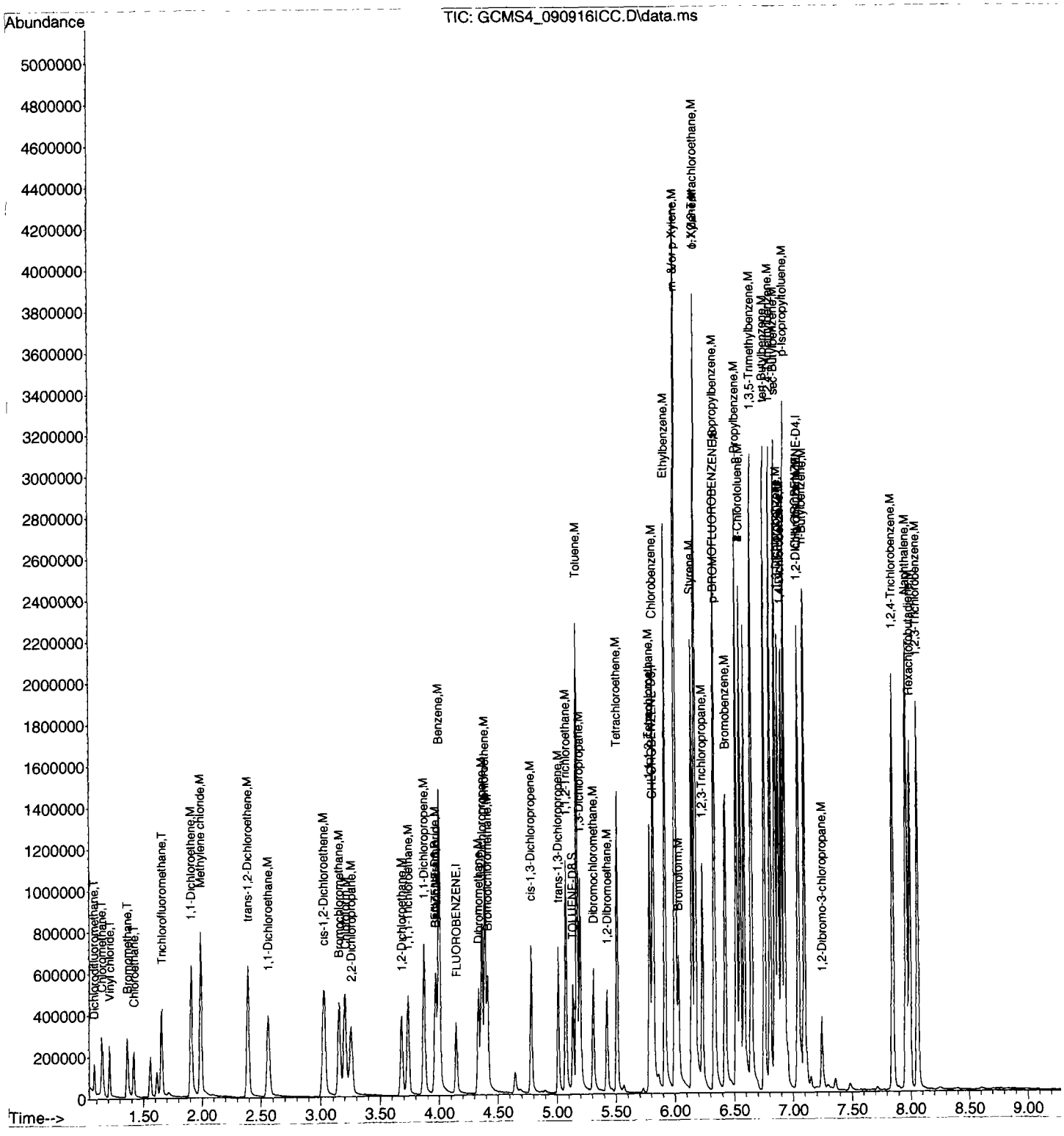
58)	M	4-Chlorotoluene	1.718	1.672	1.638	1.856		1.517	1.680	7.36
59)	M	1,3,5-Trimethy...	2.062	1.977	1.951	2.220		1.673	1.977	10.09
60)	M	tert-Butylbenzene	1.785	1.752	1.678	1.915		1.570	1.740	7.34
61)	M	1,2,4-Trimethy...	1.966	1.918	1.884	2.121		1.724	1.923	7.44
62)	M	sec-Butylbenzene	2.679	2.605	2.531	2.879		2.301	2.599	8.13
63)	M	p-Isopropyltol...	2.168	2.158	2.074	2.320		1.945	2.133	6.45
64)	M	1,3-Dichlorobe...	1.021	1.044	1.015	1.096		0.974	1.030	4.33
65)	M	1,4-Dichlorobe...	1.229	1.171	1.179	1.375		1.066	1.204	9.34
66)	I	1,2-DICHLOROBENZEN...	----------ISTD----------							
67)	M	n-Butylbenzene	2.211	2.630	2.279	2.318		2.643	2.416	8.47
68)	M	1,2-Dichlorobe...	1.399	1.538	1.448	1.503	2.727	1.591	1.701	29.80
69)	M	1,2-Dibromo-3-...	0.190	0.196	0.196	0.185	0.231	0.203	0.200	8.17
70)	M	1,2,4-Trichlor...	1.011	1.111	1.040	1.109		1.152	1.085	5.32
71)	M	Hexachlorobuta...	0.577	0.715	0.598	0.617		0.745	0.650	11.53
72)	M	Naphthalene	2.860	2.759	2.796	3.084		2.772	2.854	4.69
73)	M	1,2,3-Trichlor...	1.023	1.089	1.051	1.115		1.126	1.081	4.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 090916ICC.D
Acq On : 15 Sep 2009 18:33
Operator : CTANG
Sample : IC Check
Misc : IC Check
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 08:27:46 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 090916ICC.D
Acq On : 15 Sep 2009 18:33
Operator : CTANG
Sample : IC Check
Misc : IC Check
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 08:27:46 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.149	96	2109032	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.805	82	916663	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	758695	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.977	84	2253778	45.82 ng	0.00
34) TOLUENE-D8	5.138	98	1899255	48.55 ng	0.00
52) p-BROMOFLUOROBENZENE	6.344	95	767478	55.29 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.084	85	608181	113.67 ng	96 X
3) Chloromethane	1.151	50	1775627	145.70 ng	96 X
4) Vinyl chloride	1.217	62	1094984	222.68 ng	100
5) Bromomethane	1.367	94	1187477	301.93 ng	100
6) Chloroethane	1.421	64	1083725	226.49 ng	96
7) Trichlorofluoromethane	1.659	101	2203058	184.48 ng	100
9) 1,1-Dichloroethene	1.912	96	1776201	211.94 ng	90
12) Methylene chloride	1.992	84	2649438	210.67 ng	80
14) trans-1,2-Dichloroethene	2.394	96	2090414	202.19 ng	90
15) 1,1-Dichloroethane	2.565	63	3305815	204.46 ng	# 96
17) cis-1,2-Dichloroethene	3.030	96	2421133	206.03 ng	89
18) 2,2-Dichloropropane	3.259	77	1712150	197.43 ng	98
19) Bromochloromethane	3.157	128	1214409	219.52 ng	99
20) Chloroform	3.207	83	3580128	218.78 ng	94
21) 1,1,1-Trichloroethane	3.739	97	2238577	200.14 ng	95
22) 1,1-Dichloropropene	3.873	75	2626025	205.10 ng	98
23) Carbon tetrachloride	3.970	117	1476847	203.88 ng	90
25) 1,2-Dichloroethane	3.683	62	2030401	209.34 ng	93
26) Benzene	4.003	78	8998526	209.16 ng	97
27) Trichloroethene	4.393	130	2445924	209.29 ng	95
28) 1,2-Dichloropropane	4.365	63	2107449	223.37 ng	100
29) Dibromomethane	4.339	174	1351007	230.67 ng	97
30) Bromodichloromethane	4.417	83	2171000	218.19 ng	97
32) cis-1,3-Dichloropropene	4.784	75	2531304	231.13 ng	98
35) Toluene	5.171	91	9929365	214.61 ng	99
36) trans-1,3-Dichloropropene	5.014	75	2284497	234.23 ng	95
37) 1,1,2-Trichloroethane	5.080	97	2222899	246.58 ng	95
38) 1,3-Dichloropropane	5.199	76	3593771	235.30 ng	92
39) Tetrachloroethene	5.513	166	2642474	213.71 ng	98
41) Dibromochloromethane	5.312	129	1800859	228.38 ng	97
42) 1,2-Dibromoethane	5.427	107	2149379	249.07 ng	96
44) Chlorobenzene	5.820	112	6665992	230.44 ng	94
45) 1,1,1,2-Tetrachloroethane	5.787	131	2114935	229.29 ng	92
46) Ethylbenzene	5.916	91	11028311	227.34 ng	98
47) m- &/or p-Xylene	6.004	91	17889428	537.56 ng	99
48) o-Xylene	6.173	91	9333351	267.47 ng	97
49) Styrene	6.145	104	7587443	220.76 ng	89
50) Bromoform	6.035	173	1456220	242.50 ng	88
51) Isopropylbenzene	6.332	105	11316864	239.31 ng	96
53) 1,1,2,2-Tetrachloroethane	6.172	83	2871000	264.15 ng	98
54) 1,2,3-Trichloropropane	6.233	75	2668574	261.93 ng	94
55) Bromobenzene	6.427	156	3005107	261.53 ng	92
56) n-Propylbenzene	6.519	91	11571733	228.20 ng	96
57) 2-Chlorotoluene	6.552	91	8109394	263.26 ng	98
58) 4-Chlorotoluene	6.552	91	8109394	263.26 ng	94

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090915\
Data File : GCMS4 090916ICC.D
Acq On : 15 Sep 2009 18:33
Operator : CTANG
Sample : IC Check
Misc : IC Check
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 08:27:46 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
59) 1,3,5-Trimethylbenzene	6.647	105	9782217	269.95 ng	89
60) tert-Butylbenzene	6.757	119	8437215	264.47 ng	92
61) 1,2,4-Trimethylbenzene	6.807	105	9395194	266.54 ng	92
62) sec-Butylbenzene	6.849	105	12831859	269.30 ng	97
63) p-Isopropyltoluene	6.928	119	10544573	269.66 ng	95
64) 1,3-Dichlorobenzene	6.874	146	5024807	266.07 ng	98
65) 1,4-Dichlorobenzene	6.903	146	6115815	277.03 ng	94
67) n-Butylbenzene	7.096	91	9168268	250.09 ng	97
68) 1,2-Dichlorobenzene	7.047	146	5612667	217.46 ng	95
69) 1,2-Dibromo-3-chloropr...	7.245	157	676343	222.44 ng	89
70) 1,2,4-Trichlorobenzene	7.848	180	4317223	262.35 ng	96
71) Hexachlorobutadiene	7.994	225	2268080	229.83 ng	97
72) Naphthalene	7.963	128	12033257	277.83 ng	98
73) 1,2,3-Trichlorobenzene	8.058	180	4200420	256.18 ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sequence Name: D:\Ctang\GCMS4 090916.S
Comment: 0909005 BASF Wyandotte
Operator: CTANG
Data Path: D:\CTANG\DATA\GCMS4_090916\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1) BFB	1	
Datafile		GCMS4 09091601BFB
Method		GCMS4_090915
2) Calibration	2	
Datafile		GCMS4 09091602CC , B909019-BS2
Method		GCMS4_090915
3) Sample	3	
Datafile		GCMS4 09091603BLK , B909019-BLK2
Method		GCMS4_090915
4) Sample	4	
Datafile		GCMS4 09091604MS , B909019-MS1
Method		GCMS4_090915
5) Sample	5	
Datafile		GCMS4 09091605MSD , B909019-MSD1
Method		GCMS4_090915
6) Sample	6	
Datafile		GCMS4 09091606 , 0909005-06
Method		GCMS4_090915
7) Sample	7	
Datafile		GCMS4 09091607 , 0909005-07
Method		GCMS4_090915
8) Sample	8	
Datafile		GCMS4 09091608 , 0909006-01
Method		GCMS4_090915
9) Sample	9	
Datafile		GCMS4 09091609 , 0909006-02
Method		GCMS4_090915
10) Sample	10	
Datafile		GCMS4 09091610 , 0909006-03
Method		GCMS4_090915
11) Sample	11	
Datafile		GCMS4 09091611 , 0909014-02
Method		GCMS4_090915
12) Sample	12	
Datafile		GCMS4 09091612 , 0909014-03
Method		GCMS4_090915
13) Sample	13	
Datafile		GCMS4 09091613 , 0909014-04
Method		GCMS4_090915
14) Sample	14	
Datafile		GCMS4 09091614 , 0909014-05
Method		GCMS4_090915
15) Sample	15	
Datafile		GCMS4 09091615MS , B909019-MS2
Method		GCMS4_090915
16) Sample	16	
Datafile		GCMS4 09091616MSD , B909019-MSD2
Method		GCMS4_090915
17) Sample	17	
Datafile		GCMS4 09091617BSD , B909019-BSD2 (CCC)
Method		GCMS4_090915

CMT 9/10/09

4C091691.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	1	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
2	2	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
3	3	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
4	4	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
5	5	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
6	6	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
7	7	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1

4C091692.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	8	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
2	9	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
3	10	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
4	11	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
5	12	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
6	13	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
7	14	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1

4C091693.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	15	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
2	16	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1
3	17	SOIL5.msvs	Soil	0 µL	0 µL	5 µL	10 mL	1:1

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, SAS No.: _____ SDG No.: MS001

Lab File ID: GCMS4_09091 BFB Injection Date: 9/16/2009

Instrument ID: GCMS 4 BFB Injection Time: 9:01

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.1
75	30.0 - 66.0% of mass 95	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.3
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	86.2
175	4.0 - 9.0% of mass 174	6.0 (7.0)1
176	93.0 - 101.0% of mass 174	84.9 (98.5)1
177	5.0 - 9.0% of mass 176	5.1 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC	B909019-BS2	GCMS4_09091	9/16/2009	9:21
02	B909019-BLK2	B909019-BLK2	GCMS4_09091	9/16/2009	9:42
03	B909019-MS1	B909019-MS1	GCMS4_09091	9/16/2009	10:02
04	B909019-MSD1	B909019-MSD1	GCMS4_09091	9/16/2009	10:23
05	T20-125-1.0-3.0	0909005-06	GCMS4_09091	9/16/2009	10:43
06	T20-125-1.0-3.0 D	0909005-07	GCMS4_09091	9/16/2009	11:04
07	T27-150-1.0-3.0	0909006-01	GCMS4_09091	9/16/2009	11:25
08	T29-200-1.0-3.0	0909006-02	GCMS4_09091	9/16/2009	11:45
09	T30-150-1.0-3.0	0909006-03	GCMS4_09091	9/16/2009	12:06
10	T23-150-1.0-3.0	0909014-02	GCMS4_09091	9/16/2009	12:26
11	T23-150-5.0-6.2	0909014-03	GCMS4_09091	9/16/2009	12:46
12	T26-175-1.0-2.6	0909014-04	GCMS4_09091	9/16/2009	13:07
13	T26-175-0.5-1.0	0909014-05	GCMS4_09091	9/16/2009	13:27
14	B909019-MS2	B909019-MS2	GCMS4_09091	9/16/2009	15:37
15	B909019-MSD2	B909019-MSD2	GCMS4_09091	9/16/2009	15:57
16	CCC	B909019-BSD2	GCMS4_09091	9/16/2009	16:18

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

B909019-BLK2

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, SAS No.: _____ SDG No.: MS001

Lab File ID: GCMS4_09091 Lab Sample ID: B909019-BLK2

Date Analyzed: 9/16/2009 Time Analyzed: 9:42

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS 4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B909019-MS1	B909019-MS1	GCMS4_090916	10:02
02	B909019-MSD1	B909019-MSD1	GCMS4_090916	10:23
03	T20-125-1.0-3.0	0909005-06	GCMS4_090916	10:43
04	T20-125-1.0-3.0 DU	0909005-07	GCMS4_090916	11:04
05	T27-150-1.0-3.0	0909006-01	GCMS4_090916	11:25
06	T29-200-1.0-3.0	0909006-02	GCMS4_090916	11:45
07	T30-150-1.0-3.0	0909006-03	GCMS4_090916	12:06
08	T23-150-1.0-3.0	0909014-02	GCMS4_090916	12:26
09	T23-150-5.0-6.2	0909014-03	GCMS4_090916	12:46
10	T26-175-1.0-2.6	0909014-04	GCMS4_090916	13:07
11	T26-175-0.5-1.0	0909014-05	GCMS4_090916	13:27
12	B909019-MS2	B909019-MS2	GCMS4_090916	15:37
13	B909019-MSD2	B909019-MSD2	GCMS4_090916	15:57
14	CCC	B909019-BSD2	GCMS4_090916	16:18

COMMENTS:

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: BASF Wyandotte Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0909005, -0ℓSAS No.: SDG No.: MS001

Lab File ID (Standard): GCMS4_0909160 Date Analyzed: 9/16/2009

Instrument ID: GCMS 4 Time Analyzed: 9:21

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2137789	4.15	894430	5.81	755550	7.04
	UPPER LIMIT	4275578	4.65	1788860	6.31	1511100	7.54
	LOWER LIMIT	1068895	3.65	447215	5.31	377775	6.54
	EPA SAMPLE NO.						
01	B909019-BLK	2071236	4.15	807928	5.81	734767	7.04
02	B909019-MS1	1985529	4.15	809857	5.80	715238	7.04
03	B909019-MSD	2060555	4.15	842835	5.80	692291	7.04
04	T20-125-1.0-3.	2136150	4.15	795346	5.81	698955	7.04
05	T20-125-1.0-3.	2068386	4.15	749689	5.81	668362	7.04
06	T27-150-1.0-3.	1954012	4.15	646331	5.81	400092	7.04
07	T29-200-1.0-3.	2205700	4.15	848049	5.81	840941	7.04
08	T30-150-1.0-3.	2089285	4.15	814447	5.81	752096	7.04
09	T23-150-1.0-3.	2136523	4.15	800527	5.81	490274	7.04
10	T23-150-5.0-6.	2089332	4.15	786721	5.81	712863	7.04
11	T26-175-1.0-2.	2013636	4.15	678054	5.81	448024	7.04
12	T26-175-0.5-1.	2119332	4.15	806298	5.81	490336	7.04
13	B909019-MS2	2017610	4.15	695460	5.80	471377	7.04
14	B909019-MSD	2071618	4.15	788273	5.80	635282	7.04
15	CCC	2144251	4.15	949053	5.80	874602	7.04

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

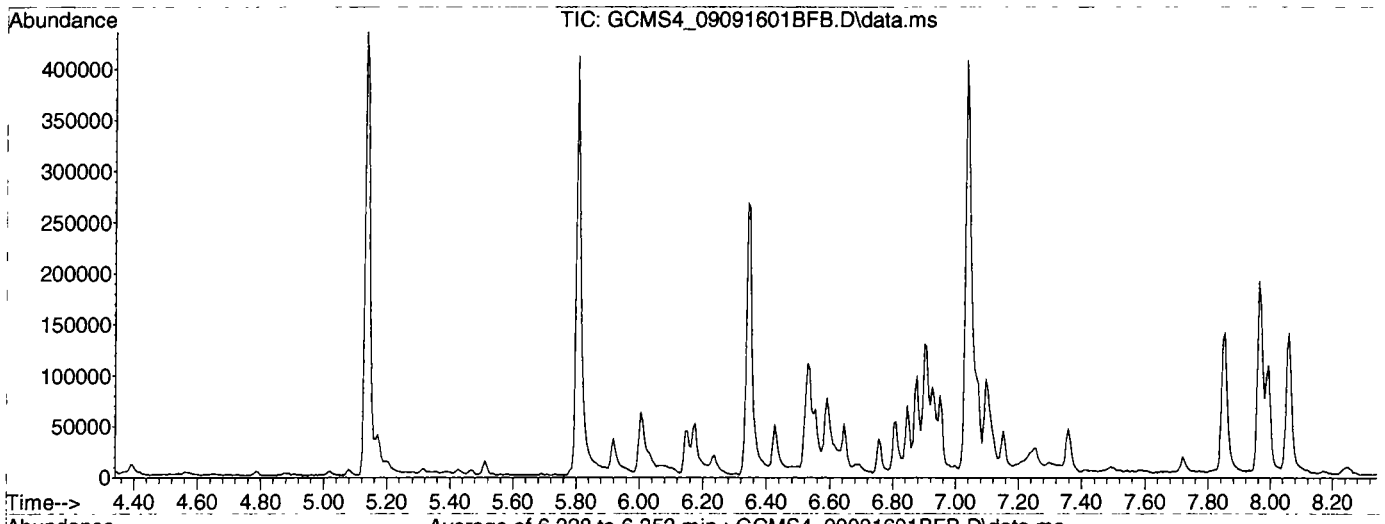
Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

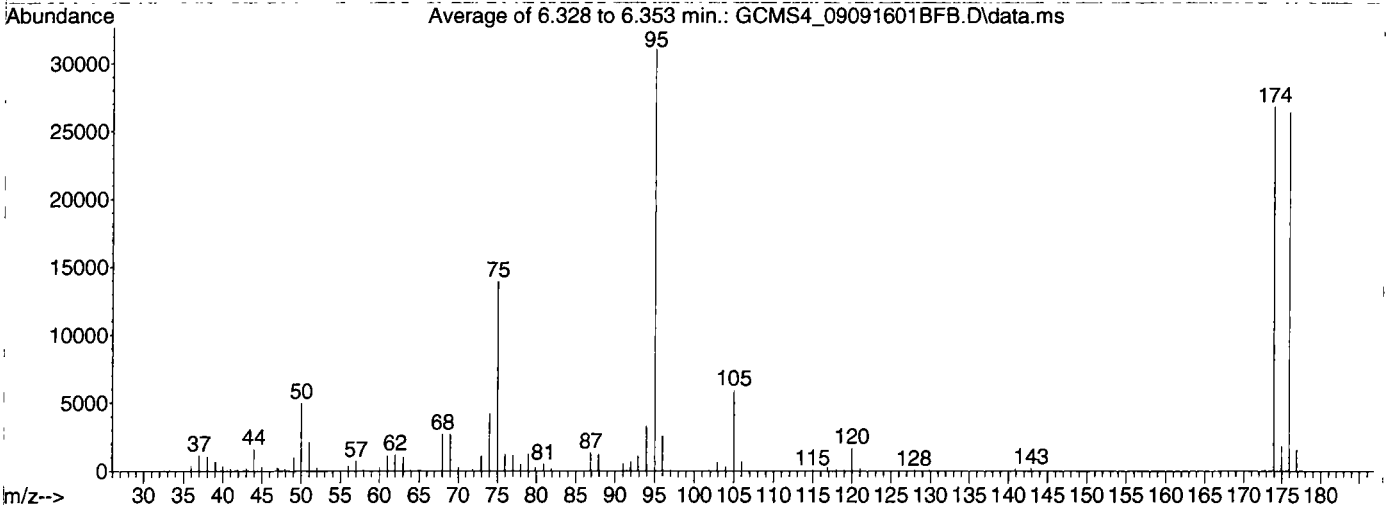
BFB

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091601BFB.D
Acq On : 16 Sep 2009 9:01
Operator : CTANG
Sample : BFB
Misc : LIMS # 9040601
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : D:\CTANG\METHODS\GCMS4_090915.M
Title :
Last Update : Wed Sep 16 08:25:57 2009





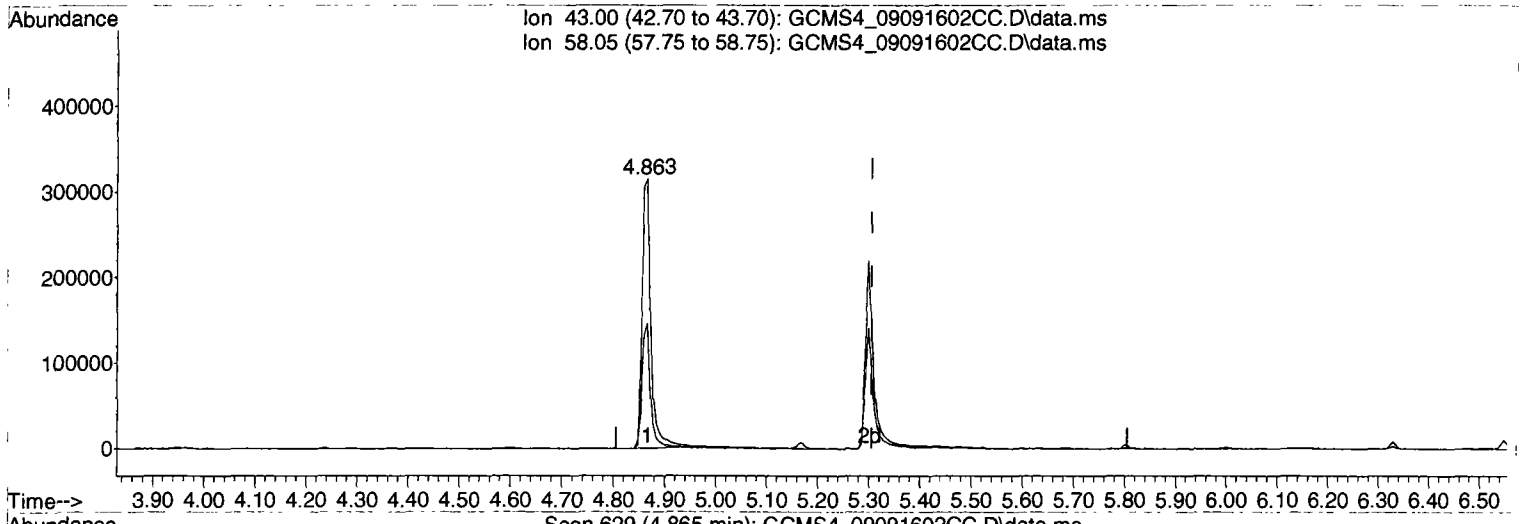
Spectrum Information: Average of 6.328 to 6.353 min.

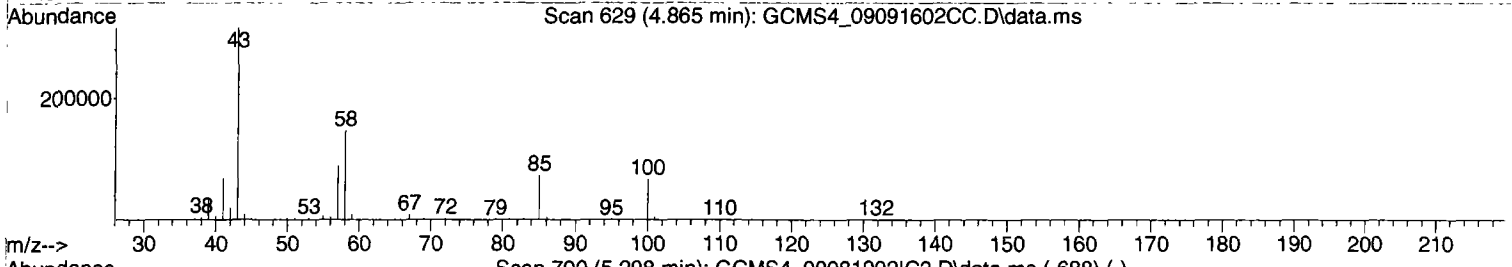
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	4996	PASS
75	95	30	60	44.8	13950	PASS
95	95	100	100	100.0	31119	PASS
96	95	5	9	8.3	2576	PASS
173	174	0.00	2	0.4	116	PASS
174	95	50	100	86.2	26822	PASS
175	174	5	9	7.0	1871	PASS
176	174	95	101	98.5	26412	PASS
177	176	5	9	6.0	1588	PASS

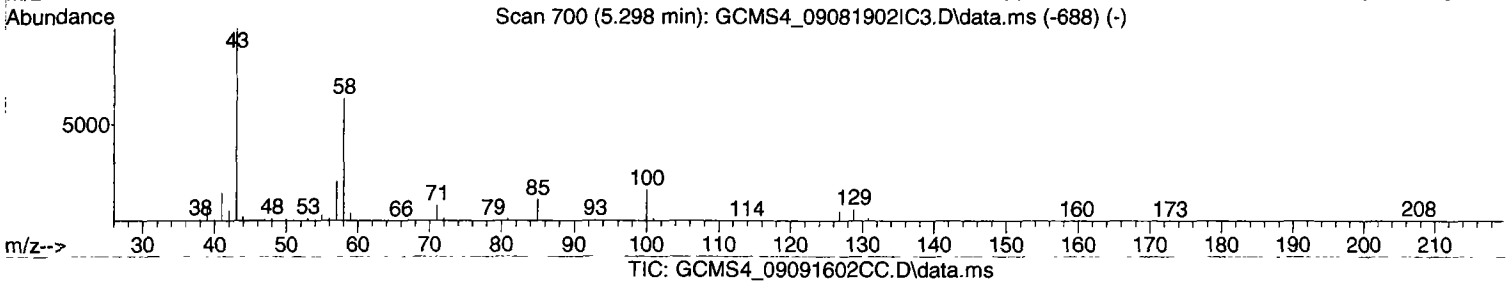
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 08:31:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







(40) 2-Hexanone (T)

4.865min (-0.439) 432.91ng

response 3789176

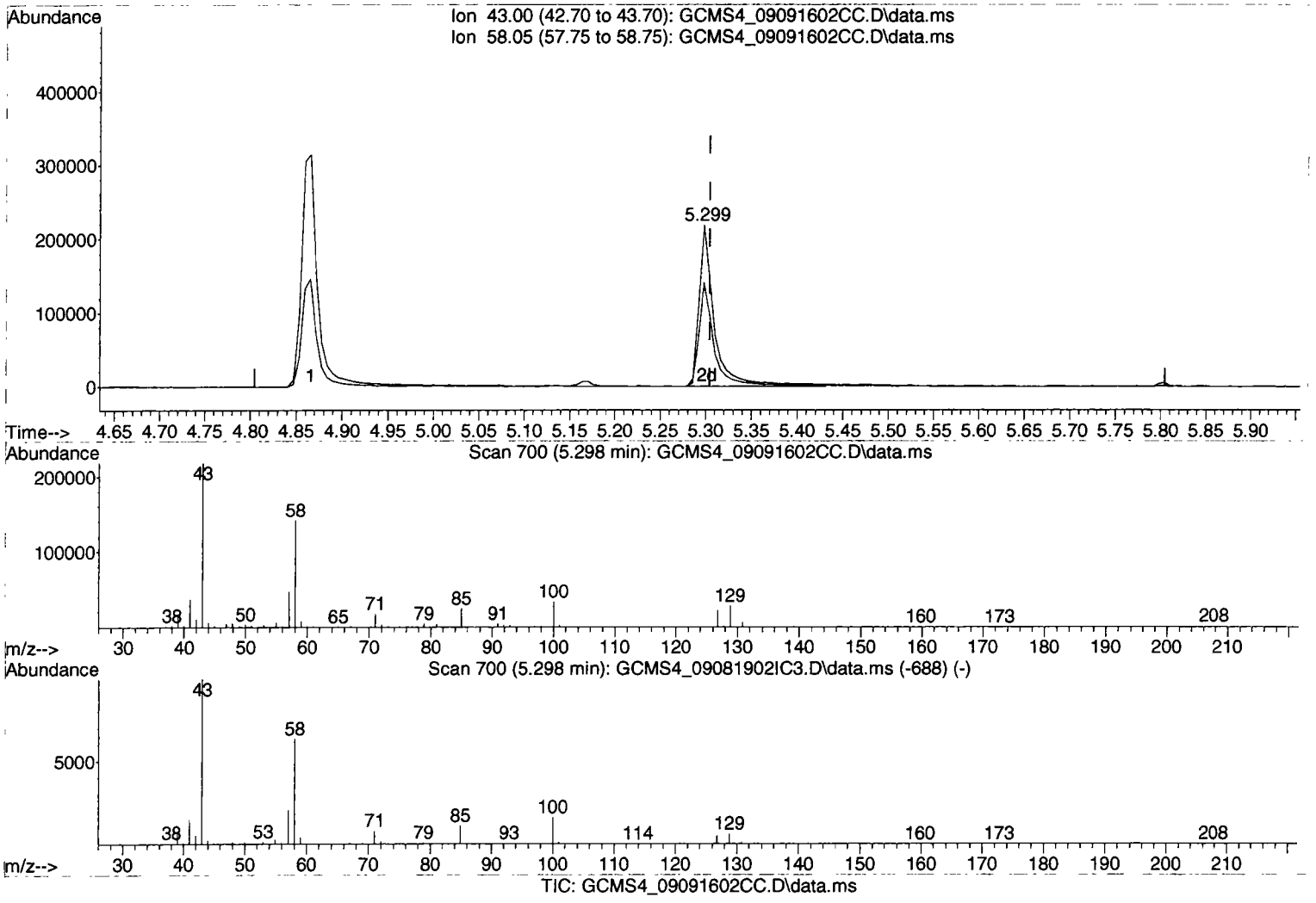
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	45.33
0.00	0.00	0.00
0.00	0.00	0.00

bepne P
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 08:31:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 297.14ng m

response 2600856

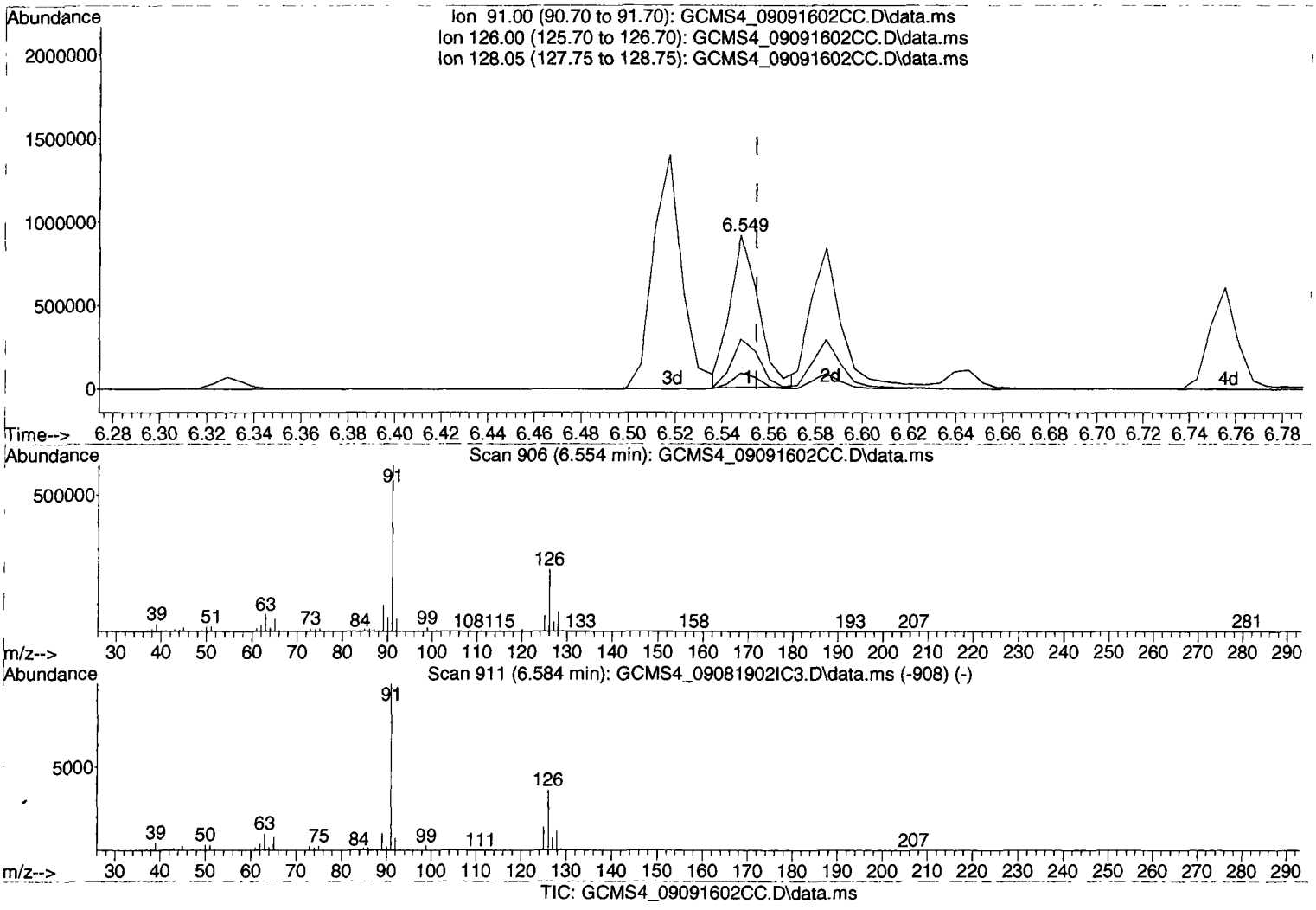
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	66.04#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 08:31:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.551min (-0.003) 261.52ng

response 7860325

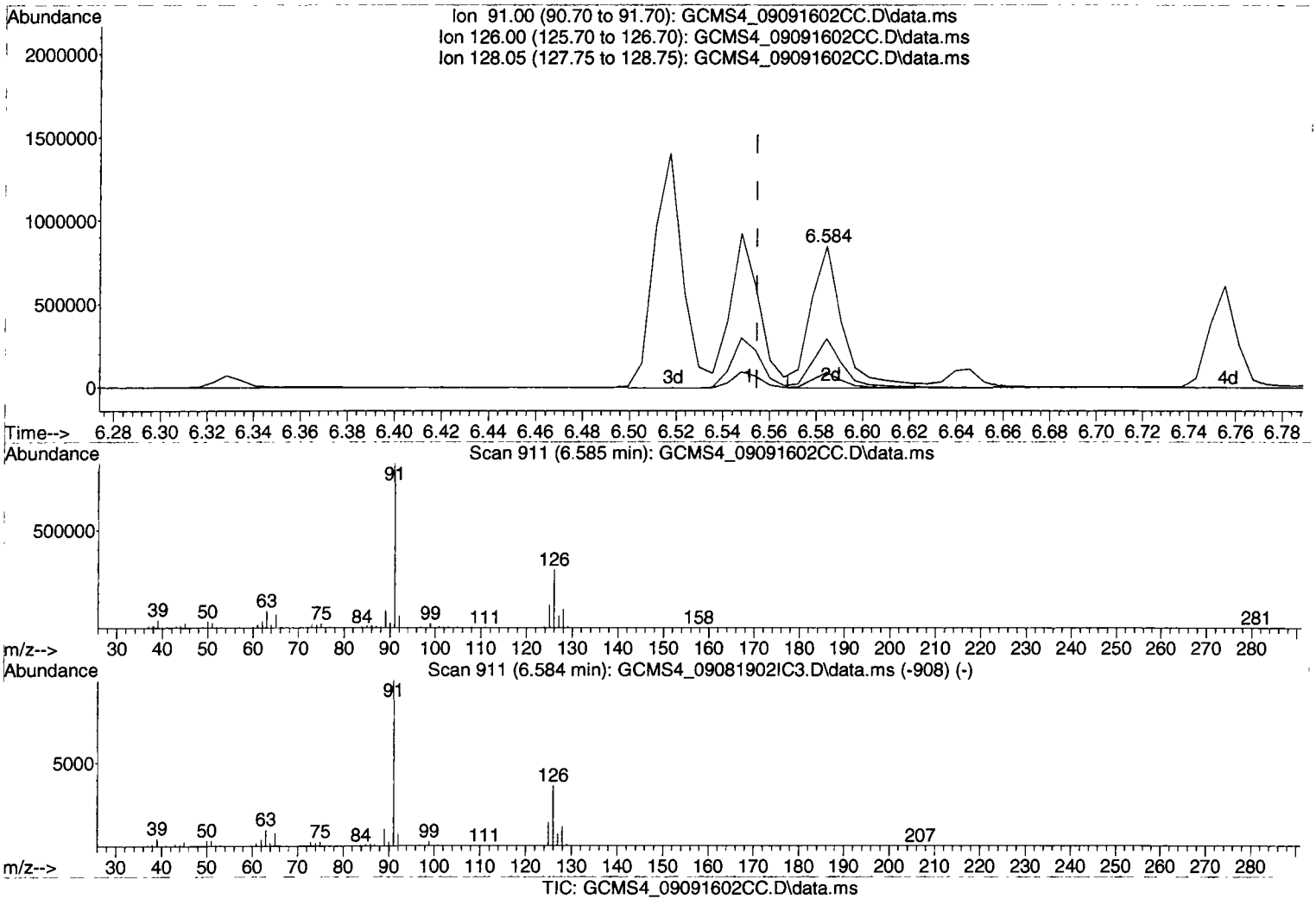
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	32.96
128.05	10.00	10.47
0.00	0.00	0.00

benzene PC
CMA 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 08:31:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.585min (+0.030) 269.09ng m

response 8087868

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	32.04
128.05	10.00	10.17
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 11:02:33 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2137789	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.805	82	894430	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	755550	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2279260	45.71 ng		0.00
34) TOLUENE-D8	5.137	98	1958399	49.39 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	745266	55.02 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.086	85	1414241	260.76 ng		98
3) Chloromethane	1.153	50	2708949	219.29 ng		96
4) Vinyl chloride	1.217	62	1256293	252.05 ng		99
5) Bromomethane	1.368	94	1430246	358.77 ng		98
6) Chloroethane	1.422	64	1491850	307.59 ng		97
7) Trichlorofluoromethane	1.659	101	3435593	283.82 ng		100
8) Acrolein	1.659	56	410089	795.19 ng		92
9) 1,1-Dichloroethene	1.913	96	1723141	202.84 ng		91
10) Acetone	1.717	43	2740409	764.22 ng		87
11) Carbon disulfide	2.100	76	4835493	200.55 ng		98
12) Methylene chloride	1.993	84	2451392	192.30 ng		80
13) Acrylonitrile	1.951	53	3662935	766.67 ng		100
14) trans-1,2-Dichloroethene	2.394	96	2110232	201.36 ng		90
15) 1,1-Dichloroethane	2.565	63	3270651	199.57 ng	#	96
16) 2-Butanone	2.937	43	4006339	789.47 ng	#	68
17) cis-1,2-Dichloroethene	3.029	96	2408755	202.21 ng		88
18) 2,2-Dichloropropane	3.259	77	1794504	204.14 ng		99
19) Bromochloromethane	3.157	128	1135962	202.58 ng		99
20) Chloroform	3.207	83	3403382	205.18 ng		94
21) 1,1,1-Trichloroethane	3.739	97	2361785	208.31 ng		94
22) 1,1-Dichloropropene	3.873	75	2618674	201.77 ng		97
23) Carbon tetrachloride	3.969	117	1609074	219.14 ng		90
25) 1,2-Dichloroethane	3.683	62	1880516	191.28 ng		98
26) Benzene	4.003	78	8851037	202.97 ng		97
27) Trichloroethene	4.393	130	2368733	199.96 ng		94
28) 1,2-Dichloropropane	4.365	63	1974422	206.45 ng		98
29) Dibromomethane	4.338	174	1191498	200.70 ng		98
30) Bromodichloromethane	4.416	83	2125127	210.71 ng		96
32) cis-1,3-Dichloropropene	4.783	75	2438235	219.64 ng		97
33) 4-Methyl-2-pentanone	4.865	43	3805920	333.72 ng	#	93
35) Toluene	5.171	91	9731162	207.50 ng		99
36) trans-1,3-Dichloropropene	5.013	75	2096771	212.09 ng		96
37) 1,1,2-Trichloroethane	5.079	97	1807812	197.84 ng		98
38) 1,3-Dichloropropane	5.198	76	3150321	203.49 ng		92
39) Tetrachloroethene	5.513	166	2592694	206.86 ng		97
40) 2-Hexanone	5.298	43	2600856m	297.14 ng		
41) Dibromochloromethane	5.312	129	1721399	215.36 ng		97
42) 1,2-Dibromoethane	5.425	107	1788814	204.50 ng		95
44) Chlorobenzene	5.819	112	6302805	223.30 ng		94
45) 1,1,1,2-Tetrachloroethane	5.787	131	2057284	228.58 ng		94
46) Ethylbenzene	5.916	91	10718484	226.45 ng		97
47) m- &/or p-Xylene	6.004	91	17308544	533.04 ng		99
48) o-Xylene	6.173	91	8874187	260.63 ng		97
49) Styrene	6.144	104	7278956	217.04 ng		90
50) Bromoform	6.034	173	1241846	211.94 ng		89

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 11:02:33 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

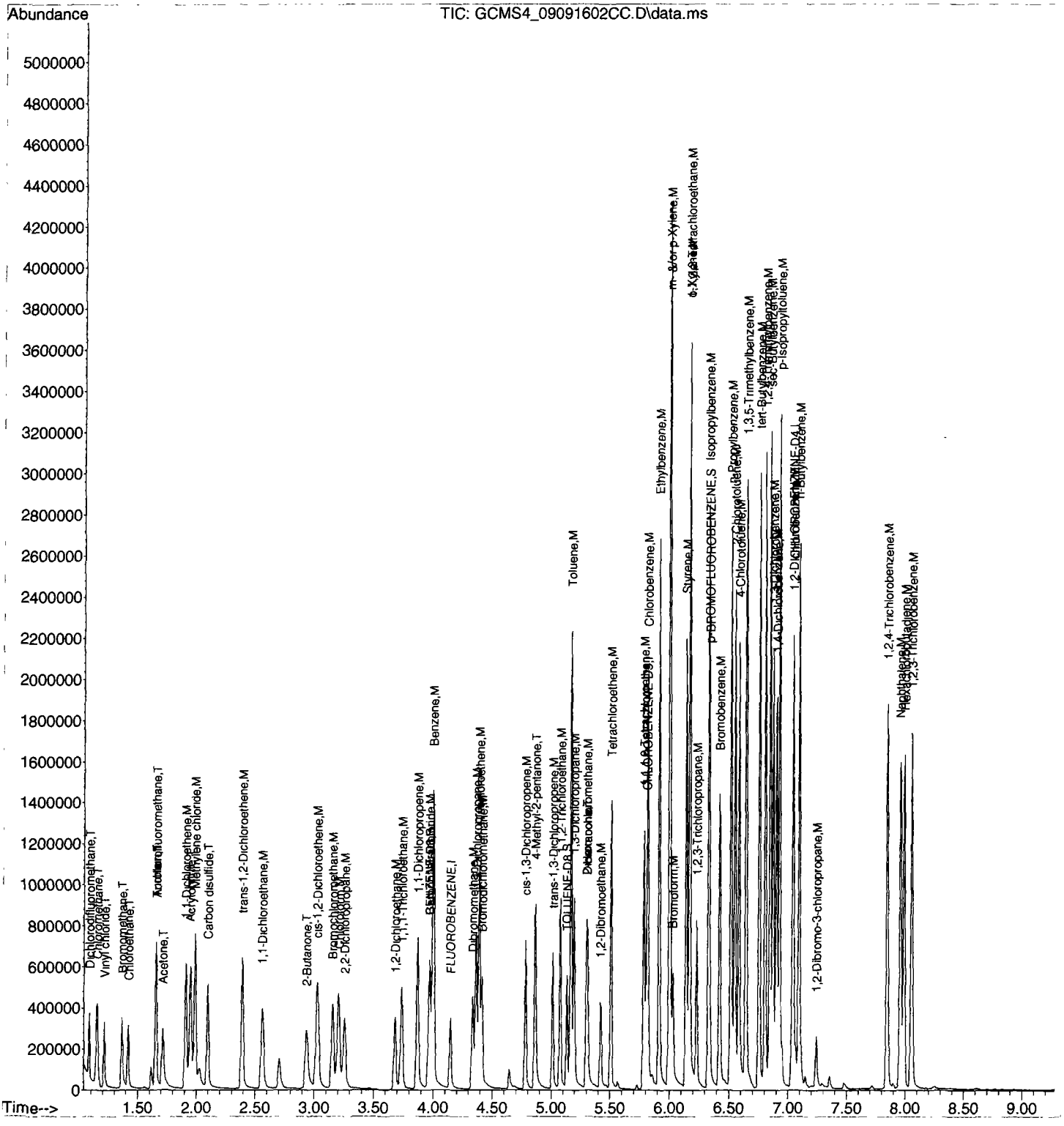
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	10750364	232.98 ng	96
53) 1,1,2,2-Tetrachloroethane	6.172	83	2268443	213.90 ng	98
54) 1,2,3-Trichloropropane	6.233	75	1956817	196.85 ng	95
55) Bromobenzene	6.426	156	2835718	252.93 ng	91
56) n-Propylbenzene	6.519	91	11773692	237.96 ng	98
57) 2-Chlorotoluene	6.551	91	7860325	261.52 ng	96
58) 4-Chlorotoluene	6.585	91	8087868m	269.09 ng	
59) 1,3,5-Trimethylbenzene	6.646	105	9561516	270.42 ng	89
60) tert-Butylbenzene	6.757	119	8215063	263.90 ng	91
61) 1,2,4-Trimethylbenzene	6.806	105	9241976	268.71 ng	93
62) sec-Butylbenzene	6.848	105	12593929	270.87 ng	97
63) p-Isopropyltoluene	6.928	119	10297628	269.89 ng	95
64) 1,3-Dichlorobenzene	6.873	146	4893219	265.55 ng	98
65) 1,4-Dichlorobenzene	6.902	146	5792076	268.88 ng	94
67) n-Butylbenzene	7.095	91	9038047	247.56 ng	96
68) 1,2-Dichlorobenzene	7.047	146	5250881	204.29 ng	94
69) 1,2-Dibromo-3-chloropr...	7.245	157	497685	164.36 ng	91
70) 1,2,4-Trichlorobenzene	7.848	180	4093903	249.81 ng	97
71) Hexachlorobutadiene	7.994	225	2249360	228.88 ng	98
72) Naphthalene	7.962	128	9240033	214.22 ng	97
73) 1,2,3-Trichlorobenzene	8.057	180	3829858	234.55 ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 11:02:33 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 11:02:33 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.127	0.132	-3.9	100	0.00
3	T	Chloromethane	0.289	0.253	12.5	96	0.00
4	T	Vinyl chloride	0.117	0.118	-0.9	137	0.00
5	T	Bromomethane	0.093	0.134	-44.1#	121	0.00
6	T	Chloroethane	0.113	0.140	-23.9	105	0.00
7	T	Trichlorofluoromethane	0.283	0.321	-13.4	107	0.00
8	T	Acrolein	0.012	0.008	33.3#	69	0.00
9	M	1,1-Dichloroethene	0.199	0.161	19.1	98	0.00
10	T	Acetone	0.084	0.051	39.3#	65	0.00
11	T	Carbon disulfide	0.564	0.452	19.9	98	0.00
12	M	Methylene chloride	0.298	0.229	23.2	93	0.00
13	T	Acrylonitrile	0.112	0.069	38.4#	67	0.00
14	M	trans-1,2-Dichloroethene	0.245	0.197	19.6	99	0.00
15	M	1,1-Dichloroethane	0.383	0.306	20.1	96	0.00
16	T	2-Butanone	0.119	0.075	37.0#	65	0.00
17	M	cis-1,2-Dichloroethene	0.279	0.225	19.4	95	0.00
18	M	2,2-Dichloropropane	0.206	0.168	18.4	102	0.00
19	M	Bromochloromethane	0.131	0.106	19.1	93	0.00
20	M	Chloroform	0.388	0.318	18.0	98	0.00
21	M	1,1,1-Trichloroethane	0.265	0.221	16.6	101	0.00
22	M	1,1-Dichloropropene	0.304	0.245	19.4	100	0.00
23	M	Carbon tetrachloride	0.172	0.151	12.2	106	0.00
24	S	BENZENE-D6	1.166	1.066	8.6	100	0.00
25	M	1,2-Dichloroethane	0.230	0.176	23.5	90	0.00
26	M	Benzene	1.020	0.828	18.8	97	0.00
27	M	Trichloroethene	0.277	0.222	19.9	95	0.00
28	M	1,2-Dichloropropane	0.224	0.185	17.4	96	0.00
29	M	Dibromomethane	0.139	0.111	20.1	89	0.00
30	M	Bromodichloromethane	0.236	0.199	15.7	98	0.00
31	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	96	0.00
32	M	cis-1,3-Dichloropropene	0.260	0.228	12.3	96	0.00
33	T	4-Methyl-2-pentanone	0.267	0.178	33.3#	69	0.00
34	S	TOLUENE-D8	0.927	0.916	1.2	99	0.00
35	M	Toluene	1.097	0.910	17.0	98	0.00
36	M	trans-1,3-Dichloropropene	0.231	0.196	15.2	91	0.00
37	M	1,1,2-Trichloroethane	0.214	0.169	21.0	85	0.00
38	M	1,3-Dichloropropane	0.362	0.295	18.5	89	0.00
39	M	Tetrachloroethene	0.293	0.243	17.1	101	0.00
40	T	2-Hexanone	0.205	0.122	40.5#	65	0.00
41	M	Dibromochloromethane	0.187	0.161	13.9	92	0.00
42	M	1,2-Dibromoethane	0.205	0.167	18.5	87	0.00
43	I	CHLOROBENZENE-D5	1.000	1.000	0.0	97	0.00
44	M	Chlorobenzene	1.578	1.409	10.7	96	0.00
45	M	1,1,1,2-Tetrachloroethane	0.503	0.460	8.5	94	0.00
46	M	Ethylbenzene	2.646	2.397	9.4	98	0.00
47	M	m- &/or p-Xylene	1.815	1.935	-6.6	98	0.00
48	M	o-Xylene	1.903	1.984	-4.3	98	0.00
49	M	Styrene	1.875	1.628	13.2	96	0.00
50	M	Bromoform	0.328	0.278	15.2	81	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091602CC.D
Acq On : 16 Sep 2009 9:21
Operator : CTANG
Sample : B909019-BS2
Misc : CC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 11:02:33 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	2.579	2.404	6.8	99	0.00
52	S	p-BROMOFLUOROBENZENE	0.757	0.833	-10.0	100	0.00
53	M	1,1,2,2-Tetrachloroethane	0.593	0.507	14.5	82	0.00
54	M	1,2,3-Trichloropropane	0.556	0.438	21.2	76	0.00
55	M	Bromobenzene	0.627	0.634	-1.1	96	0.00
56	M	n-Propylbenzene	2.766	2.633	4.8	102	0.00
57	M	2-Chlorotoluene	1.680	1.758	-4.6	99	0.00
58	M	4-Chlorotoluene	1.680	1.808	-7.6	102	0.03
59	M	1,3,5-Trimethylbenzene	1.977	2.138	-8.1	100	0.00
60	M	tert-Butylbenzene	1.740	1.837	-5.6	99	0.00
61	M	1,2,4-Trimethylbenzene	1.923	2.067	-7.5	101	0.00
62	M	sec-Butylbenzene	2.599	2.816	-8.3	101	0.00
63	M	p-Isopropyltoluene	2.133	2.303	-8.0	102	0.00
64	M	1,3-Dichlorobenzene	1.030	1.094	-6.2	103	0.00
65	M	1,4-Dichlorobenzene	1.204	1.295	-7.6	102	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	0.00
67	M	n-Butylbenzene	2.416	2.392	1.0	107	0.00
68	M	1,2-Dichlorobenzene	1.701	1.390	18.3	99	0.00
69	M	1,2-Dibromo-3-chloropropane	0.200	0.132	34.0#	69	0.00
70	M	1,2,4-Trichlorobenzene	1.085	1.084	0.1	106	0.00
71	M	Hexachlorobutadiene	0.650	0.595	8.5	102	0.00
72	M	Naphthalene	2.854	2.446	14.3	85	0.00
73	M	1,2,3-Trichlorobenzene	1.081	1.014	6.2	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report GCMS04

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090915.M
Title :
Last Update : Wed Sep 16 08:25:57 2009
Response Via : Initial Calibration

Calibration Files
3 =GCMS4 09091509IC3.D 5 =GCMS4 09091511IC5.D 4 =GCMS4 09091510IC4.D
2 =GCMS4_09091508IC2.D 1 =GCMS4_09091514IC1.D 6 =GCMS4_09091516IC6.D

		Compound	3	5	4	2	1	6	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	T	Dichlorodifluo...	0.133	0.136	0.131	0.128	0.109	0.123	0.127	7.76
3)	T	Chloromethane	0.267	0.286	0.271	0.270	0.358	0.282	0.289	11.99
4)	T	Vinyl chloride	0.087			0.127	0.136		0.117	22.46
5)	T	Bromomethane	0.112	0.074	0.089	0.140		0.052	0.093	36.47
6)	T	Chloroethane	0.134	0.102	0.113	0.135	0.124	0.073	0.113	20.84
7)	T	Trichlorofluor...	0.304	0.291	0.292	0.294	0.263	0.255	0.283	6.76
8)	T	Acrolein	0.011	0.011	0.012	0.011	0.016	0.011	0.012	15.91
9)	M	1,1-Dichloroet...	0.165	0.208	0.180	0.165	0.262	0.212	0.199	18.81
10)	T	Acetone	0.080	0.075	0.080	0.075	0.117	0.076	0.084	19.62
11)	T	Carbon disulfide	0.466	0.606	0.509	0.490	0.691	0.622	0.564	15.73
12)	M	Methylene chlo...	0.248	0.288	0.267	0.267	0.421	0.297	0.298	21.08
13)	T	Acrylonitrile	0.104	0.100	0.133	0.099	0.133	0.102	0.112	14.78
14)	M	trans-1,2-Dich...	0.201	0.259	0.221	0.208	0.315	0.266	0.245	17.65
15)	M	1,1-Dichloroet...	0.323	0.411	0.355	0.325	0.458	0.429	0.383	14.87
16)	T	2-Butanone	0.116	0.115	0.121	0.108	0.132	0.120	0.119	6.89
17)	M	cis-1,2-Dichlo...	0.239	0.292	0.262	0.245	0.332	0.301	0.279	13.00
18)	M	2,2-Dichloropr...	0.166	0.204	0.171	0.183	0.294	0.215	0.206	22.98
19)	M	Bromochloromet...	0.115	0.128	0.125	0.118	0.166	0.135	0.131	14.10
20)	M	Chloroform	0.329	0.410	0.363	0.334	0.462	0.429	0.388	14.00
21)	M	1,1,1-Trichlor...	0.221	0.276	0.231	0.233	0.344	0.286	0.265	17.65
22)	M	1,1-Dichloropr...	0.248	0.330	0.269	0.255	0.378	0.342	0.304	17.69
23)	M	Carbon tetrach...	0.143	0.172	0.142	0.156	0.236	0.181	0.172	20.41
24)	S	BENZENE-D6	1.071	1.308	1.148	1.021	0.996	1.453	1.166	15.41
25)	M	1,2-Dichloroet...	0.196	0.233	0.225	0.200	0.277	0.249	0.230	13.26
26)	M	Benzene	0.865	1.053	0.933	0.888	1.309	1.073	1.020	16.20
27)	M	Trichloroethene	0.234	0.292	0.251	0.237	0.348	0.301	0.277	16.05
28)	M	1,2-Dichloropr...	0.193	0.222	0.208	0.207	0.285	0.226	0.224	14.46
29)	M	Dibromomethane	0.126	0.130	0.131	0.133	0.179	0.135	0.139	14.21
30)	M	Bromodichlorom...	0.204	0.239	0.214	0.218	0.288	0.253	0.236	13.13
31)	T	2-Chloroethyl ...							0.000	-1.00
32)	M	cis-1,3-Dichlo...	0.239	0.242	0.232	0.257	0.333	0.254	0.260	14.37
33)	T	4-Methyl-2-pen...	0.258	0.253	0.270	0.236	0.327	0.257	0.267	11.76
34)	S	TOLUENE-D8	0.932	0.931	0.941	0.905	0.895	0.961	0.927	2.60
35)	M	Toluene	0.937	1.113	1.010	0.955	1.437	1.129	1.097	16.80
36)	M	trans-1,3-Dich...	0.218	0.226	0.224	0.223	0.264	0.232	0.231	7.21
37)	M	1,1,2-Trichlor...	0.200	0.203	0.203	0.203	0.271	0.202	0.214	13.05
38)	M	1,3-Dichloropr...	0.335	0.333	0.341	0.345	0.481	0.337	0.362	16.09
39)	M	Tetrachloroethene	0.241	0.308	0.264	0.246	0.384	0.316	0.293	18.49
40)	T	2-Hexanone	0.187	0.183	0.200	0.176	0.291	0.192	0.205	20.98
41)	M	Dibromochlorom...	0.176	0.177	0.179	0.188	0.220	0.181	0.187	9.03
42)	M	1,2-Dibromoethane	0.193	0.182	0.194	0.204	0.272	0.182	0.205	16.75
43)	I	CHLOROBENZENE-D5	----------ISTD----------							
44)	M	Chlorobenzene	1.421	1.408	1.409	1.547	2.401	1.281	1.578	26.10
45)	M	1,1,1,2-Tetrac...	0.475	0.466	0.471	0.516	0.660	0.431	0.503	16.19
46)	M	Ethylbenzene	2.369	2.363	2.323	2.538	4.175	2.109	2.646	28.79
47)	M	m- &/or p-Xylene	1.902	1.774	1.819	2.057		1.523	1.815	10.78
48)	M	o-Xylene	1.958	1.874	1.906	2.145		1.634	1.903	9.65
49)	M	Styrene	1.635	1.567	1.592	1.760	3.262	1.433	1.875	36.68
50)	M	Bromoform	0.330	0.291	0.326	0.350	0.397	0.271	0.328	13.58
51)	M	Isopropylbenzene	2.339	2.250	2.241	2.529	4.117	2.001	2.579	29.95
52)	S	p-BROMOFLUOROB...	0.806	0.668	0.729	0.843	0.901	0.595	0.757	15.14
53)	M	1,1,2,2-Tetrac...	0.596	0.489	0.558	0.616	0.863	0.435	0.593	25.10
54)	M	1,2,3-Trichlor...	0.555	0.461	0.514	0.585	0.799	0.420	0.556	24.05
55)	M	Bromobenzene	0.639	0.613	0.626	0.689		0.567	0.627	7.05
56)	M	n-Propylbenzene	2.487	2.532	2.433	2.542	4.327	2.274	2.766	27.87
57)	M	2-Chlorotoluene	1.718	1.672	1.638	1.856		1.517	1.680	7.36

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_090915.M
Title :

58)	M	4-Chlorotoluene	1.718	1.672	1.638	1.856		1.517	1.680	7.36
59)	M	1,3,5-Trimethy...	2.062	1.977	1.951	2.220		1.673	1.977	10.09
60)	M	tert-Butylbenzene	1.785	1.752	1.678	1.915		1.570	1.740	7.34
61)	M	1,2,4-Trimethy...	1.966	1.918	1.884	2.121		1.724	1.923	7.44
62)	M	sec-Butylbenzene	2.679	2.605	2.531	2.879		2.301	2.599	8.13
63)	M	p-Isopropyltol...	2.168	2.158	2.074	2.320		1.945	2.133	6.45
64)	M	1,3-Dichlorobe...	1.021	1.044	1.015	1.096		0.974	1.030	4.33
65)	M	1,4-Dichlorobe...	1.229	1.171	1.179	1.375		1.066	1.204	9.34
66)	I	1,2-DICHLOROBENZEN...	----------ISTD----------							
67)	M	n-Butylbenzene	2.211	2.630	2.279	2.318		2.643	2.416	8.47
68)	M	1,2-Dichlorobe...	1.399	1.538	1.448	1.503	2.727	1.591	1.701	29.80
69)	M	1,2-Dibromo-3-...	0.190	0.196	0.196	0.185	0.231	0.203	0.200	8.17
70)	M	1,2,4-Trichlor...	1.011	1.111	1.040	1.109		1.152	1.085	5.32
71)	M	Hexachlorobuta...	0.577	0.715	0.598	0.617		0.745	0.650	11.53
72)	M	Naphthalene	2.860	2.759	2.796	3.084		2.772	2.854	4.69
73)	M	1,2,3-Trichlor...	1.023	1.089	1.051	1.115		1.126	1.081	4.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091603BLK.D
Acq On : 16 Sep 2009 9:42
Operator : CTANG
Sample : B909019-BLK2
Misc : LIMS # 9040601
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 05 11:05:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

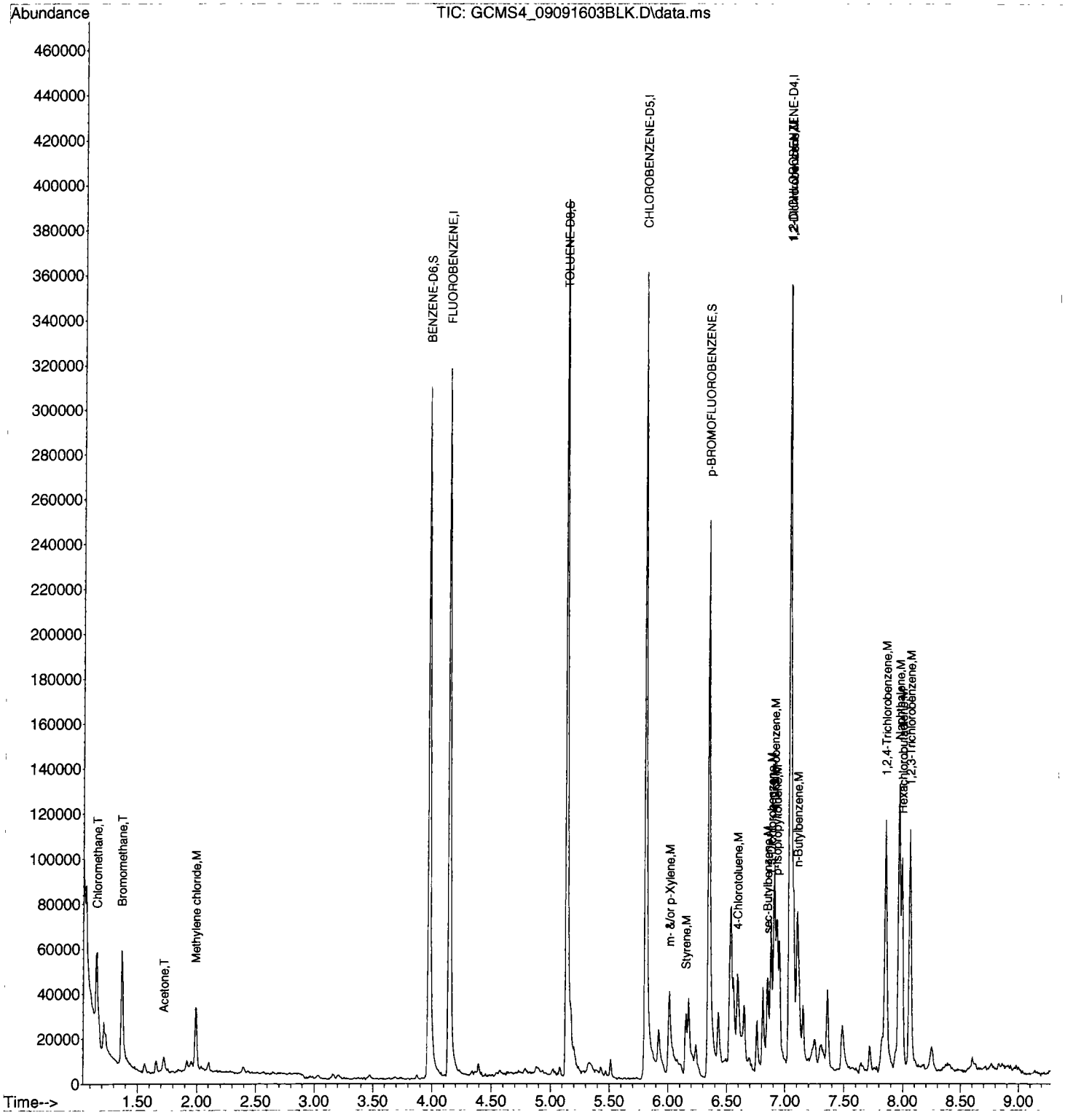
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) FLUOROBENZENE	4.149	96	2071236	50.00	ng		0.00
43) CHLOROBENZENE-D5	5.808	82	807928	50.00	ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.041	152	734767	50.00	ng		0.00
System Monitoring Compounds							
24) BENZENE-D6	3.978	84	2041366	42.26	ng		0.00
34) TOLUENE-D8	5.139	98	1833296	47.72	ng		0.00
52) p-BROMOFLUOROBENZENE	6.347	95	703222	57.48	ng		0.00
Target Compounds							Qvalue
3) Chloromethane	1.152	50	222927	18.63	ng		96
5) Bromomethane	1.371	94	240824	62.35	ng		95
10) Acetone	1.724	43	60559	17.43	ng	#	77
12) Methylene chloride	1.993	84	92504	7.49	ng		83
47) m- &/or p-Xylene	6.013	91	321407	10.96	ng		93
49) Styrene	6.155	104	227621	7.51	ng	#	82
58) 4-Chlorotoluene	6.590	91	285755m	10.53	ng		
62) sec-Butylbenzene	6.853	105	218886	5.21	ng		89
63) p-Isopropyltoluene	6.934	119	187513	5.44	ng	#	77
64) 1,3-Dichlorobenzene	6.882	146	160310	9.63	ng		98
65) 1,4-Dichlorobenzene	6.910	146	460858	23.68	ng		96
67) n-Butylbenzene	7.105	91	415122	11.69	ng		96
68) 1,2-Dichlorobenzene	7.051	146	236468	9.46	ng		98
70) 1,2,4-Trichlorobenzene	7.856	180	296775	18.62	ng		95
71) Hexachlorobutadiene	7.996	225	113075	11.83	ng		97
72) Naphthalene	7.970	128	933723	22.26	ng		97
73) 1,2,3-Trichlorobenzene	8.063	180	292256	18.40	ng		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091603BLK.D
Acq On : 16 Sep 2009 9:42
Operator : CTANG
Sample : B909019-BLK2
Misc : LIMS # 9040601
ALS Vial : 3 Sample Multiplier: 1

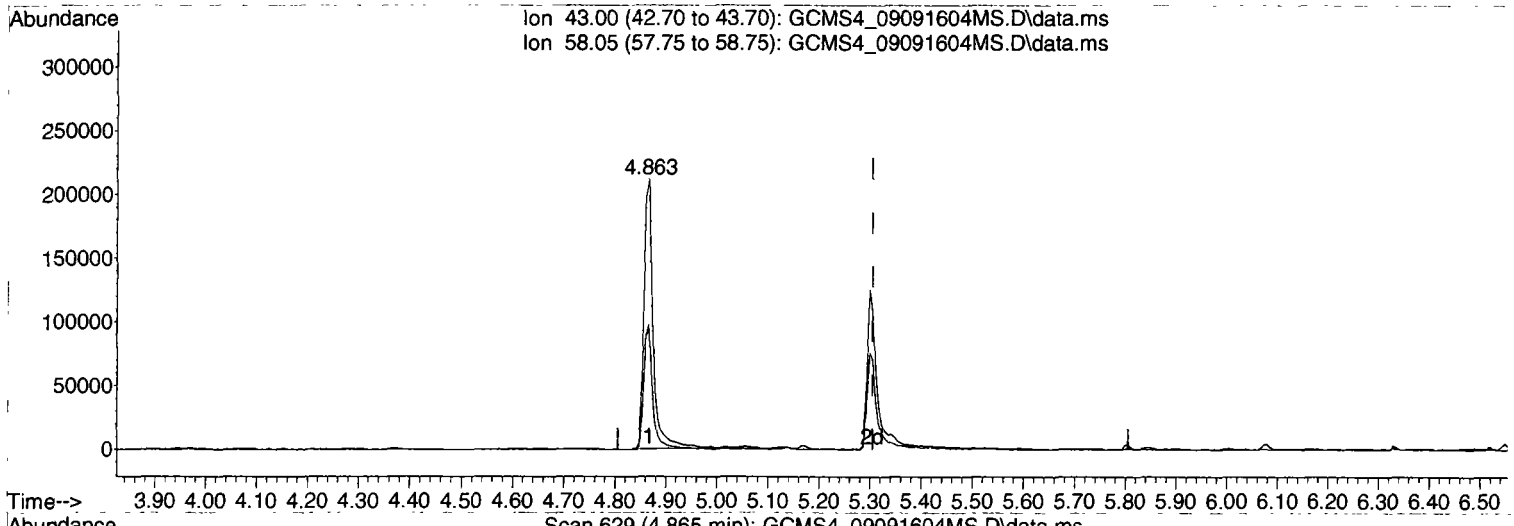
Quant Time: Nov 05 11:05:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

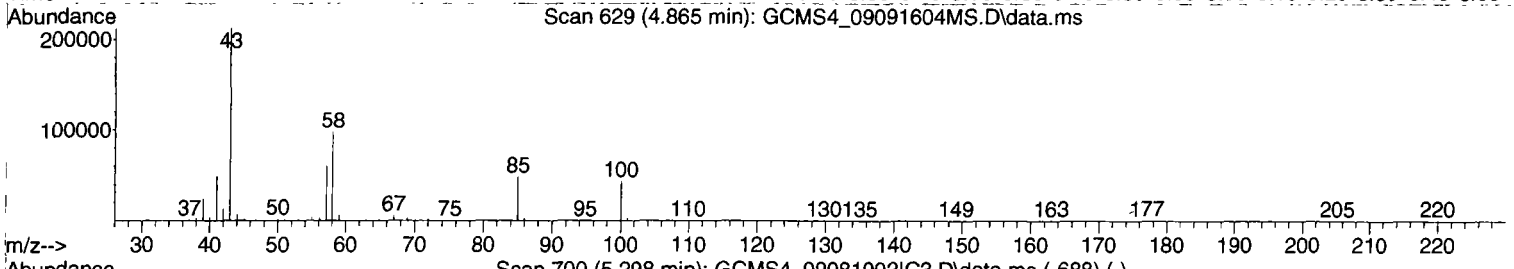


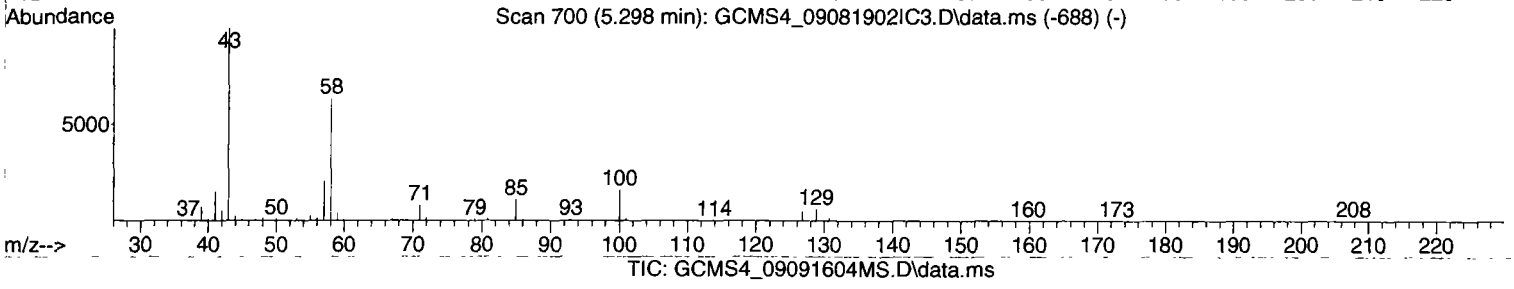
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T26-50-1.0-3.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 05 11:10:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







TIC: GCMS4_09091604MS.D\data.ms

(40) 2-Hexanone (T)

4.866min (-0.439) 326.39ng

response 2653415

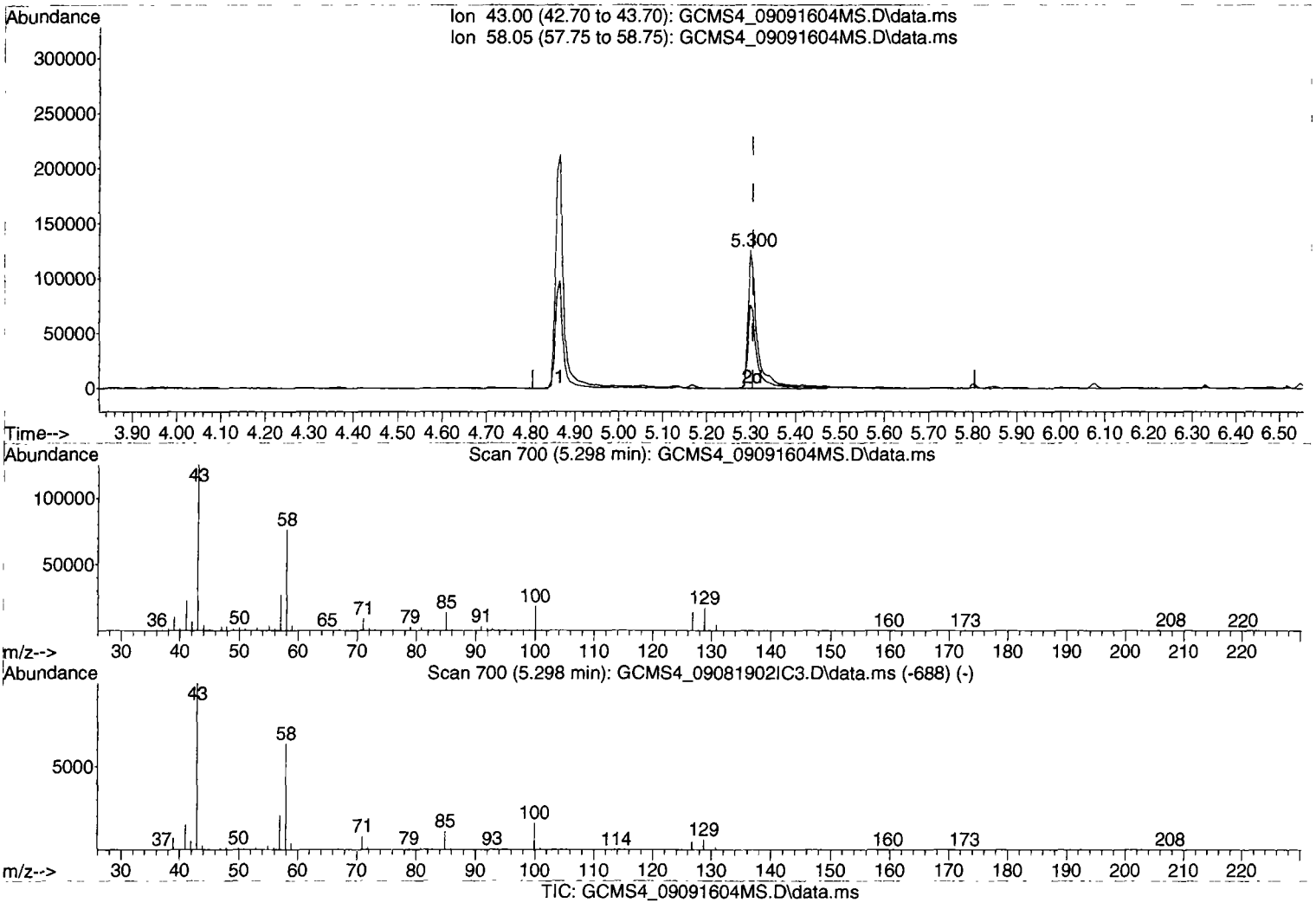
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	44.52
0.00	0.00	0.00
0.00	0.00	0.00

before P
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T26-50-1.0-3.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 05 11:10:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 231.36ng m

response 1880866

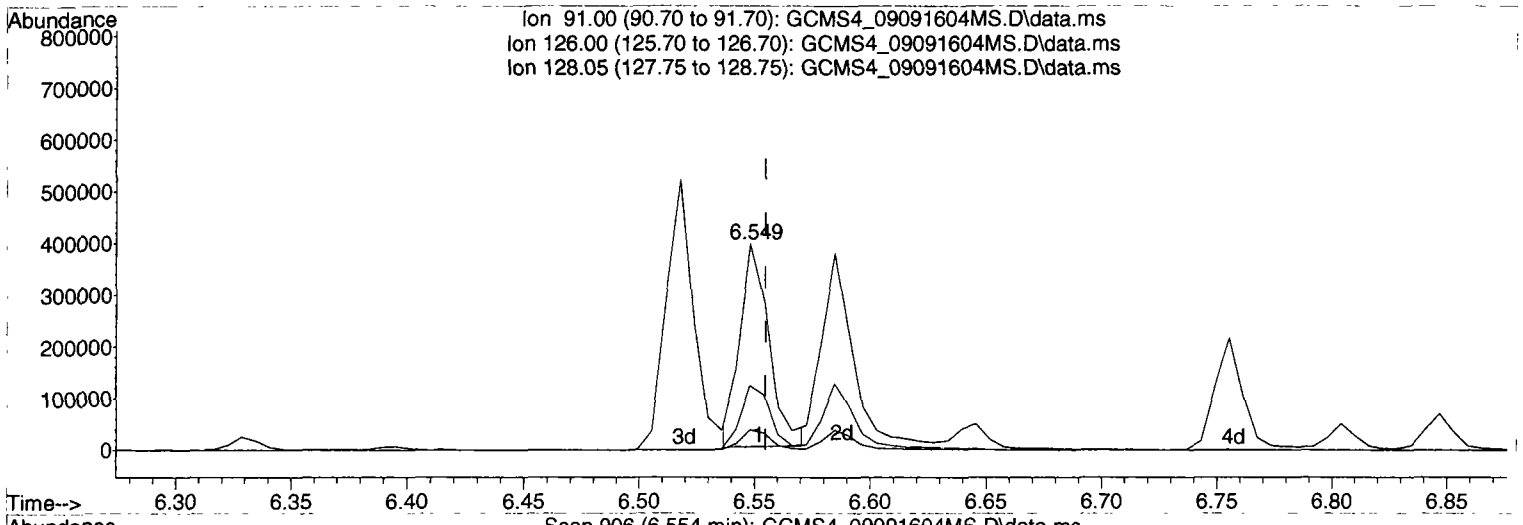
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	62.81#
0.00	0.00	0.00
0.00	0.00	0.00

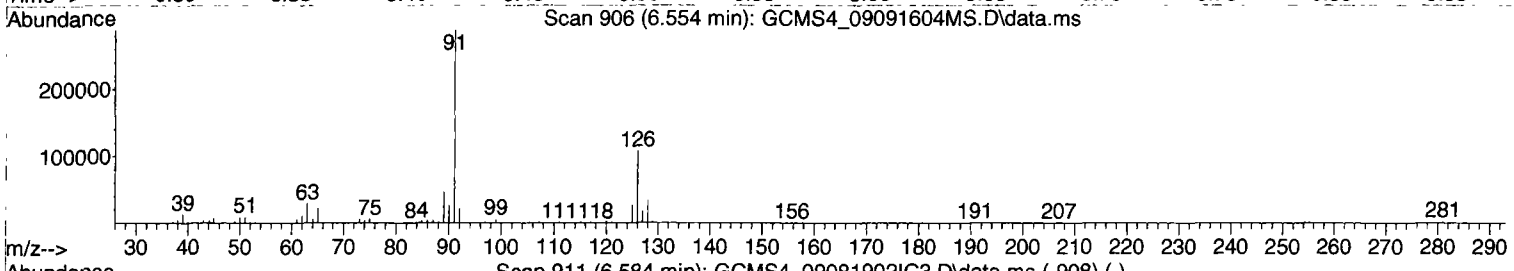
after
CMY 11/18/09

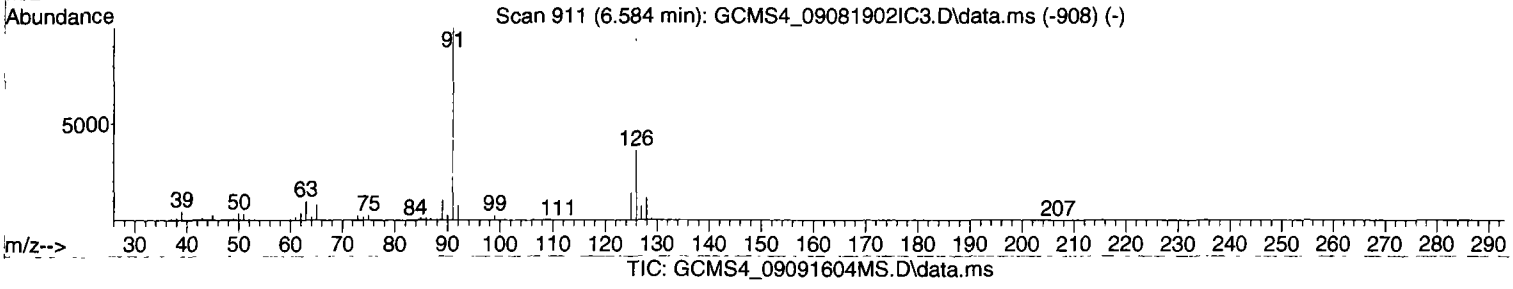
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T26-50-1.0-3.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 09:12:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







TIC: GCMS4_09091604MS.D\data.ms

(58) 4-Chlorotoluene (M)

6.551min (-0.003) 127.83ng

response 3478836

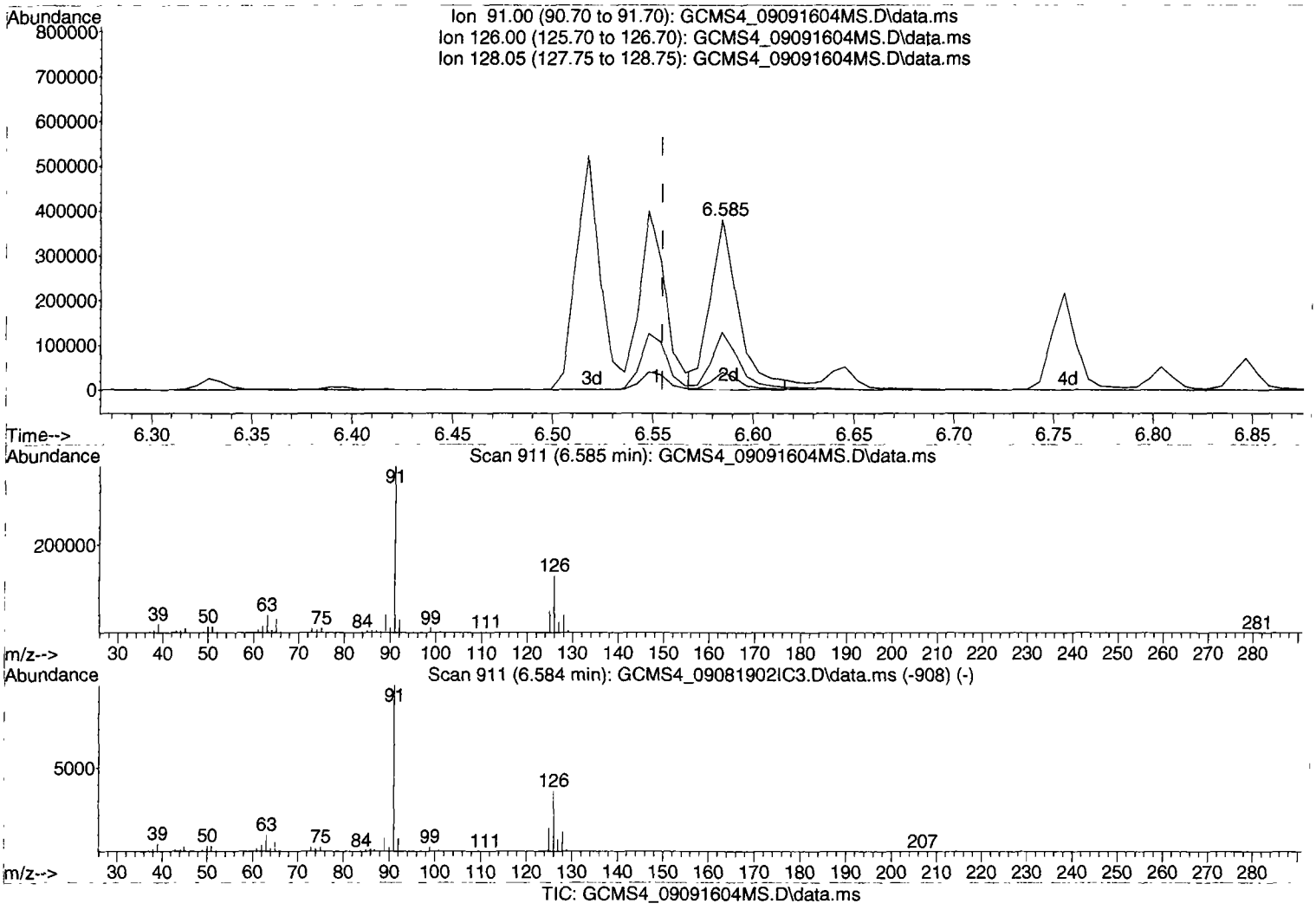
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	33.07
128.05	10.00	10.40
0.00	0.00	0.00

before PC
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T26-50-1.0-3.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 09:12:04 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.585min (+0.030) 139.90ng m

response 3807312

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	30.22
128.05	10.00	9.50
0.00	0.00	0.00

after
cmy 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T18-50-1.0-3.0, 4.0736 G
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 05 11:11:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	1985529	50.00	ng		0.00
43) CHLOROBENZENE-D5	5.805	82	809857	50.00	ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	715238	50.00	ng		0.00
System Monitoring Compounds							
24) BENZENE-D6	3.977	84	1992311	43.02	ng		0.00
34) TOLUENE-D8	5.137	98	1798507	48.83	ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	696642	56.80	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.083	85	605801	120.26	ng		100
3) Chloromethane	1.151	50	1536222	133.89	ng		96
4) Vinyl chloride	1.214	62	587894	126.99	ng		100
5) Bromomethane	1.366	94	893368	241.28	ng		99
6) Chloroethane	1.420	64	774465	171.92	ng		95
7) Trichlorofluoromethane	1.658	101	1522172	135.39	ng		98
8) Acrolein	1.657	56	499229	1042.28	ng		95
9) 1,1-Dichloroethene	1.911	96	516137	65.42	ng		94
10) Acetone	1.715	43	2137424	641.77	ng		88
11) Carbon disulfide	2.098	76	1571407	70.17	ng		98
12) Methylene chloride	1.991	84	1242099	104.91	ng		81
13) Acrylonitrile	1.949	53	2646744	596.45	ng		98
14) trans-1,2-Dichloroethene	2.394	96	764877	78.58	ng		90
15) 1,1-Dichloroethane	2.564	63	1327462	87.21	ng	#	96
16) 2-Butanone	2.936	43	2905429	616.44	ng	#	71
17) cis-1,2-Dichloroethene	3.029	96	1081298	97.74	ng		87
18) 2,2-Dichloropropane	3.258	77	631778	77.38	ng		99
19) Bromochloromethane	3.157	128	640356	122.95	ng		99
20) Chloroform	3.207	83	1549098	100.55	ng		94
21) 1,1,1-Trichloroethane	3.739	97	790870	75.11	ng		94
22) 1,1-Dichloropropene	3.873	75	819277	67.97	ng		98
23) Carbon tetrachloride	3.969	117	480372	70.44	ng		91
25) 1,2-Dichloroethane	3.683	62	1103435	120.84	ng		94
26) Benzene	4.003	78	3675156	90.74	ng		98
27) Trichloroethene	4.393	130	2118929	192.59	ng		93
28) 1,2-Dichloropropane	4.365	63	1023218	115.20	ng		96
29) Dibromomethane	4.338	174	744830	135.08	ng		96
30) Bromodichloromethane	4.416	83	1138912	121.59	ng		94
32) cis-1,3-Dichloropropene	4.784	75	1337834	129.76	ng		98
33) 4-Methyl-2-pentanone	4.866	43	2652376	250.41	ng	#	93
35) Toluene	5.171	91	4053197	93.05	ng		98
36) trans-1,3-Dichloropropene	5.014	75	1224849	133.40	ng		96
37) 1,1,2-Trichloroethane	5.079	97	1129113	133.04	ng		99
38) 1,3-Dichloropropane	5.199	76	2028449	141.07	ng		93
39) Tetrachloroethene	5.513	166	921522	79.16	ng		98
40) 2-Hexanone	5.298	43	1880866m	231.36	ng		
41) Dibromochloromethane	5.312	129	1012884	136.44	ng		98
42) 1,2-Dibromoethane	5.425	107	1162819	143.13	ng		94
44) Chlorobenzene	5.820	112	3040591	118.97	ng		95
45) 1,1,1,2-Tetrachloroethane	5.787	131	1070750	131.39	ng		91
46) Ethylbenzene	5.916	91	4380778	102.22	ng		97
47) m- &/or p-Xylene	6.004	91	7353654	250.11	ng		99
48) o-Xylene	6.173	91	4093186	132.77	ng		96
49) Styrene	6.145	104	3639202	119.85	ng	#	80
50) Bromoform	6.034	173	747512	140.90	ng		87

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T18-50-1.0-3.0, 4.0736 G
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 05 11:11:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

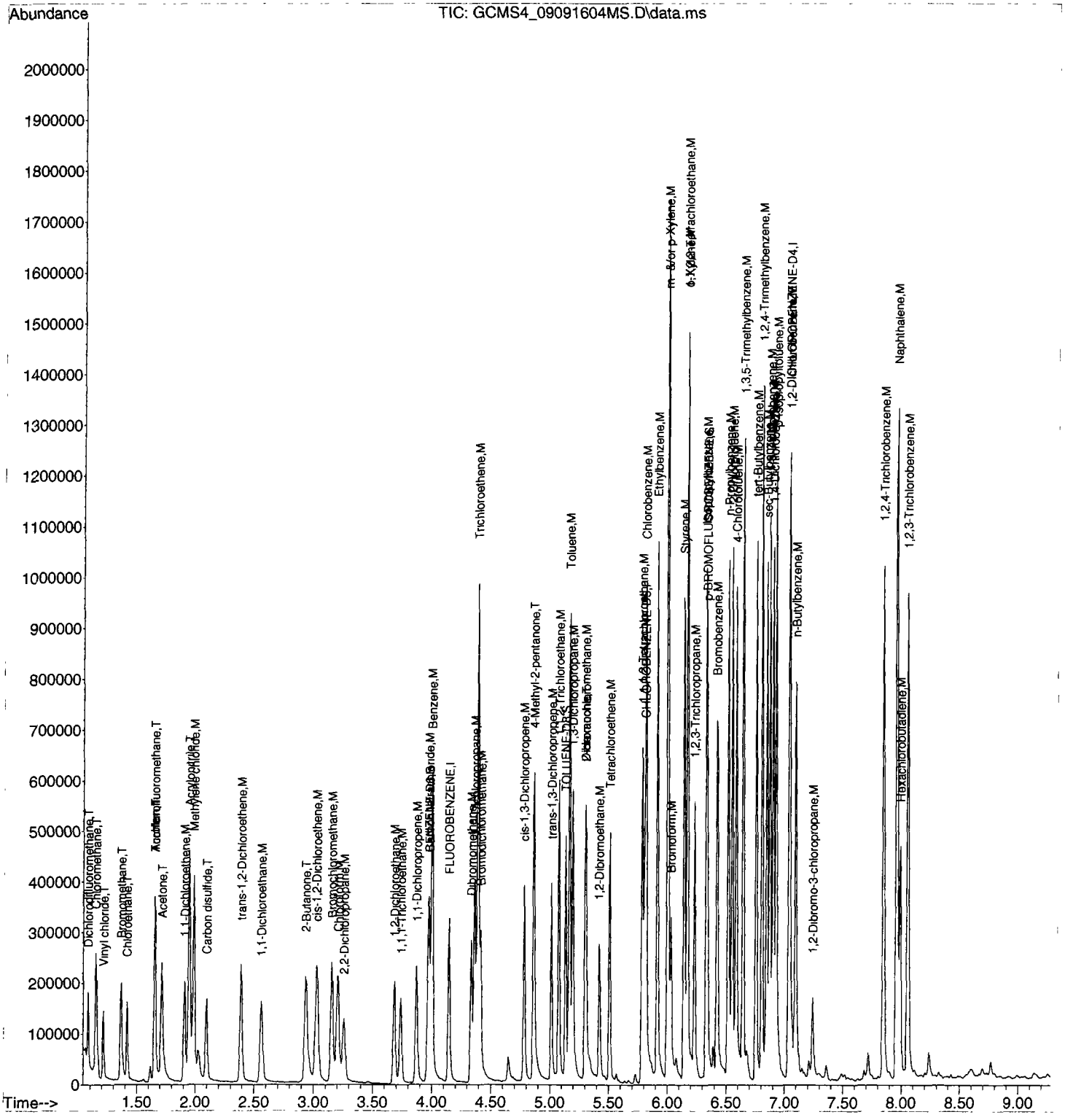
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.333	105	4071770	97.46 ng	96
53) 1,1,2,2-Tetrachloroethane	6.172	83	510688	53.18 ng	91
54) 1,2,3-Trichloropropane	6.233	75	1332136	148.00 ng	95
55) Bromobenzene	6.427	156	1555308	153.21 ng	90
56) n-Propylbenzene	6.519	91	4158308	92.82 ng	94
57) 2-Chlorotoluene	6.551	91	3478836	127.83 ng	96
58) 4-Chlorotoluene	6.585	91	3807312m	139.90 ng	
59) 1,3,5-Trimethylbenzene	6.647	105	3995467	124.80 ng	90
60) tert-Butylbenzene	6.758	119	2948135	104.60 ng	89
61) 1,2,4-Trimethylbenzene	6.807	105	4198984	134.84 ng	92
62) sec-Butylbenzene	6.849	105	4210350	100.01 ng	98
63) p-Isopropyltoluene	6.929	119	3740397	108.27 ng	95
64) 1,3-Dichlorobenzene	6.874	146	2485622	148.98 ng	98
65) 1,4-Dichlorobenzene	6.903	146	3228177	165.51 ng	94
67) n-Butylbenzene	7.097	91	3069196	88.81 ng	96
68) 1,2-Dichlorobenzene	7.047	146	3053081	125.48 ng	93
69) 1,2-Dibromo-3-chloropr...	7.246	157	320416	111.78 ng	88
70) 1,2,4-Trichlorobenzene	7.849	180	2220372	143.12 ng	96
71) Hexachlorobutadiene	7.994	225	618114	66.44 ng	95
72) Naphthalene	7.963	128	7665455	187.74 ng	98
73) 1,2,3-Trichlorobenzene	8.058	180	2209346	142.93 ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091604MS.D
Acq On : 16 Sep 2009 10:02
Operator : CTANG
Sample : B909019-MS1
Misc : T18-50-1.0-3.0, 4.0736 G
ALS Vial : 4 Sample Multiplier: 1

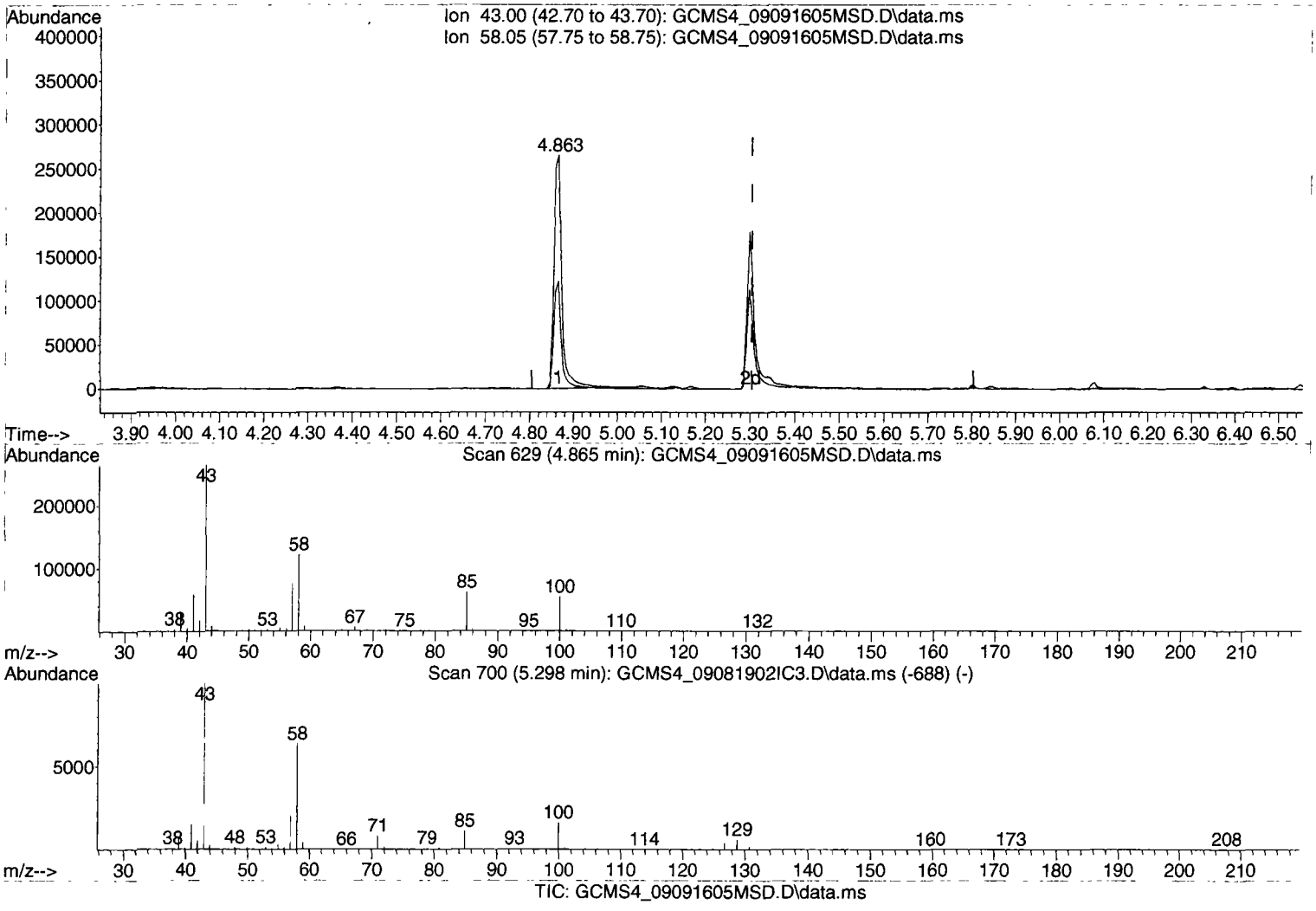
Quant Time: Nov 05 11:11:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : ~~T26-50-1.0-3.0~~ T18-50-1.0-3.0, 4.1325 G CMY 11/23/09
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 09:32:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.865min (-0.439) 378.20ng

response 3190707

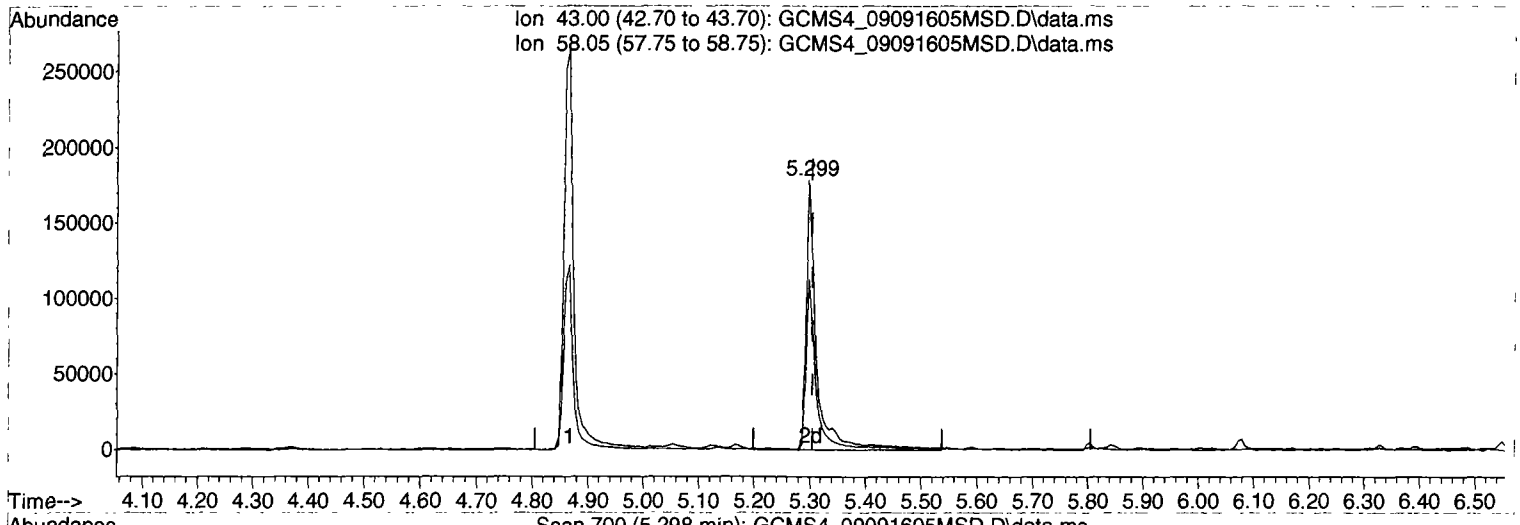
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	44.84
0.00	0.00	0.00
0.00	0.00	0.00

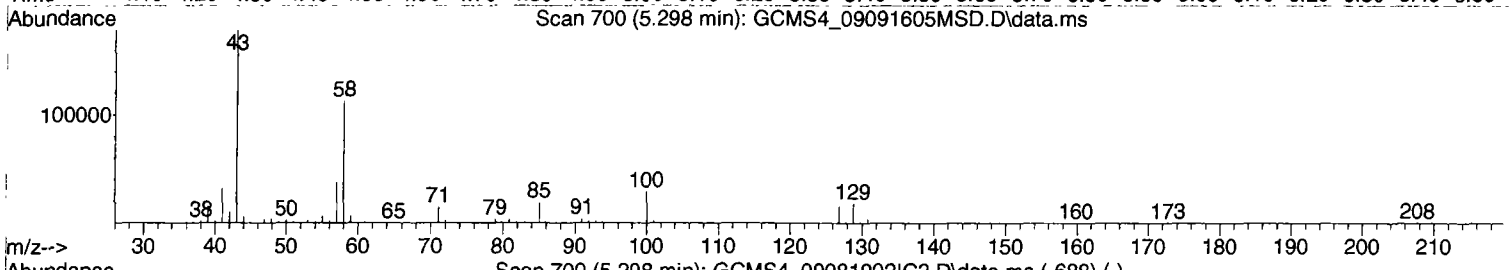
hexane P
CMY 11/18/09

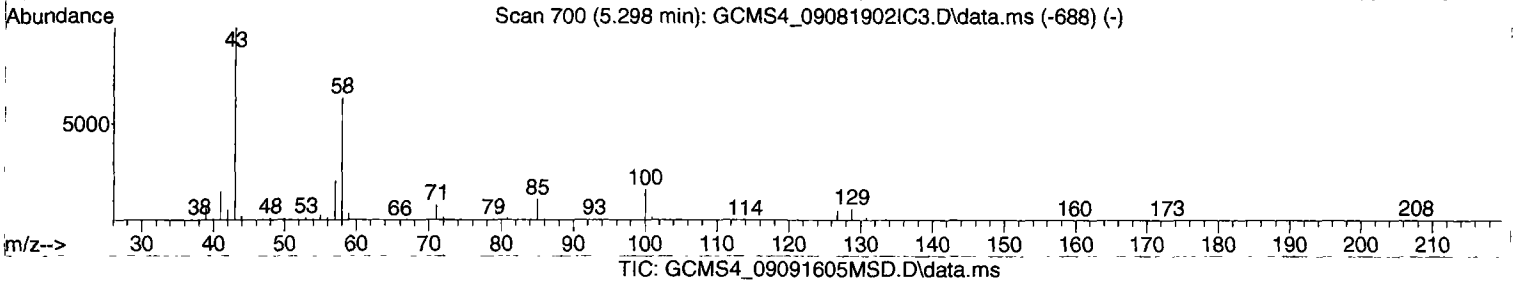
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : T18-50-1.0-3.0, 4.1325 G
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 05 11:12:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







(40) 2-Hexanone (T)

5.298min (-0.006) 283.24ng m

response 2389600

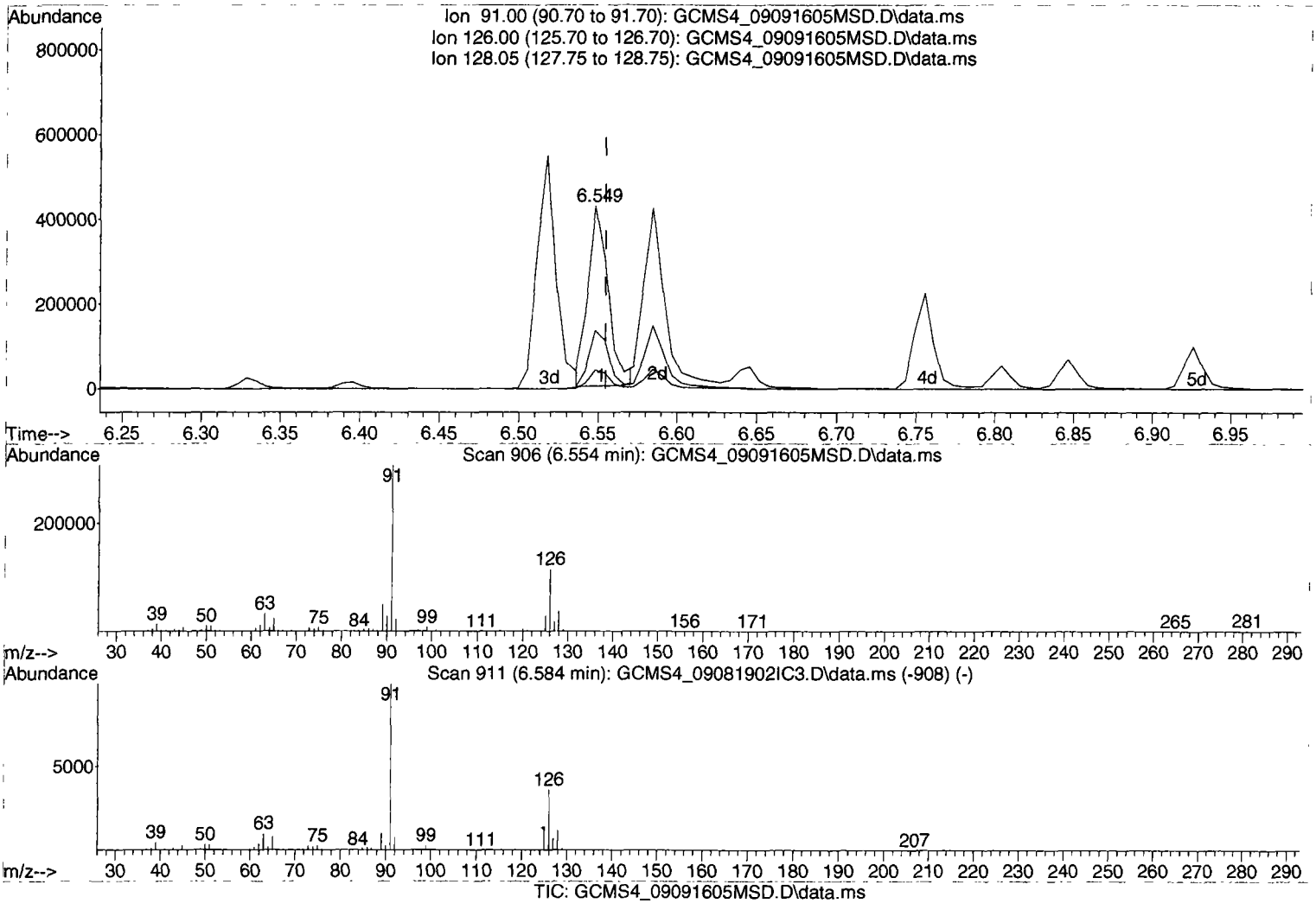
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	59.87#
0.00	0.00	0.00
0.00	0.00	0.00

after
EMY 11/23/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : ~~T26-50-1.0-3.0~~ 7/8-50-1.0-3.0, 4.13-5G cmg 11/23/09
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 09:32:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.551min (-0.003) 133 63ng

response 3784700

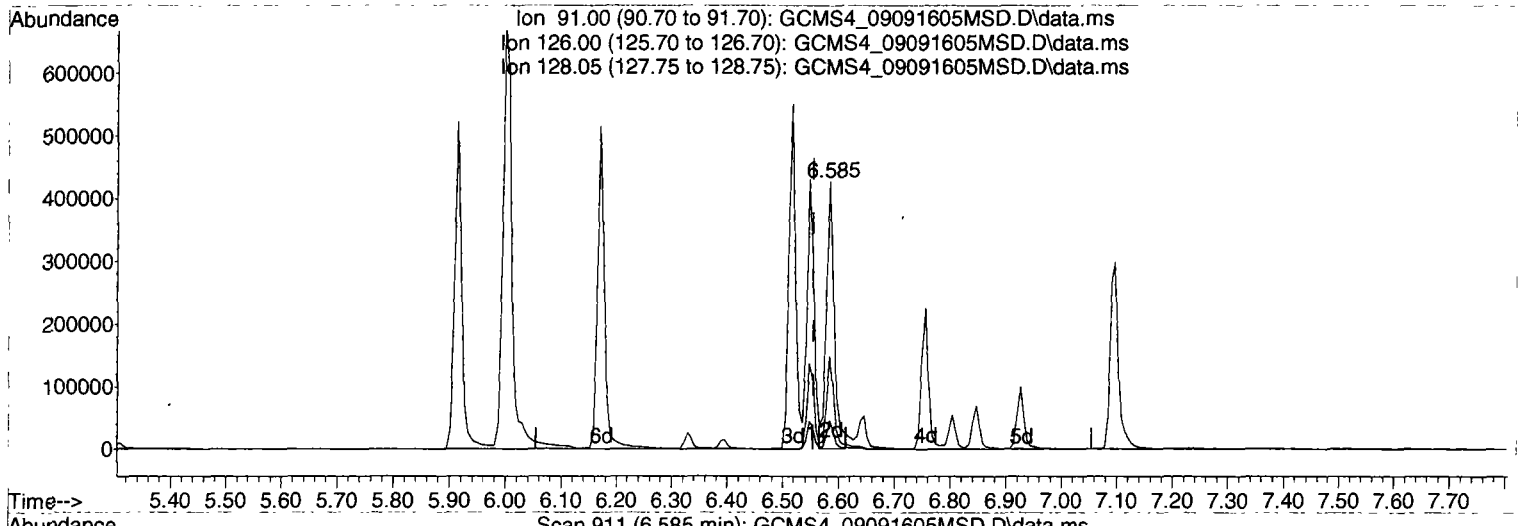
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	33.09
128.05	10.00	10.80
0.00	0 00	0.00

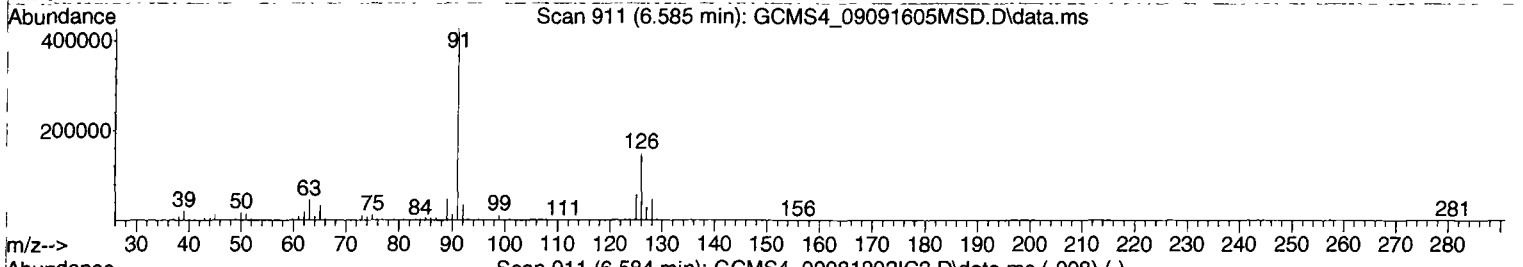
before PC
cmg 11/18/09

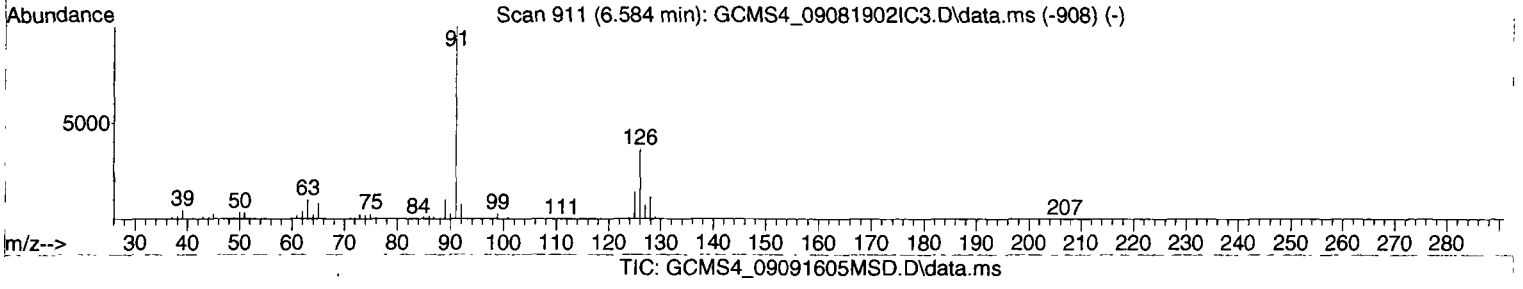
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : T18-50-1.0-3.0, 4.1325 G
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 05 11:12:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







TIC: GCMS4_09091605MSD.D\data.ms

(58) 4-Chlorotoluene (M)

6.585min (+0.030) 144.55ng m

response 4093952

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	30.59
128.05	10.00	9.98
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : T18-50-1.0-3.0, 4.1325 G
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 05 11:12:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.147	96	2060555	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.805	82	842835	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	692291	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.976	84	2064280	42.95 ng		0.00
34) TOLUENE-D8	5.137	98	1883385	49.27 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	732574	57.39 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	475847	91.03 ng		99
3) Chloromethane	1.150	50	1451703	121.92 ng		95
4) Vinyl chloride	1.214	62	456063	94.93 ng		98
5) Bromomethane	1.365	94	872195	226.99 ng		100
6) Chloroethane	1.419	64	683303	146.16 ng		98
7) Trichlorofluoromethane	1.657	101	1227299	105.19 ng		99
8) Acrolein	1.657	56	625378	1258.11 ng		96
9) 1,1-Dichloroethene	1.911	96	490121	59.86 ng		92
10) Acetone	1.715	43	2617427	757.28 ng		88
11) Carbon disulfide	2.098	76	1550382	66.71 ng		98
12) Methylene chloride	1.991	84	1360106	110.69 ng		80
13) Acrylonitrile	1.949	53	3100994	673.38 ng		98
14) trans-1,2-Dichloroethene	2.393	96	737622	73.02 ng		90
15) 1,1-Dichloroethane	2.564	63	1317344	83.39 ng	#	96
16) 2-Butanone	2.935	43	3602484	736.50 ng	#	69
17) cis-1,2-Dichloroethene	3.029	96	1129410	98.37 ng		87
18) 2,2-Dichloropropane	3.259	77	596202	70.36 ng		98
19) Bromochloromethane	3.156	128	714477	132.19 ng		99
20) Chloroform	3.207	83	1631564	102.05 ng		94
21) 1,1,1-Trichloroethane	3.739	97	713702	65.31 ng		94
22) 1,1-Dichloropropene	3.873	75	732613	58.56 ng		98
23) Carbon tetrachloride	3.968	117	427383	60.39 ng		89
25) 1,2-Dichloroethane	3.682	62	1217362	128.46 ng		94
26) Benzene	4.003	78	3758067	89.41 ng		97
27) Trichloroethene	4.392	130	2811769	246.25 ng		95
28) 1,2-Dichloropropane	4.365	63	1098554	119.17 ng		94
29) Dibromomethane	4.338	174	823622	143.94 ng		98
30) Bromodichloromethane	4.416	83	1248204	128.40 ng		94
32) cis-1,3-Dichloropropene	4.783	75	1487931	139.06 ng		98
33) 4-Methyl-2-pentanone	4.865	43	3189464	290.15 ng	#	94
35) Toluene	5.171	91	4252179	94.07 ng		98
36) trans-1,3-Dichloropropene	5.013	75	1411492	148.13 ng		96
37) 1,1,2-Trichloroethane	5.079	97	1258304	142.87 ng		99
38) 1,3-Dichloropropane	5.198	76	2255165	151.13 ng		93
39) Tetrachloroethene	5.513	166	882283	73.03 ng		95
40) 2-Hexanone	5.298	43	2389600m	283.24 ng		
41) Dibromochloromethane	5.312	129	1127027	146.29 ng		97
42) 1,2-Dibromoethane	5.425	107	1295525	153.66 ng		94
44) Chlorobenzene	5.820	112	3272700	123.04 ng		96
45) 1,1,1,2-Tetrachloroethane	5.787	131	1169612	137.91 ng		93
46) Ethylbenzene	5.916	91	4624011	103.67 ng		97
47) m- &/or p-Xylene	6.004	91	7875092	257.37 ng		100
48) o-Xylene	6.173	91	4542065	141.57 ng		97
49) Styrene	6.145	104	4079025	129.07 ng	#	79
50) Bromoform	6.034	173	835285	151.28 ng		90

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : T18-50-1.0-3.0, 4.1325 G
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 05 11:12:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

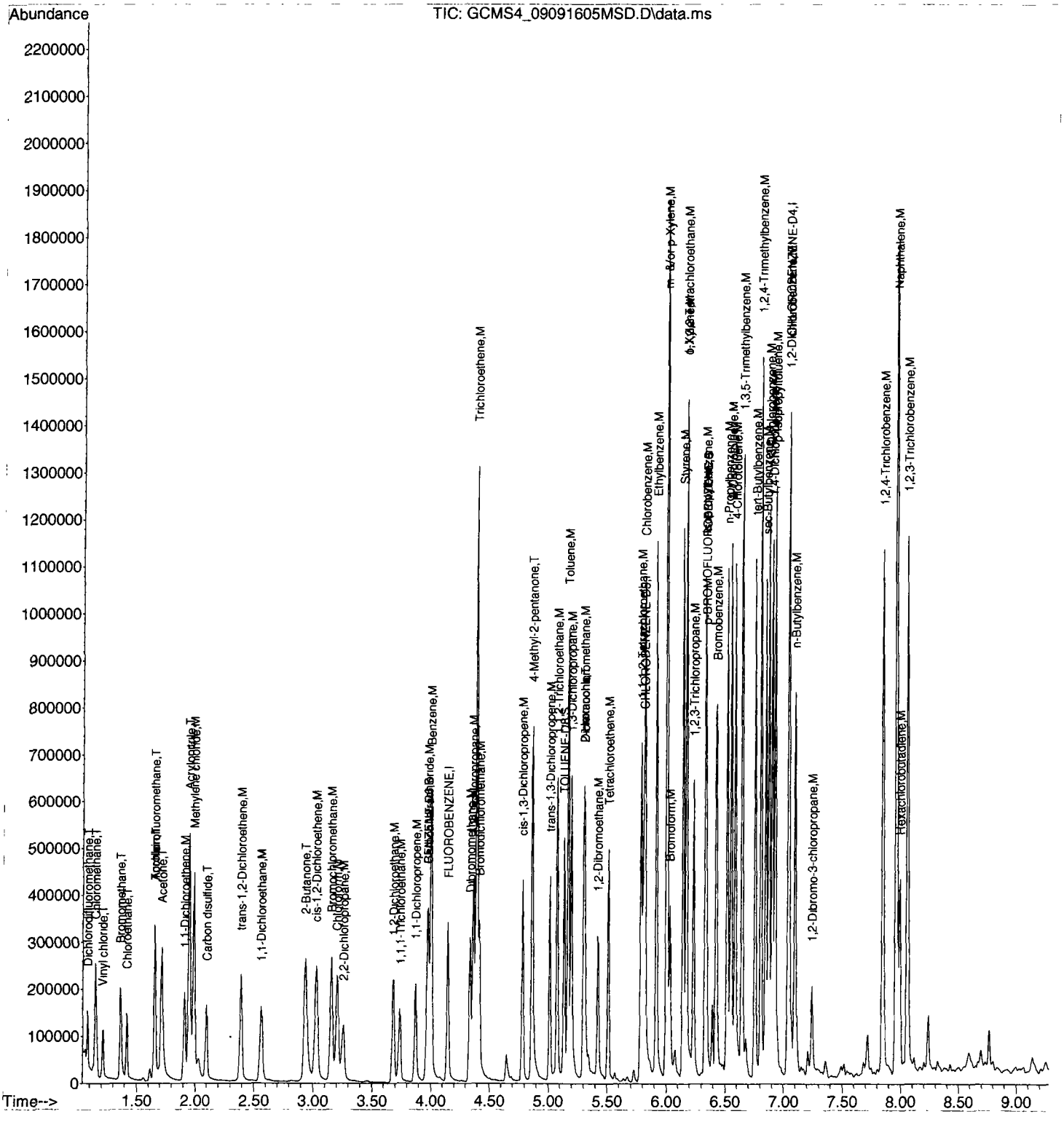
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.332	105	3998391	91.96 ng	95
53) 1,1,2,2-Tetrachloroethane	6.172	83	89006	8.91 ng	79
54) 1,2,3-Trichloropropane	6.233	75	1542795	164.70 ng	94
55) Bromobenzene	6.427	156	1742530	164.94 ng	93
56) n-Propylbenzene	6.519	91	4441118	95.25 ng	95
57) 2-Chlorotoluene	6.551	91	3784700	133.63 ng	96
58) 4-Chlorotoluene	6.585	91	4093952m	144.55 ng	
59) 1,3,5-Trimethylbenzene	6.646	105	4330293	129.97 ng	91
60) tert-Butylbenzene	6.757	119	3017583	102.87 ng	90
61) 1,2,4-Trimethylbenzene	6.807	105	4651772	143.53 ng	94
62) sec-Butylbenzene	6.849	105	4243224	96.85 ng	97
63) p-Isopropyltoluene	6.928	119	3915384	108.90 ng	95
64) 1,3-Dichlorobenzene	6.874	146	2769396	159.49 ng	98
65) 1,4-Dichlorobenzene	6.903	146	3603347	177.52 ng	94
67) n-Butylbenzene	7.097	91	3129911	93.56 ng	97
68) 1,2-Dichlorobenzene	7.047	146	3358802	142.62 ng	94
69) 1,2-Dibromo-3-chloropr...	7.246	157	385155	138.82 ng	93
70) 1,2,4-Trichlorobenzene	7.848	180	2498558	166.39 ng	95
71) Hexachlorobutadiene	7.994	225	547968	60.85 ng	96
72) Naphthalene	7.963	128	10522622	266.25 ng	98
73) 1,2,3-Trichlorobenzene	8.058	180	2529979	169.10 ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091605MSD.D
Acq On : 16 Sep 2009 10:23
Operator : CTANG
Sample : B909019-MSD1
Misc : T18-50-1.0-3.0, 4.1325 G
ALS Vial : 5 Sample Multiplier: 1

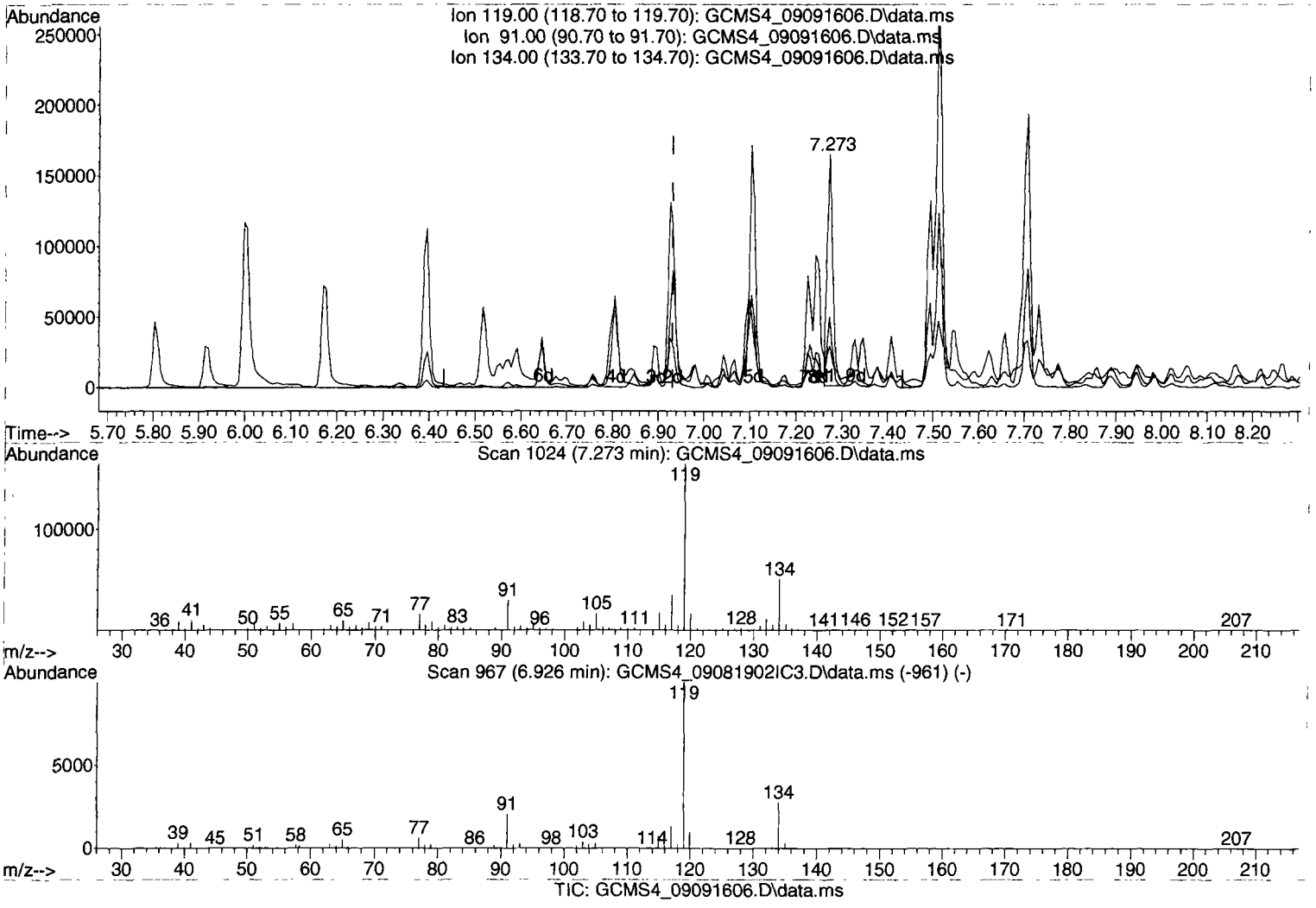
Quant Time: Nov 05 11:12:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091606.D
Acq On : 16 Sep 2009 10:43
Operator : CTANG
Sample : 0909005-06
Misc : 0909005-06
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 09:52:53 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(63) p-Isopropyltoluene (M)

7.275min (+0.344) 42.15ng

response 1429938

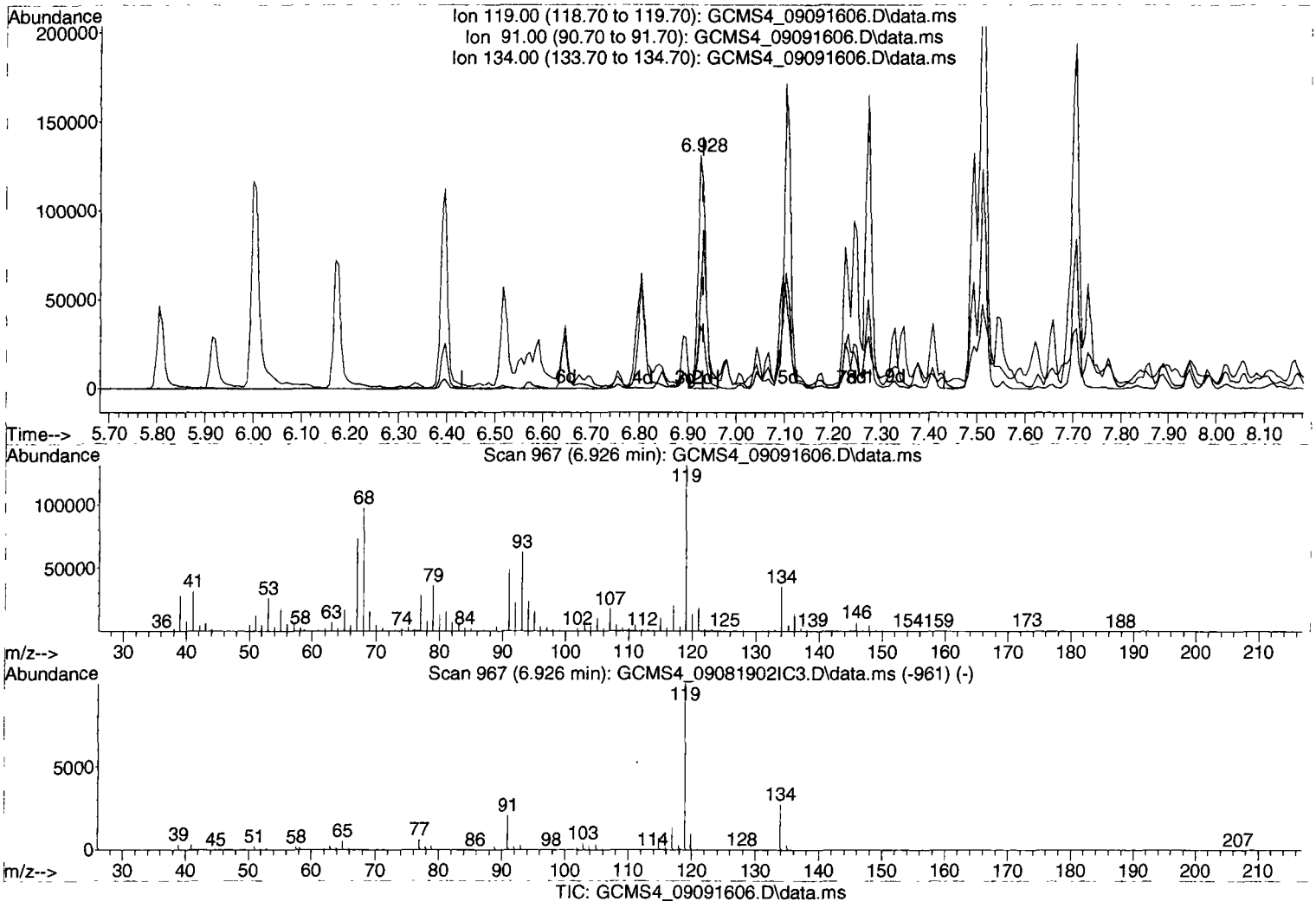
Ion	Exp%	Act%
119.00	100	100
91.00	25.00	19.65
134.00	29.00	29.17
0.00	0.00	0.00

before P
CMA 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091606.D
Acq On : 16 Sep 2009 10:43
Operator : CTANG
Sample : 0909005-06
Misc : 0909005-06, T20-125-1.0-3.0, 5.5836 G
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 13:55:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(63) p-Isopropyltoluene (M)

6.926min (-0.005) 42.72ng m

response 1449445

Ion	Exp%	Act%
119.00	100	100
91.00	25.00	19.38
134.00	29.00	28.78
0.00	0.00	0.00

aftiv
emy 11/23/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091606.D
Acq On : 16 Sep 2009 10:43
Operator : CTANG
Sample : 0909005-06
Misc : 0909005-06, T20-125-1.0-3.0, 5.5836 G
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 13:55:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.149	96	2136150	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.807	82	795346	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	698955	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.978	84	2115587	42.46 ng		0.00
34) TOLUENE-D8	5.139	98	1869252	47.17 ng		0.00
52) p-BROMOFLUOROBENZENE	6.346	95	819915	68.07 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.152	50	178715	14.48 ng		96
5) Bromomethane	1.370	94	188478	47.31 ng		99
8) Acrolein	1.659	56	13076m	25.37 ng		
10) Acetone	1.721	43	163391	45.60 ng		81
11) Carbon disulfide	2.101	76	639157	26.53 ng		98
47) m- &/or p-Xylene	6.005	91	1396440	48.36 ng		97
48) o-Xylene	6.175	91	804504	26.57 ng		100 ✓
49) Styrene	6.149	104	385960	12.94 ng	#	69
56) n-Propylbenzene	6.517	91	542592m	12.33 ng		
59) 1,3,5-Trimethylbenzene	6.647	105	2123777	67.55 ng		89 ✓
61) 1,2,4-Trimethylbenzene	6.807	105	4176364	136.56 ng		95 ✓
62) sec-Butylbenzene	6.847	105	599035m	14.49 ng		
63) p-Isopropyltoluene	6.926	119	1449445m	42.72 ng ✓		
64) 1,3-Dichlorobenzene	6.876	146	166537	10.16 ng		96
65) 1,4-Dichlorobenzene	6.905	146	441993	23.07 ng		94
67) n-Butylbenzene	7.100	91	831516	24.62 ng	#	44
68) 1,2-Dichlorobenzene	7.049	146	254895	10.72 ng		92
70) 1,2,4-Trichlorobenzene	7.850	180	273006	18.01 ng		98
72) Naphthalene	7.961	128	22017036	551.78 ng		97 ✓
73) 1,2,3-Trichlorobenzene	8.059	180	269567	17.85 ng		92

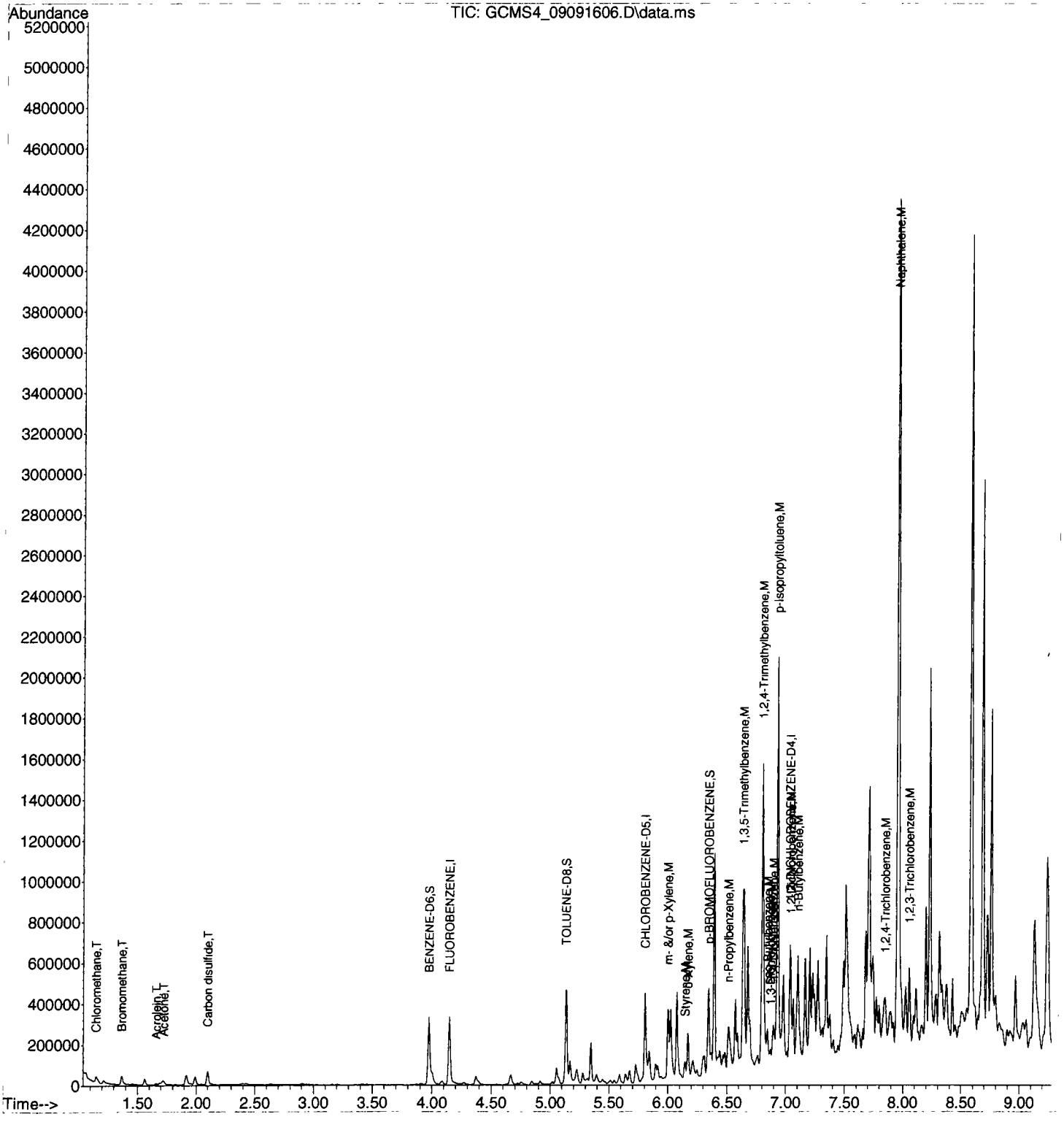
(#) = qualifier out of range (m) = manual integration (+) = signals summed

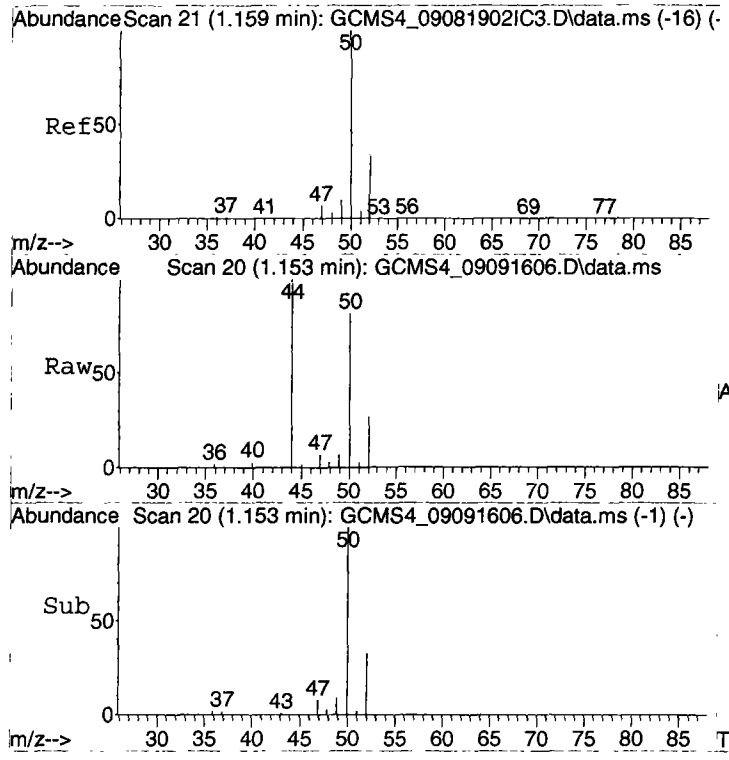
✓ Concentrations of these compounds above the report limits
CAY 11/23/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091606.D
Acq On : 16 Sep 2009 10:43
Operator : CTANG
Sample : 0909005-06
Misc : 0909005-06, T20-125-1.0-3.0, 5.5836 G
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 13:55:50 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

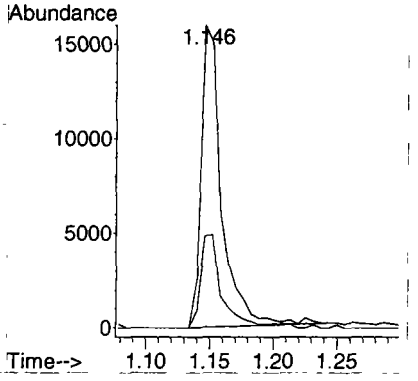


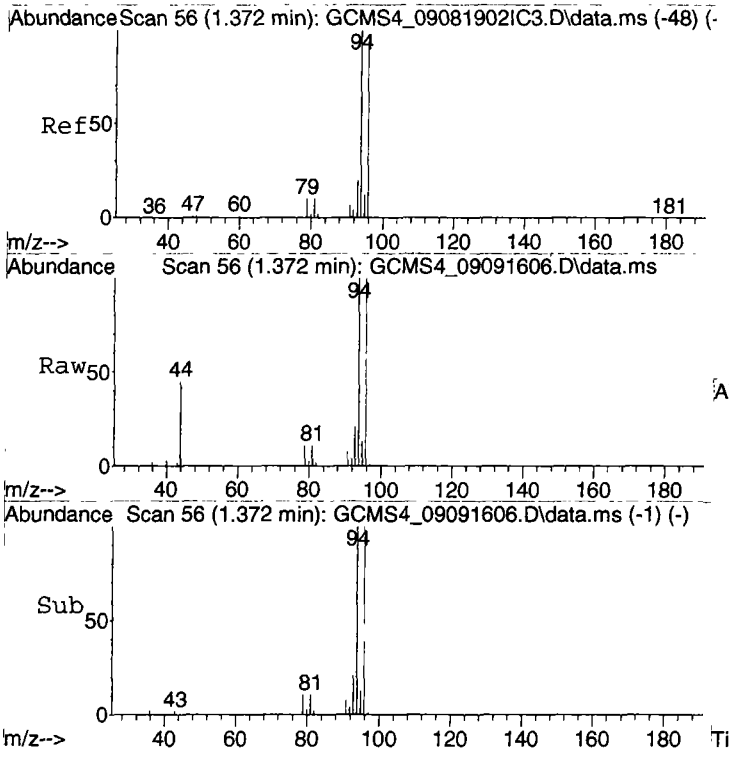


#3
Chloromethane
Concen: 14.48 ng
RT: 1.152 min Scan# 20
Delta R.T. -0.002 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 50 Resp: 178715

Ion	Ratio	Lower	Upper
50	100		
52	32.8	22.8	47.4

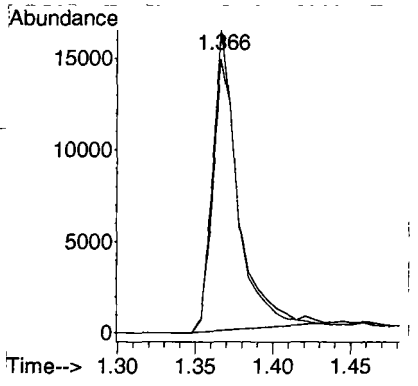


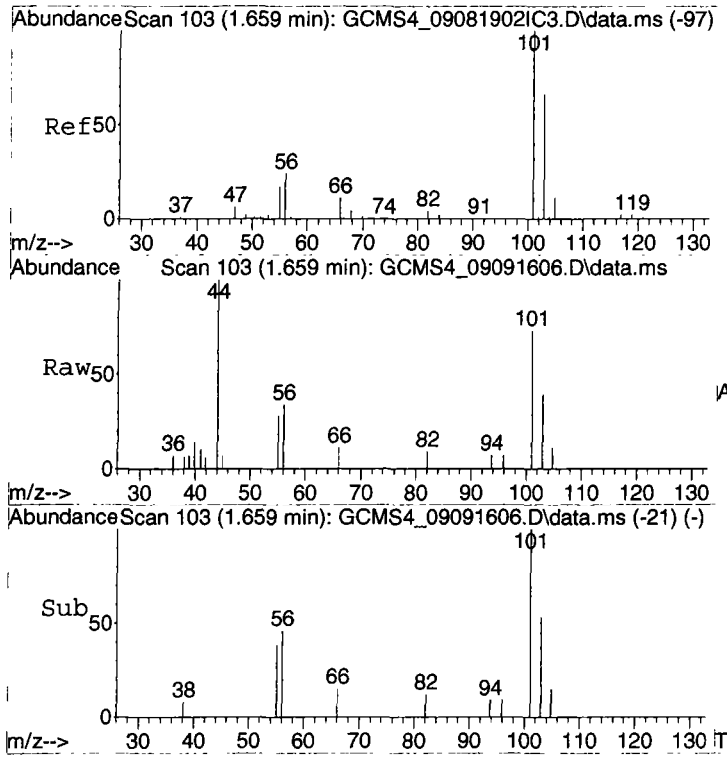


#5
Bromomethane
Concen: 47.31 ng
RT: 1.370 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 94 Resp: 188478

Ion	Ratio	Lower	Upper
94	100		
96	93.7	61.7	128.3

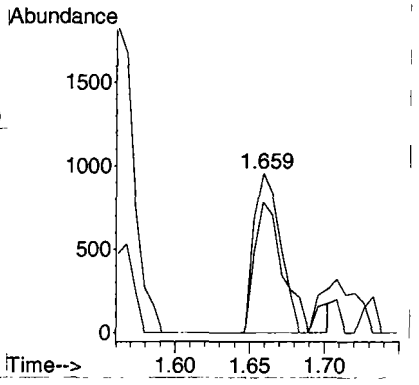


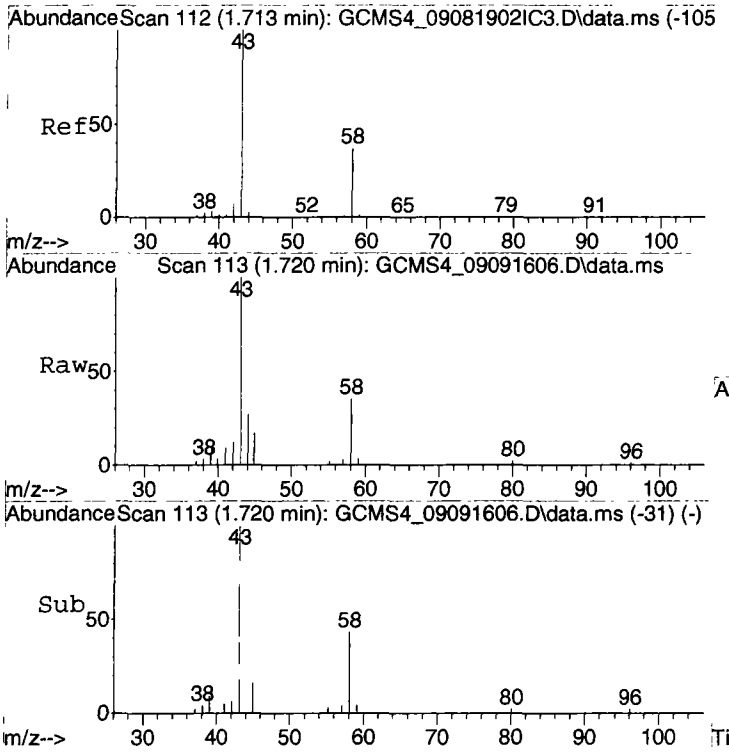


#8
Acrolein
Concen: 25.37 ng m
RT: 1.659 min Scan# 103
Delta R.T. -0.003 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 56 Resp: 13076

Ion	Ratio	Lower	Upper
56	100		
55	0.0	48.0	89.2#

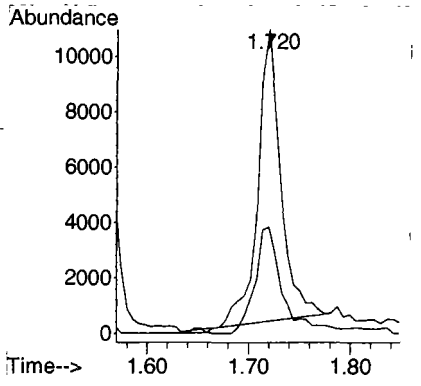


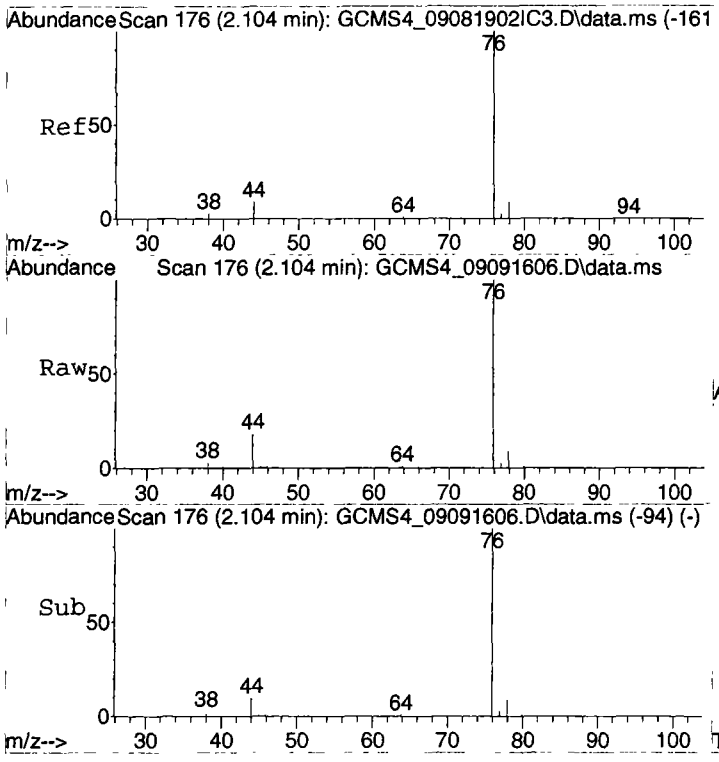


#10
Acetone
Concen: 45.60 ng
RT: 1.721 min Scan# 113
Delta R.T. 0.001 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 43 Resp: 163391

Ion	Ratio	Lower	Upper
43	100		
58	40.2	19.5	40.5

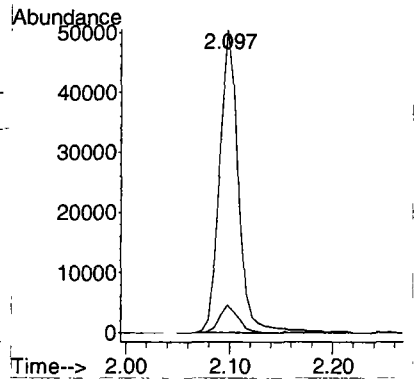


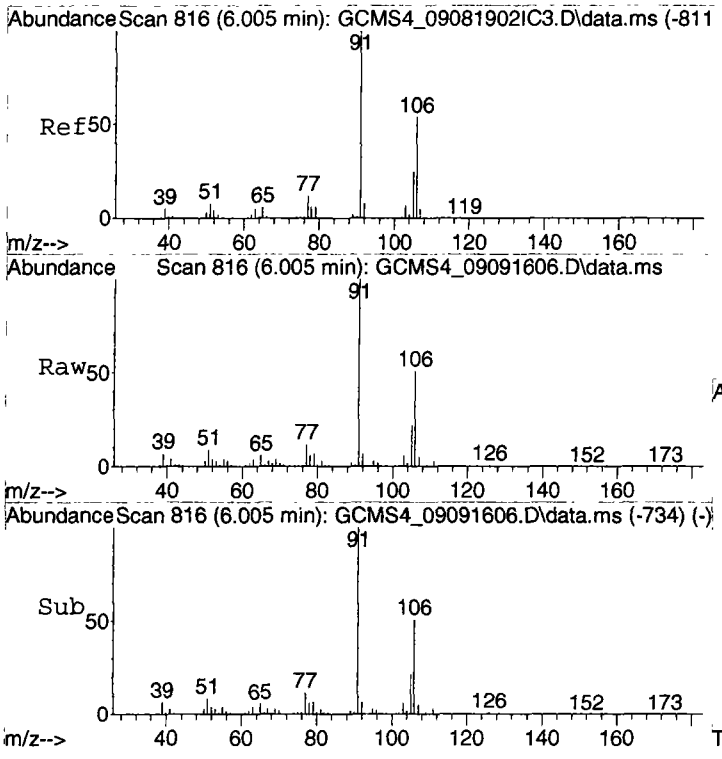


#11
Carbon disulfide
Concen: 26.53 ng
RT: 2.101 min Scan# 176
Delta R.T. -0.002 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 76 Resp: 639157

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.5	13.5

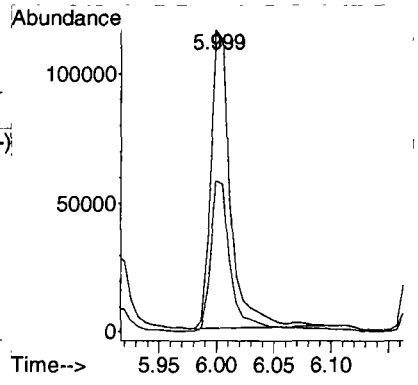


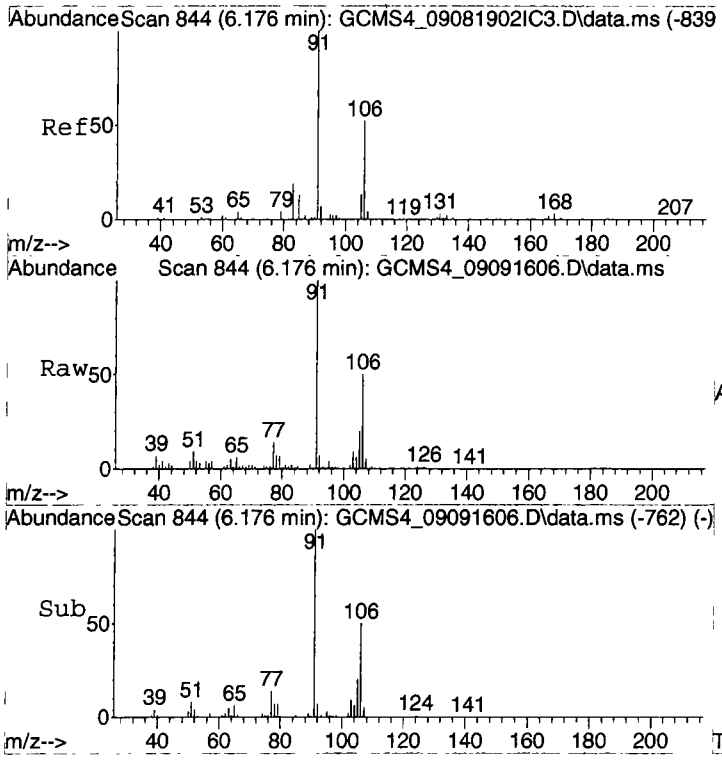


#47
m- &/or p-Xylene
Concen: 48.36 ng
RT: 6.005 min Scan# 816
Delta R.T. -0.002 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 91 Resp: 1396440

Ion	Ratio	Lower	Upper
91	100		
106	51.2	32.0	66.4

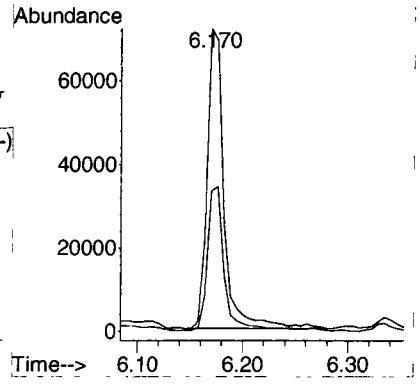


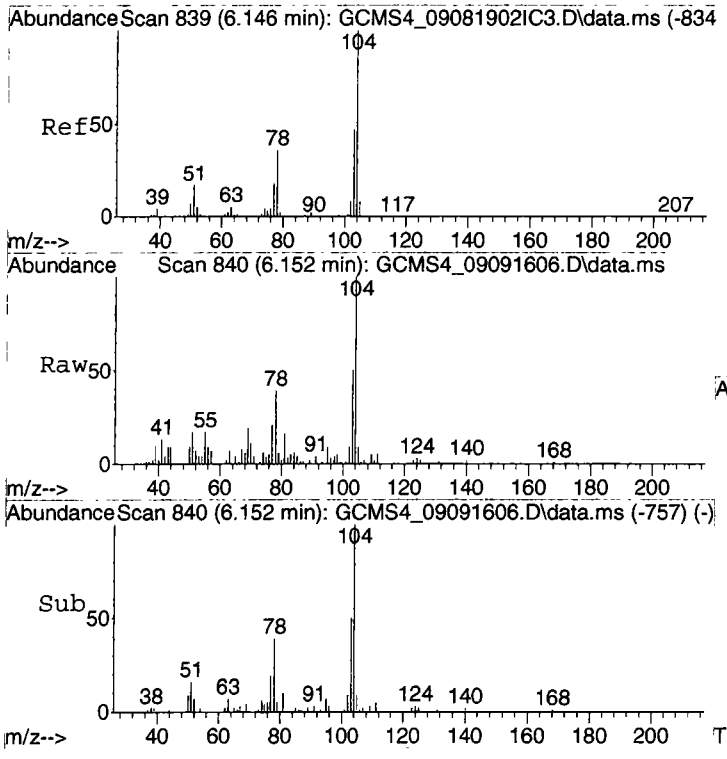


#48
o-Xylene
Concen: 26.57 ng
RT: 6.175 min Scan# 844
Delta R.T. -0.001 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 91 Resp: 804504

Ion	Ratio	Lower	Upper
91	100		
106	45.6	29.4	61.2

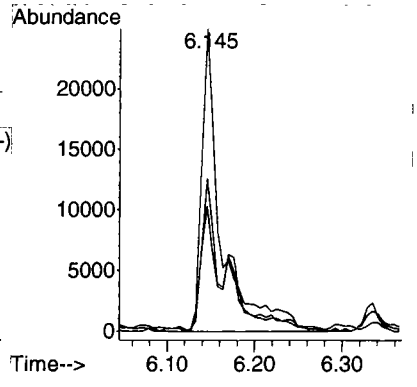


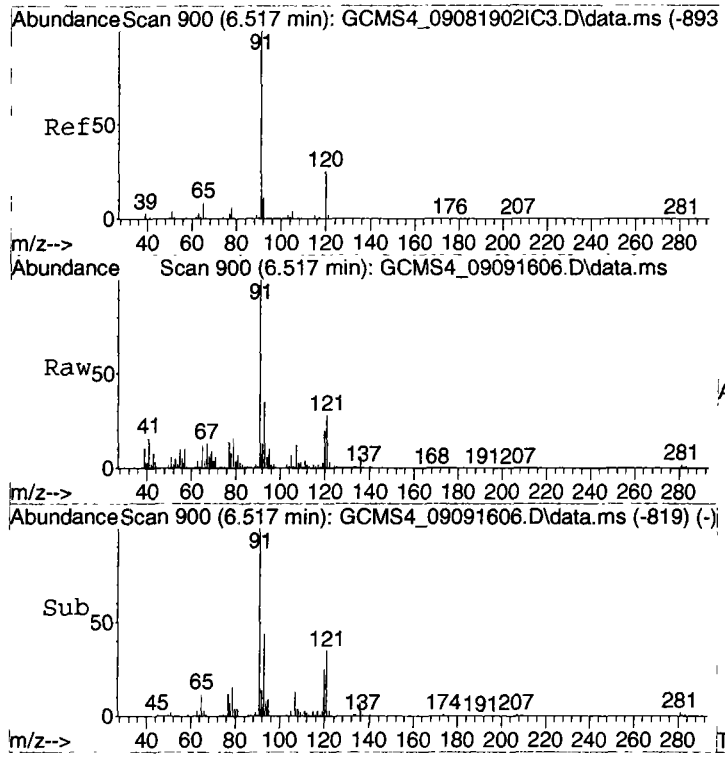


#49
Styrene
Concen: 12.94 ng
RT: 6.149 min Scan# 840
Delta R.T. 0.001 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:104 Resp: 385960

Ion	Ratio	Lower	Upper
104	100		
103	31.4	28.0	58.1
78	16.5	29.4	61.2#

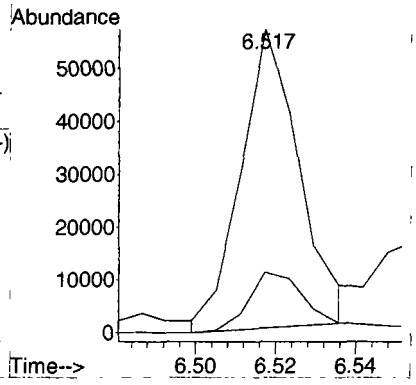


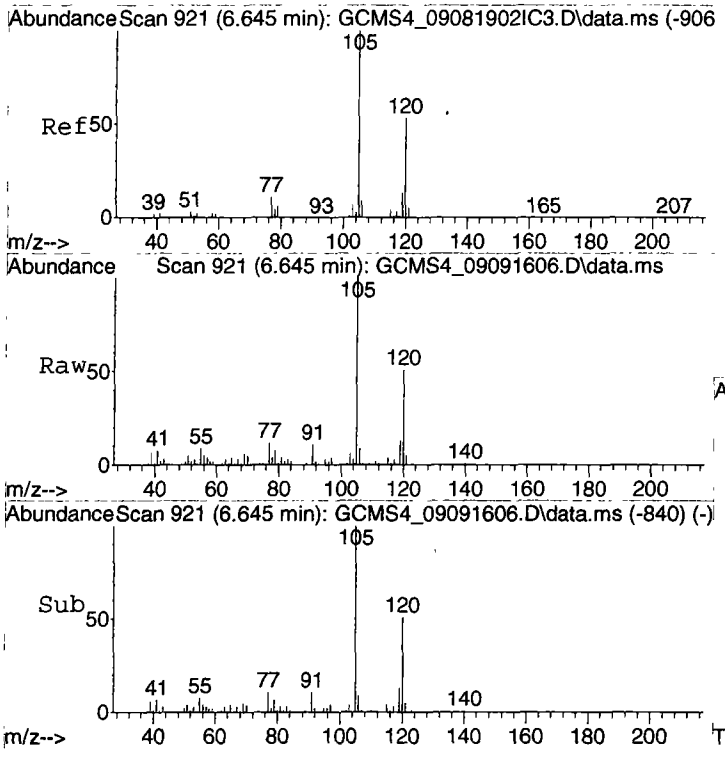


#56
n-Propylbenzene
Concen: 12.33 ng m
RT: 6.517 min Scan# 900
Delta R.T. -0.004 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 91 Resp: 542592

Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.3	33.8#

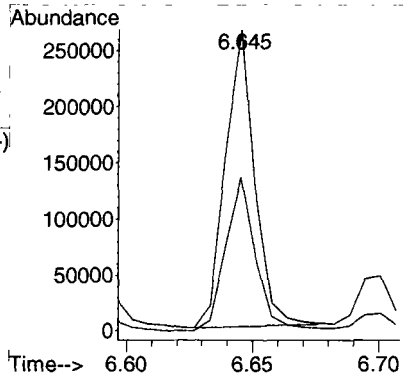


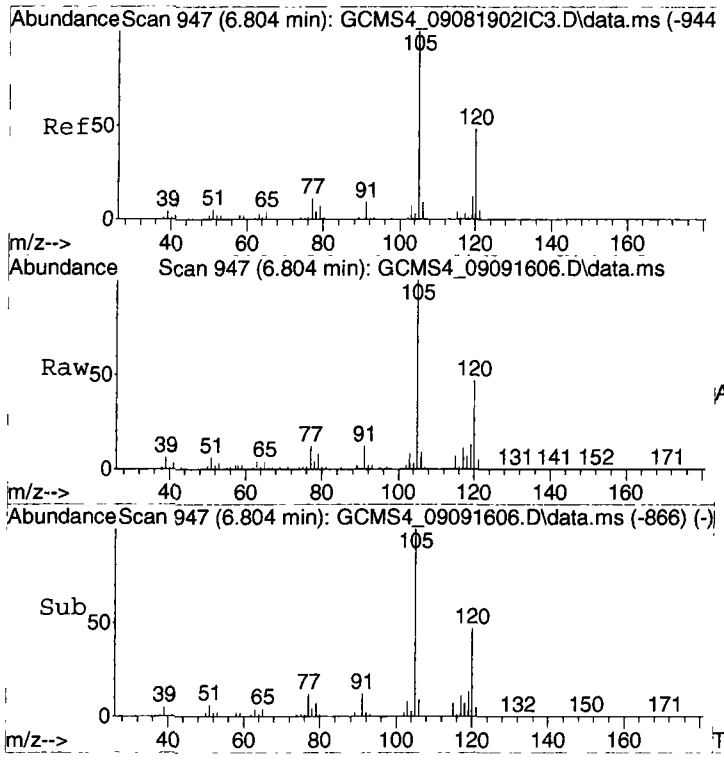


#59
1,3,5-Trimethylbenzene
Concen: 67.55 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:105 Resp: 2123777

Ion	Ratio	Lower	Upper
105	100		
120	51.5	28.7	59.7

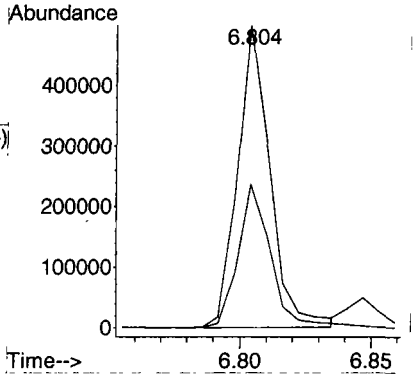


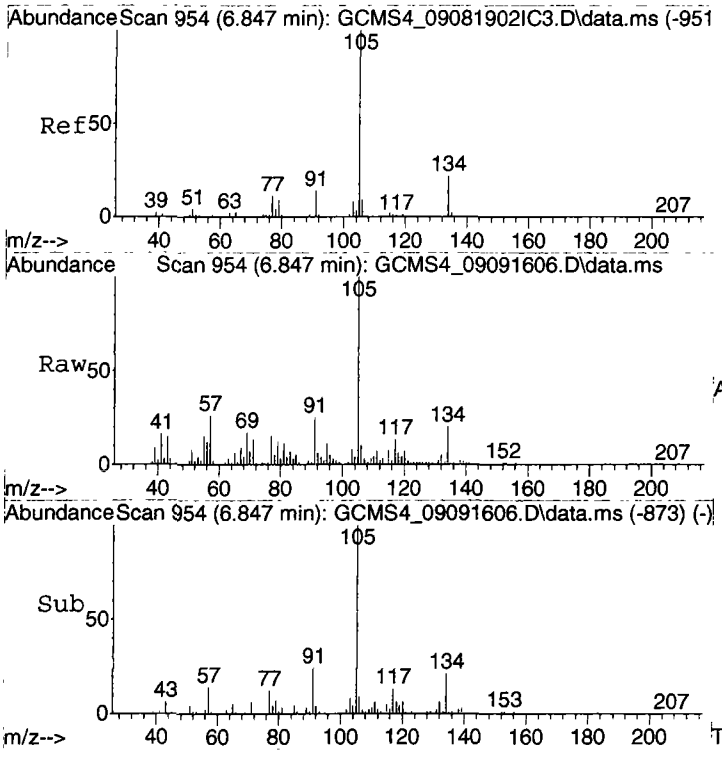


#61
1,2,4-Trimethylbenzene
Concen: 136.56 ng
RT: 6.807 min Scan# 947
Delta R.T. -0.002 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:105 Resp: 4176364

Ion	Ratio	Lower	Upper
105	100		
120	48.3	29.3	60.8

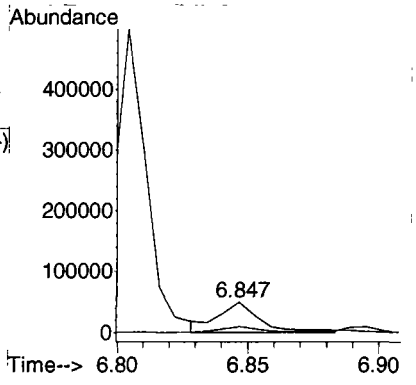


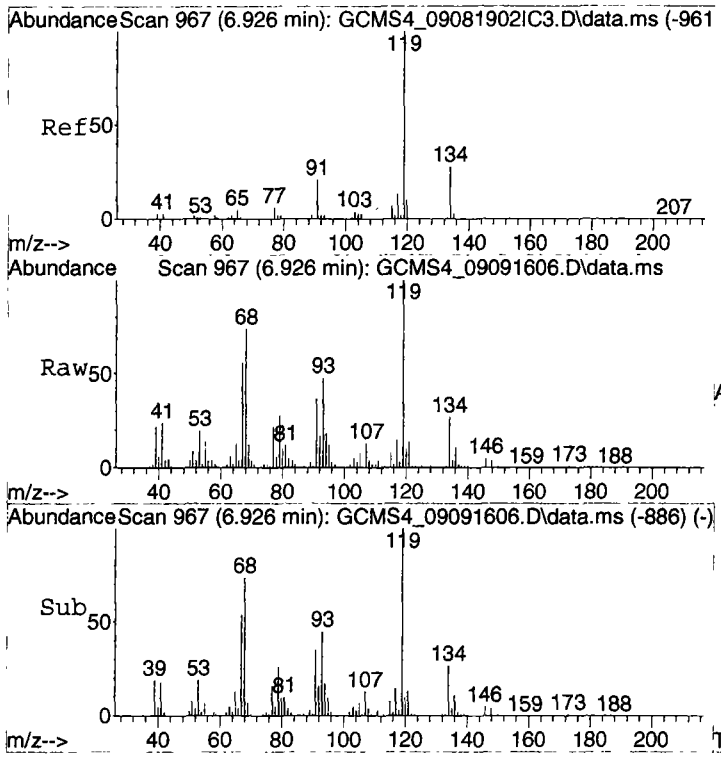


#62
sec-Butylbenzene
Concen: 14.49 ng m
RT: 6.847 min Scan# 954
Delta R.T. -0.005 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:105 Resp: 599035

Ion	Ratio	Lower	Upper
105	100		
134	0.0	12.7	26.3#

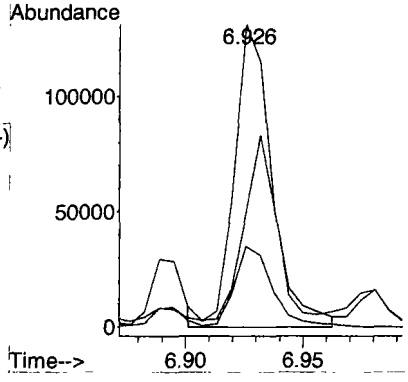


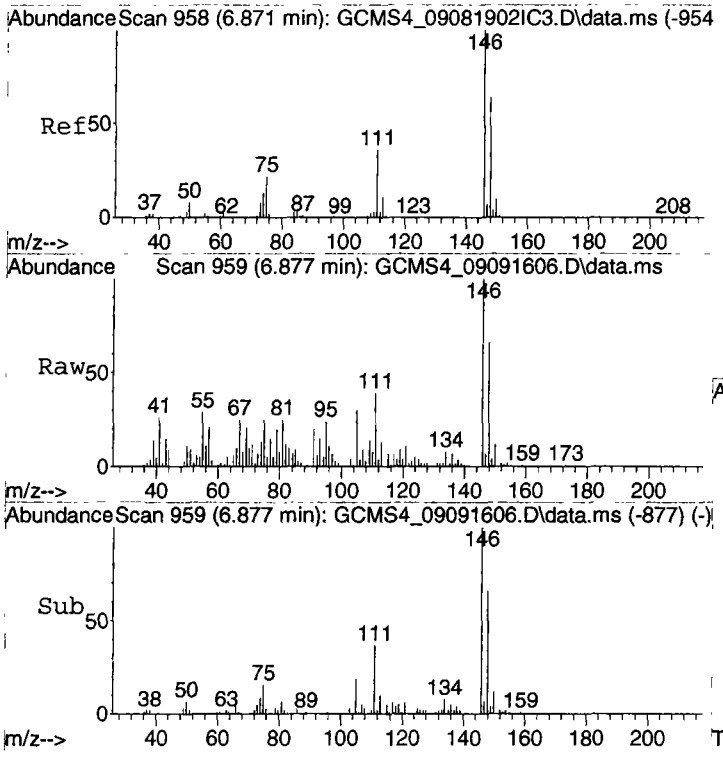


#63
p-Isopropyltoluene
Concen: 42.72 ng m
RT: 6.926 min Scan# 967
Delta R.T. -0.005 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:119 Resp: 1449445

Ion	Ratio	Lower	Upper
119	100		
91	19.4	16.3	33.8
134	28.8	18.9	39.1

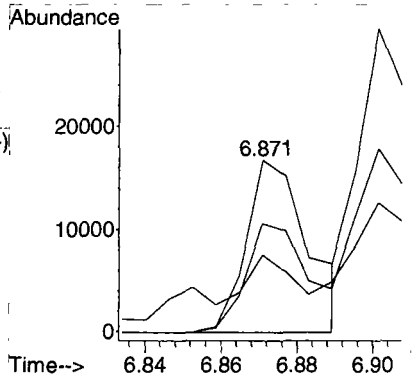


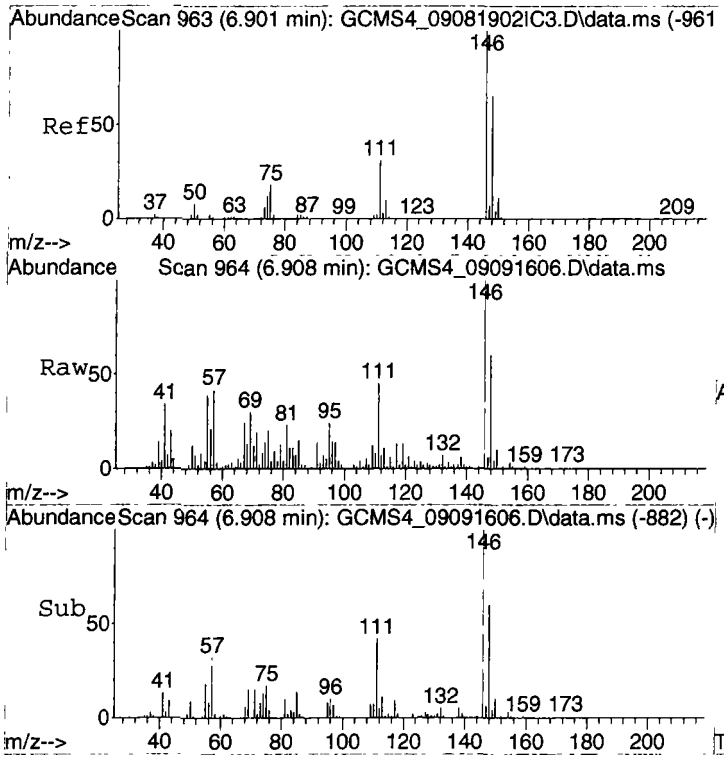


#64
1,3-Dichlorobenzene
Concen: 10.16 ng
RT: 6.876 min Scan# 959
Delta R.T. -0.000 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:146 Resp: 166537

Ion	Ratio	Lower	Upper
146	100		
148	65.3	41.2	85.6
111	43.6	25.9	53.9

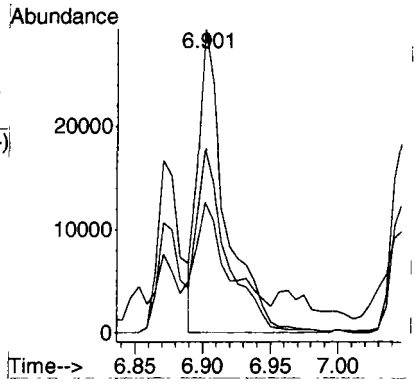


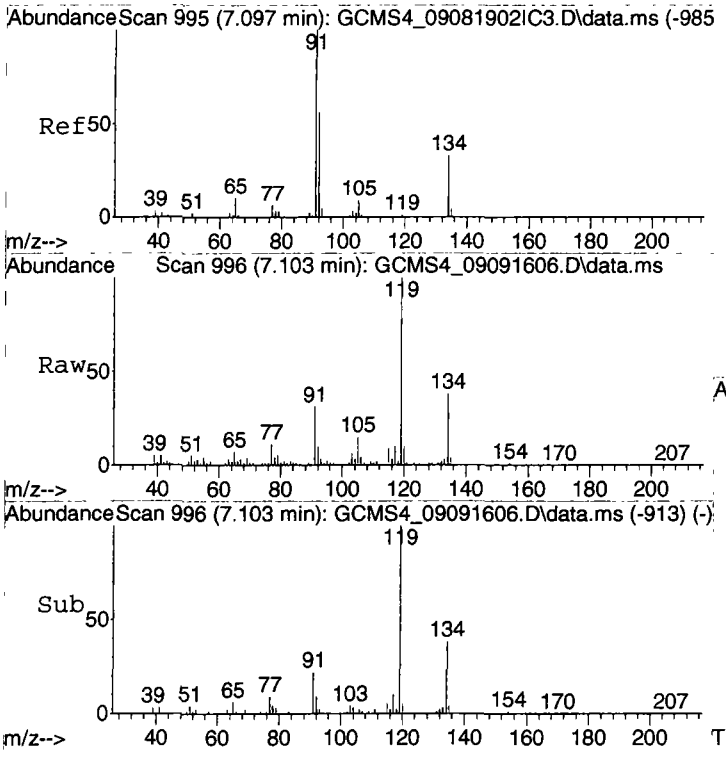


#65
1,4-Dichlorobenzene
Concen: 23.07 ng
RT: 6.905 min Scan# 964
Delta R.T. 0.000 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:146 Resp: 441993

Ion	Ratio	Lower	Upper
146	100		
148	63.7	39.1	81.1
111	45.3	26.7	55.4

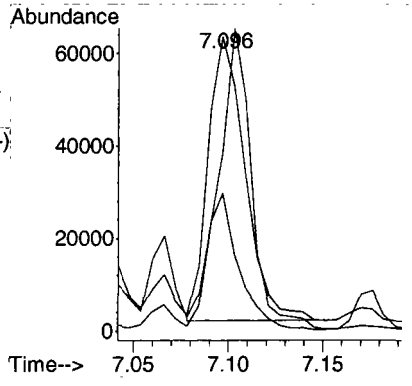


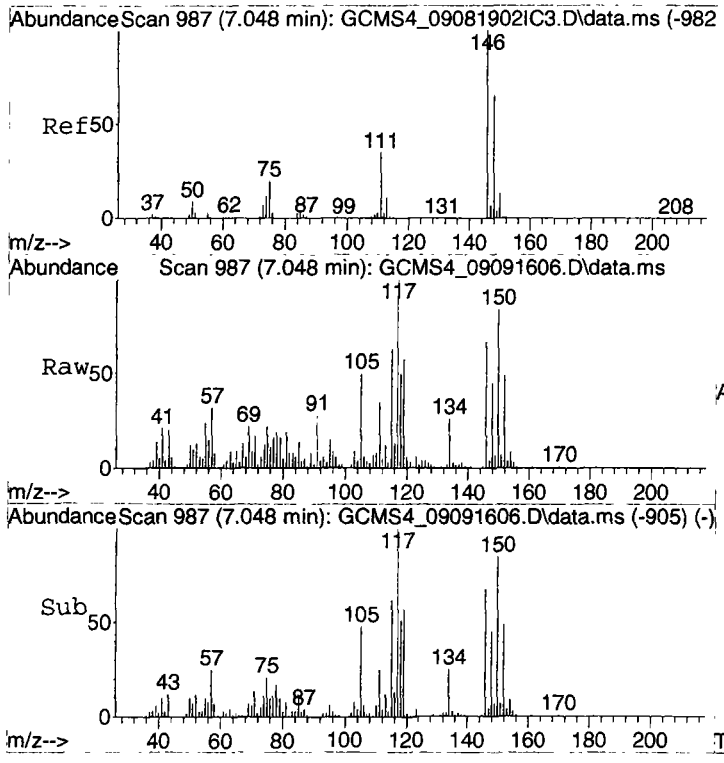


#67
n-Butylbenzene
Concen: 24.62 ng
RT: 7.100 min Scan# 996
Delta R.T. 0.001 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion: 91 Resp: 831516

Ion	Ratio	Lower	Upper
91	100		
134	94.7	18.3	38.1#
92	39.6	34.1	70.7

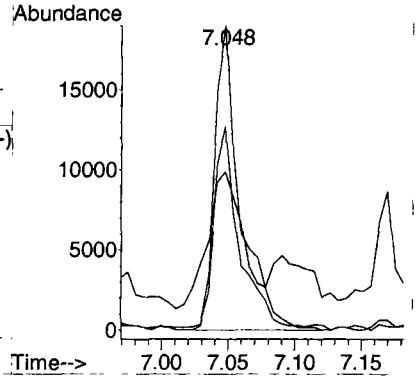


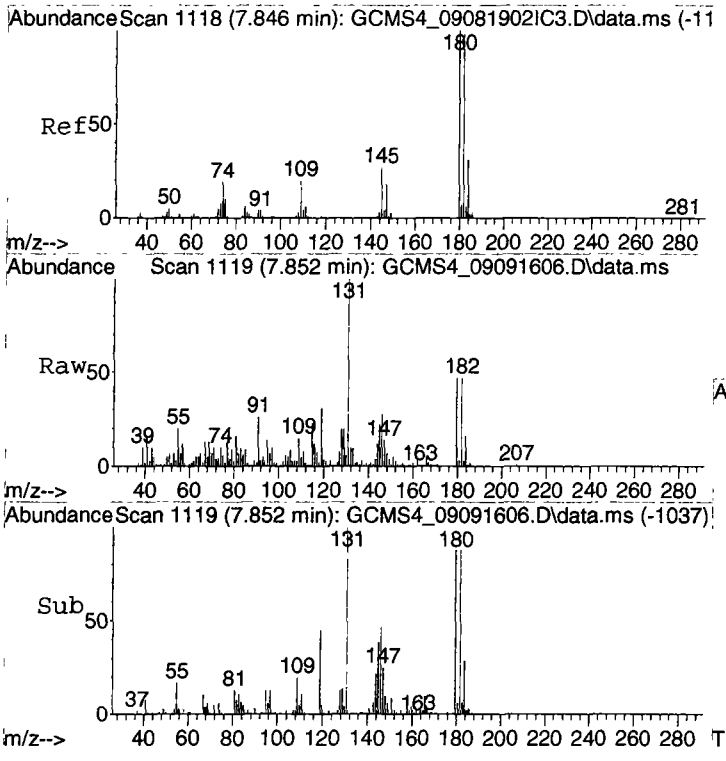


#68
1,2-Dichlorobenzene
Concen: 10.72 ng
RT: 7.049 min Scan# 987
Delta R.T. -0.001 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:146 Resp: 254895

Ion	Ratio	Lower	Upper
146	100		
148	65.9	42.6	88.4
111	59.9	30.6	63.6

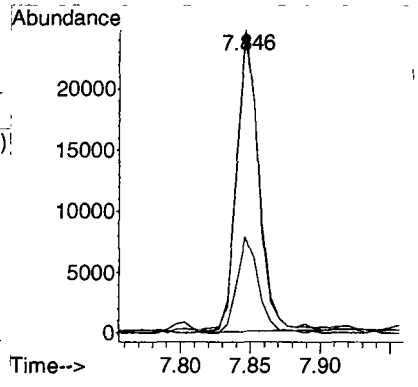


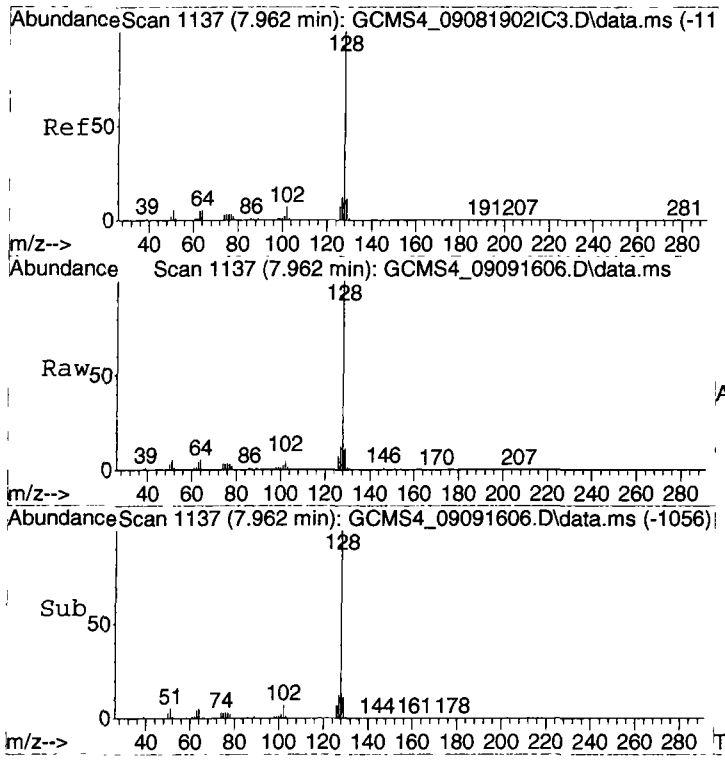


#70
1,2,4-Trichlorobenzene
Concen: 18.01 ng
RT: 7.850 min Scan# 1119
Delta R.T. -0.003 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:180 Resp: 273006

Ion	Ratio	Lower	Upper
180	100		
182	91.7	59.8	124.2
184	31.4	18.3	37.9

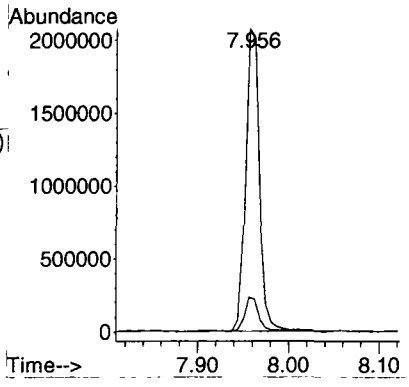


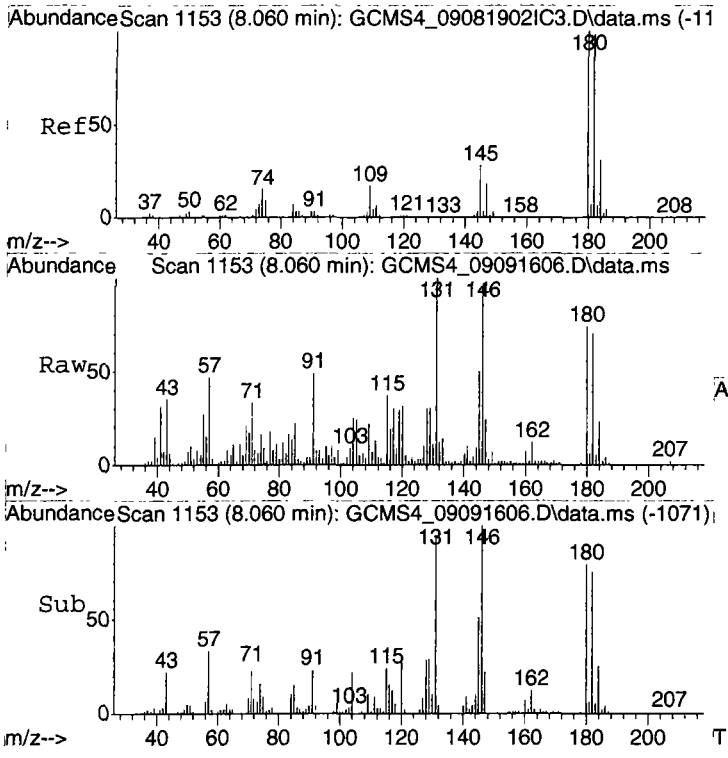


#72
Naphthalene
Concen: 551.78 ng
RT: 7.961 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4 09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:128 Resp:22017036

Ion	Ratio	Lower	Upper
128	100		
129	11.6	6.7	13.9

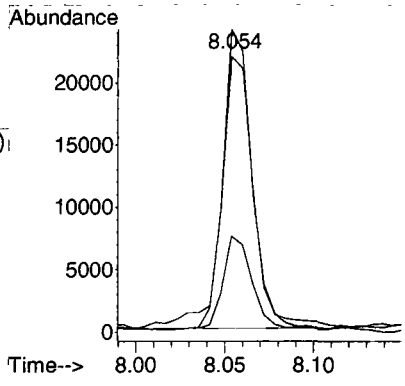




#73
1,2,3-Trichlorobenzene
Concen: 17.85 ng
RT: 8.059 min Scan# 1153
Delta R.T. -0.002 min
Lab File: GCMS4_09091606.D
Acq: 16 Sep 2009 10:43

Tgt Ion:180 Resp: 269567

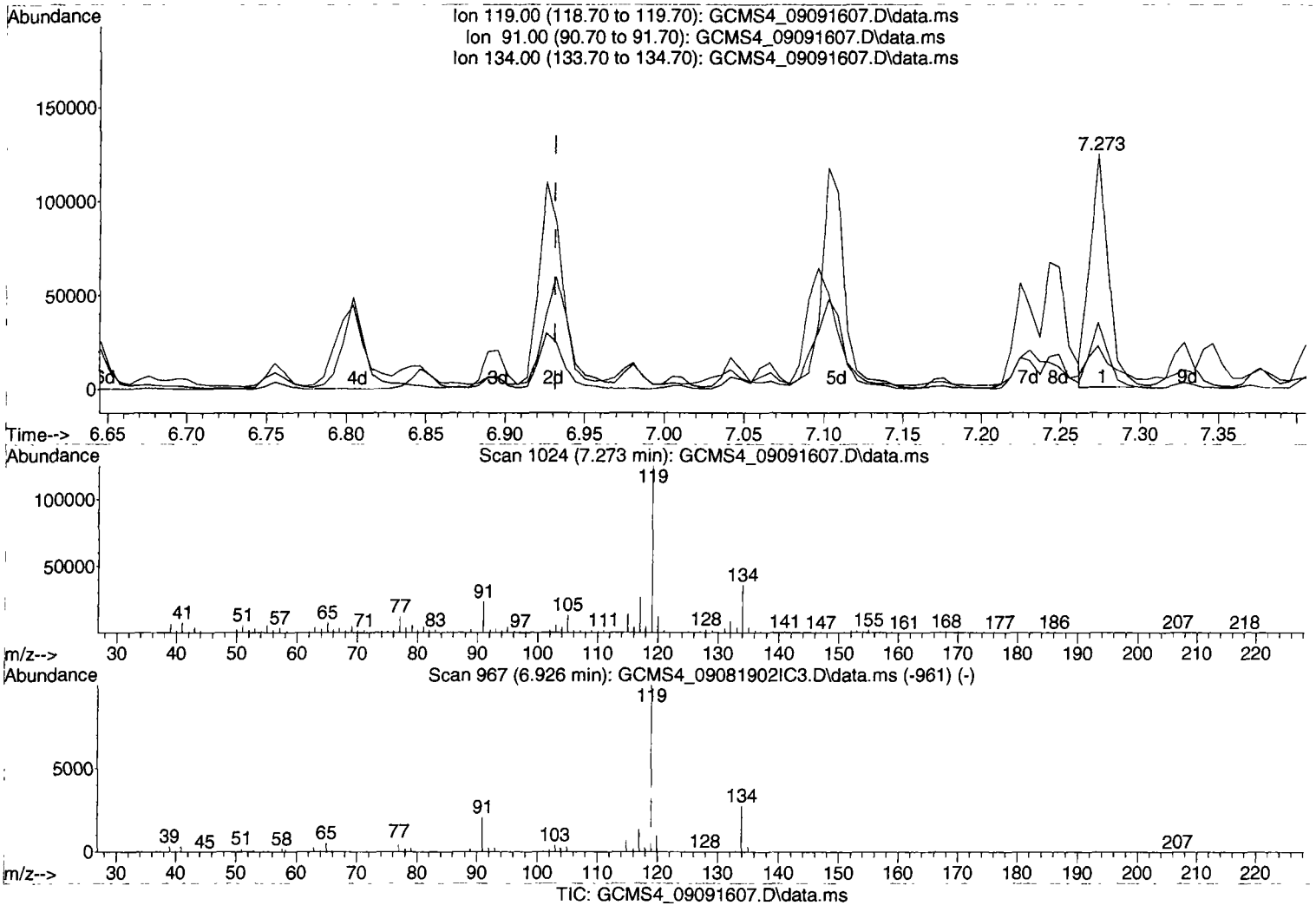
Ion	Ratio	Lower	Upper
180	100		
182	96.6	59.9	124.5
184	39.4	19.6	40.6



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:13:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(63) p-Isopropyltoluene (M)

7.276min (+0.345) 32.46ng

response 1038034

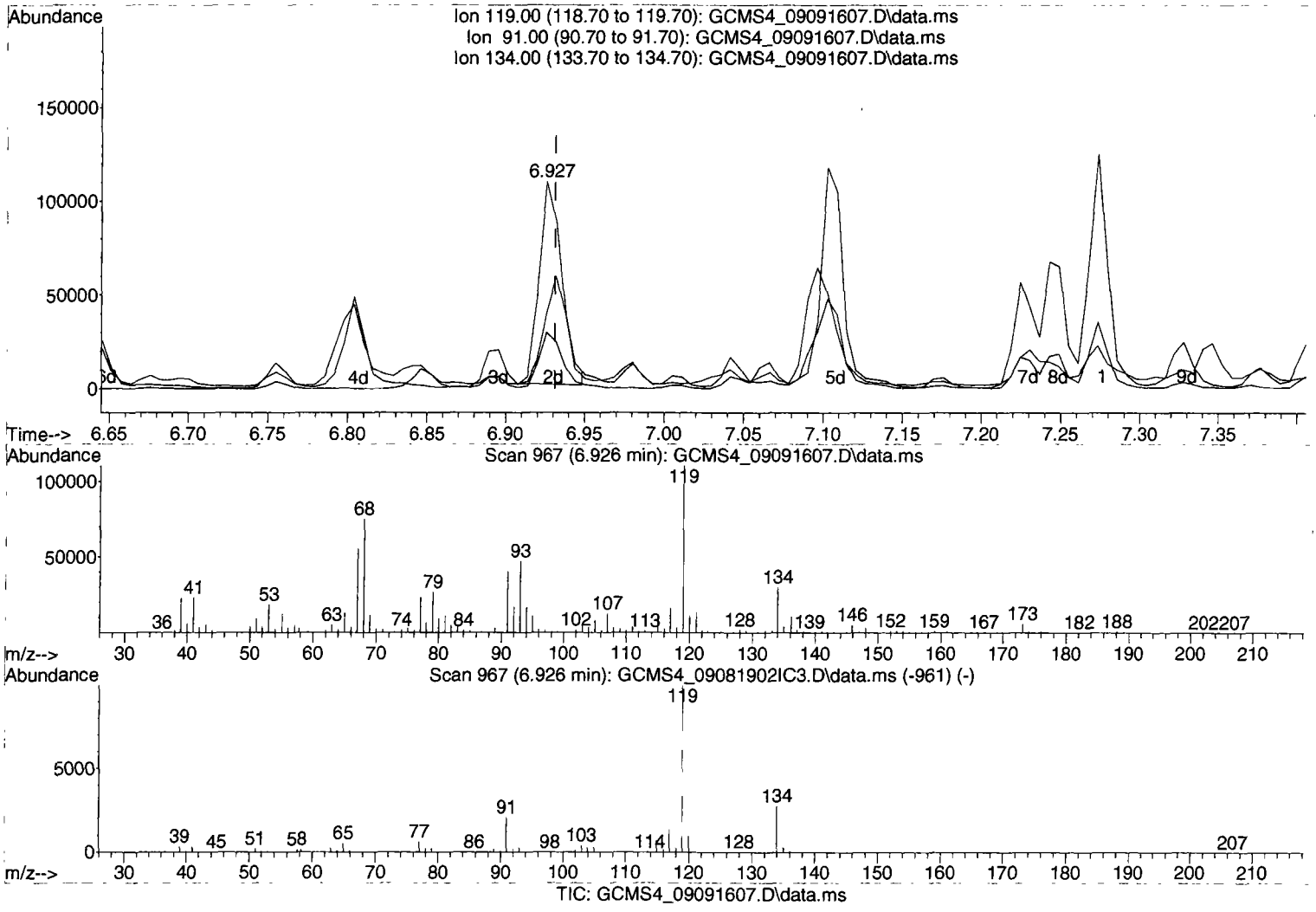
Ion	Exp%	Act%
119.00	100	100
91.00	25.00	19.56
134.00	29.00	28.17
0.00	0.00	0.00

bepne p
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:13:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(63) p-Isopropyltoluene (M)

6.926min (-0.005) 33.57ng m

response 1073674

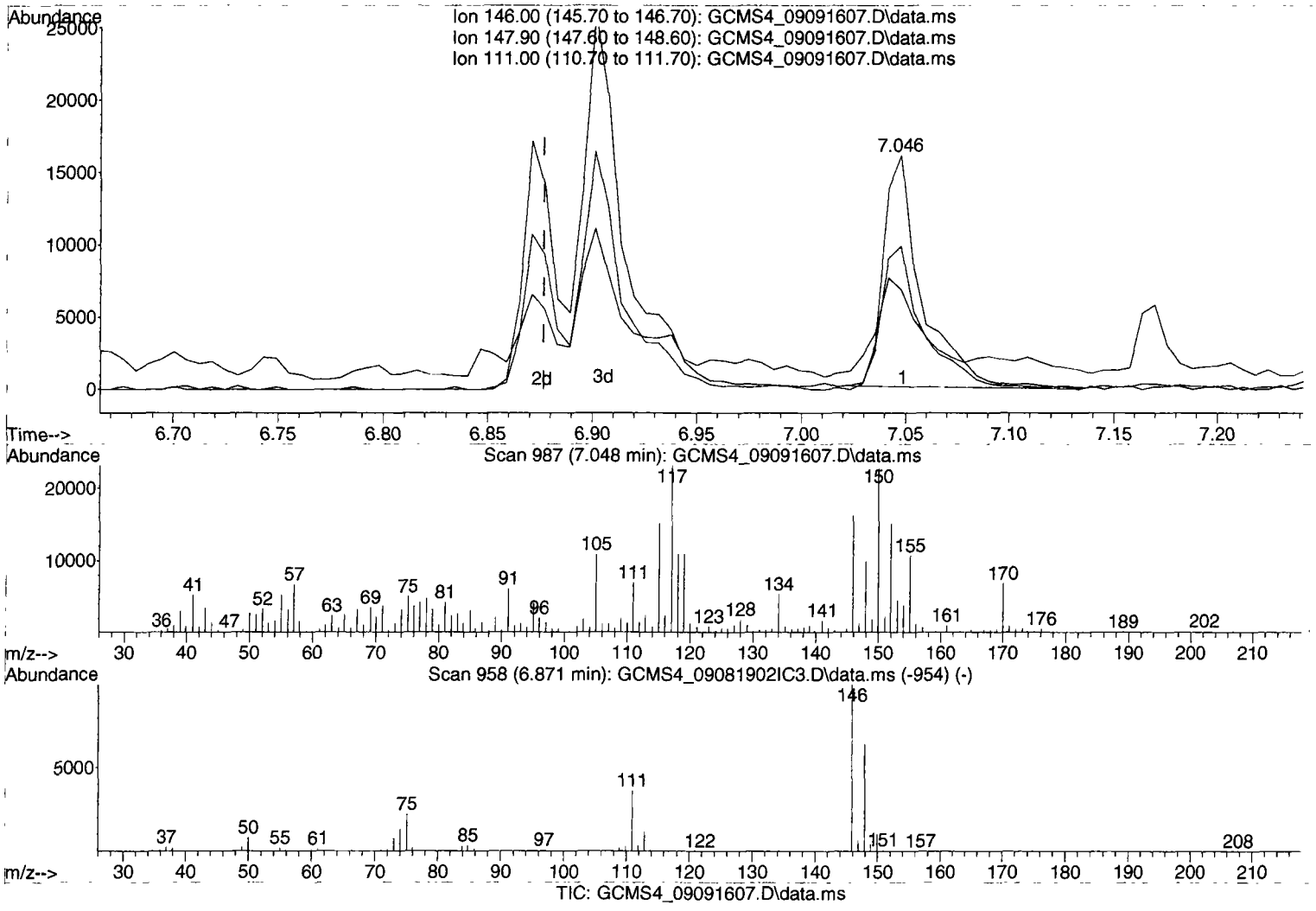
Ion	Exp%	Act%
119.00	100	100
91.00	25.00	18.91
134.00	29.00	27.24
0.00	0.00	0.00

after
CMT 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:13:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(64) 1,3-Dichlorobenzene (M)

7.048min (+0.172) 13.36ng

response 206298

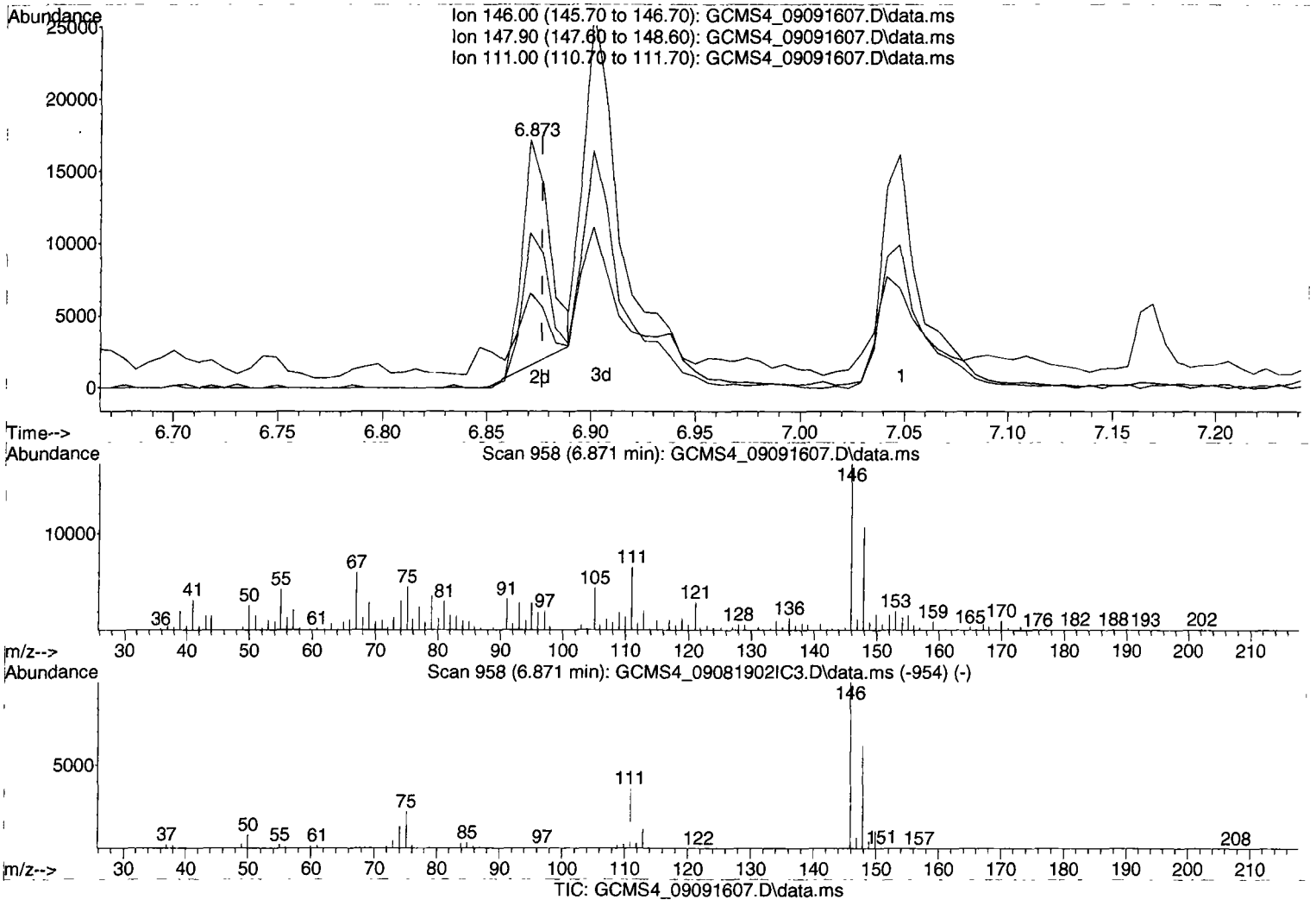
Ion	Exp%	Act%
146.00	100	100
147.90	63.40	66.37
111.00	39.90	39.69
0.00	0.00	0.00

before PC
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 10:13:22 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(64) 1,3-Dichlorobenzene (M)

6.871min (-0.006) 8.40ng m

response 129702

Ion	Exp%	Act%
146.00	100	100
147.90	63.40	105.57#
111.00	39.90	63.13#
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07, T20-125-1.0-3.0, 5.1404 G
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 11:23:55 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2068386	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.807	82	749689	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	668362	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.978	84	2025513	41.99 ng		0.00
34) TOLUENE-D8	5.138	98	1874481	48.86 ng		0.00
52) p-BROMOFLUOROBENZENE	6.345	95	564985	49.76 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.152	50	176132	14.74 ng		98
5) Bromomethane	1.371	94	175098	45.40 ng		94
10) Acetone	1.721	43	187995	54.19 ng	#	80
11) Carbon disulfide	2.100	76	813191	34.86 ng		96
12) Methylene chloride	1.993	84	115487	9.36 ng		81
26) Benzene	4.005	78	218029	5.17 ng		97
35) Toluene	5.173	91	338897	7.47 ng		99
39) Tetrachloroethene	5.514	166	62292	5.14 ng		96
44) Chlorobenzene	5.822	112	130742	5.53 ng	#	66
46) Ethylbenzene	5.919	91	310279	7.82 ng	#	44
47) m- &/or p-Xylene	6.005	91	1249788	45.92 ng		100
48) o-Xylene	6.175	91	651743	22.84 ng		99
49) Styrene	6.148	104	234754	8.35 ng		88
51) Isopropylbenzene	6.334	105	270001m	6.98 ng		
56) n-Propylbenzene	6.521	91	530653	12.80 ng	#	50
57) 2-Chlorotoluene	6.554	91	127198m	5.05 ng		
58) 4-Chlorotoluene	6.584	91	174178m	6.91 ng		
59) 1,3,5-Trimethylbenzene	6.647	105	1611373	54.37 ng		84 ✓
60) tert-Butylbenzene	6.755	119	145705m	5.58 ng		
61) 1,2,4-Trimethylbenzene	6.806	105	2913006	101.05 ng		89 ✓
62) sec-Butylbenzene	6.847	105	526442m	13.51 ng		
63) p-Isopropyltoluene	6.926	119	1073674m	33.57 ng		
64) 1,3-Dichlorobenzene	6.871	146	129702m	8.40 ng		
65) 1,4-Dichlorobenzene	6.905	146	361263	20.01 ng		90
67) n-Butylbenzene	7.099	91	808804	25.04 ng	#	61
68) 1,2-Dichlorobenzene	7.048	146	206367	9.08 ng		95
70) 1,2,4-Trichlorobenzene	7.850	180	237959	16.41 ng		92
71) Hexachlorobutadiene	7.994	225	78457	9.02 ng		95
72) Naphthalene	7.962	128	19512967	511.41 ng		97 ✓
73) 1,2,3-Trichlorobenzene	7.850	180	238928	16.54 ng		93

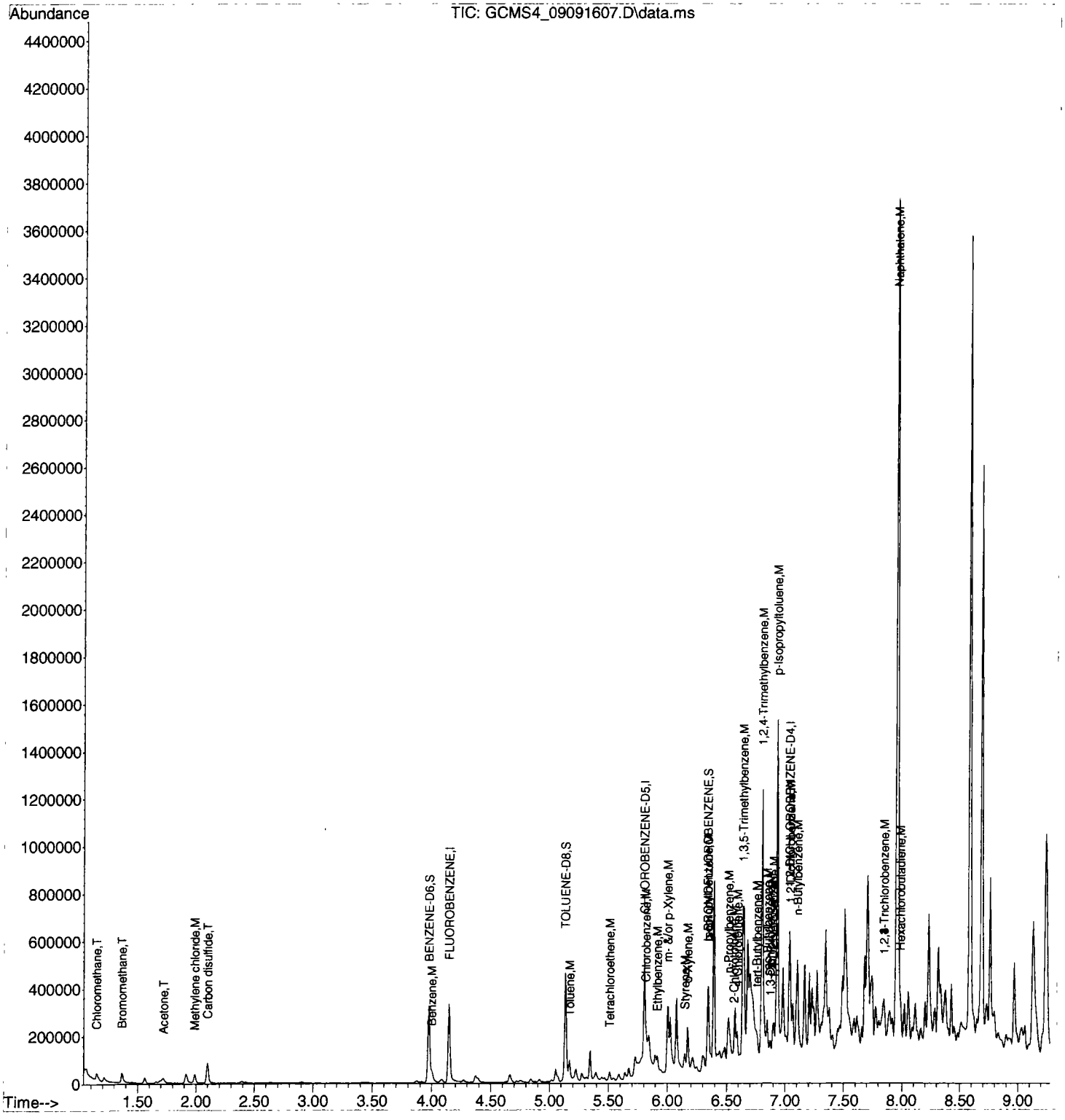
(#) = qualifier out of range (m) = manual integration (+) = signals summed

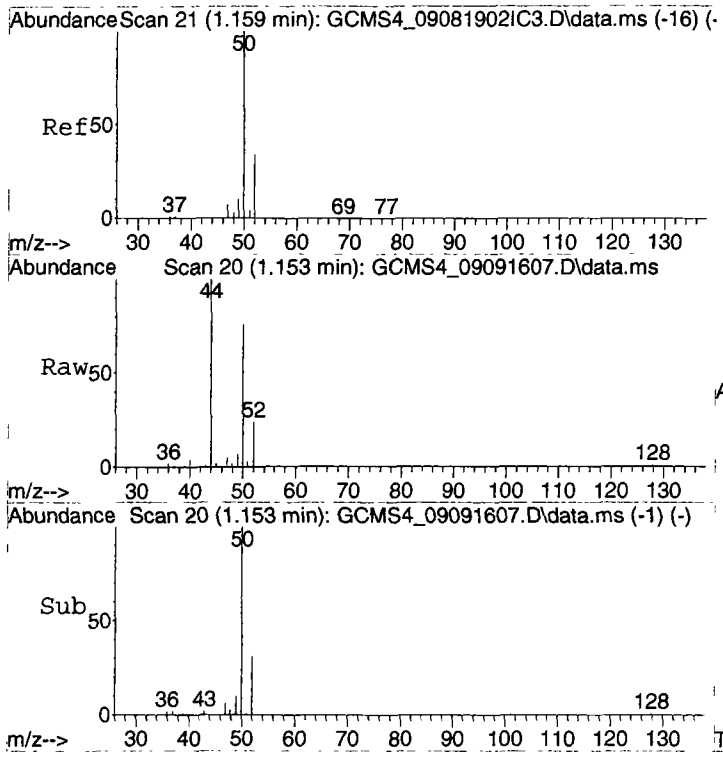
✓ These compounds have concentration above report limits
CMG 11/24/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091607.D
Acq On : 16 Sep 2009 11:04
Operator : CTANG
Sample : 0909005-07
Misc : 0909005-07, T20-125-1.0-3.0, 5.1404 G
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 11:23:55 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

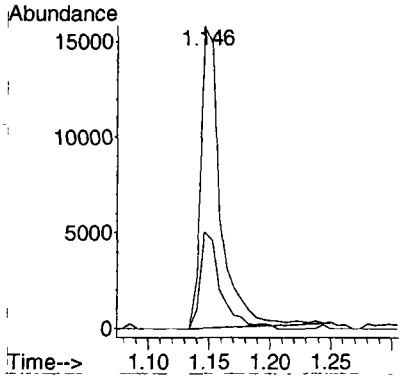


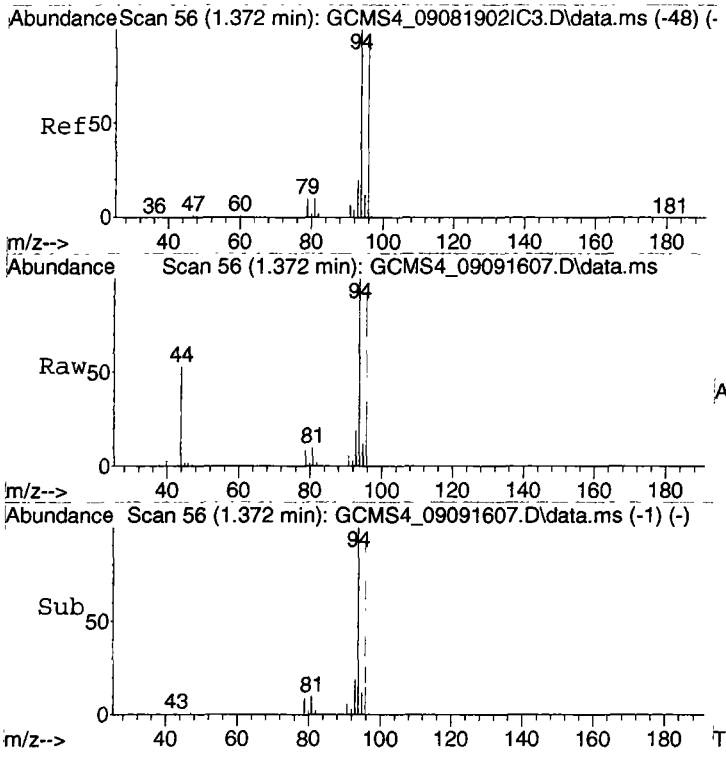


#3
Chloromethane
Concen: 14.74 ng
RT: 1.152 min Scan# 20
Delta R.T. -0.002 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 50 Resp: 176132

Ion	Ratio	Lower	Upper
50	100		
52	34.0	22.8	47.4

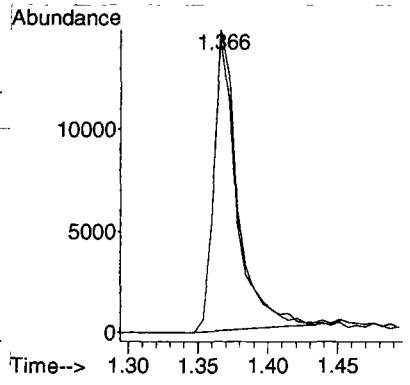


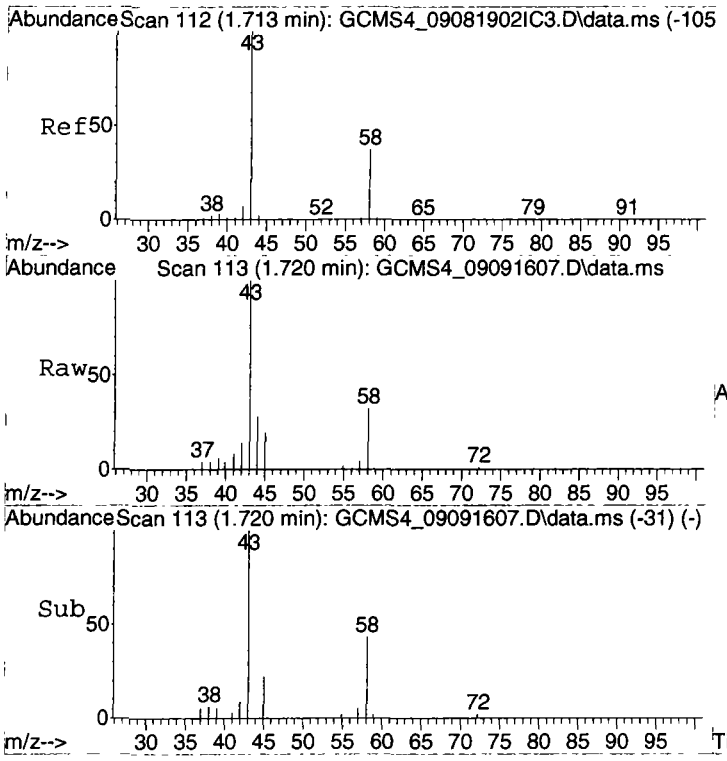


#5
Bromomethane
Concen: 45.40 ng
RT: 1.371 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 94 Resp: 175098

Ion	Ratio	Lower	Upper
94	100		
96	101.3	61.7	128.3

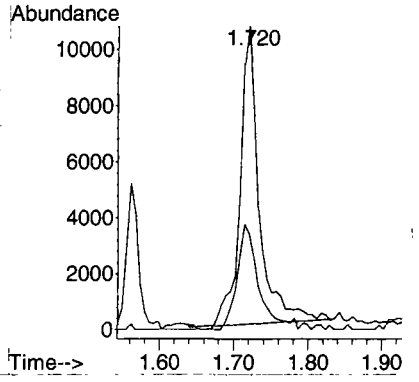


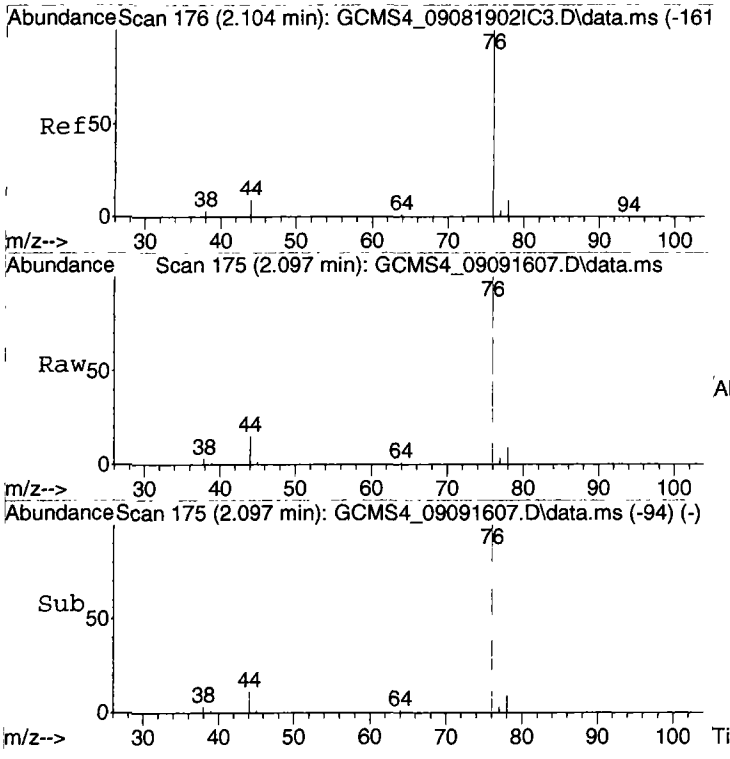


#10
Acetone
Concen: 54.19 ng
RT: 1.721 min Scan# 113
Delta R.T. 0.001 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 43 Resp: 187995

Ion	Ratio	Lower	Upper
43	100		
58	41.0	19.5	40.5#

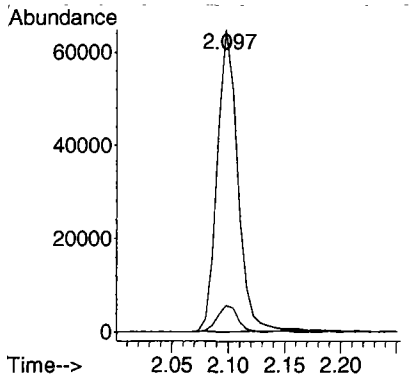


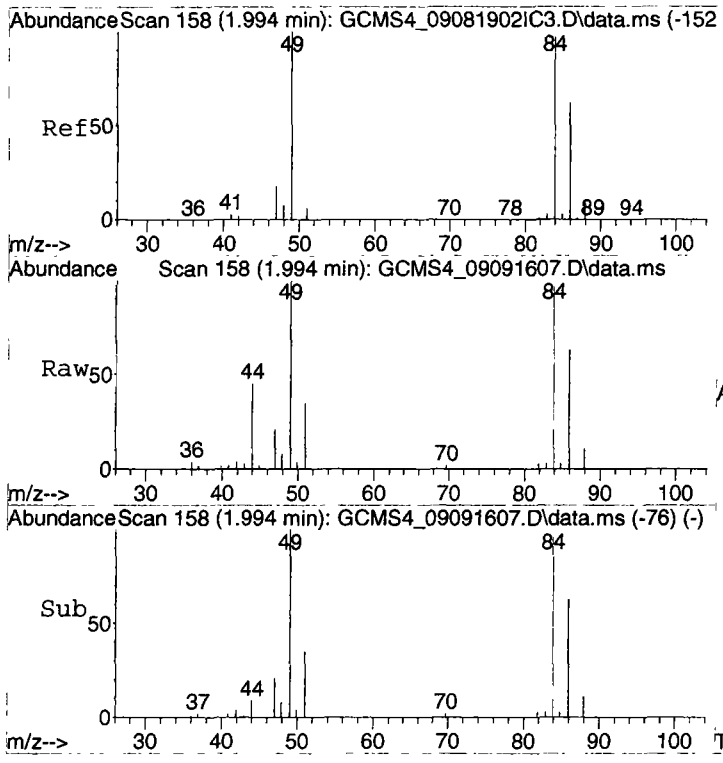


#11
Carbon disulfide
Concen: 34.86 ng
RT: 2.100 min Scan# 175
Delta R.T. -0.002 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 76 Resp: 813191

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.5	13.5

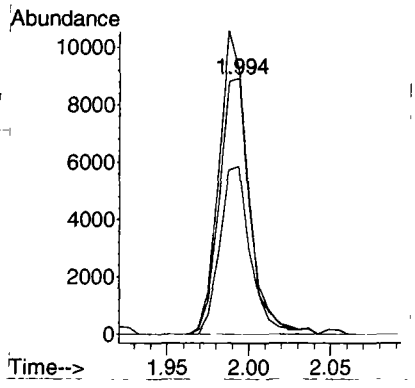


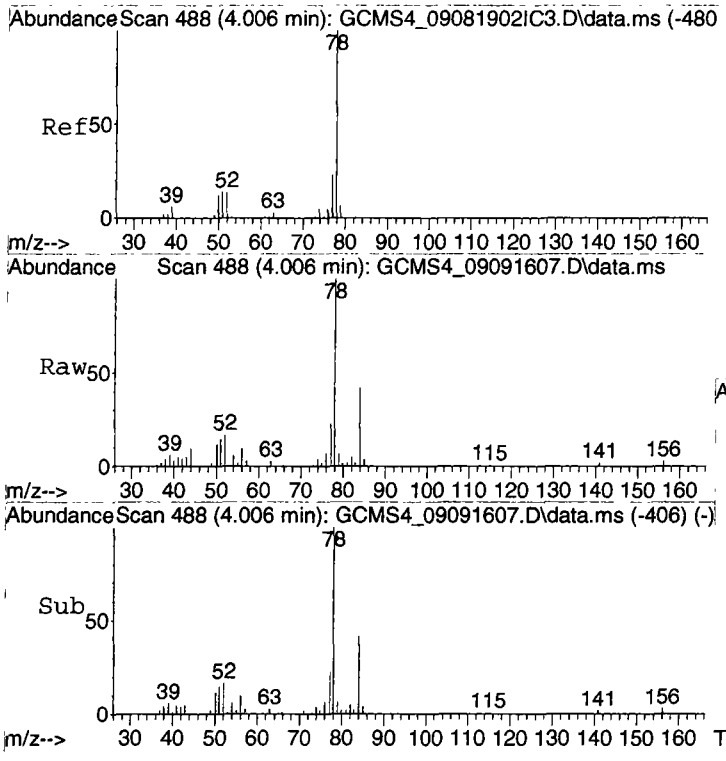


#12
Methylene chloride
Concen: 9.36 ng
RT: 1.993 min Scan# 158
Delta R.T. -0.002 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 84 Resp: 115487

Ion	Ratio	Lower	Upper
84	100		
86	65.7	39.1	81.3
49	110.5	90.5	188.1

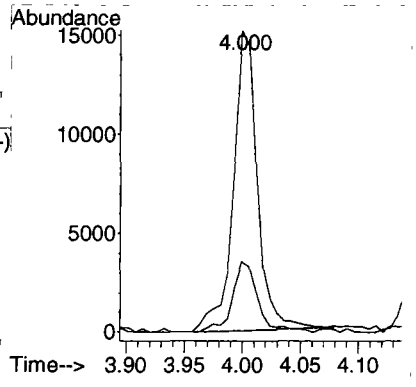


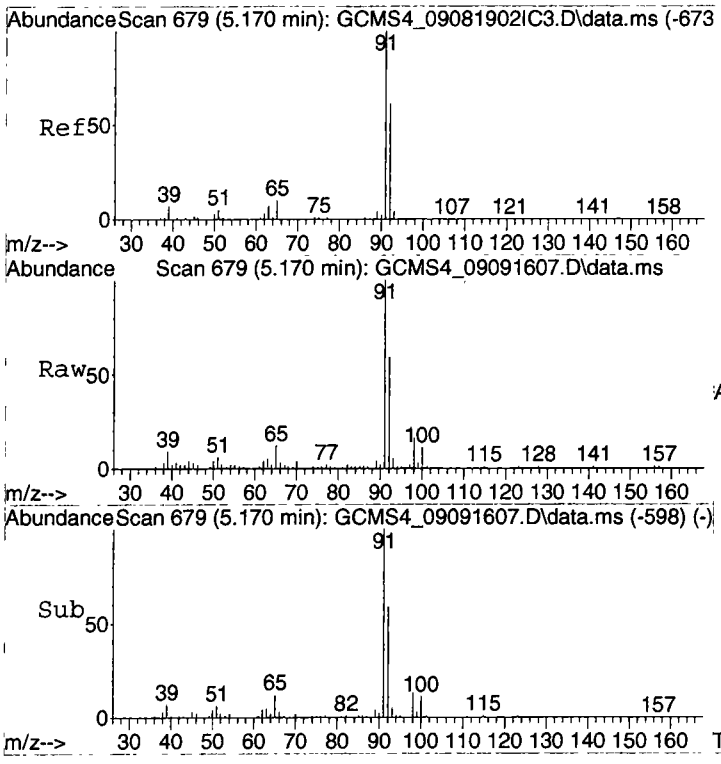


#26
Benzene
Concen: 5.17 ng
RT: 4.005 min Scan# 488
Delta R.T. -0.002 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 78 Resp: 218029

Ion	Ratio	Lower	Upper
78	100		
77	25.6	15.7	32.5

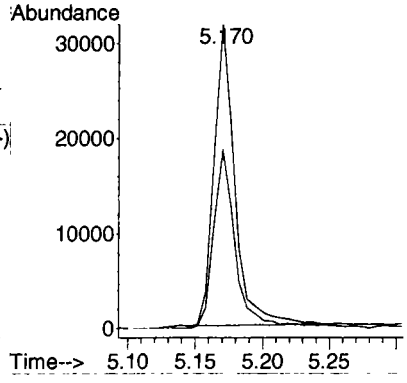


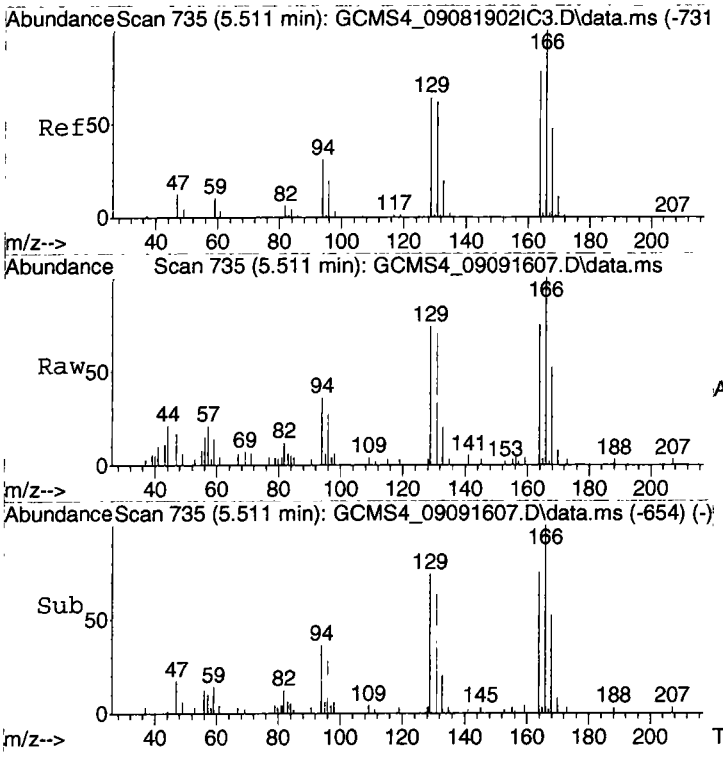


#35
Toluene
Concen: 7.47 ng
RT: 5.173 min Scan# 679
Delta R.T. -0.001 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 338897

Ion	Ratio	Lower	Upper
91	100		
92	59.8	39.5	81.9

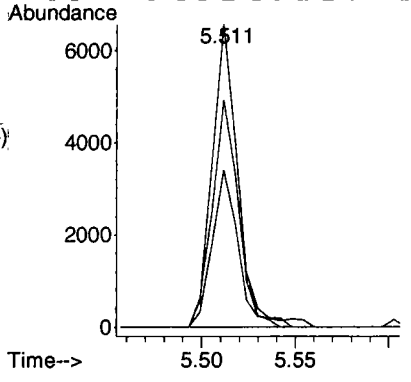


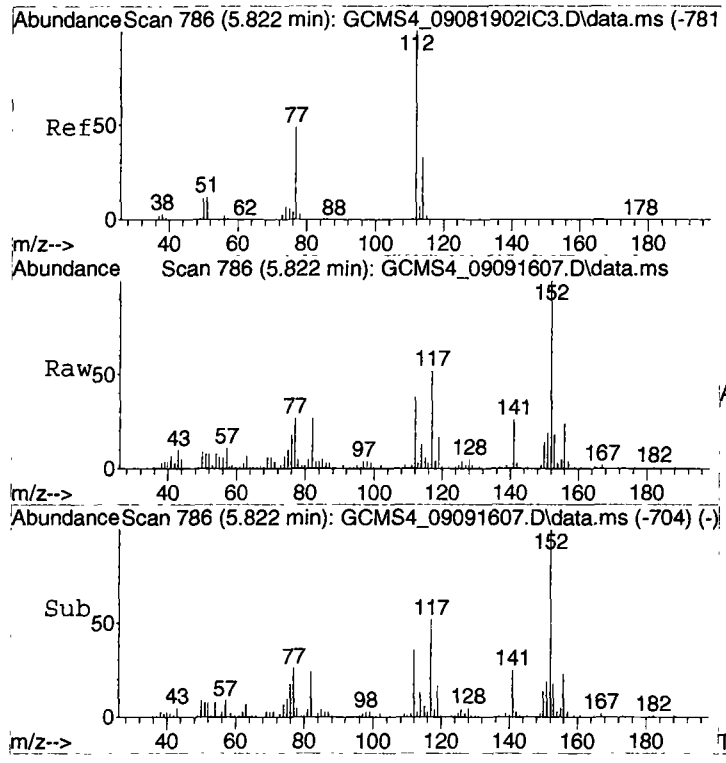


#39
Tetrachloroethene
Concen: 5.14 ng
RT: 5.514 min Scan# 735
Delta R.T. -0.002 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:166 Resp: 62292

Ion	Ratio	Lower	Upper
166	100		
164	75.2	49.3	102.5
168	53.0	30.0	62.2

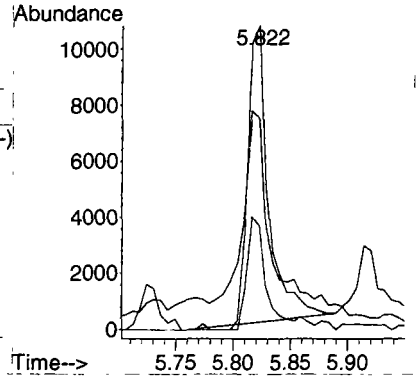


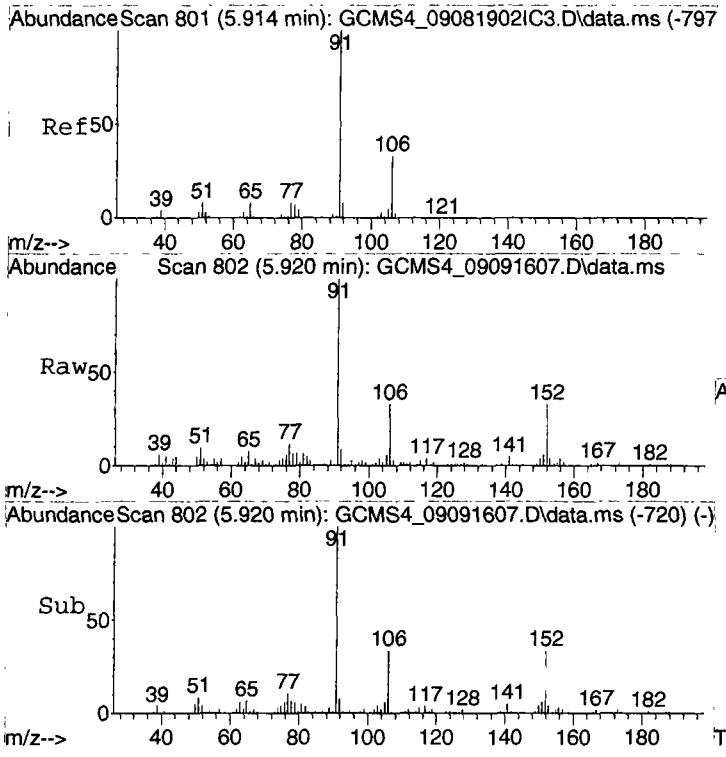


#44
Chlorobenzene
Concen: 5.53 ng
RT: 5.822 min Scan# 786
Delta R.T. -0.001 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:112 Resp: 130742

Ion	Ratio	Lower	Upper
112	100		
114	31.1	20.2	41.9
77	102.6	40.8	84.8#

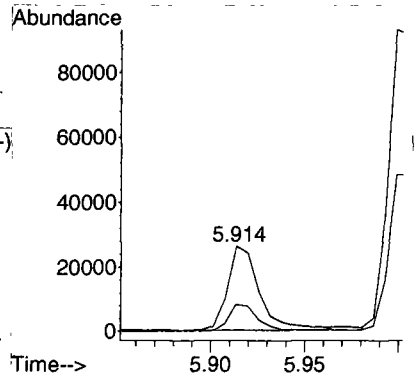


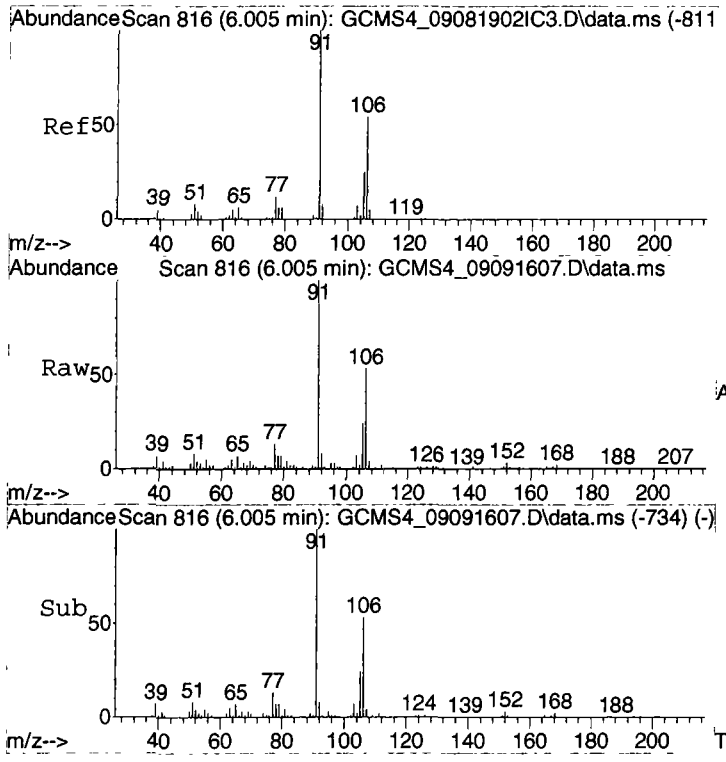


#46
Ethylbenzene
Concen: 7.82 ng
RT: 5.919 min Scan# 802
Delta R.T. -0.000 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 310279

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.0	41.6#

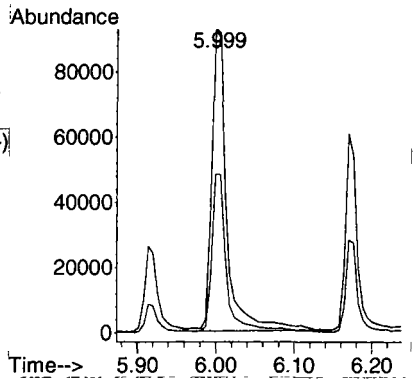


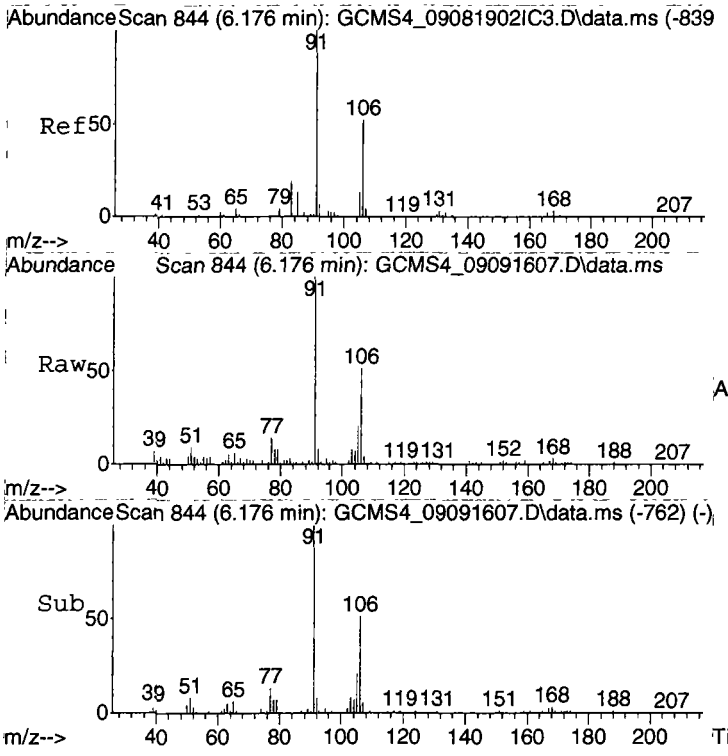


#47
m- &/or p-Xylene
Concen: 45.92 ng
RT: 6.005 min Scan# 816
Delta R.T. -0.002 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 1249788

Ion	Ratio	Lower	Upper
91	100		
106	49.1	32.0	66.4

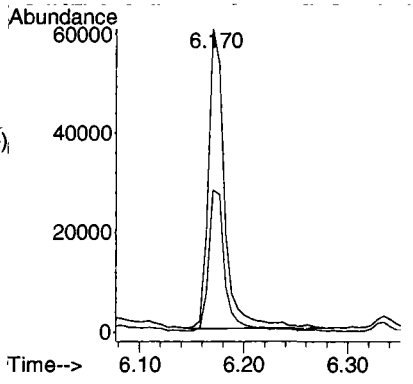


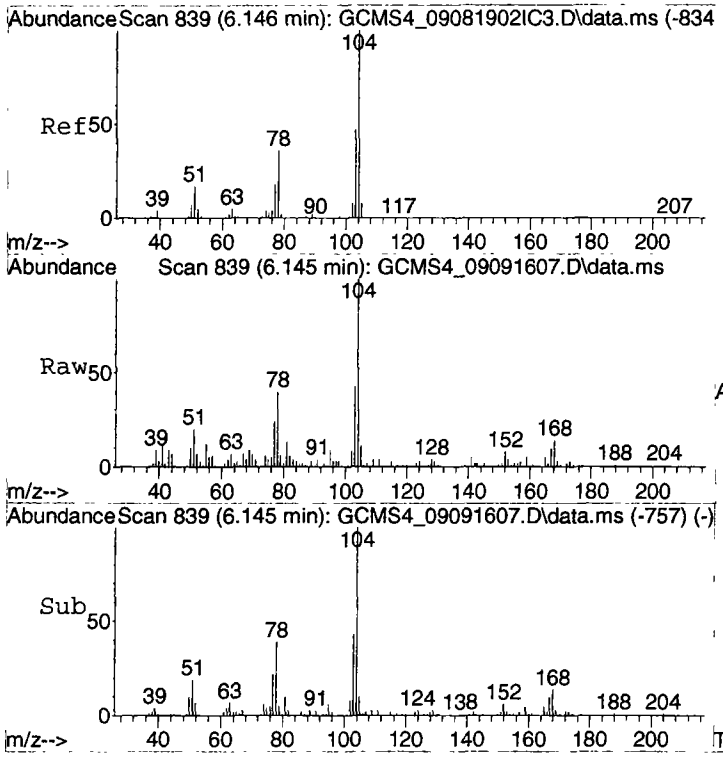


#48
o-Xylene
Concen: 22.84 ng
RT: 6.175 min Scan# 844
Delta R.T. -0.001 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 651743

Ion	Ratio	Lower	Upper
91	100		
106	44.7	29.4	61.2

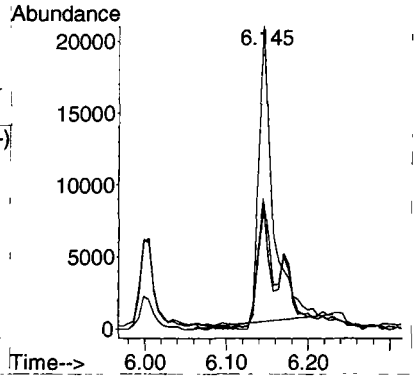


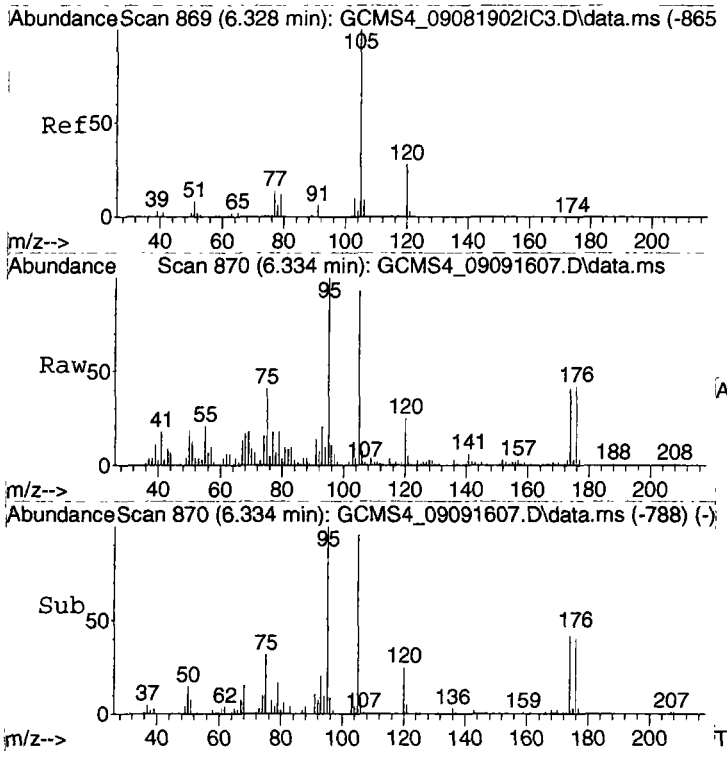


#49
Styrene
Concen: 8.35 ng
RT: 6.148 min Scan# 839
Delta R.T. 0.001 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:104 Resp: 234754

Ion	Ratio	Lower	Upper
104	100		
103	40.8	28.0	58.1
78	32.6	29.4	61.2

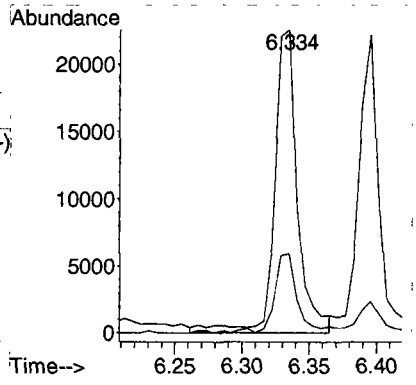


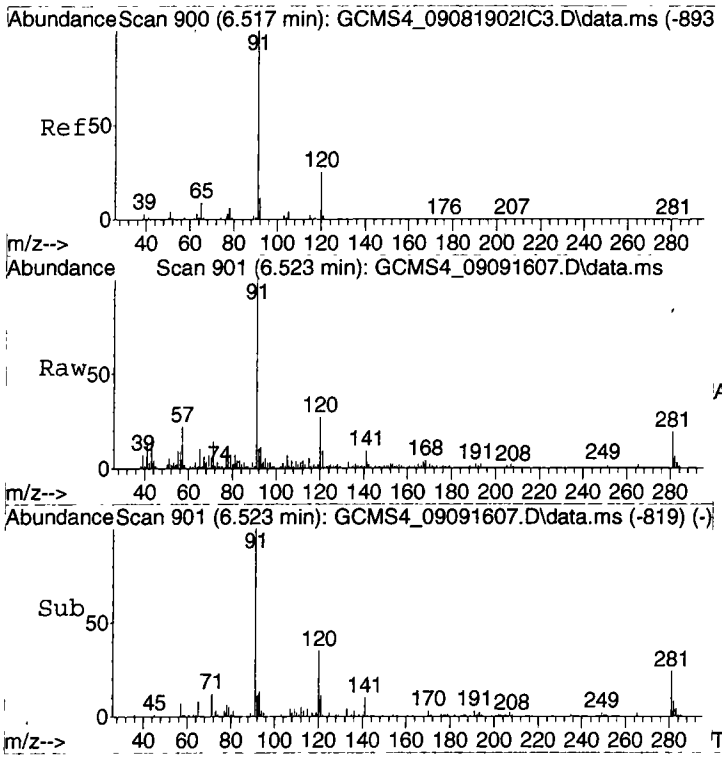


#51
Isopropylbenzene
Concen: 6.98 ng m
RT: 6.334 min Scan# 870
Delta R.T. -0.001 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:105 Resp: 270001

Ion	Ratio	Lower	Upper
105	100		
120	132.4	16.3	33.8#

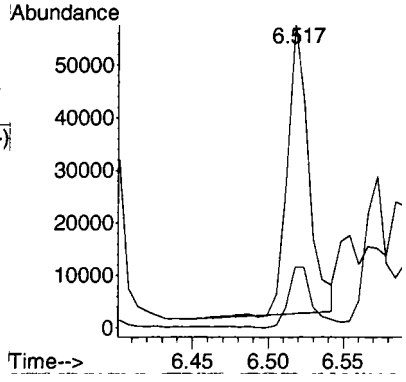


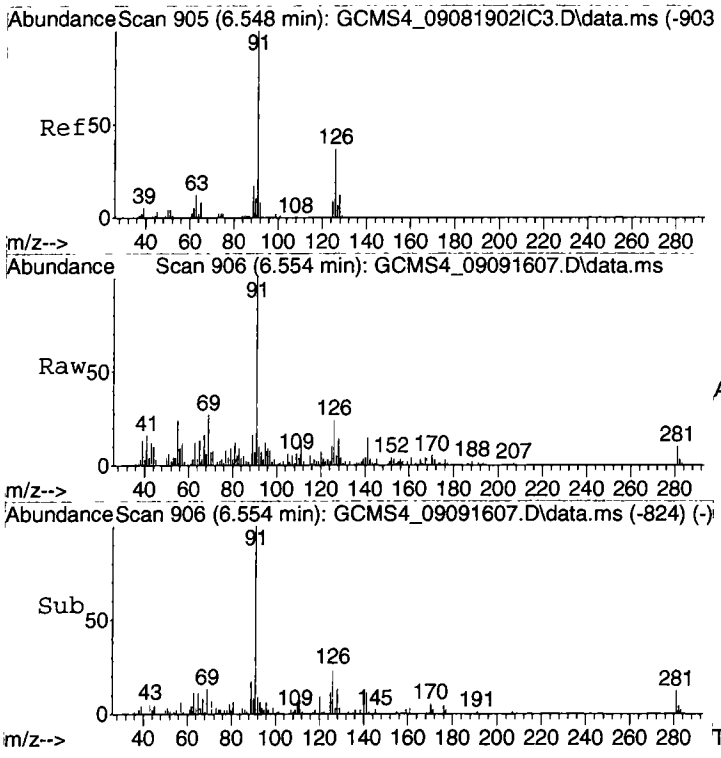


#56
n-Propylbenzene
Concen: 12.80 ng
RT: 6.521 min Scan# 901
Delta R.T. -0.001 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 530653

Ion	Ratio	Lower	Upper
91	100		
120	0.0	16.3	33.8#

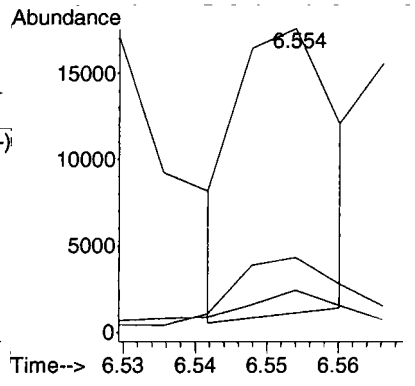


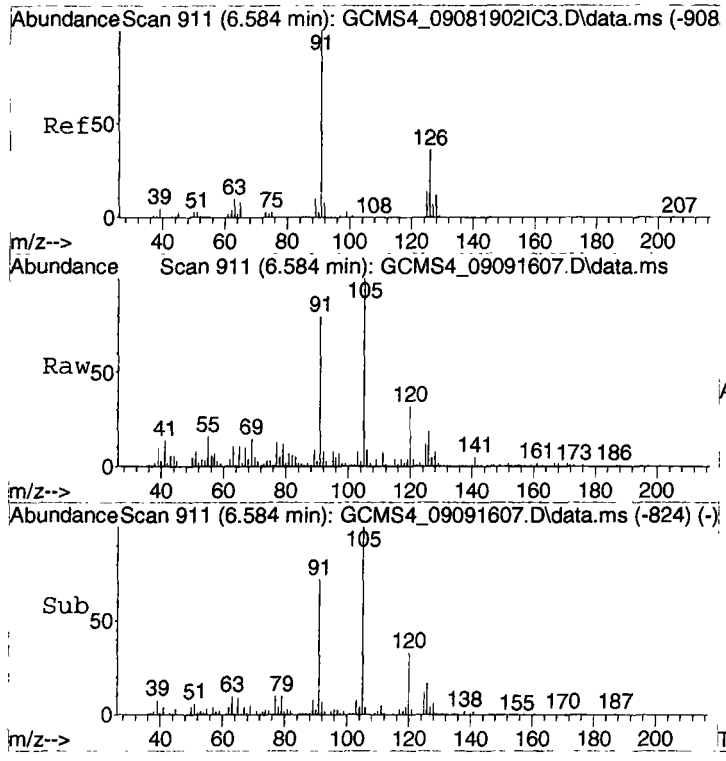


#57
2-Chlorotoluene
Concen: 5.05 ng m
RT: 6.554 min Scan# 906
Delta R.T. -0.001 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 127198

Ion	Ratio	Lower	Upper
91	100		
126	37.3	19.9	41.3
128	0.0	5.5	14.5#

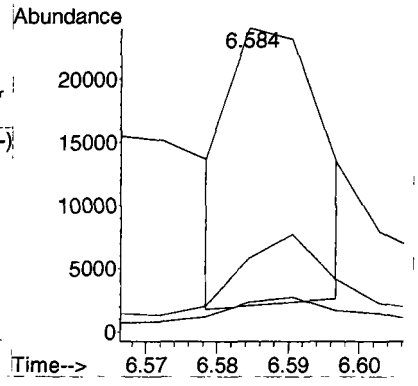


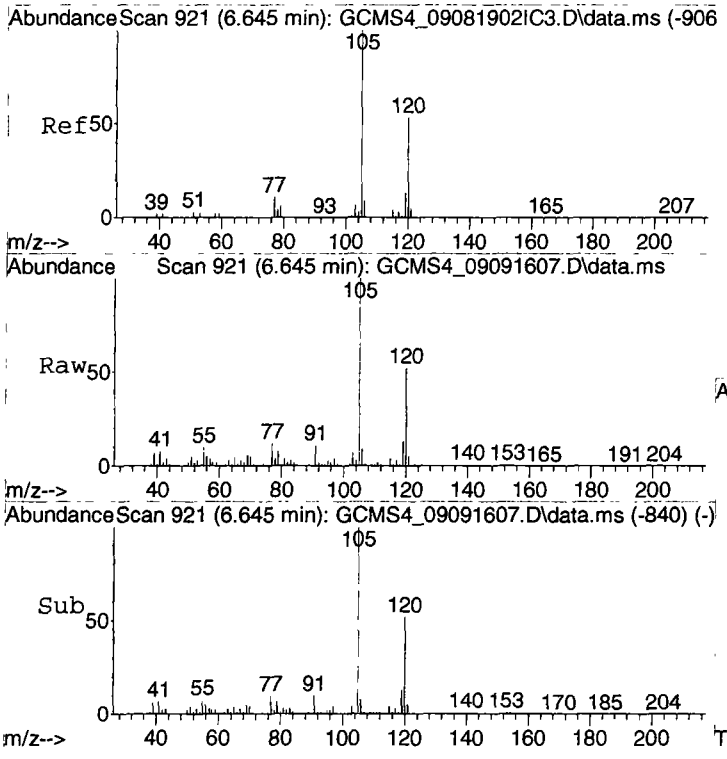


#58
4-Chlorotoluene
Concen: 6.91 ng m
RT: 6.584 min Scan# 911
Delta R.T. 0.030 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 174178

Ion	Ratio	Lower	Upper
91	100		
126	27.3	18.5	38.3
128	0.0	5.5	14.5#

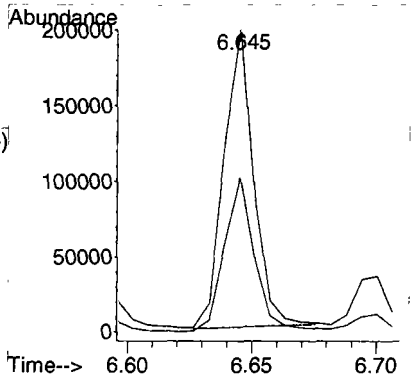


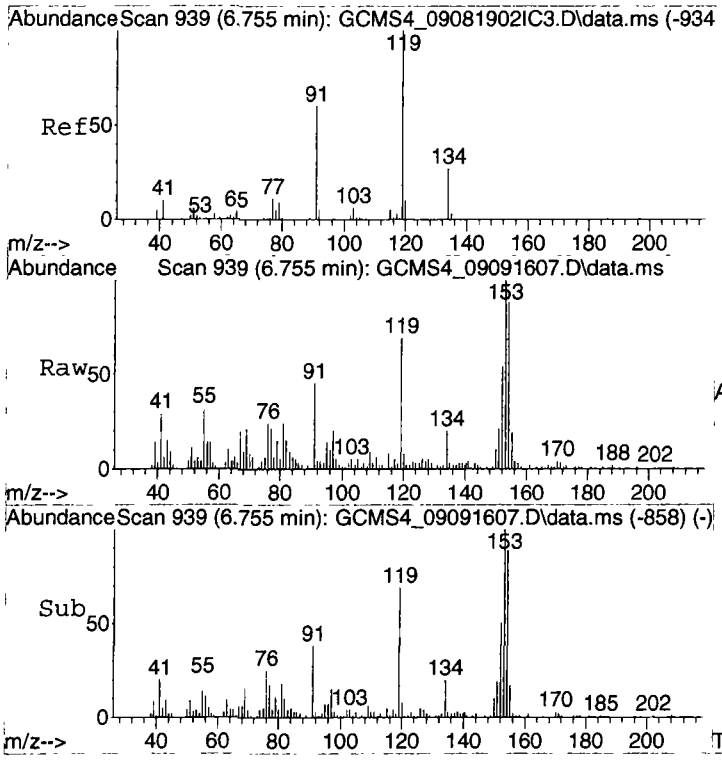


#59
1,3,5-Trimethylbenzene
Concen: 54.37 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:105 Resp: 1611373

Ion	Ratio	Lower	Upper
105	100		
120	54.4	28.7	59.7

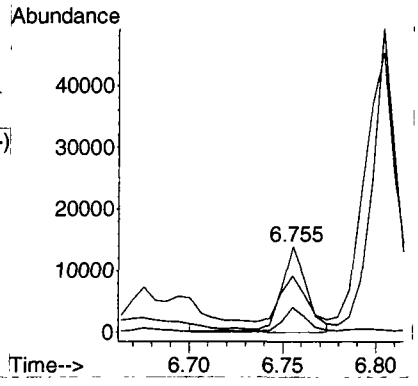


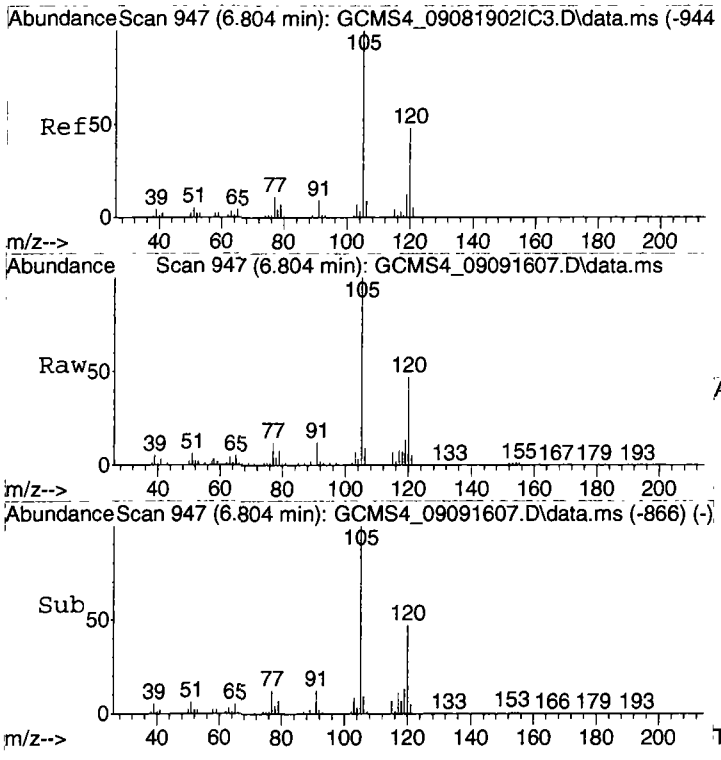


#60
tert-Butylbenzene
Concen: 5.58 ng m
RT: 6.755 min Scan# 939
Delta R.T. -0.005 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:119 Resp: 145705

Ion	Ratio	Lower	Upper
119	100		
91	411.9	46.4	96.4#
134	222.9	16.8	34.8#

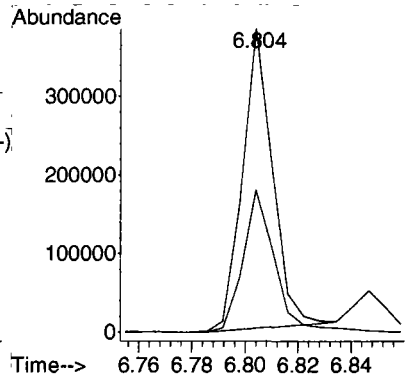


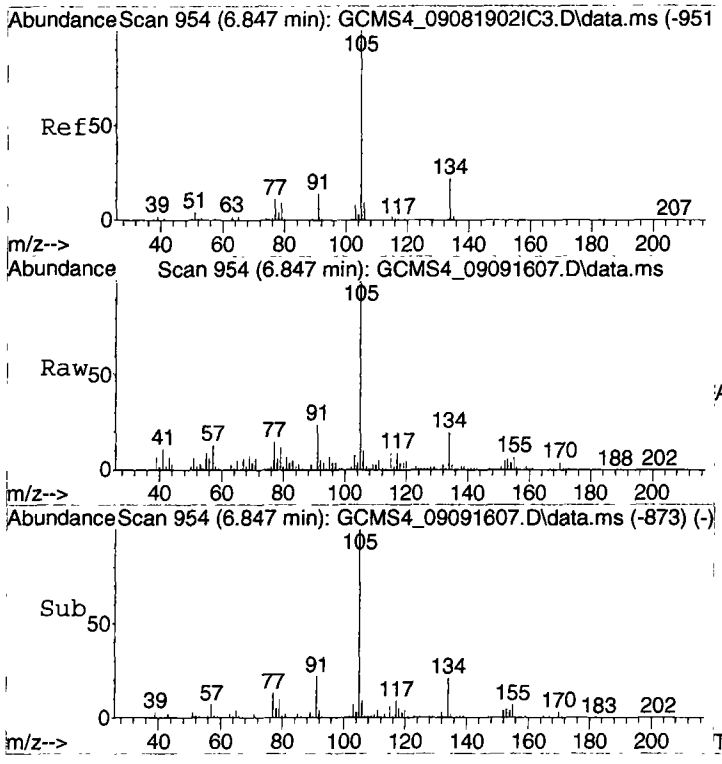


#61
1,2,4-Trimethylbenzene
Concen: 101.05 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.003 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:105 Resp: 2913006

Ion	Ratio	Lower	Upper
105	100		
120	52.0	29.3	60.8

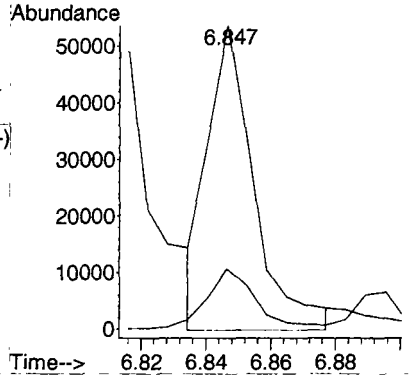


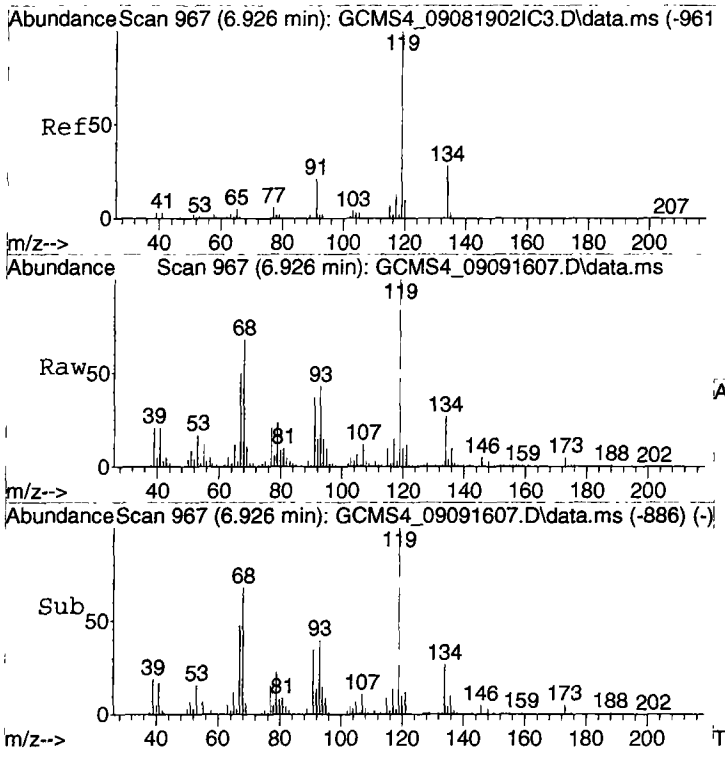


#62
sec-Butylbenzene
Concen: 13.51 ng m
RT: 6.847 min Scan# 954
Delta R.T. -0.005 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:105 Resp: 526442

Ion	Ratio	Lower	Upper
105	100		
134	0.0	12.7	26.3#

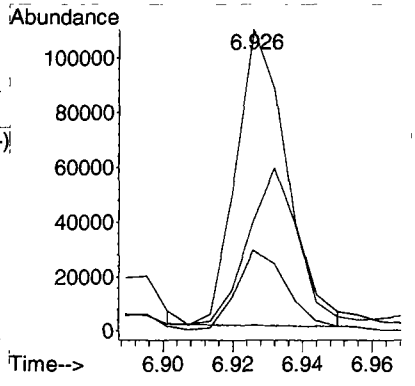


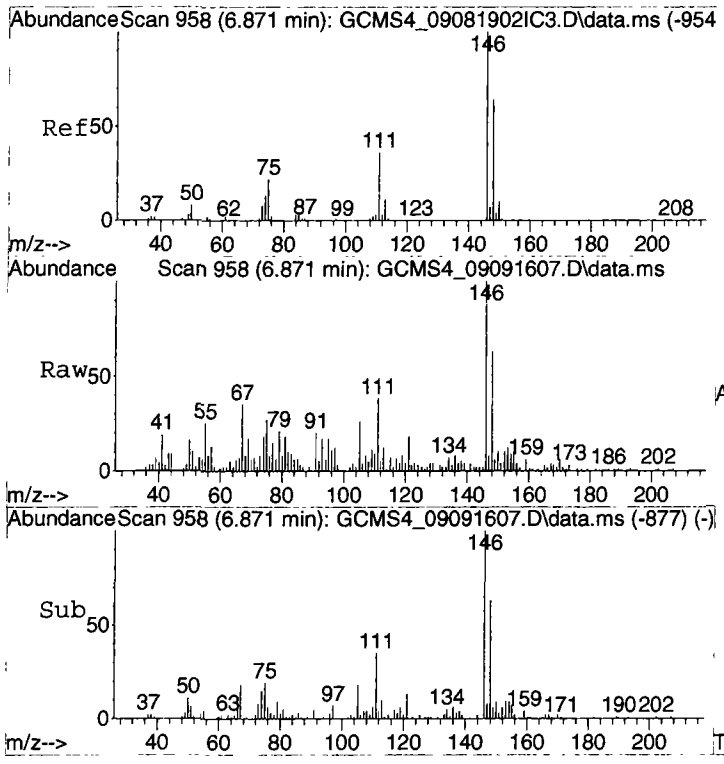


#63
p-Isopropyltoluene
Concen: 33.57 ng m
RT: 6.926 min Scan# 967
Delta R.T. -0.005 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:119 Resp: 1073674

Ion	Ratio	Lower	Upper
119	100		
91	18.9	16.3	33.8
134	27.2	18.9	39.1

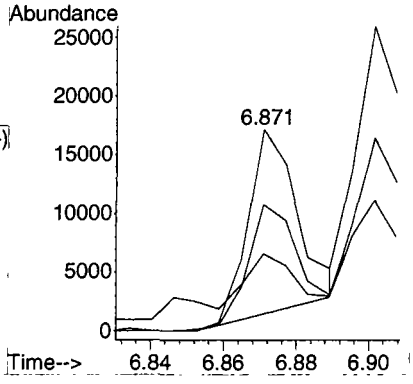


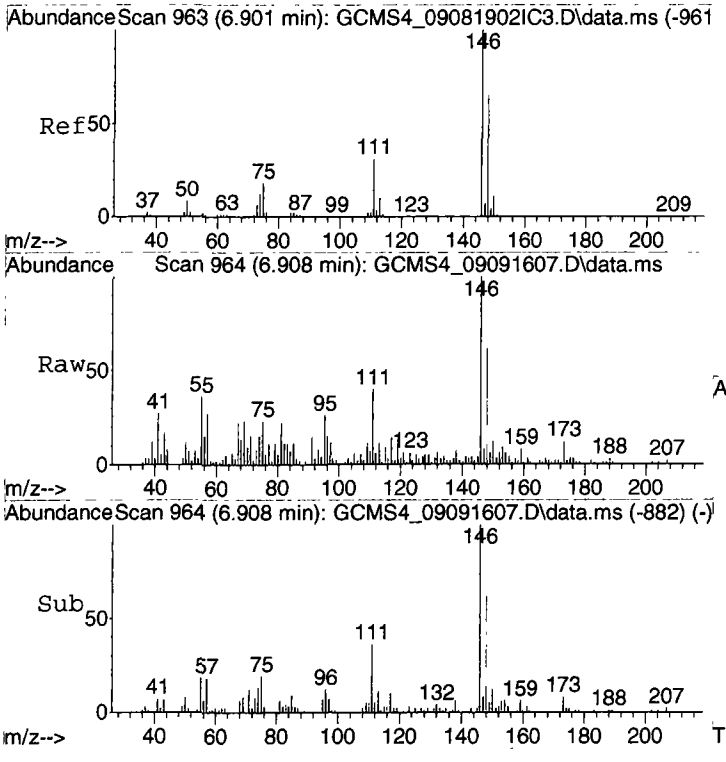


#64
1,3-Dichlorobenzene
Concen: 8.40 ng m
RT: 6.871 min Scan# 958
Delta R.T. -0.006 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:146 Resp: 129702

Ion	Ratio	Lower	Upper
146	100		
148	105.6	41.2	85.6#
111	63.1	25.9	53.9#

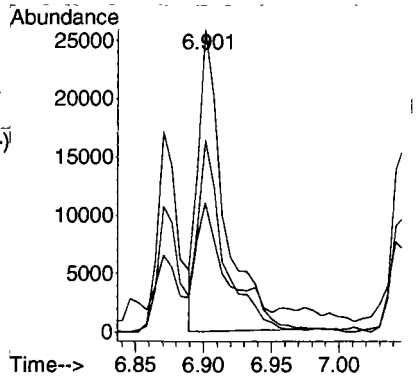


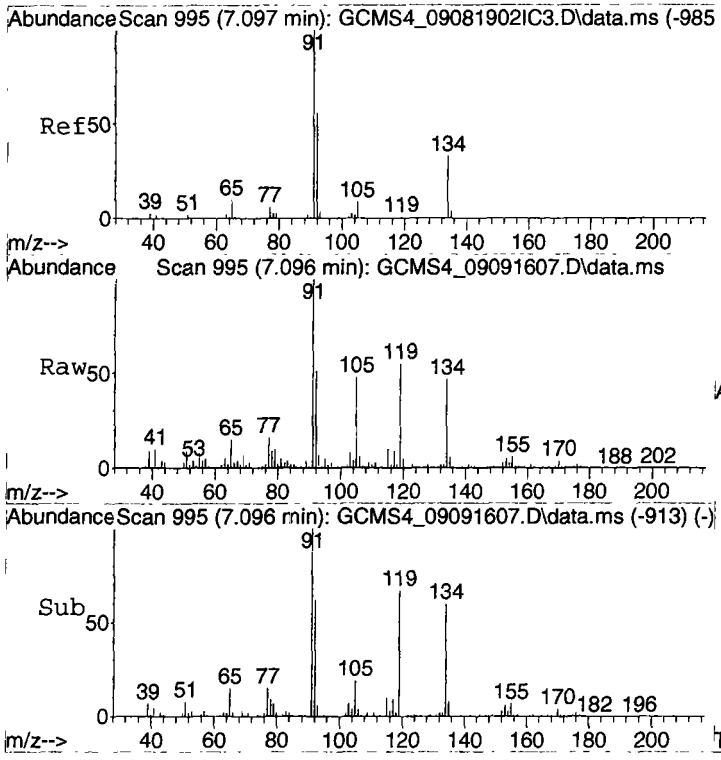


#65
1,4-Dichlorobenzene
Concen: 20.01 ng
RT: 6.905 min Scan# 964
Delta R.T. -0.000 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:146 Resp: 361263

Ion	Ratio	Lower	Upper
146	100		
148	64.6	39.1	81.1
111	51.7	26.7	55.4

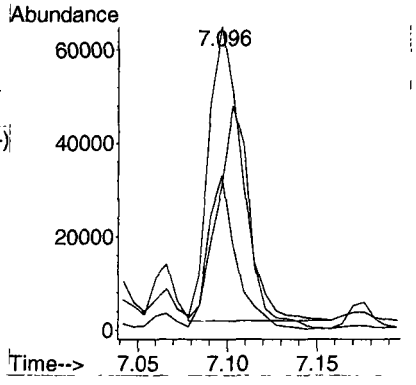


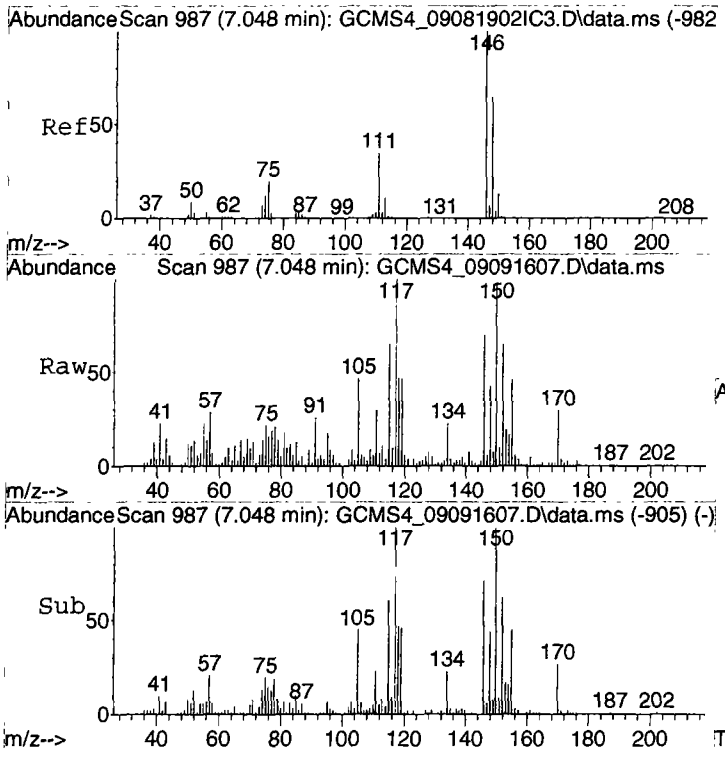


#67
n-Butylbenzene
Concen: 25.04 ng
RT: 7.099 min Scan# 995
Delta R.T. 0.000 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion: 91 Resp: 808804

Ion	Ratio	Lower	Upper
91	100		
134	75.5	18.3	38.1#
92	44.3	34.1	70.7

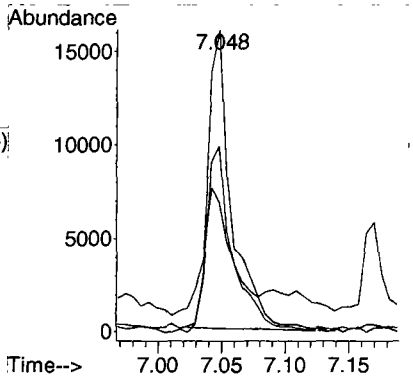


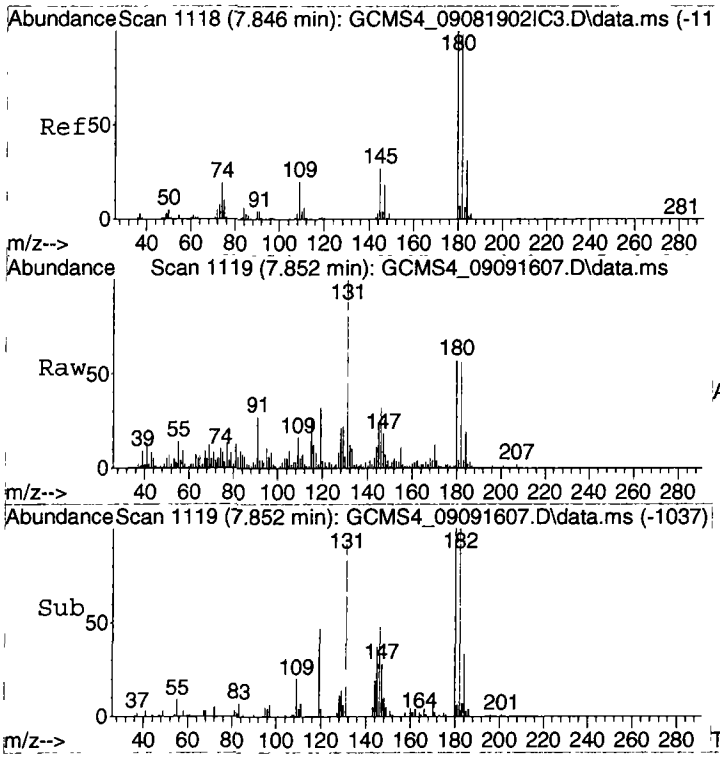


#68
1,2-Dichlorobenzene
Concen: 9.08 ng
RT: 7.048 min Scan# 987
Delta R.T. -0.001 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:146 Resp: 206367

Ion	Ratio	Lower	Upper
146	100		
148	65.9	42.6	88.4
111	39.4	30.6	63.6

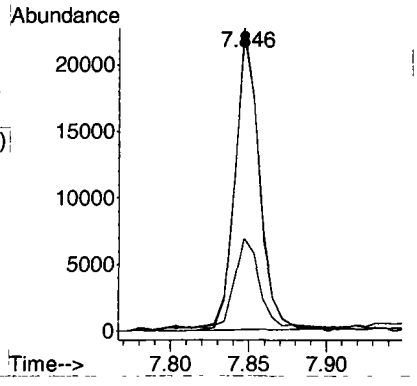


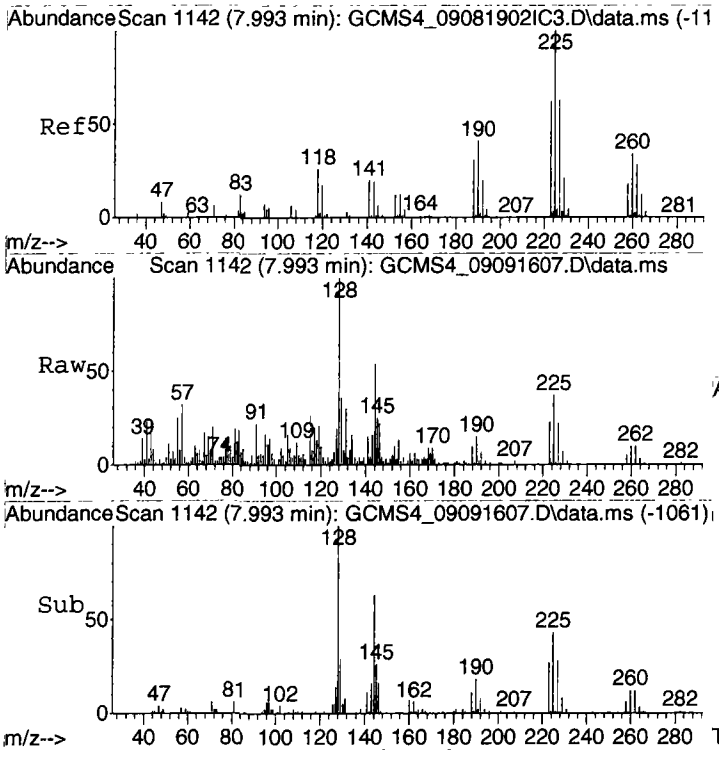


#70
1,2,4-Trichlorobenzene
Concen: 16.41 ng
RT: 7.850 min Scan# 1119
Delta R.T. -0.002 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:180 Resp: 237959

Ion	Ratio	Lower	Upper
180	100		
182	97.8	59.8	124.2
184	36.4	18.3	37.9

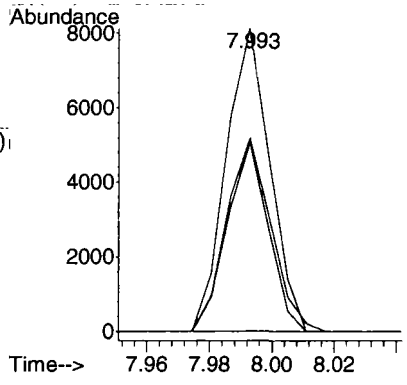


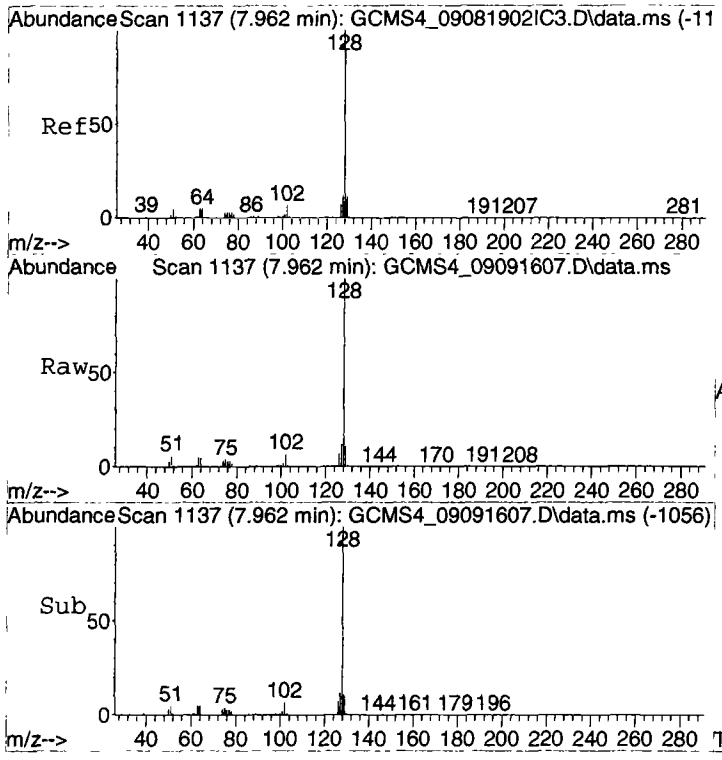


#71
Hexachlorobutadiene
Concen: 9.02 ng
RT: 7.994 min Scan# 1142
Delta R.T. -0.002 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:225 Resp: 78457

Ion	Ratio	Lower	Upper
225	100		
227	65.1	42.9	89.1
223	58.6	42.9	89.1

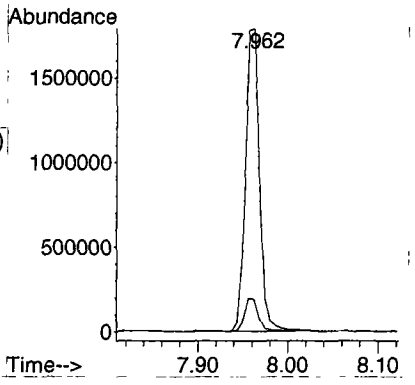


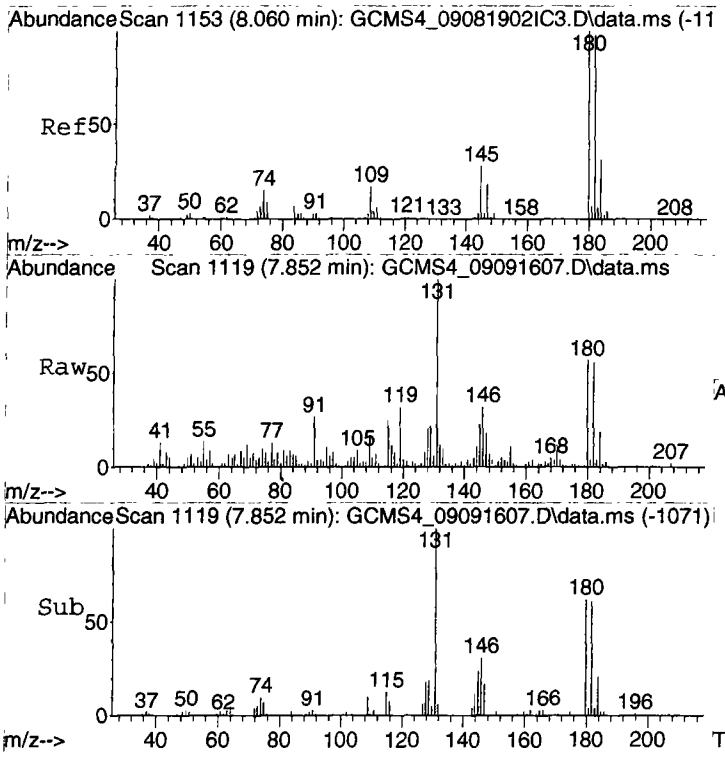


#72
Naphthalene
Concen: 511.41 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4 09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:128 Resp:19512967

Ion	Ratio	Lower	Upper
128	100		
129	11.4	6.7	13.9

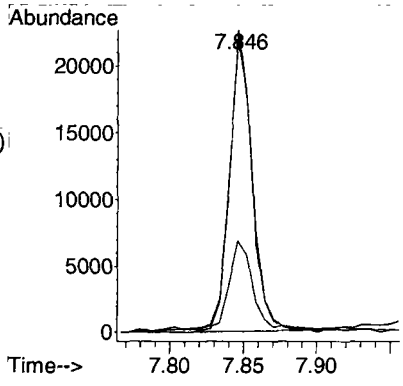




#73
1,2,3-Trichlorobenzene
Concen: 16.54 ng
RT: 7.850 min Scan# 1119
Delta R.T. -0.211 min
Lab File: GCMS4_09091607.D
Acq: 16 Sep 2009 11:04

Tgt Ion:180 Resp: 238928

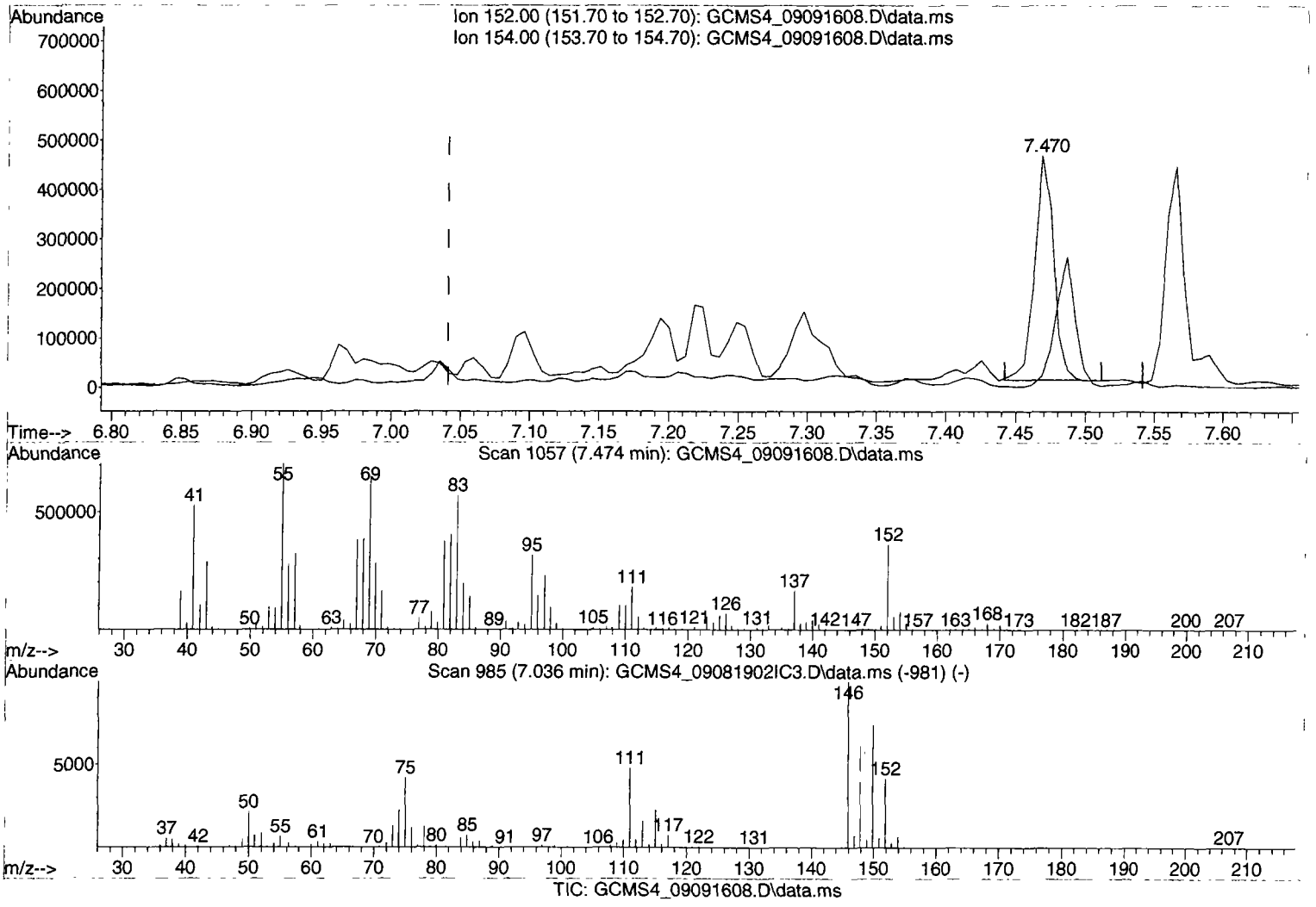
Ion	Ratio	Lower	Upper
180	100		
182	97.4	59.9	124.5
184	36.4	19.6	40.6



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091608.D
Acq On : 16 Sep 2009 11:25
Operator : CTANG
Sample : 0909006-01
Misc : 0909006-01, T27-150-1.0-3.0, 5.8986 G
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 11:30:41 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.472min (+0.431) 50.00ng

response 4227702

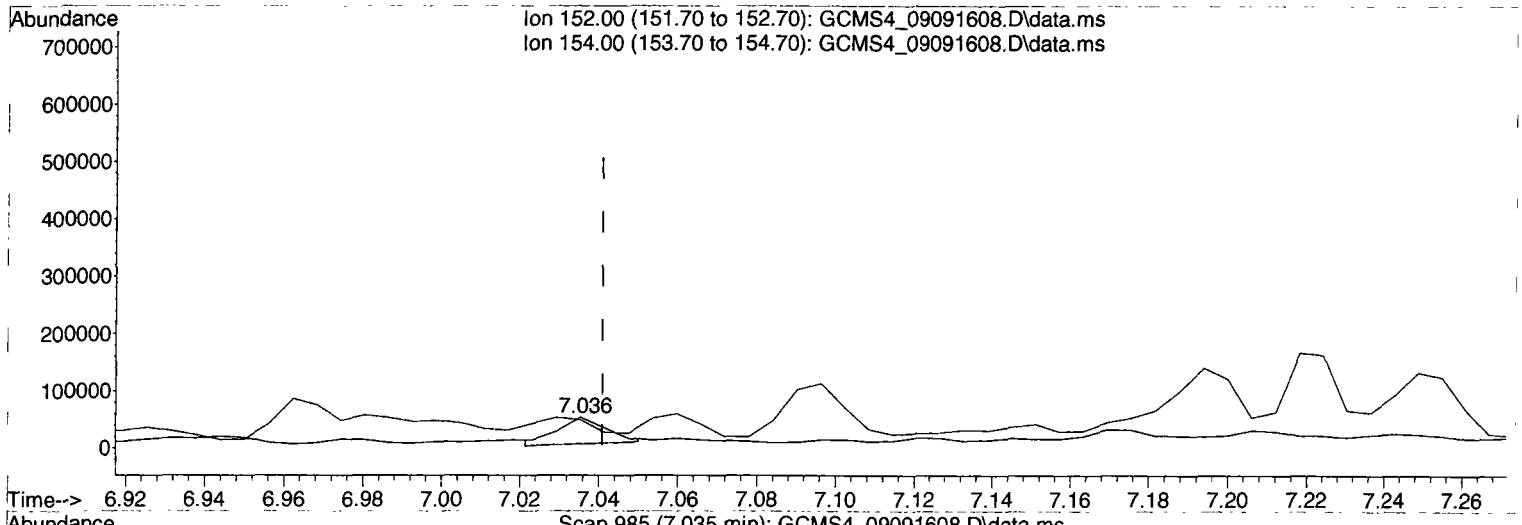
Ion	Exp%	Act%
152.00	100	100
154.00	16.80	60.59#
0.00	0.00	0.00
0.00	0.00	0.00

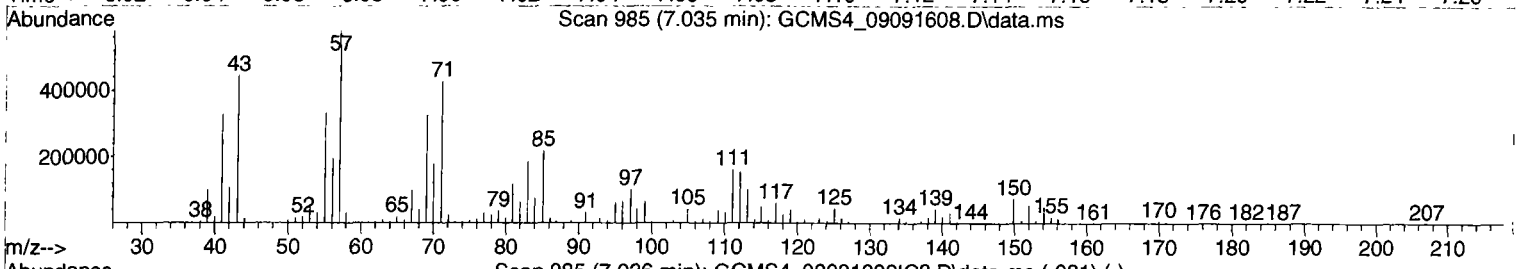
before PS
CMY 11/24/09

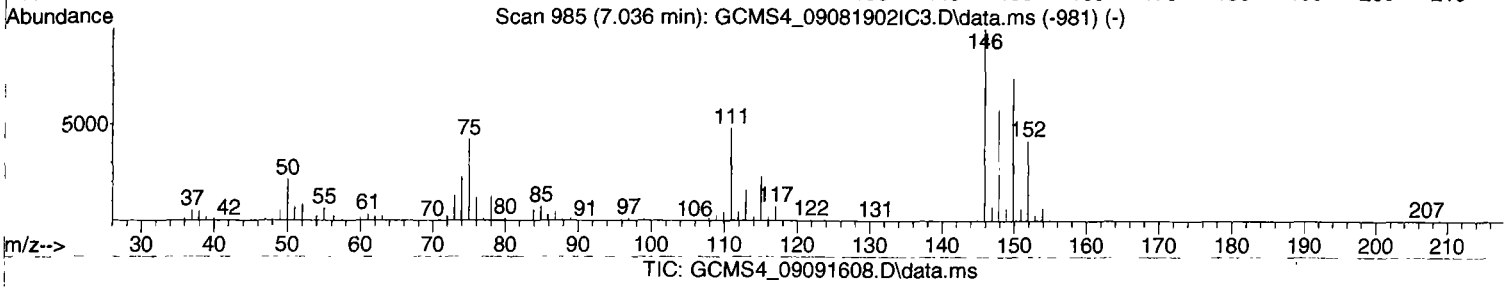
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091608.D
Acq On : 16 Sep 2009 11:25
Operator : CTANG
Sample : 0909006-01
Misc : 0909006-01, T27-150-1.0-3.0, 5.8986 G
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 11:30:41 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







TIC: GCMS4_09091608.D\data.ms

(66) 1,2-DICHLOROBENZENE-D4 (I)

7.035min (-0.005) 50.00ng m

response 400092

Ion	Exp%	Act%
152.00	100	100
154.00	16.80	640.26#
0.00	0.00	0.00
0.00	0.00	0.00

after
EMY 11/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091608.D
Acq On : 16 Sep 2009 11:25
Operator : CTANG
Sample : 0909006-01
Misc : 0909006-01, T27-150-1.0-3.0, 5.8986 G
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 25 12:30:34 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

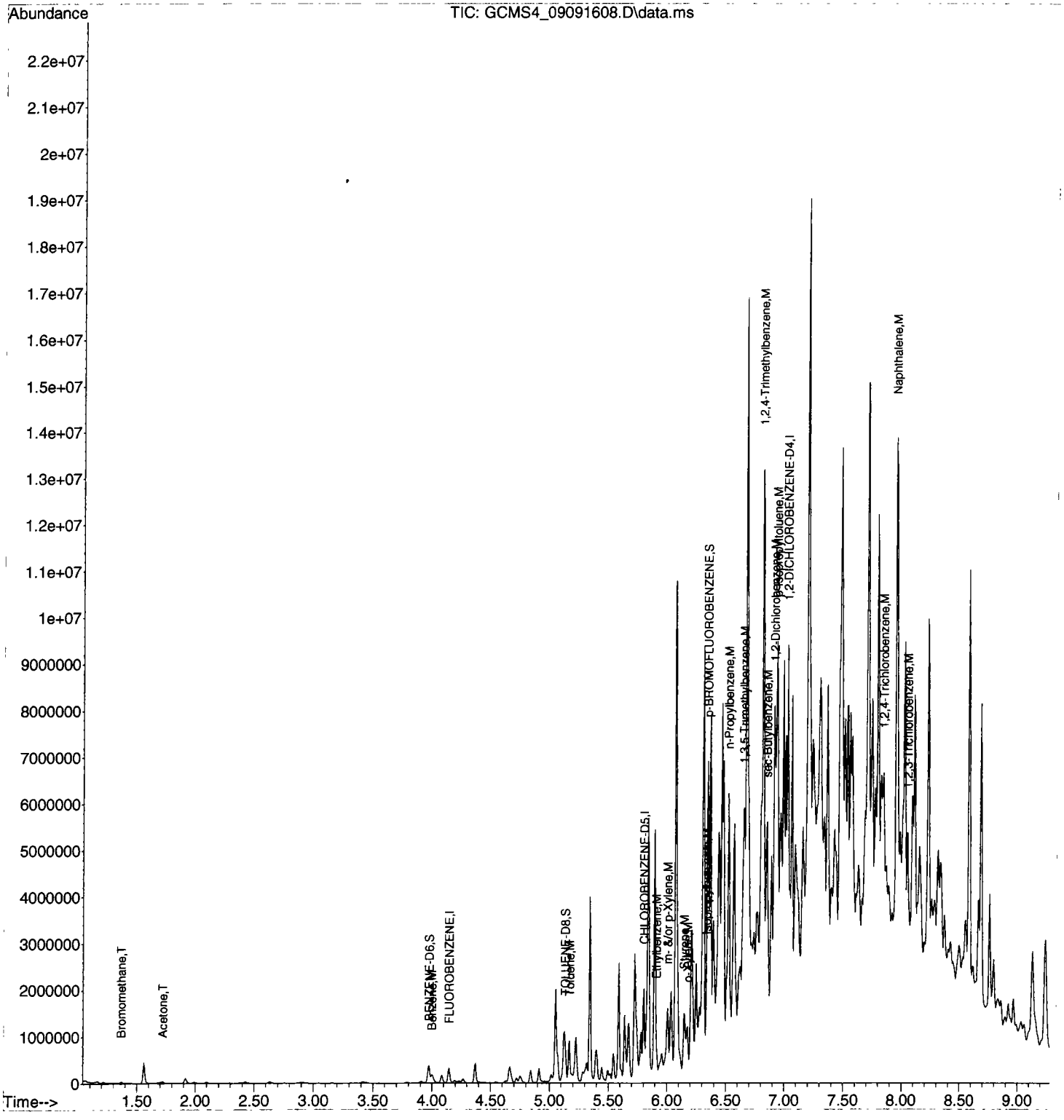
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	1954012	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	646331	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.035	152	400092m	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	1916116	42.04 ng		0.00
34) TOLUENE-D8	5.137	98	1694111	46.74 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	622801	63.63 ng		0.00
Target Compounds						Qvalue
5) Bromomethane	1.370	94	125994	34.58 ng		90
10) Acetone	1.719	43	325217m	99.22 ng		
26) Benzene	4.004	78	932329	23.39 ng		99
35) Toluene	5.171	91	3612922	84.28 ng		98
46) Ethylbenzene	5.916	91	1159491	33.90 ng		100
47) m- &/or p-Xylene	6.003	91	2261762	96.39 ng		100
48) o-Xylene	6.173	91	1318326	53.58 ng		92
49) Styrene	6.145	104	889812	36.72 ng		83
51) Isopropylbenzene	6.328	105	776504m	23.29 ng		
56) n-Propylbenzene	6.517	91	757599m	21.19 ng		
59) 1,3,5-Trimethylbenzene	6.646	105	3625679	141.90 ng		90
61) 1,2,4-Trimethylbenzene	6.806	105	6727460	270.69 ng		95
62) sec-Butylbenzene	6.846	105	714844m	21.28 ng		
63) p-Isopropyltoluene	6.928	119	3672085	133.19 ng		92
~~68) 1,2-Dichlorobenzene~~	~~6.905~~	~~146~~	~~165486~~	~~12.16 ng~~	~~#~~	~~1~~
~~70) 1,2,4-Trichlorobenzene~~	~~7.851~~	~~180~~	~~100709~~	~~11.61 ng~~	~~#~~	~~1~~
72) Naphthalene	7.961	128	54365189	2380.23 ng		97
73) 1,2,3-Trichlorobenzene	8.060	180	143122	16.55 ng	#	1

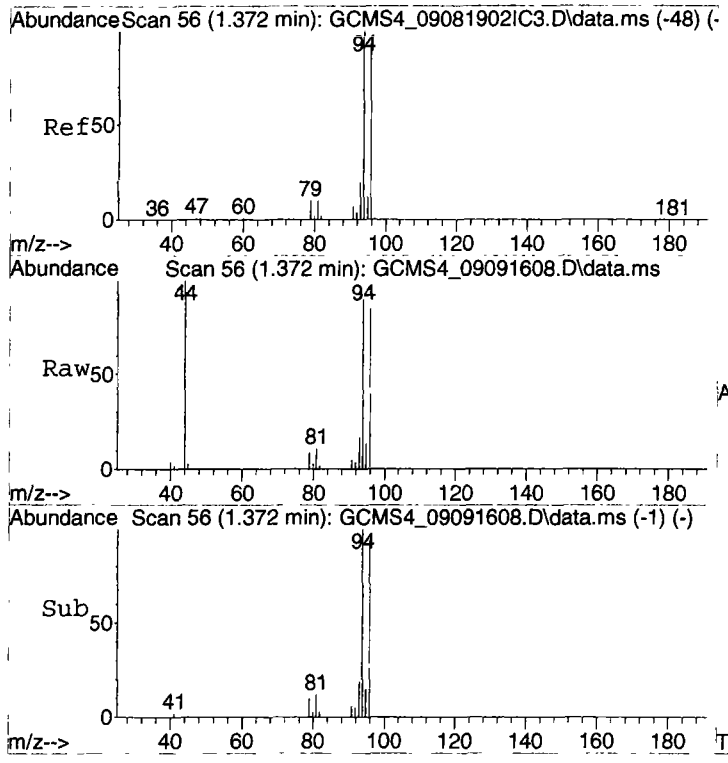
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091608.D
Acq On : 16 Sep 2009 11:25
Operator : CTANG
Sample : 0909006-01
Misc : 0909006-01, T27-150-1.0-3.0, 5.8986 G
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 25 12:30:34 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

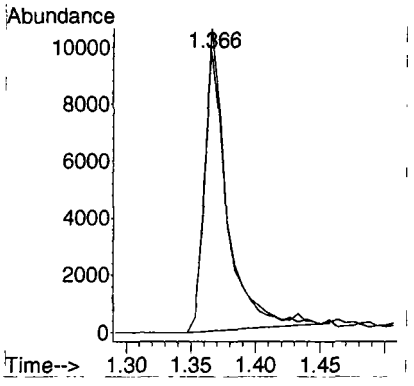


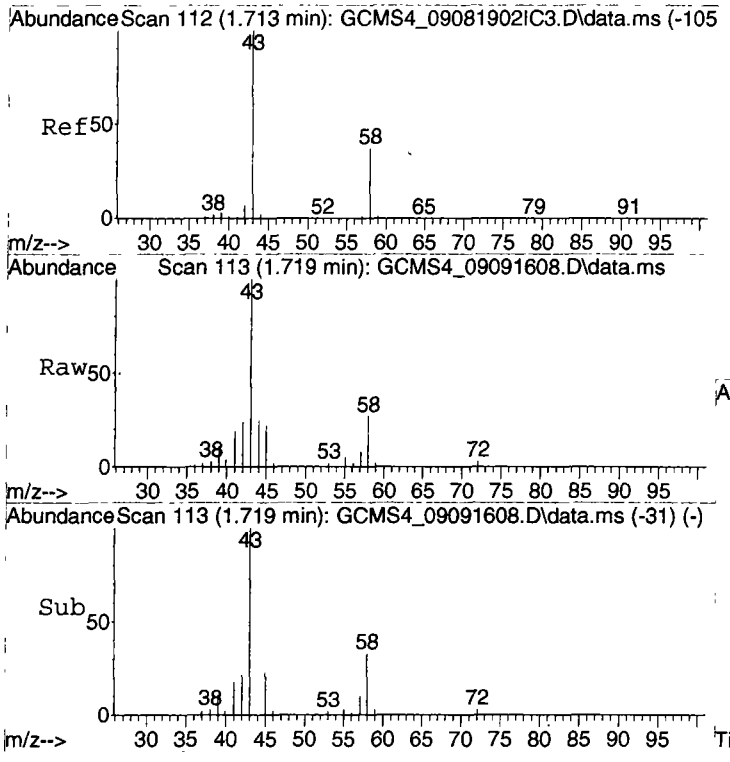


#5
Bromomethane
Concen: 34.58 ng
RT: 1.370 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 94 Resp: 125994

Ion	Ratio	Lower	Upper
94	100		
96	104.9	61.7	128.3

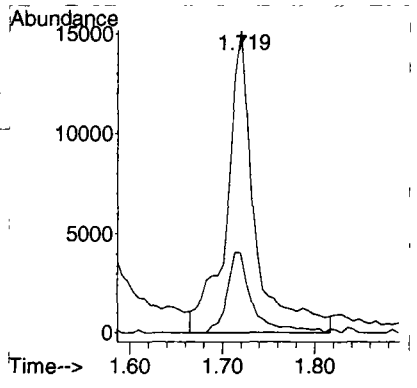


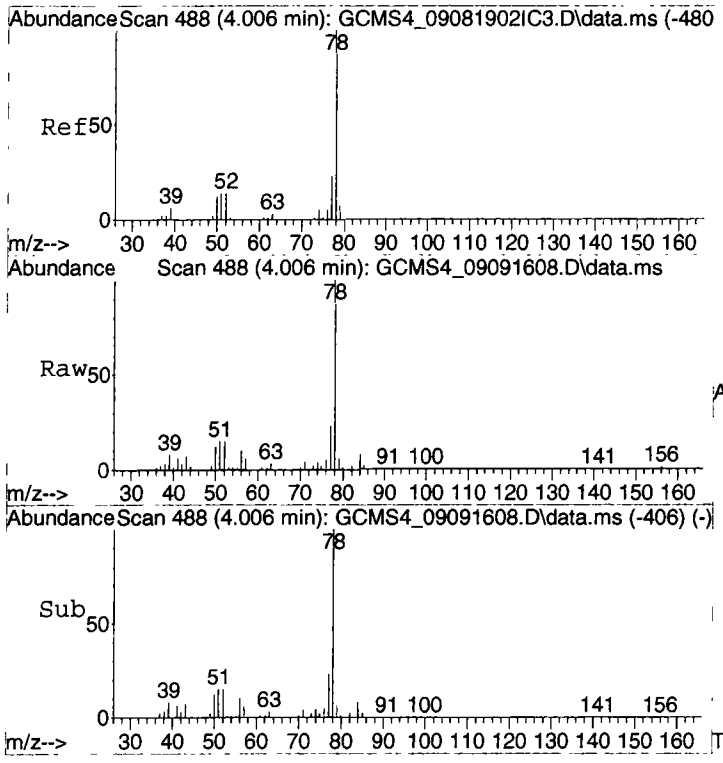


#10
Acetone
Concen: 99.22 ng m
RT: 1.719 min Scan# 113
Delta R.T. -0.000 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 43 Resp: 325217

Ion	Ratio	Lower	Upper
43	100		
58	11.3	19.5	40.5#

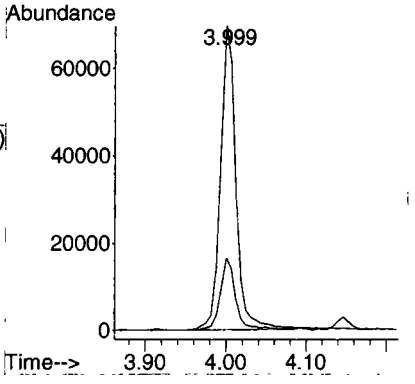


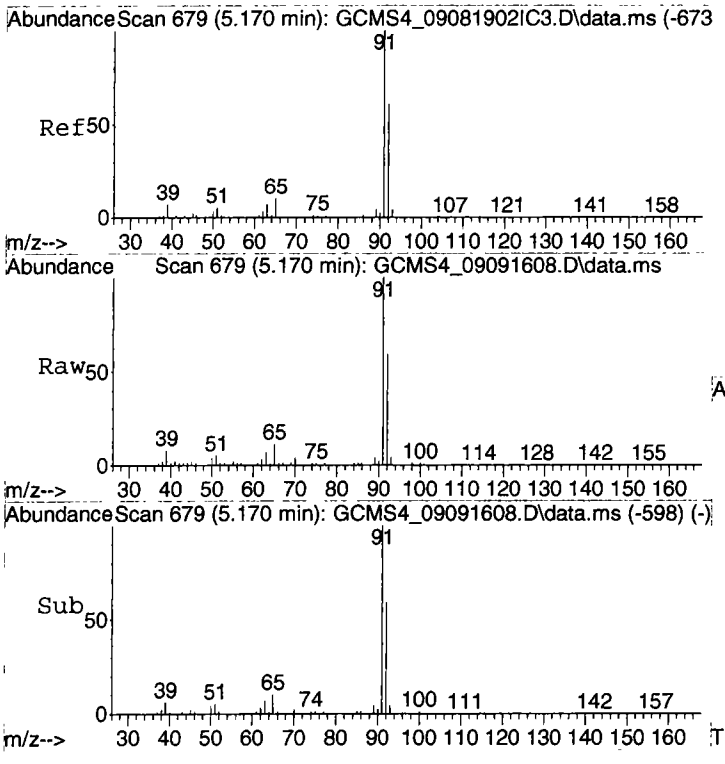


#26
Benzene
Concen: 23.39 ng
RT: 4.004 min Scan# 488
Delta R.T. -0.003 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 78 Resp: 932329

Ion	Ratio	Lower	Upper
78	100		
77	24.6	15.7	32.5

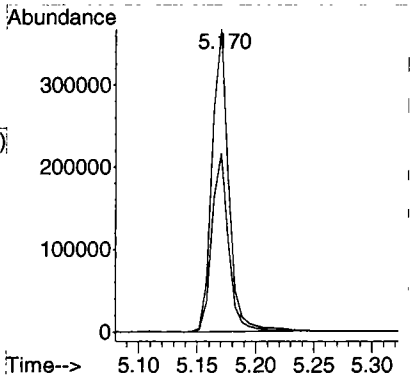


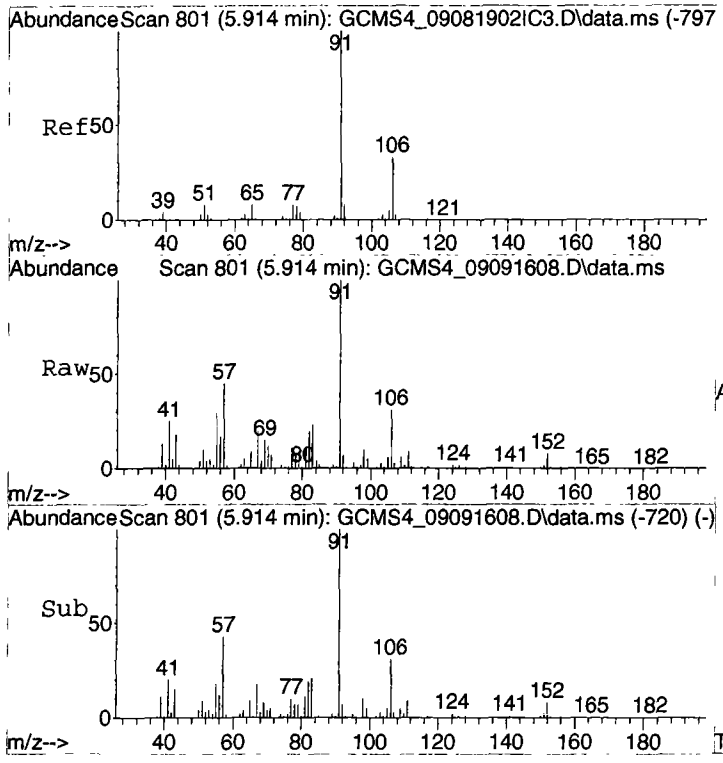


#35
Toluene
Concen: 84.28 ng
RT: 5.171 min Scan# 679
Delta R.T. -0.003 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 91 Resp: 3612922

Ion	Ratio	Lower	Upper
91	100		
92	59.4	39.5	81.9

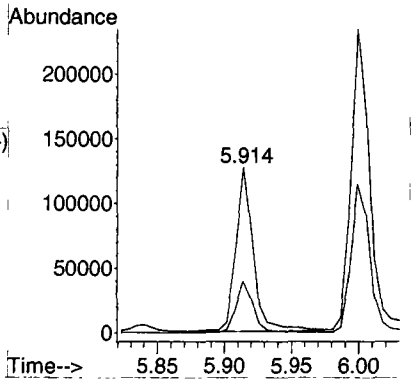


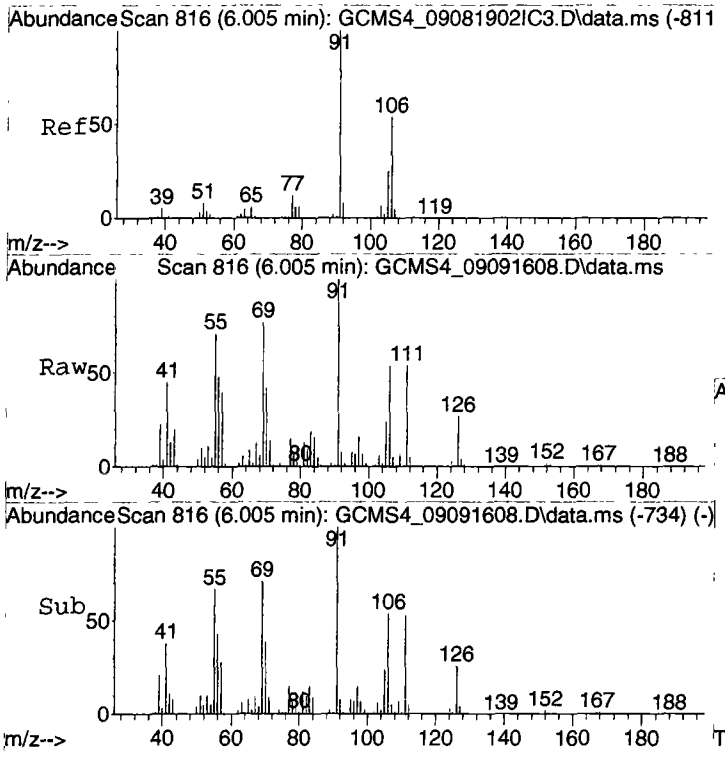


#46
Ethylbenzene
Concen: 33.90 ng
RT: 5.916 min Scan# 801
Delta R.T. -0.003 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 91 Resp: 1159491

Ion	Ratio	Lower	Upper
91	100		
106	30.6	20.0	41.6

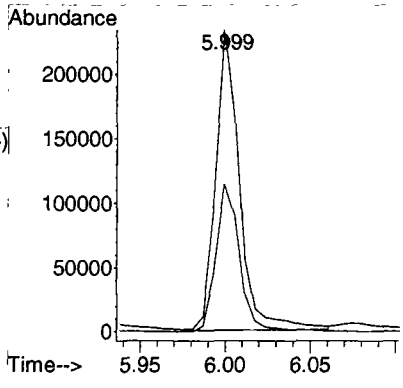


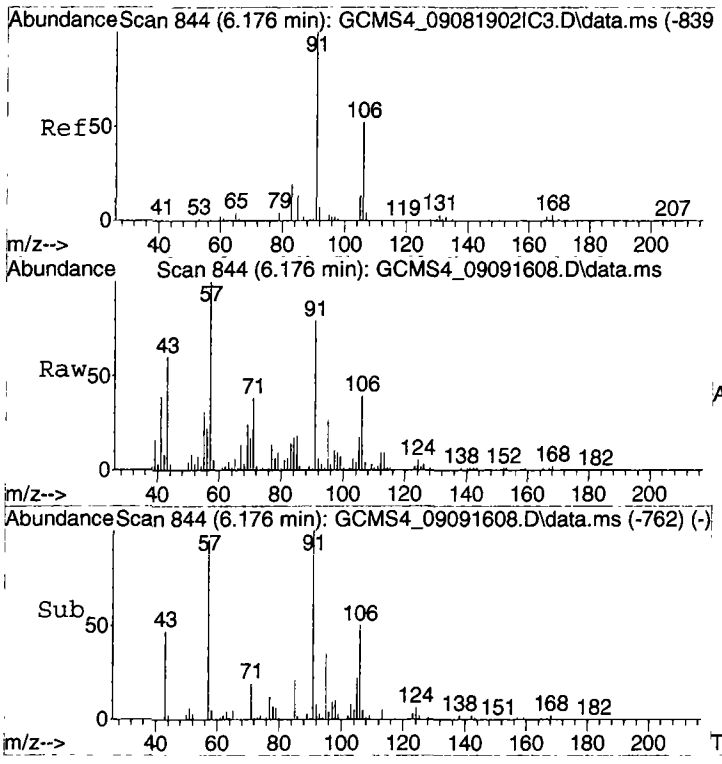


#47
m- &/or p-Xylene
Concen: 96.39 ng
RT: 6.003 min Scan# 816
Delta R.T. -0.004 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 91 Resp: 2261762

Ion	Ratio	Lower	Upper
91	100		
106	49.4	32.0	66.4

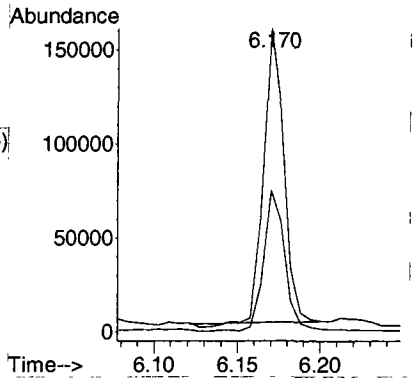


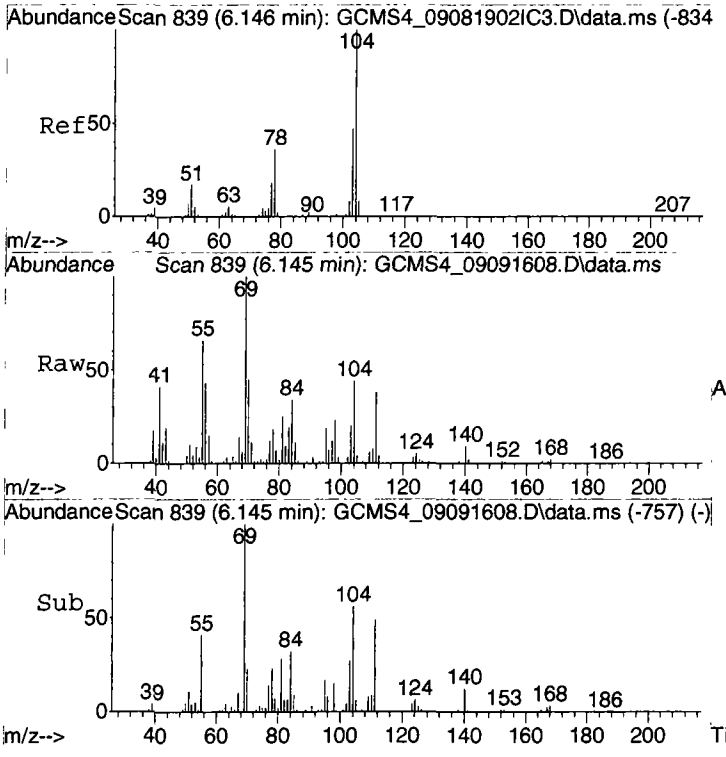


#48
o-Xylene
Concen: 53.58 ng
RT: 6.173 min Scan# 844
Delta R.T. -0.003 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 91 Resp: 1318326

Ion	Ratio	Lower	Upper
91	100		
106	50.3	29.4	61.2

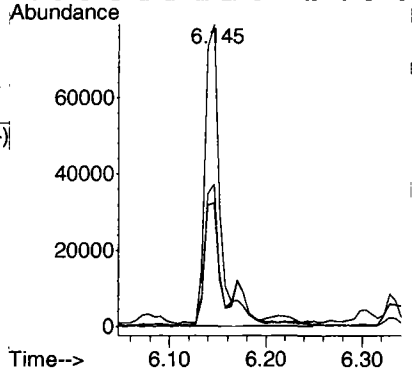


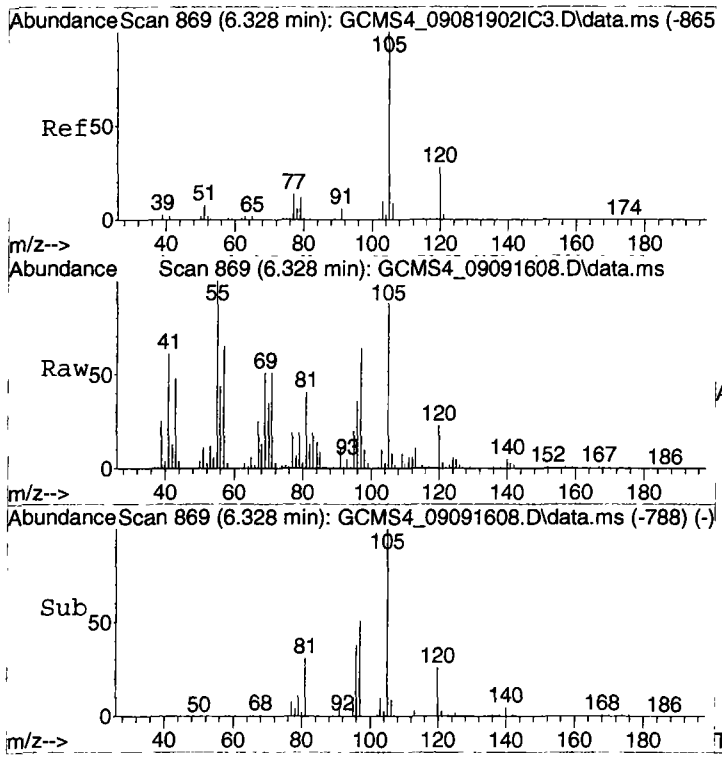


#49
Styrene
Concen: 36.72 ng
RT: 6.145 min Scan# 839
Delta R.T. -0.002 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:104 Resp: 889812

Ion	Ratio	Lower	Upper
104	100		
103	32.2	28.0	58.1
78	34.7	29.4	61.2

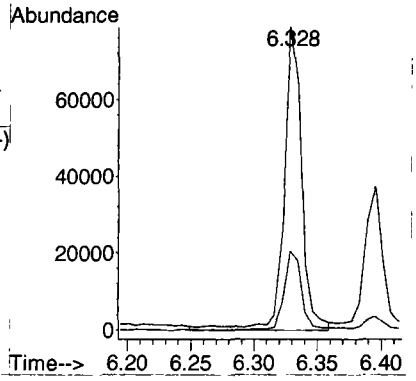


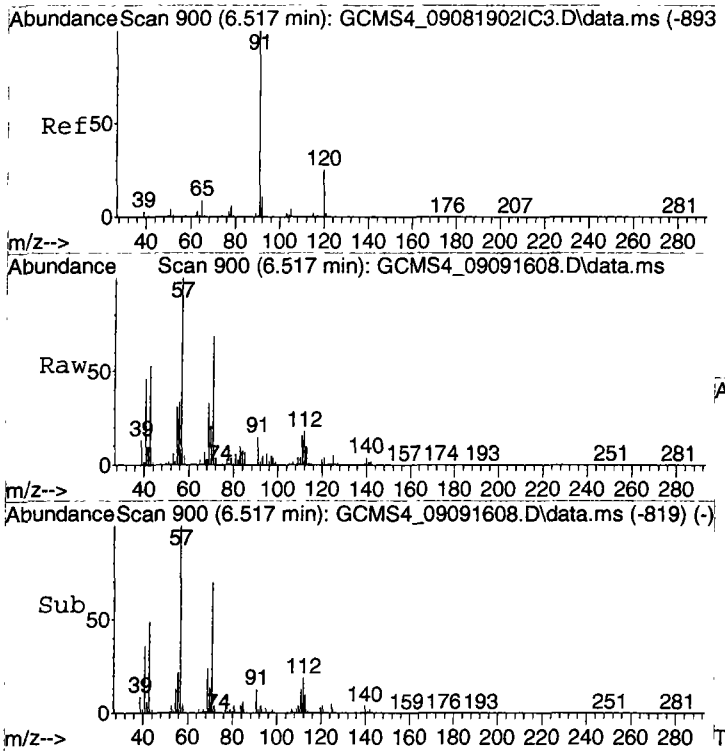


#51
Isopropylbenzene
Concen: 23.29 ng m
RT: 6.328 min Scan# 869
Delta R.T. -0.007 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:105 Resp: 776504

Ion	Ratio	Lower	Upper
105	100		
120	119.6	16.3	33.8#

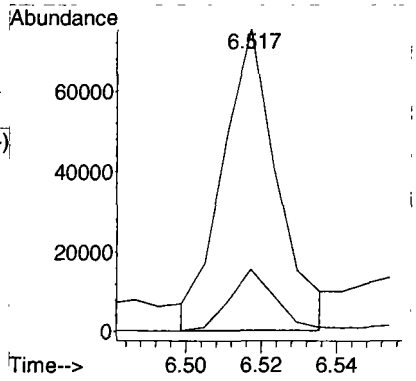


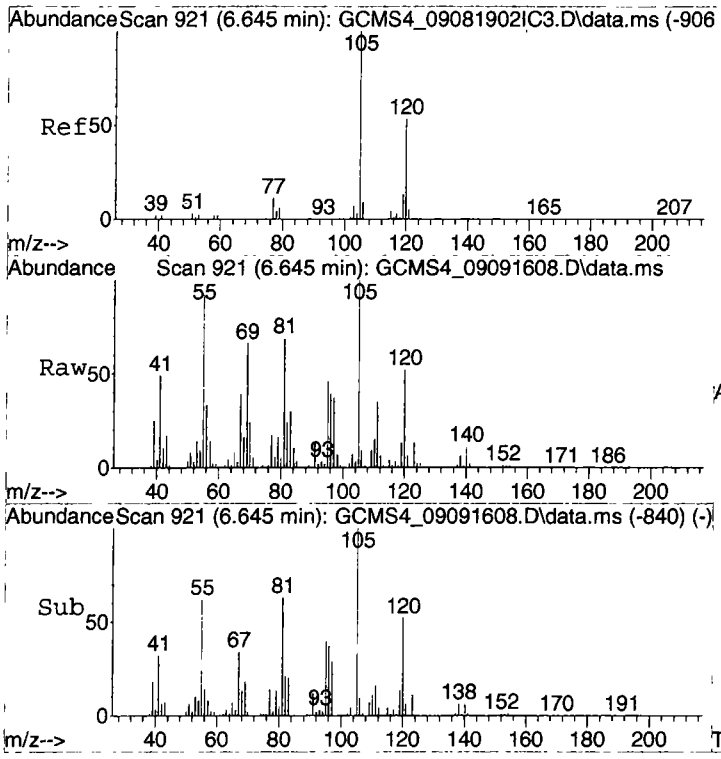


#56
n-Propylbenzene
Concen: 21.19 ng m
RT: 6.517 min Scan# 900
Delta R.T. -0.005 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion: 91 Resp: 757599

Ion	Ratio	Lower	Upper
91	100		
120	43.8	16.3	33.8#

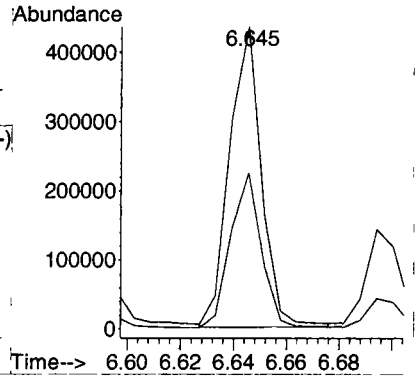


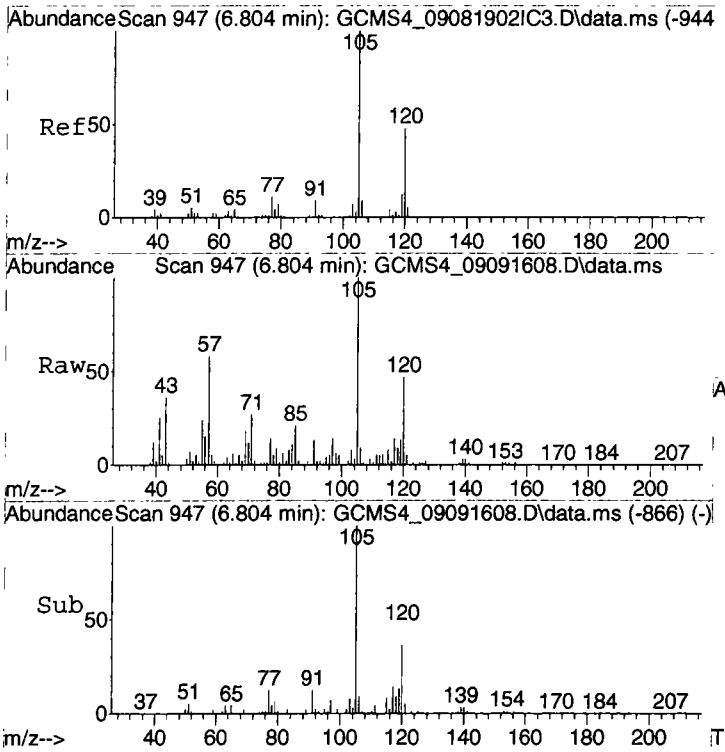


#59
1,3,5-Trimethylbenzene
Concen: 141.90 ng
RT: 6.646 min Scan# 921
Delta R.T. -0.003 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:105 Resp: 3625679

Ion	Ratio	Lower	Upper
105	100		
120	50.8	28.7	59.7

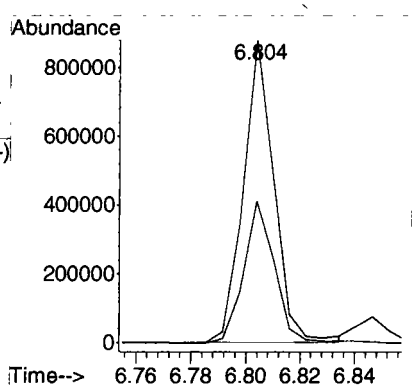


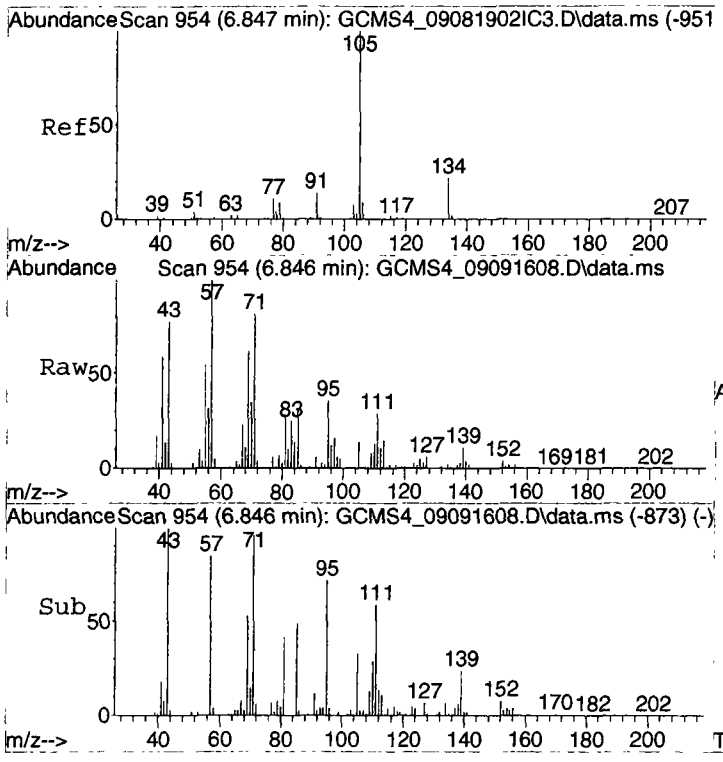


#61
1,2,4-Trimethylbenzene
Concen: 270.69 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.003 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:105 Resp: 6727460

Ion	Ratio	Lower	Upper
105	100		
120	48.5	29.3	60.8

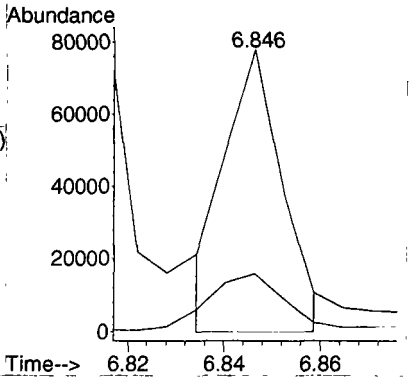


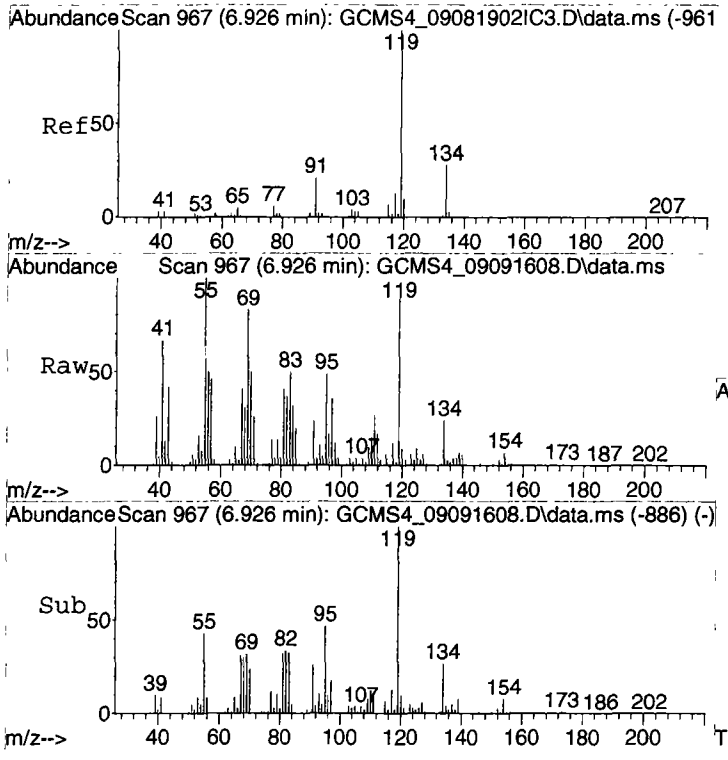


#62
sec-Butylbenzene
Concen: 21.28 ng m
RT: 6.846 min Scan# 954
Delta R.T. -0.005 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:105 Resp: 714844

Ion	Ratio	Lower	Upper
105	100		
134	81.3	12.7	26.3#

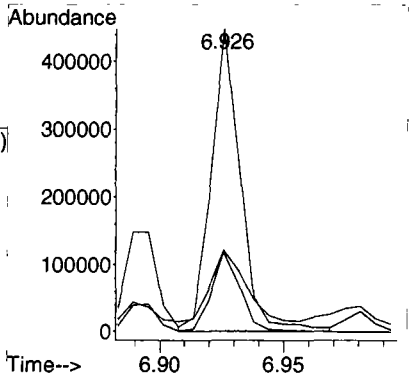


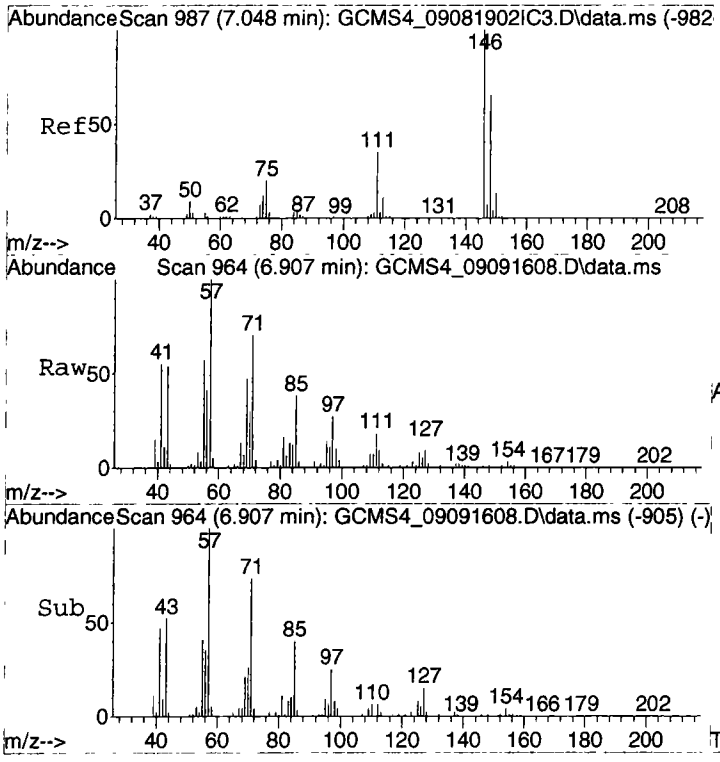


#63
p-Isopropyltoluene
Concen: 133.19 ng
RT: 6.928 min Scan# 967
Delta R.T. -0.003 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:119 Resp: 3672085

Ion	Ratio	Lower	Upper
119	100		
91	31.8	16.3	33.8
134	27.1	18.9	39.1

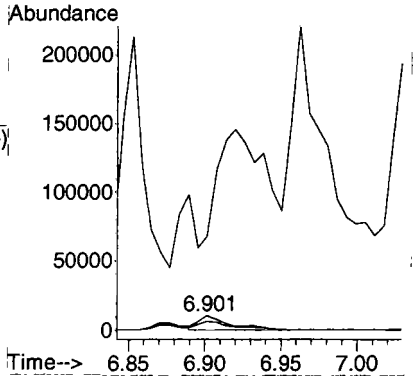


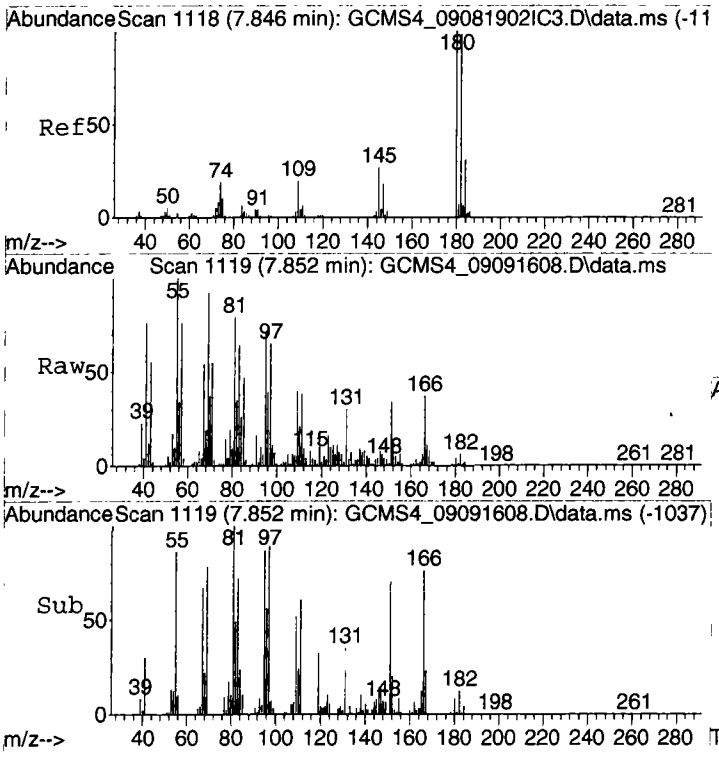


#68
1,2-Dichlorobenzene
Concen: 12.16 ng
RT: 6.905 min Scan# 964
Delta R.T. -0.144 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:146 Resp: 165486

Ion	Ratio	Lower	Upper
146	100		
148	0.0	42.6	88.4#
111	1691.6	30.6	63.6#

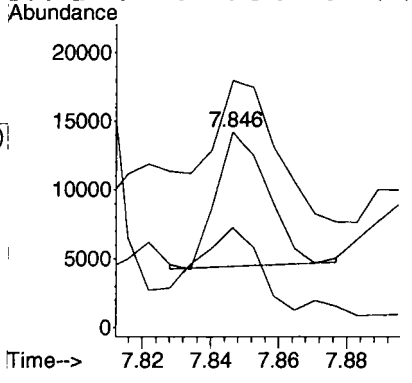


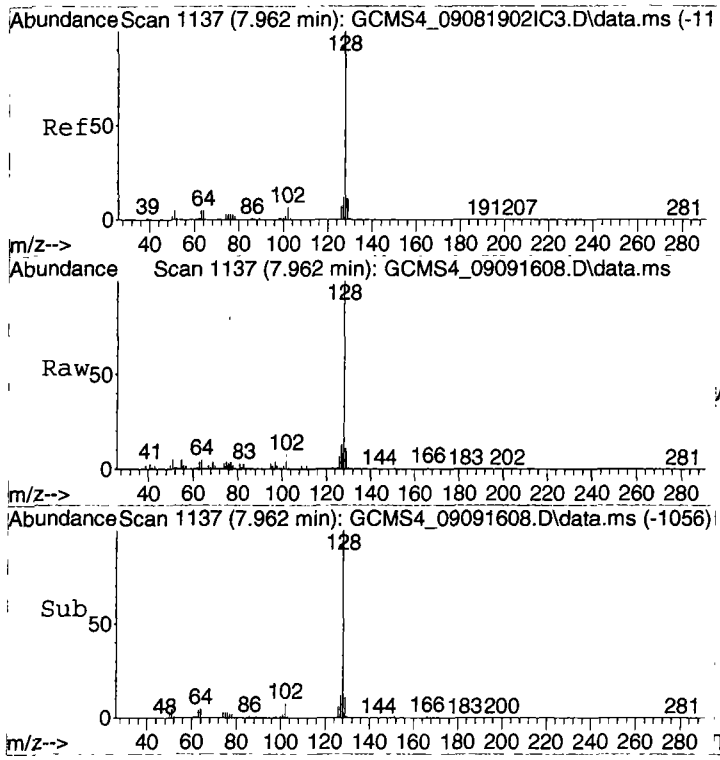


#70
1,2,4-Trichlorobenzene
Concen: 11.61 ng
RT: 7.851 min Scan# 1119
Delta R.T. -0.001 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:180 Resp: 100709

Ion	Ratio	Lower	Upper
180	100		
182	0.0	59.8	124.2#
184	380.2	18.3	37.9#

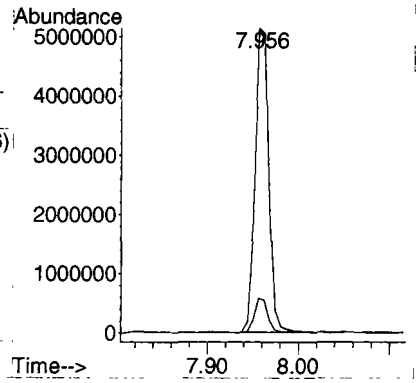


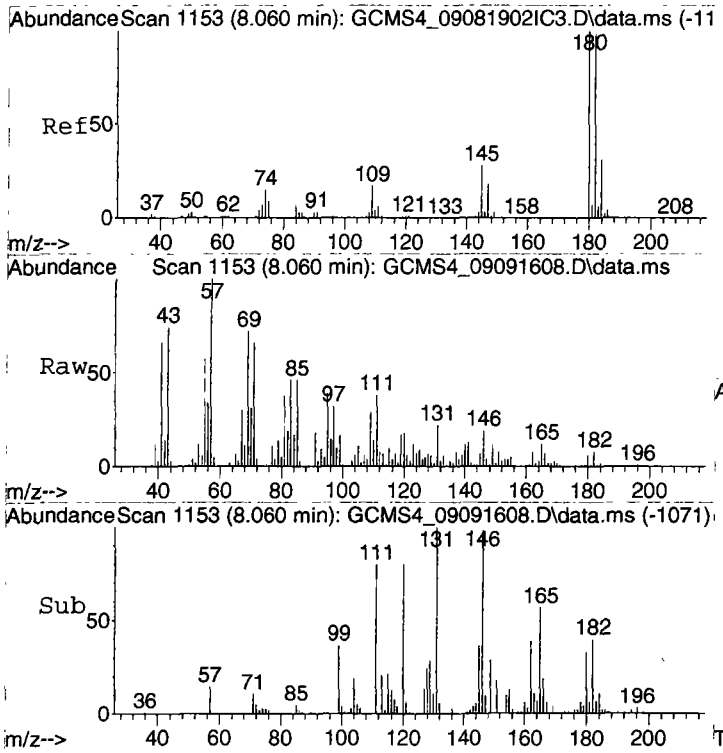


#72
Naphthalene
Concen: 2380.23 ng
RT: 7.961 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4 09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:128 Resp:54365189

Ion	Ratio	Lower	Upper
128	100		
129	11.5	6.7	13.9

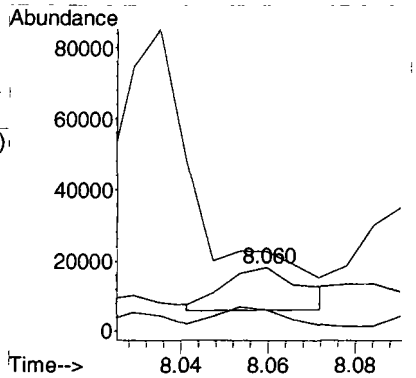




#73
1,2,3-Trichlorobenzene
Concen: 16.55 ng
RT: 8.060 min Scan# 1153
Delta R.T. -0.001 min
Lab File: GCMS4_09091608.D
Acq: 16 Sep 2009 11:25

Tgt Ion:180 Resp: 143122

Ion	Ratio	Lower	Upper
180	100		
182	1130.9	59.9	124.5#
184	0.0	19.6	40.6#



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091609.D
Acq On : 16 Sep 2009 11:45
Operator : CTANG
Sample : 0909006-02
Misc : T29-200-1.0-3.0, 4.5395 G
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 12:02:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2205700	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	848049	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	840941	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2138948	41.58 ng		0.00
34) TOLUENE-D8	5.138	98	1951073	47.69 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	650728	50.67 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.152	50	100449	7.88 ng		94
5) Bromomethane	1.371	94	101166	24.60 ng		99
10) Acetone	1.722	43	212949	57.56 ng		85
11) Carbon disulfide	2.101	76	299332	12.03 ng	#	73
26) Benzene	4.004	78	373813	8.31 ng		97
35) Toluene	5.172	91	498565	10.30 ng		98
46) Ethylbenzene	5.914	91	236018m	5.26 ng		
47) m- &/or p-Xylene	6.005	91	379975	12.34 ng		89
48) o-Xylene	6.170	91	197435m	6.12 ng		
49) Styrene	6.147	104	442822	13.93 ng		92
51) Isopropylbenzene	6.333	105	247204	5.65 ng	#	50
56) n-Propylbenzene	6.517	91	343940m	7.33 ng		
59) 1,3,5-Trimethylbenzene	6.647	105	574714	17.14 ng		86
61) 1,2,4-Trimethylbenzene	6.807	105	1144078	35.08 ng		87
63) p-Isopropyltoluene	6.926	119	673626m	18.62 ng		
67) n-Butylbenzene	7.100	91	501970	12.35 ng	#	37
72) Naphthalene	7.961	128	12886112	268.42 ng		96 ✓

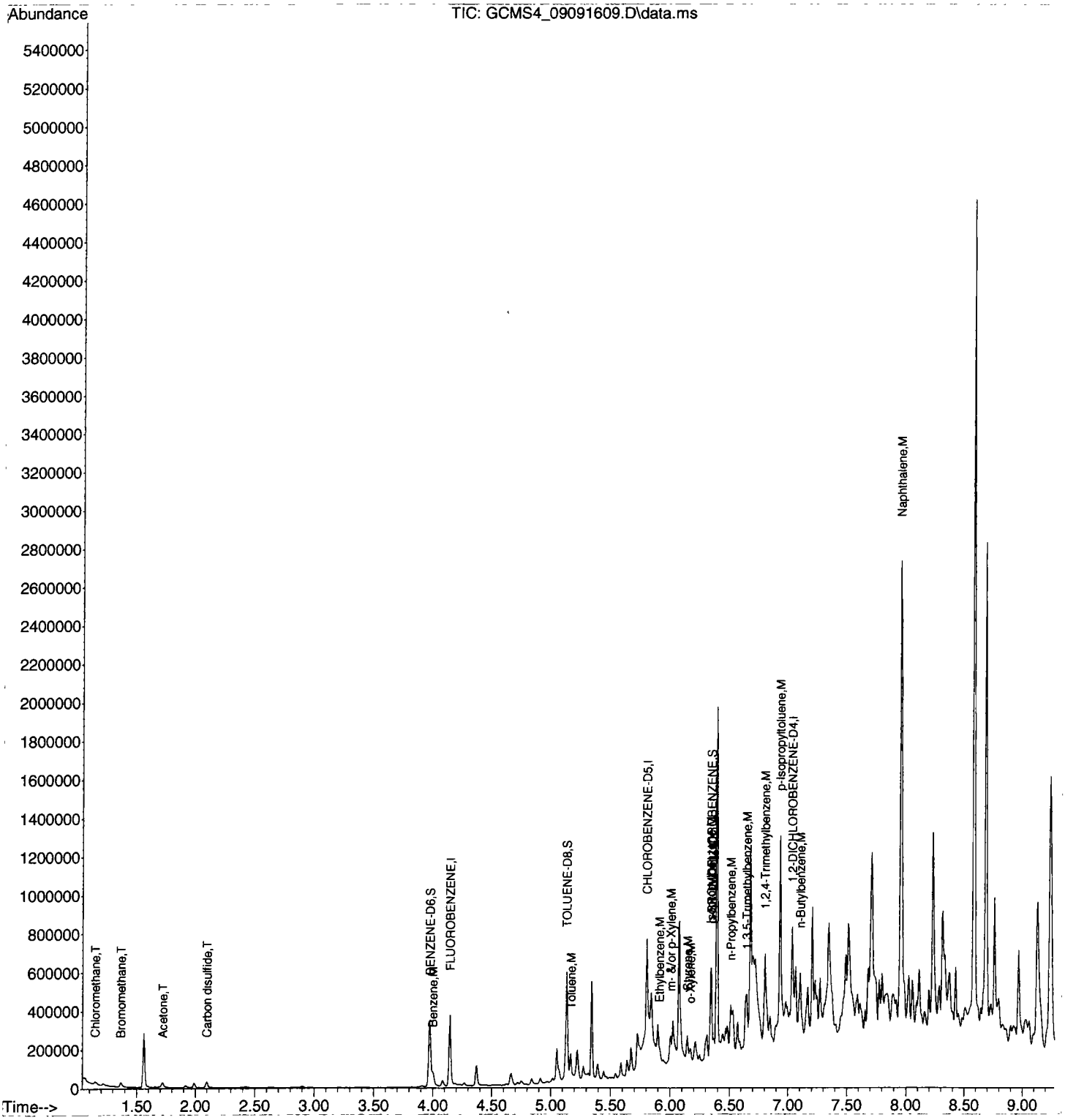
(#) = qualifier out of range (m) = manual integration (+) = signals summed

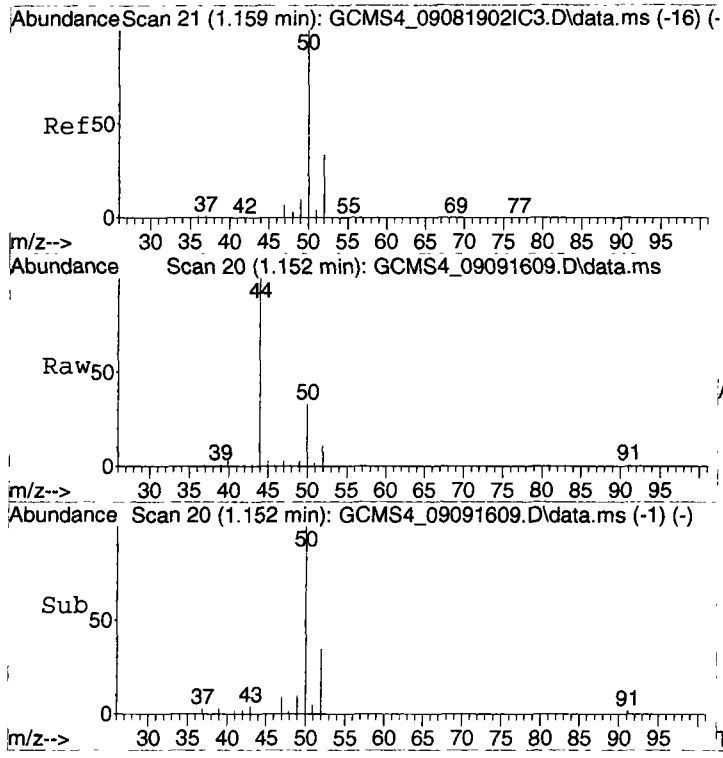
✓ Conc. of Naphthalene is above the R.L.
CMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091609.D
Acq On : 16 Sep 2009 11:45
Operator : CTANG
Sample : 0909006-02
Misc : T29-200-1.0-3.0, 4.5395 G
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 12:02:26 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

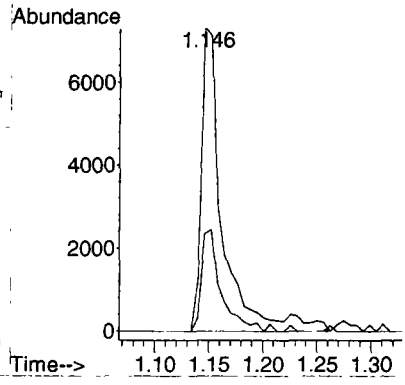


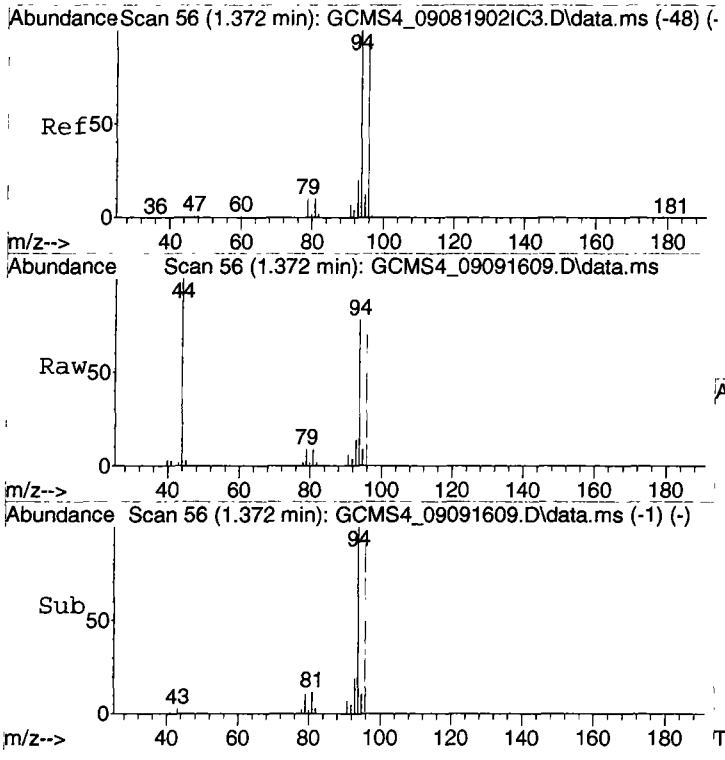


#3
Chloromethane
Concen: 7.88 ng
RT: 1.152 min Scan# 20
Delta R.T. -0.002 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 50 Resp: 100449

Ion	Ratio	Lower	Upper
50	100		
52	31.5	22.8	47.4

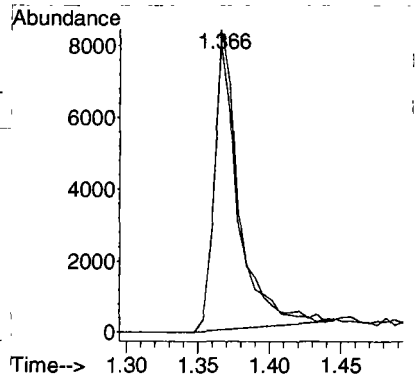


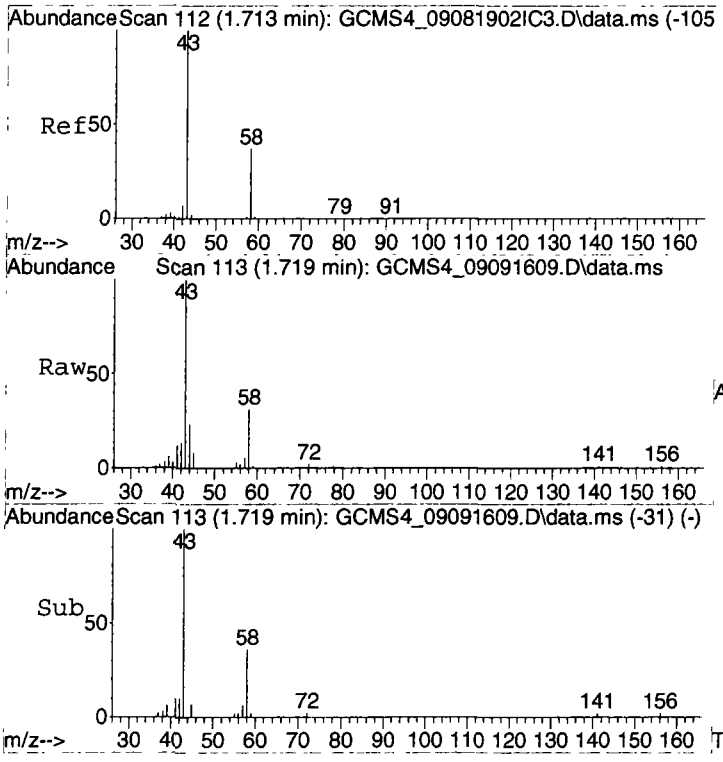


#5
Bromomethane
Concen: 24.60 ng
RT: 1.371 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 94 Resp: 101166

Ion	Ratio	Lower	Upper
94	100		
96	95.8	61.7	128.3

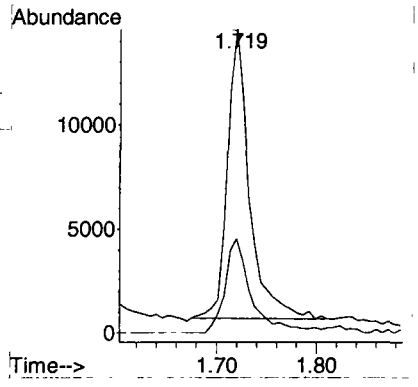


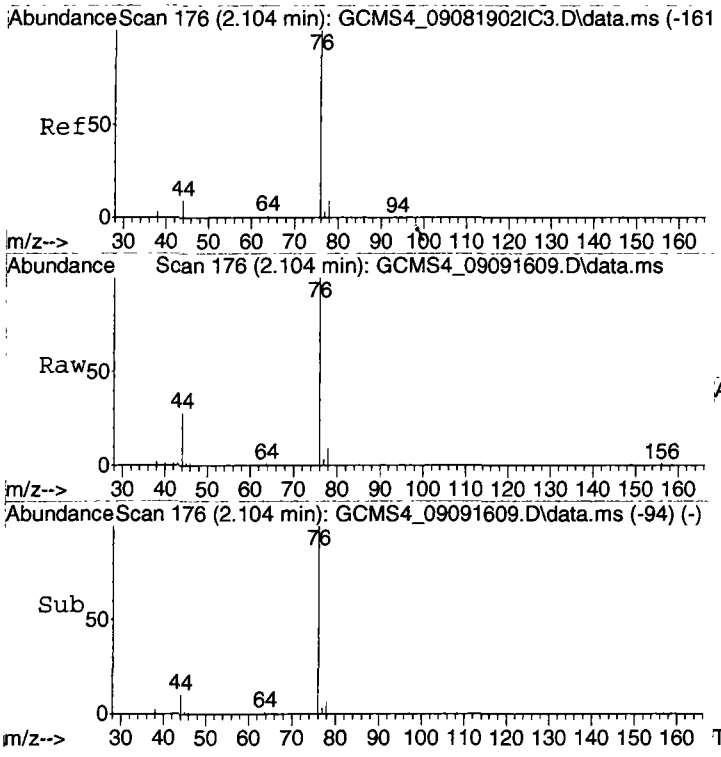


#10
Acetone
Concen: 57.56 ng
RT: 1.722 min Scan# 113
Delta R.T. 0.002 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 43 Resp: 212949

Ion	Ratio	Lower	Upper
43	100		
58	38.0	19.5	40.5

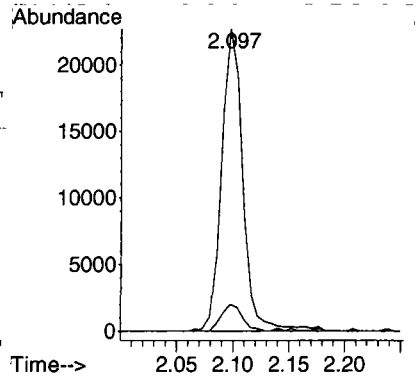


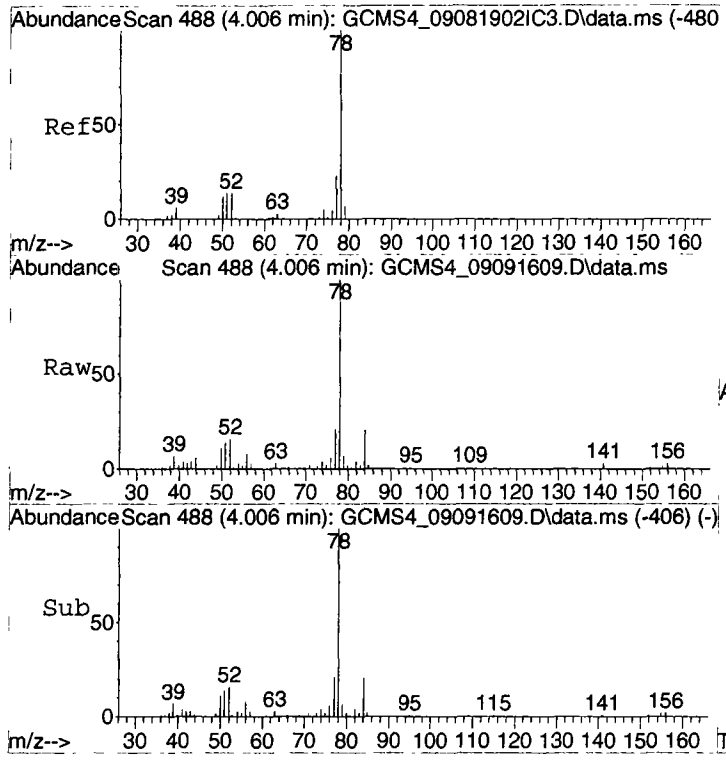


#11
Carbon disulfide
Concen: 12.03 ng
RT: 2.101 min Scan# 176
Delta R.T. -0.002 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 76 Resp: 299332

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.5	13.5#

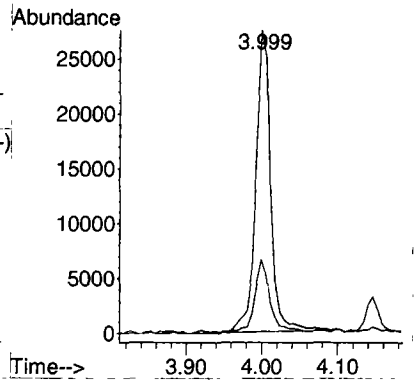


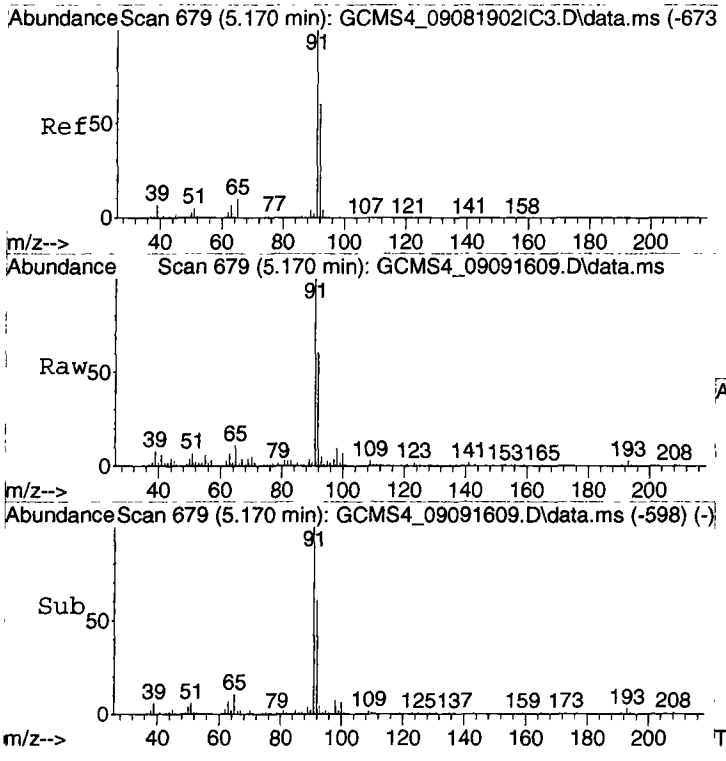


#26
Benzene
Concen: 8.31 ng
RT: 4.004 min Scan# 488
Delta R.T. -0.003 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 78 Resp: 373813

Ion	Ratio	Lower	Upper
78	100		
77	25.5	15.7	32.5

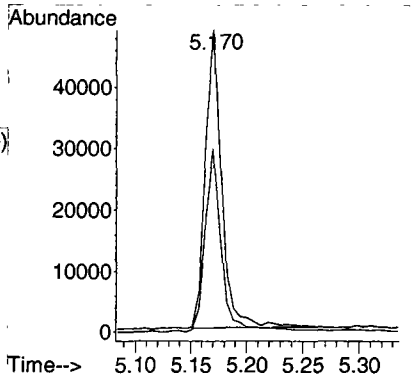


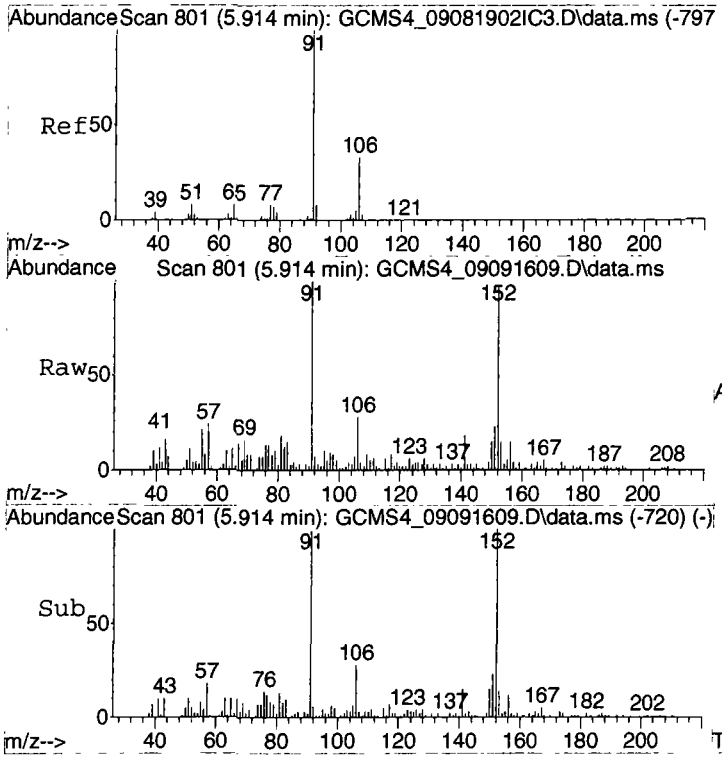


#35
Toluene
Concen: 10.30 ng
RT: 5.172 min Scan# 679
Delta R.T. -0.002 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 498565

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.5	81.9

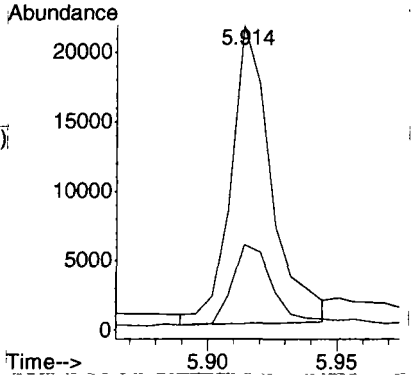


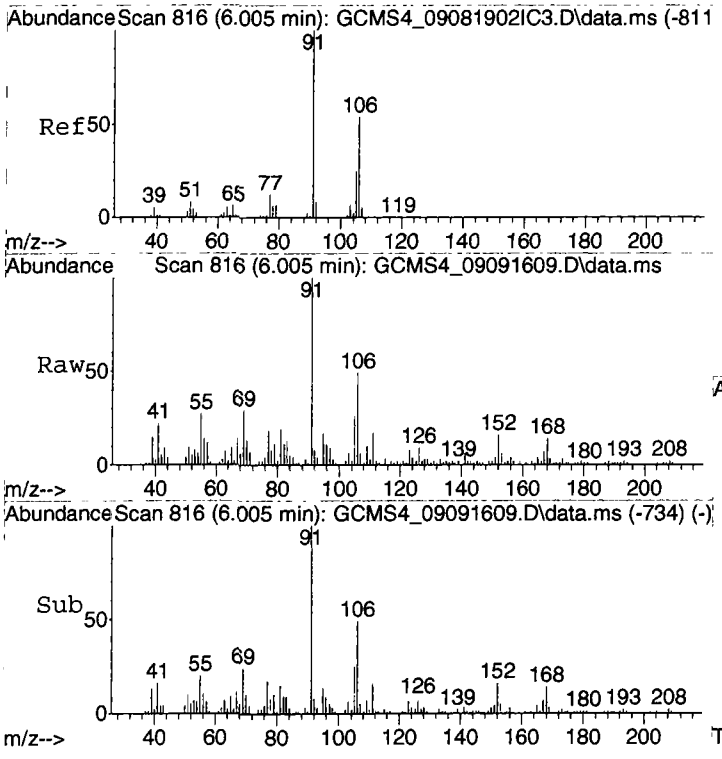


#46
Ethylbenzene
Concen: 5.26 ng m
RT: 5.914 min Scan# 801
Delta R.T. -0.005 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 236018

Ion	Ratio	Lower	Upper
91	100		
106	91.6	20.0	41.6#

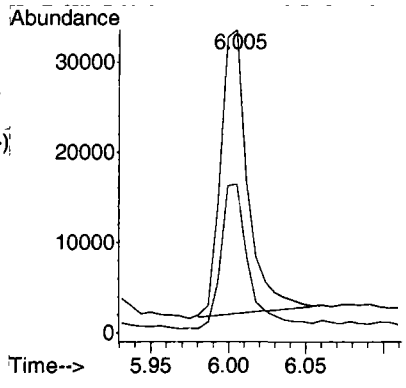


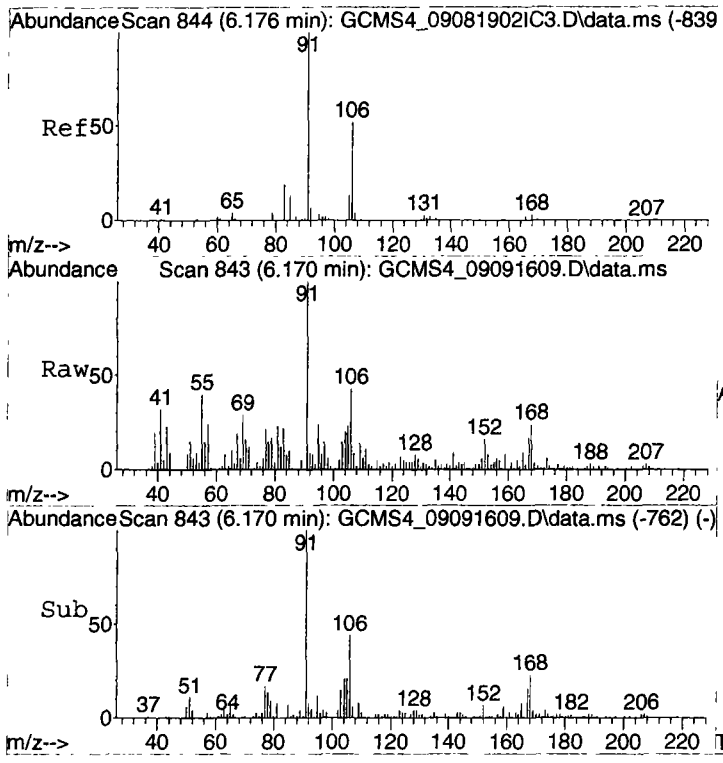


#47
m- &/or p-Xylene
Concen: 12.34 ng
RT: 6.005 min Scan# 816
Delta R.T. -0.002 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 379975

Ion	Ratio	Lower	Upper
91	100		
106	56.9	32.0	66.4

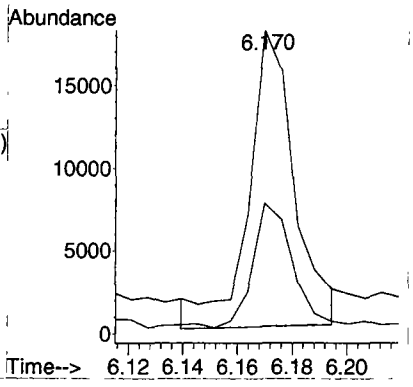


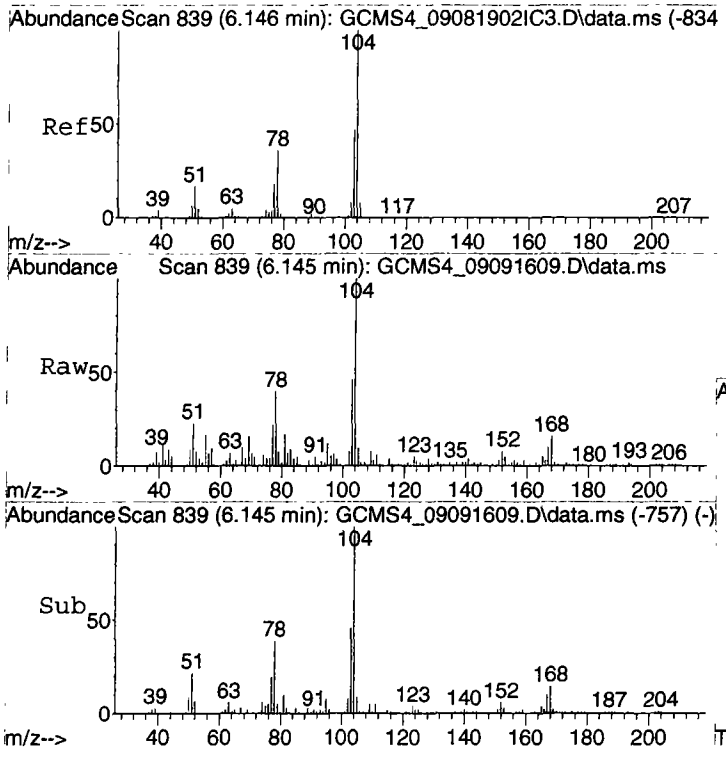


#48
o-Xylene
Concen: 6.12 ng m
RT: 6.170 min Scan# 843
Delta R.T. -0.007 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 197435

Ion	Ratio	Lower	Upper
91	100		
106	93.4	29.4	61.2#

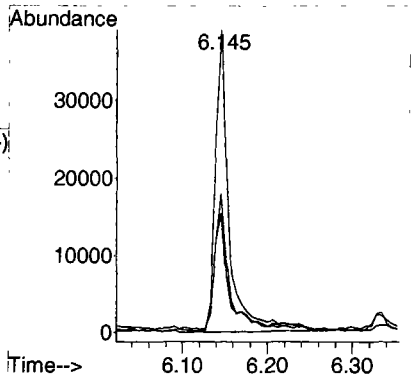


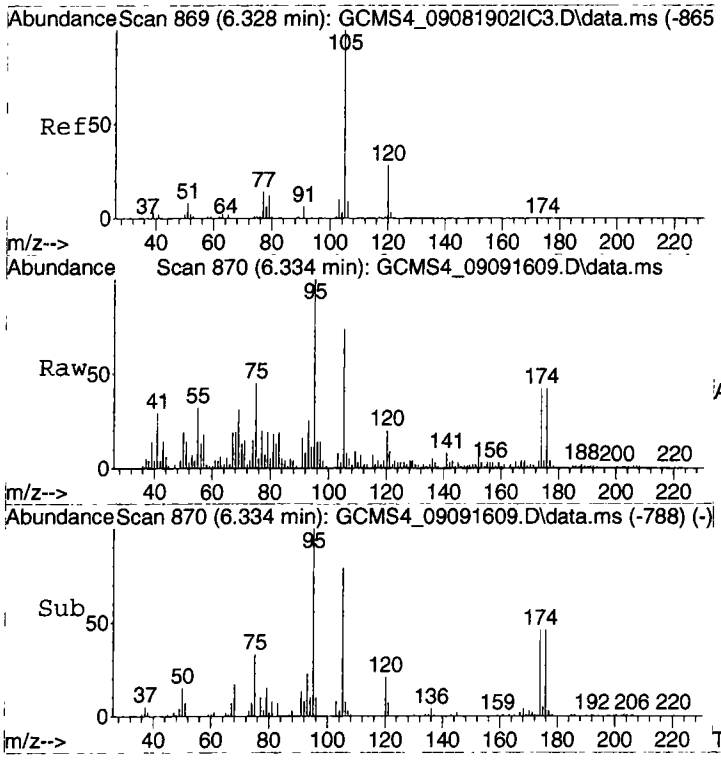


#49
Styrene
Concen: 13.93 ng
RT: 6.147 min Scan# 839
Delta R.T. -0.000 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:104 Resp: 442822

Ion	Ratio	Lower	Upper
104	100		
103	43.8	28.0	58.1
78	36.2	29.4	61.2

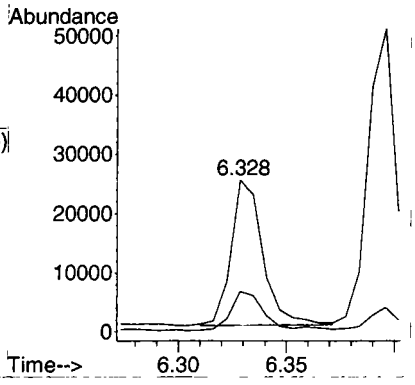


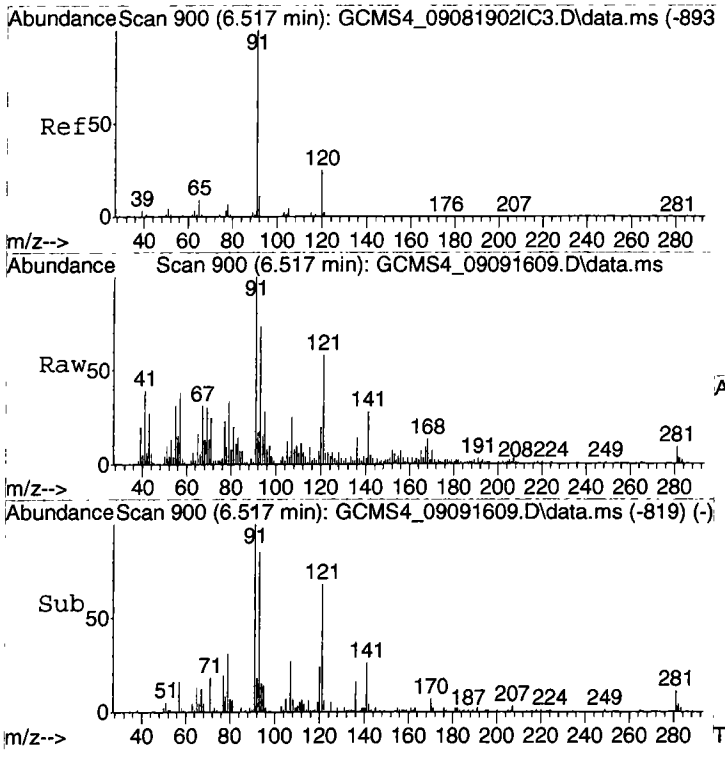


#51
Isopropylbenzene
Concen: 5.65 ng
RT: 6.333 min Scan# 870
Delta R.T. -0.002 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:105 Resp: 247204

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.3	33.8#

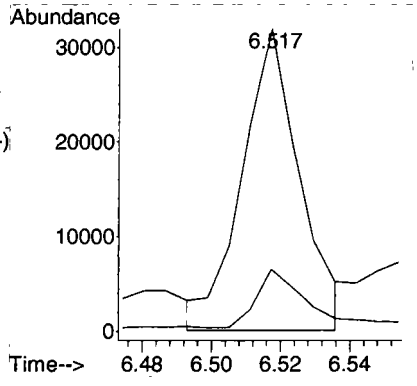


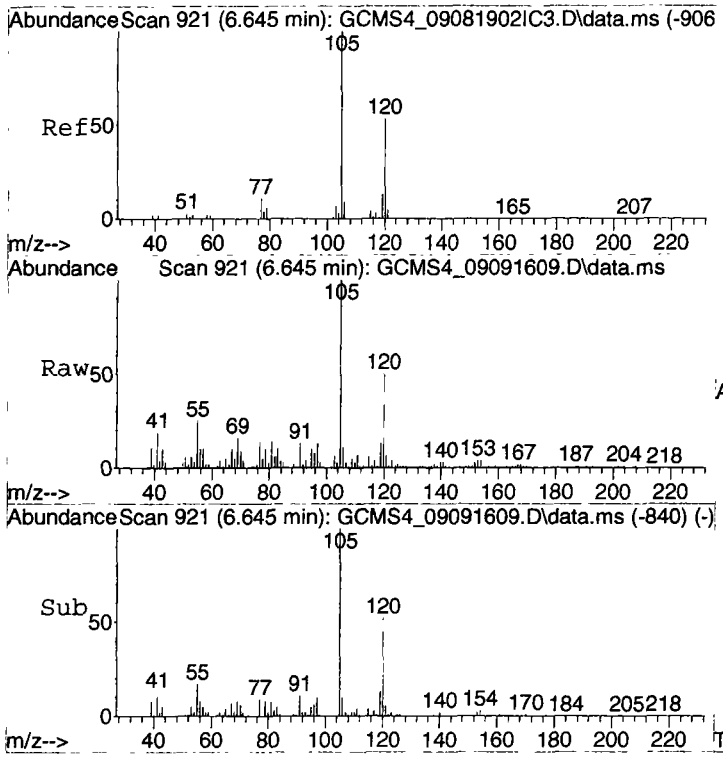


#56
n-Propylbenzene
Concen: 7.33 ng m
RT: 6.517 min Scan# 900
Delta R.T. -0.005 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 343940

Ion	Ratio	Lower	Upper
91	100		
120	29.1	16.3	33.8

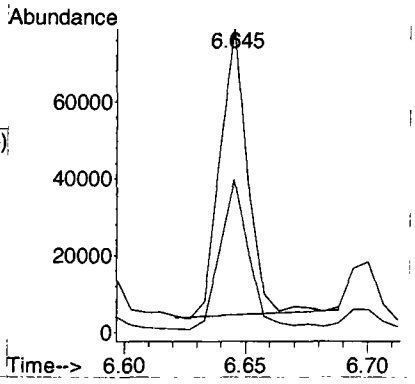


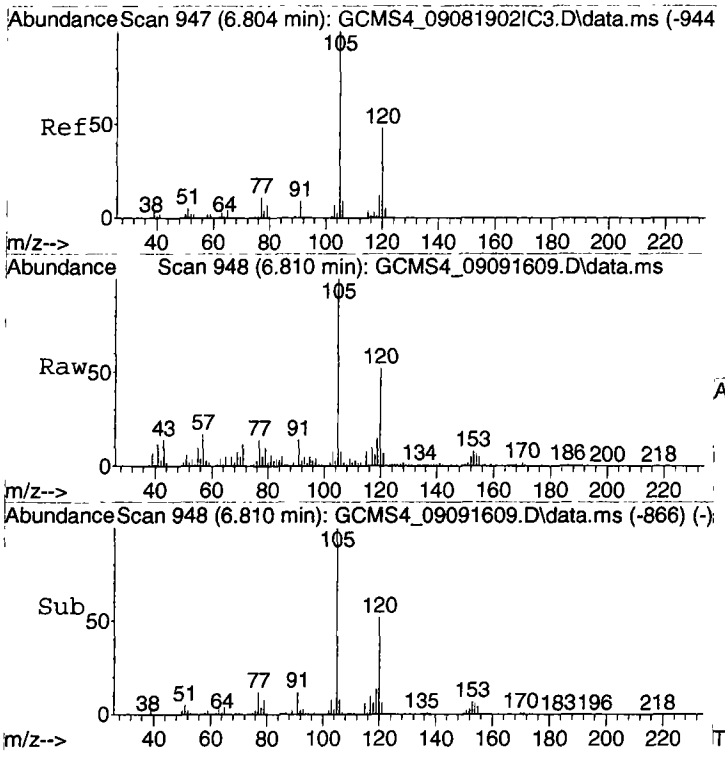


#59
1,3,5-Trimethylbenzene
Concen: 17.14 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:105 Resp: 574714

Ion	Ratio	Lower	Upper
105	100		
120	53.2	28.7	59.7

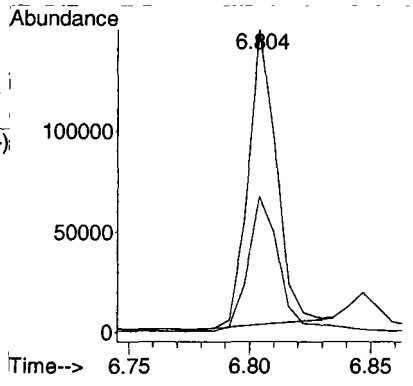


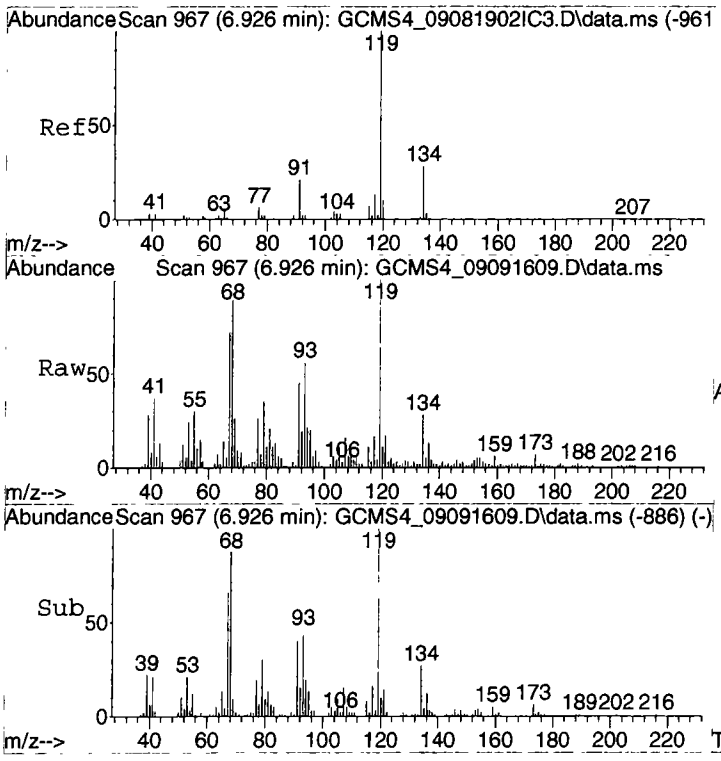


#61
1,2,4-Trimethylbenzene
Concen: 35.08 ng
RT: 6.807 min Scan# 948
Delta R.T. -0.002 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:105 Resp: 1144078

Ion	Ratio	Lower	Upper
105	100		
120	53.3	29.3	60.8

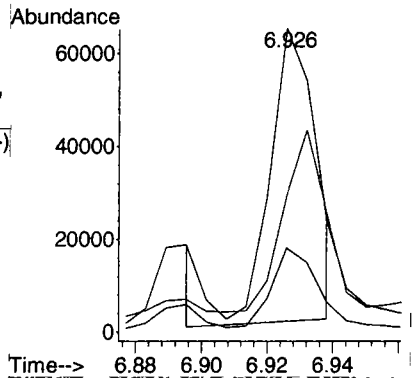


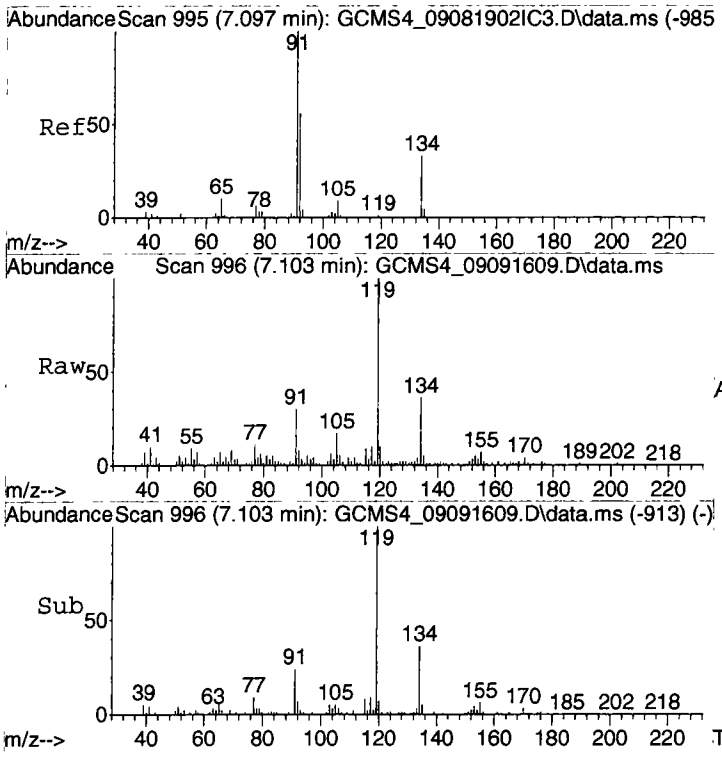


#63
p-Isopropyltoluene
Concen: 18.62 ng m
RT: 6.926 min Scan# 967
Delta R.T. -0.005 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:119 Resp: 673626

Ion	Ratio	Lower	Upper
119	100		
91	28.8	16.3	33.8
134	42.2	18.9	39.1#

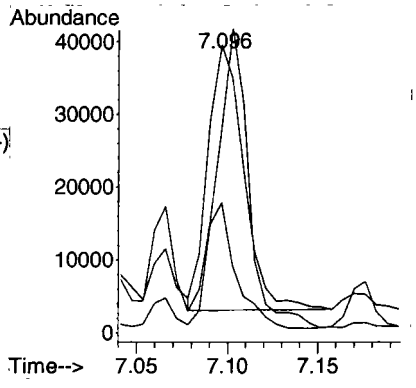


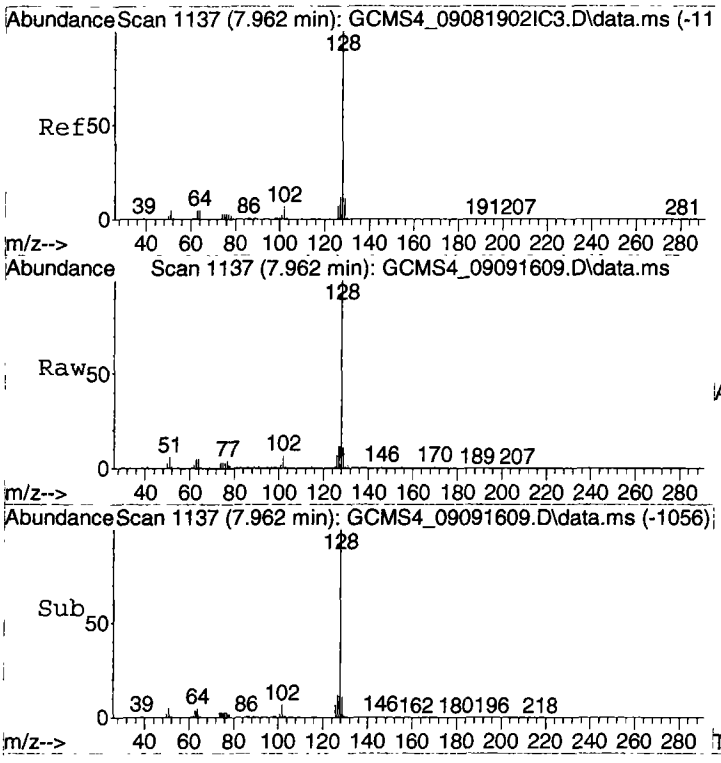


#67
n-Butylbenzene
Concen: 12.35 ng
RT: 7.100 min Scan# 996
Delta R.T. 0.001 min
Lab File: GCMS4_09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion: 91 Resp: 501970

Ion	Ratio	Lower	Upper
91	100		
134	101.9	18.3	38.1#
92	37.5	34.1	70.7

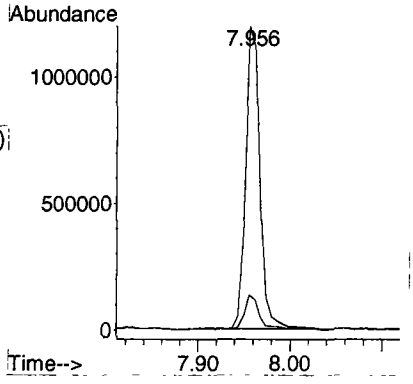




#72
Naphthalene
Concen: 268.42 ng
RT: 7.961 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4 09091609.D
Acq: 16 Sep 2009 11:45

Tgt Ion:128 Resp:12886112

Ion	Ratio	Lower	Upper
128	100		
129	11.7	6.7	13.9



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091610.D
Acq On : 16 Sep 2009 12:06
Operator : CTANG
Sample : 0909006-03
Misc : T30-150-1.0-3.0, 5.6954 G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 12:06:49 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2089285	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	814447	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	752096	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.978	84	2076588	42.61 ng		0.00
34) TOLUENE-D8	5.138	98	1871444	48.29 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	616616	49.99 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.152	50	91797	7.60 ng		99
5) Bromomethane	1.371	94	105524	27.08 ng		91
10) Acetone	1.722	43	253352	72.29 ng		87
11) Carbon disulfide	2.100	76	342791	14.55 ng		98
26) Benzene	4.004	78	368575	8.65 ng		97
35) Toluene	5.172	91	437071	9.54 ng		98
47) m- &/or p-Xylene	6.005	91	350622	11.86 ng		99
49) Styrene	6.148	104	237530	7.78 ng		84
51) Isopropylbenzene	6.333	105	247473	5.89 ng	#	50
56) n-Propylbenzene	6.517	91	277424m	6.16 ng		
59) 1,3,5-Trimethylbenzene	6.647	105	541301	16.81 ng		92
61) 1,2,4-Trimethylbenzene	6.807	105	1083751	34.60 ng		95
63) p-Isopropyltoluene	6.926	119	653083m	18.80 ng		
65) 1,4-Dichlorobenzene	6.905	146	105919	5.40 ng	#	26
72) Naphthalene	7.962	128	12520695	291.62 ng		96 ✓

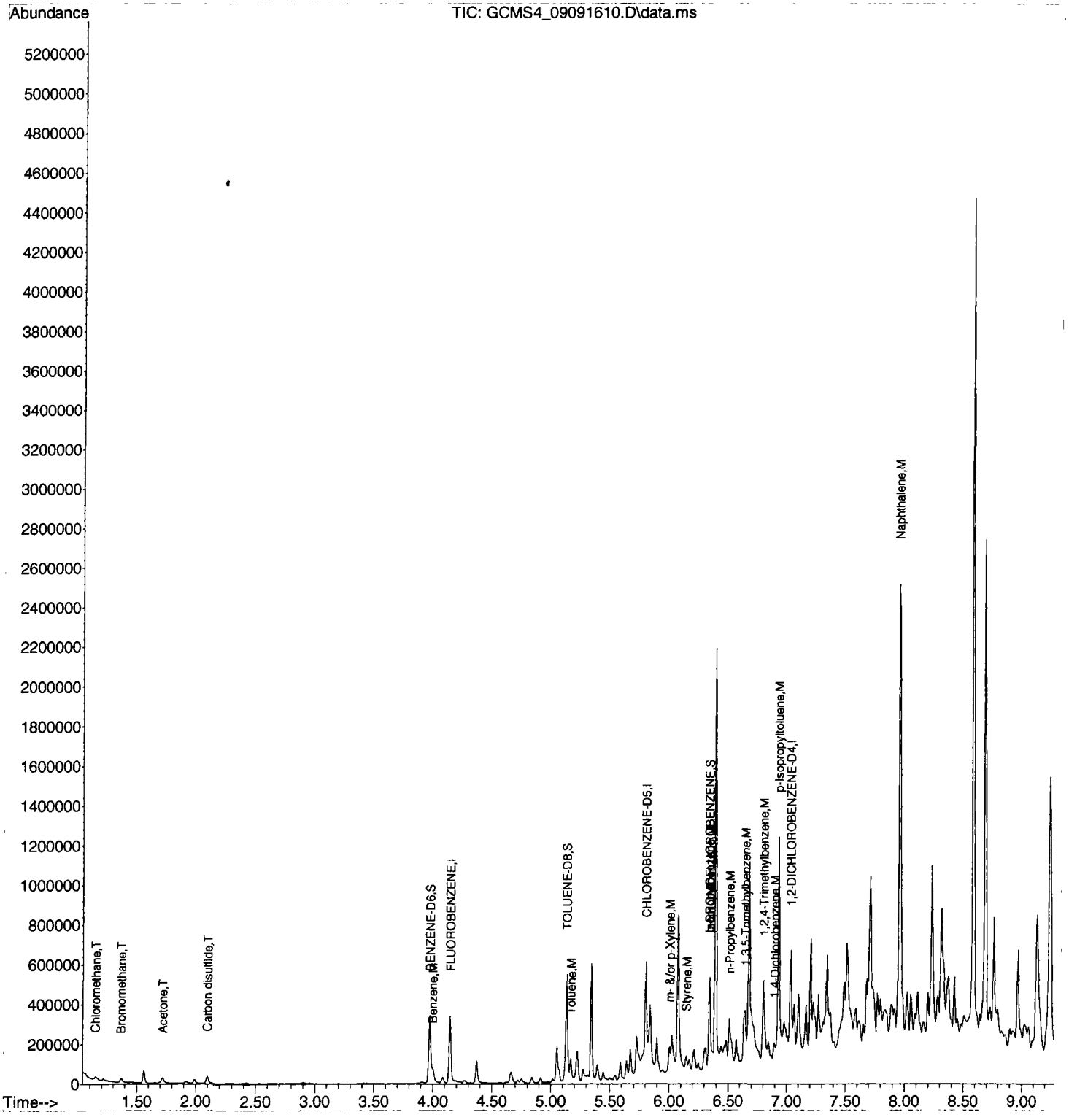
(#) = qualifier out of range (m) = manual integration (+) = signals summed

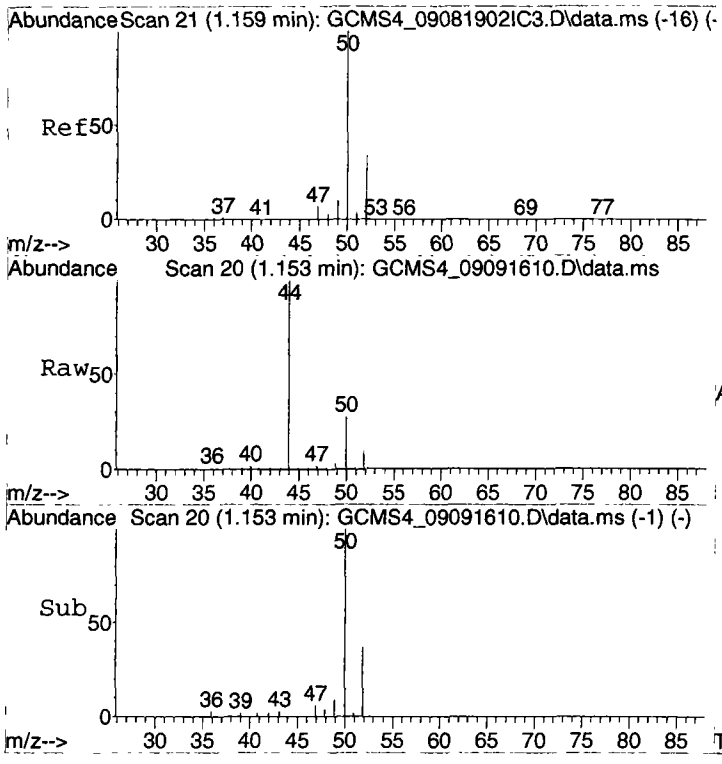
✓ conc. of Naphthalene is above the report limit.
EMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091610.D
Acq On : 16 Sep 2009 12:06
Operator : CTANG
Sample : 0909006-03
Misc : T30-150-1.0-3.0, 5.6954 G
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 12:06:49 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

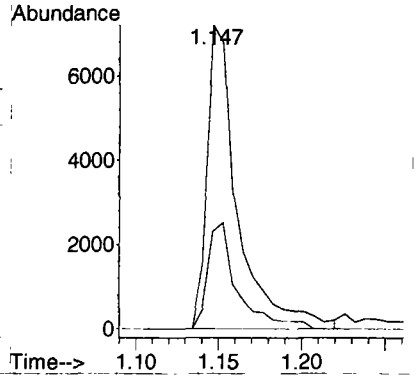


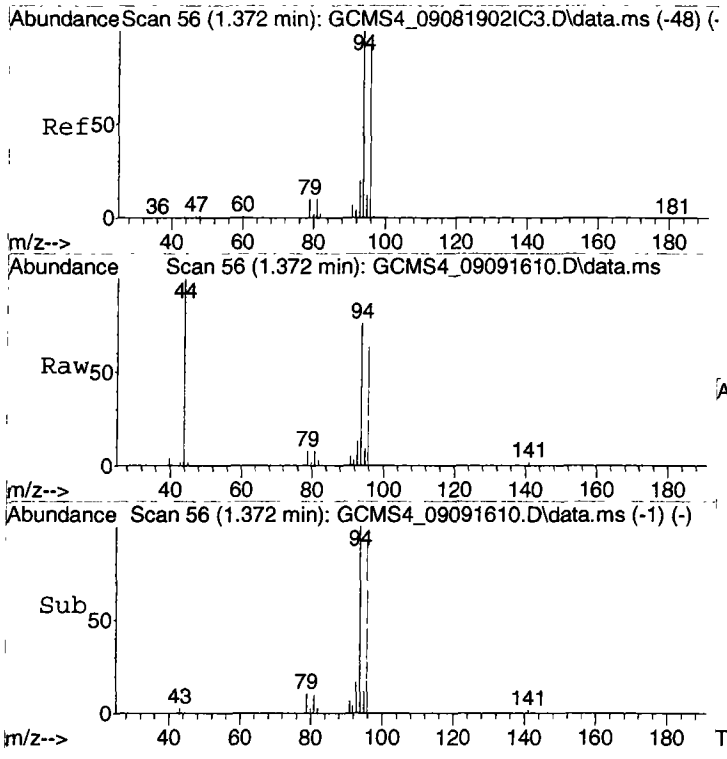


#3
Chloromethane
Concen: 7.60 ng
RT: 1.152 min Scan# 20
Delta R.T. -0.002 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 50 Resp: 91797

Ion	Ratio	Lower	Upper
50	100		
52	34.3	22.8	47.4

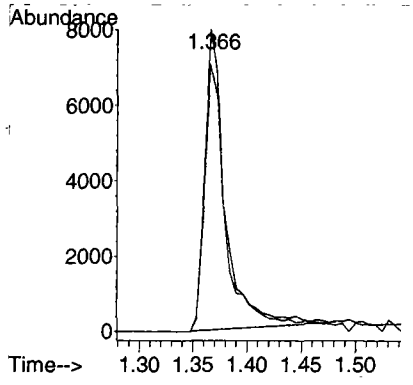


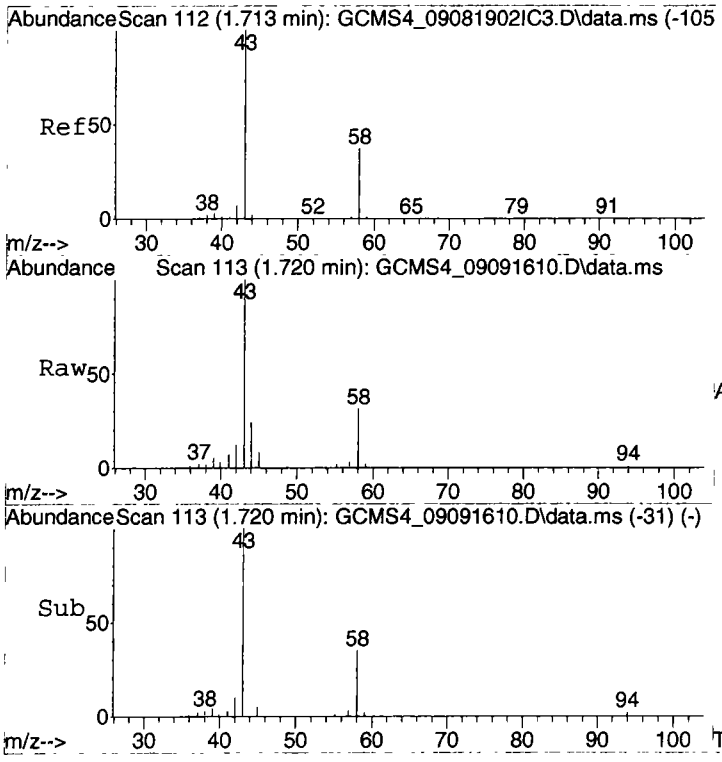


#5
Bromomethane
Concen: 27.08 ng
RT: 1.371 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 94 Resp: 105524

Ion	Ratio	Lower	Upper
94	100		
96	86.3	61.7	128.3

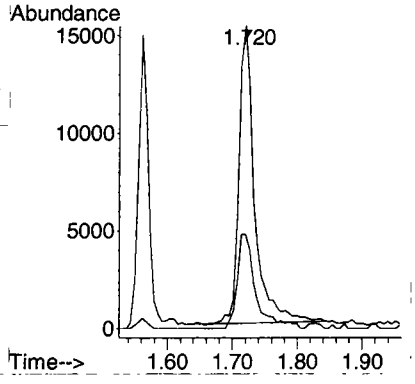


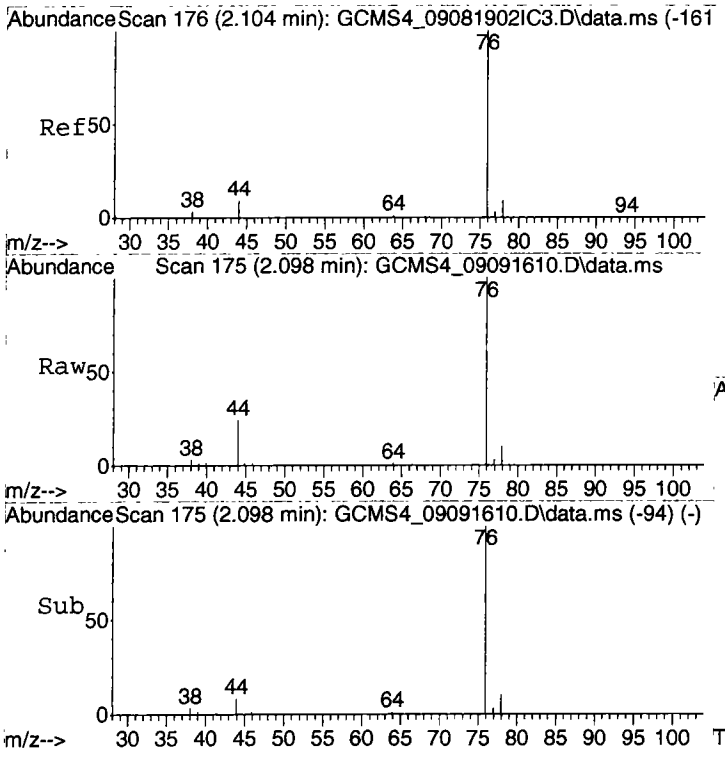


#10
Acetone
Concen: 72.29 ng
RT: 1.722 min Scan# 113
Delta R.T. 0.002 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 43 Resp: 253352

Ion	Ratio	Lower	Upper
43	100		
58	37.0	19.5	40.5

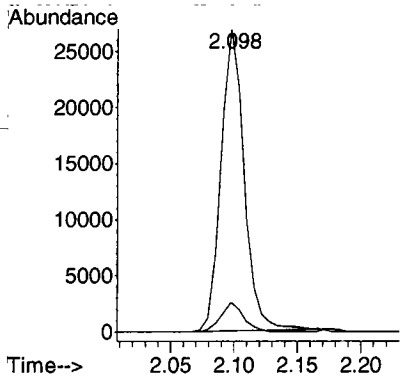


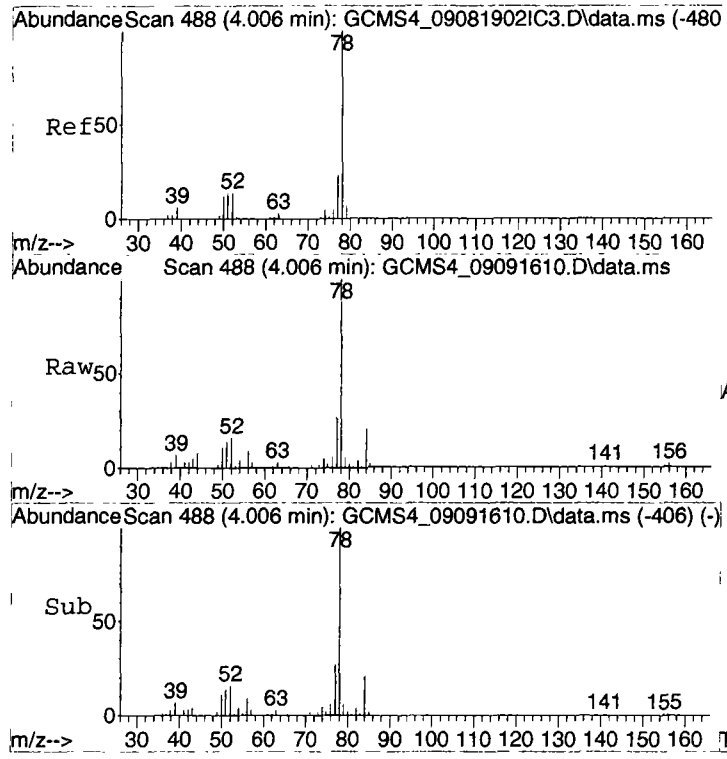


#11
Carbon disulfide
Concen: 14.55 ng
RT: 2.100 min Scan# 175
Delta R.T. -0.002 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 76 Resp: 342791

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.5	13.5

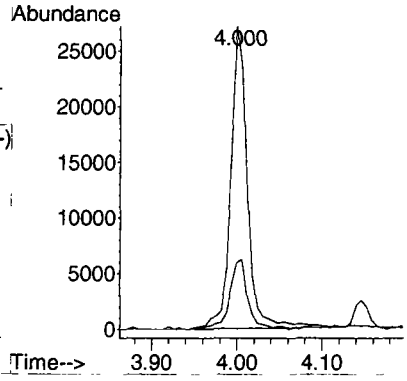


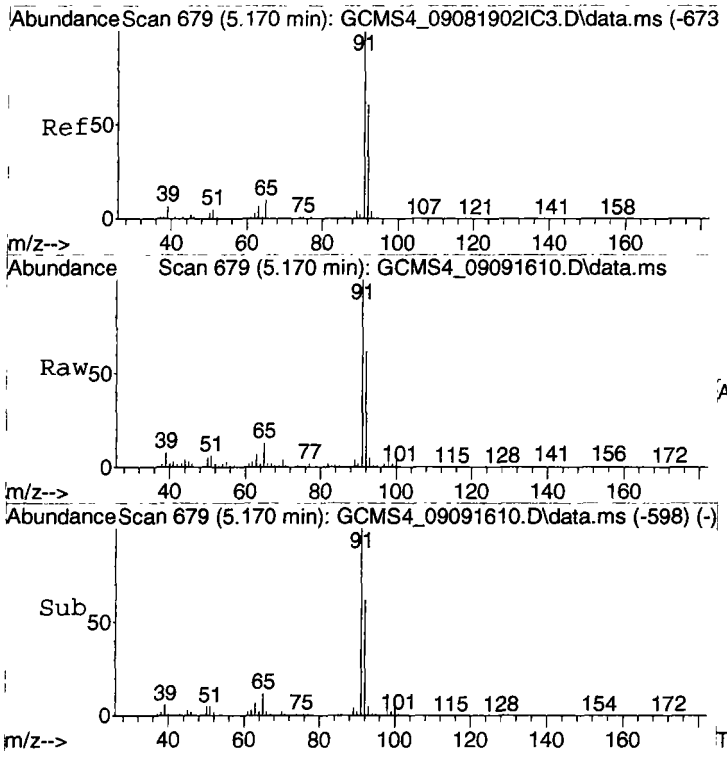


#26
Benzene
Concen: 8.65 ng
RT: 4.004 min Scan# 488
Delta R.T. -0.003 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 78 Resp: 368575

Ion	Ratio	Lower	Upper
78	100		
77	25.6	15.7	32.5

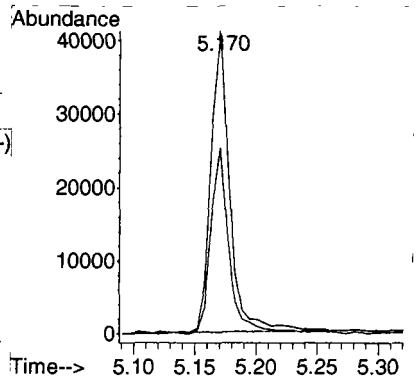


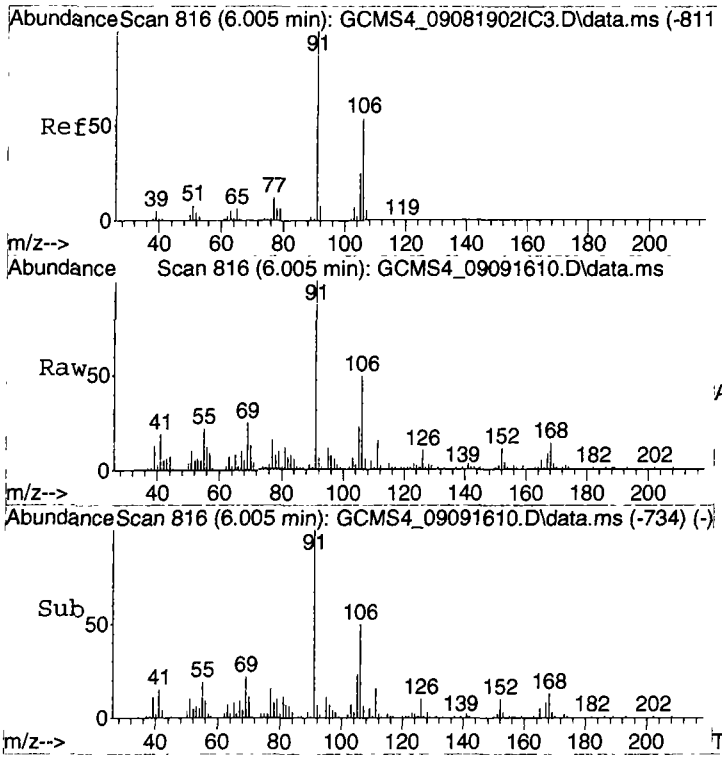


#35
Toluene
Concen: 9.54 ng
RT: 5.172 min Scan# 679
Delta R.T. -0.002 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 91 Resp: 437071

Ion	Ratio	Lower	Upper
91	100		
92	59.1	39.5	81.9

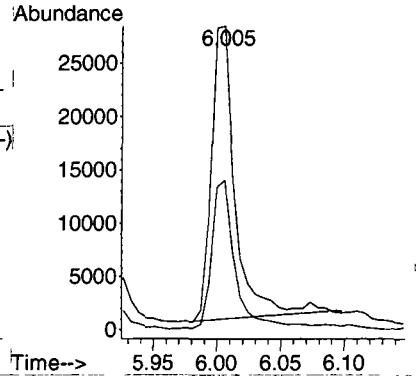


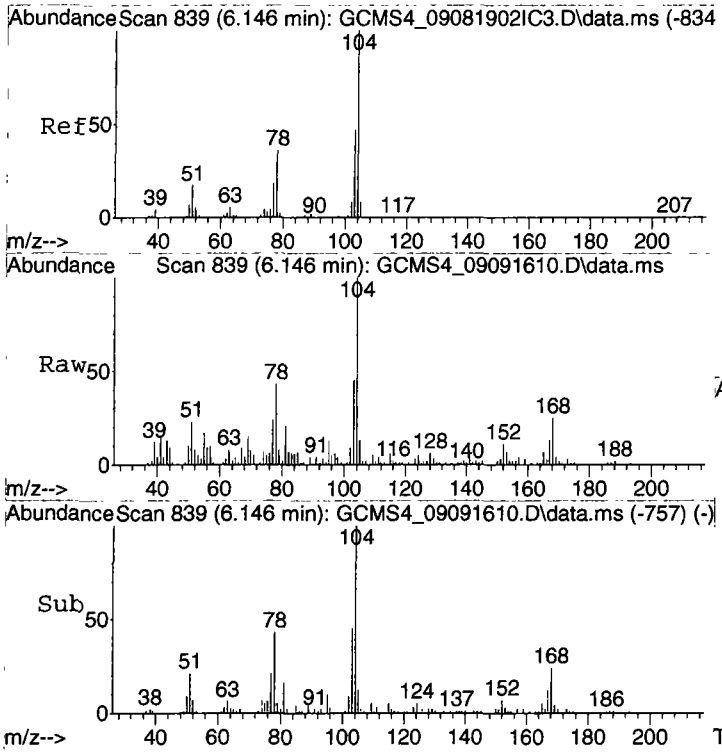


#47
m- &/or p-Xylene
Concen: 11.86 ng
RT: 6.005 min Scan# 816
Delta R.T. -0.001 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 91 Resp: 350622

Ion	Ratio	Lower	Upper
91	100		
106	48.4	32.0	66.4

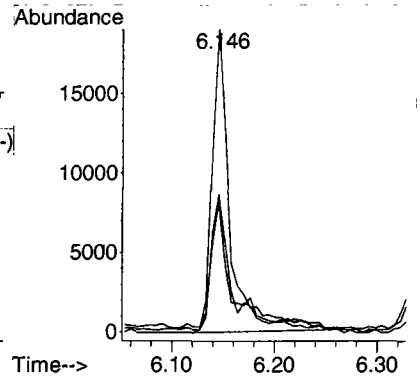


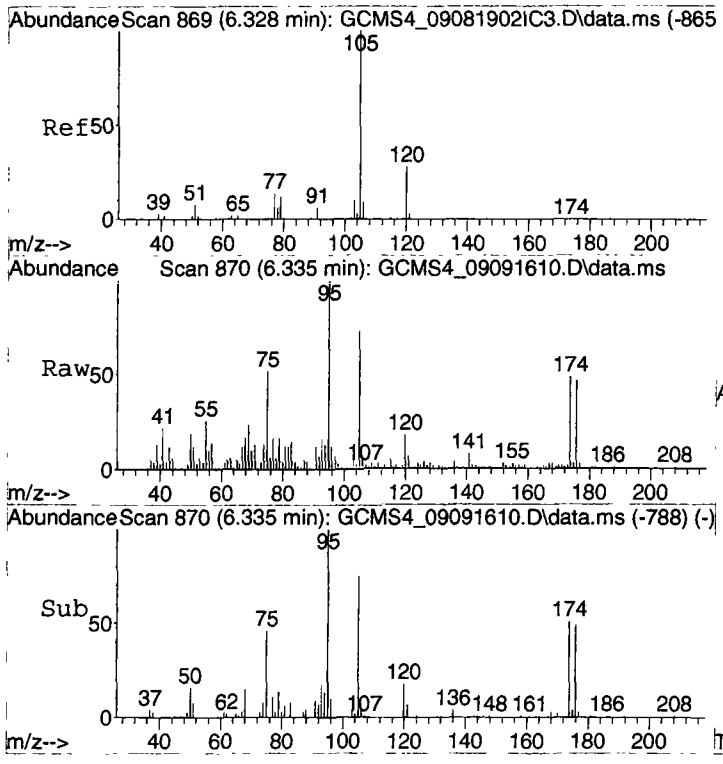


#49
Styrene
Concen: 7.78 ng
RT: 6.148 min Scan# 839
Delta R.T. 0.000 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:104 Resp: 237530

Ion	Ratio	Lower	Upper
104	100		
103	30.7	28.0	58.1
78	37.2	29.4	61.2

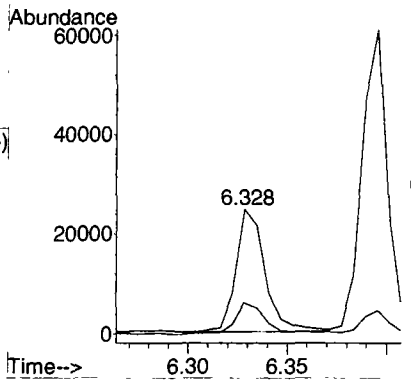


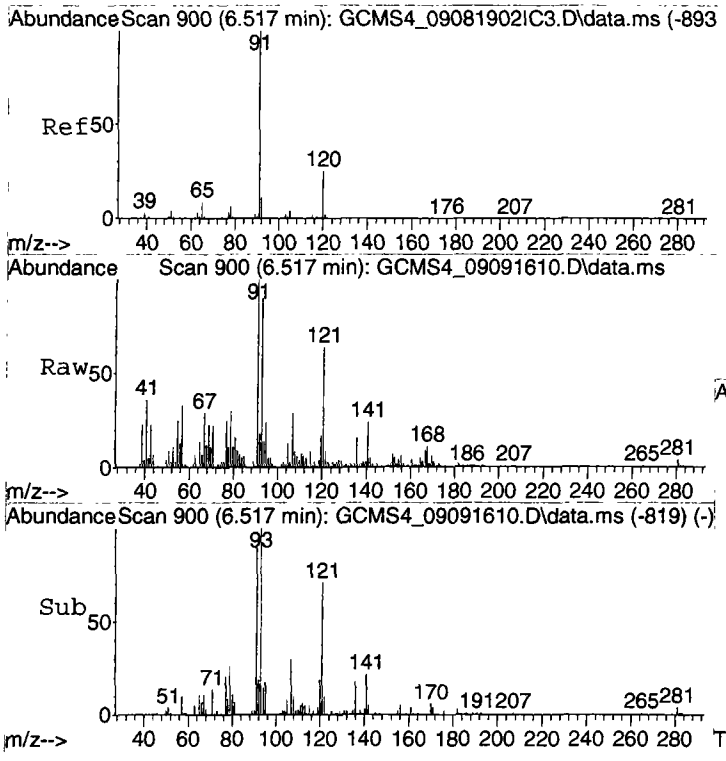


#51
Isopropylbenzene
Concen: 5.89 ng
RT: 6.333 min Scan# 870
Delta R.T. -0.002 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:105 Resp: 247473

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.3	33.8#

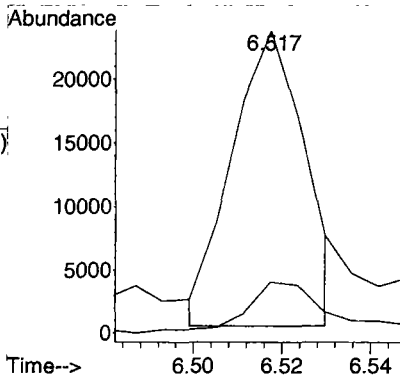


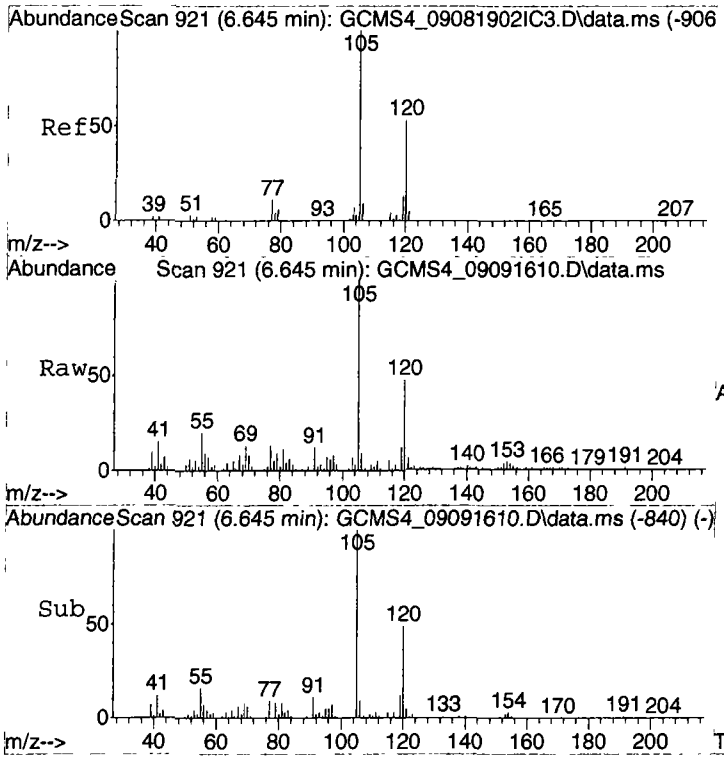


#56
n-Propylbenzene
Concen: 6.16 ng m
RT: 6.517 min Scan# 900
Delta R.T. -0.004 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion: 91 Resp: 277424

Ion	Ratio	Lower	Upper
91	100		
120	34.0	16.3	33.8#

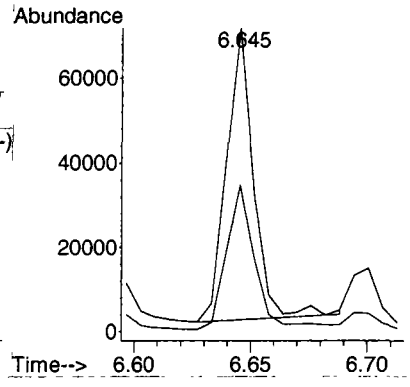


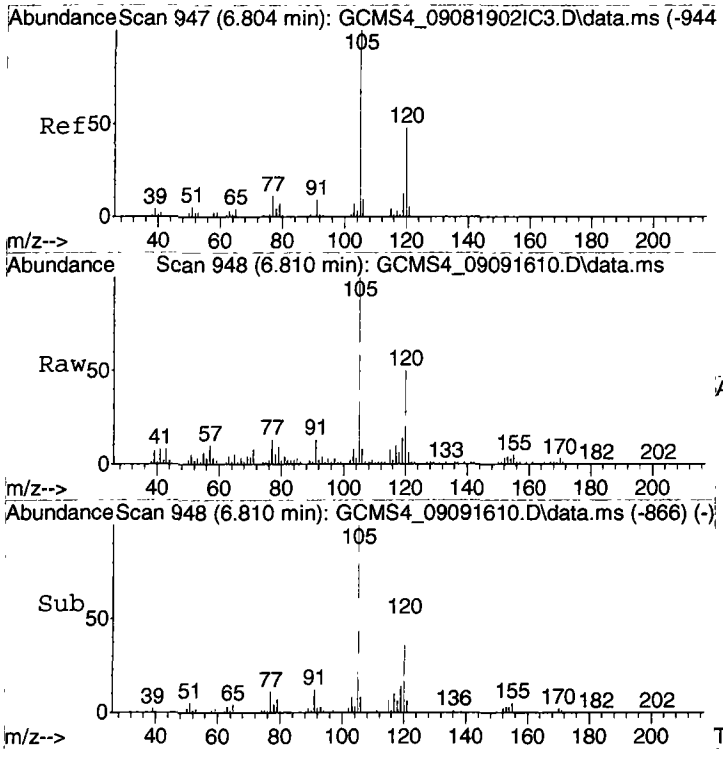


#59
1,3,5-Trimethylbenzene
Concen: 16.81 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:105 Resp: 541301

Ion	Ratio	Lower	Upper
105	100		
120	49.6	28.7	59.7

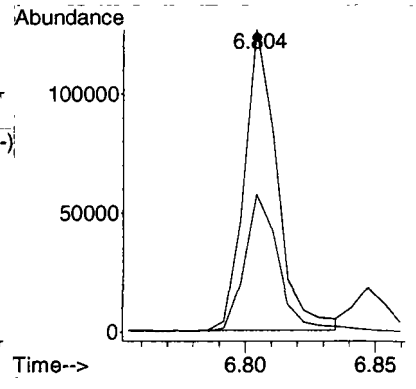


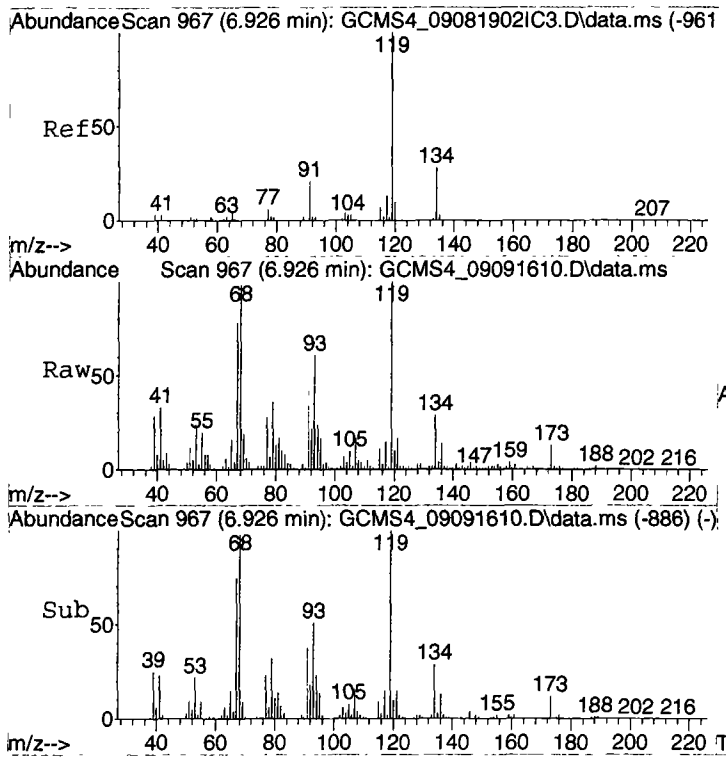


#61
1,2,4-Trimethylbenzene
Concen: 34.60 ng
RT: 6.807 min Scan# 948
Delta R.T. -0.002 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:105 Resp: 1083751

Ion	Ratio	Lower	Upper
105	100		
120	48.5	29.3	60.8

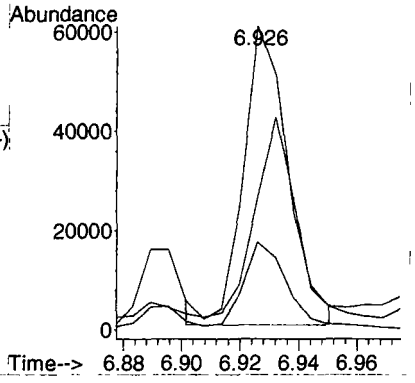


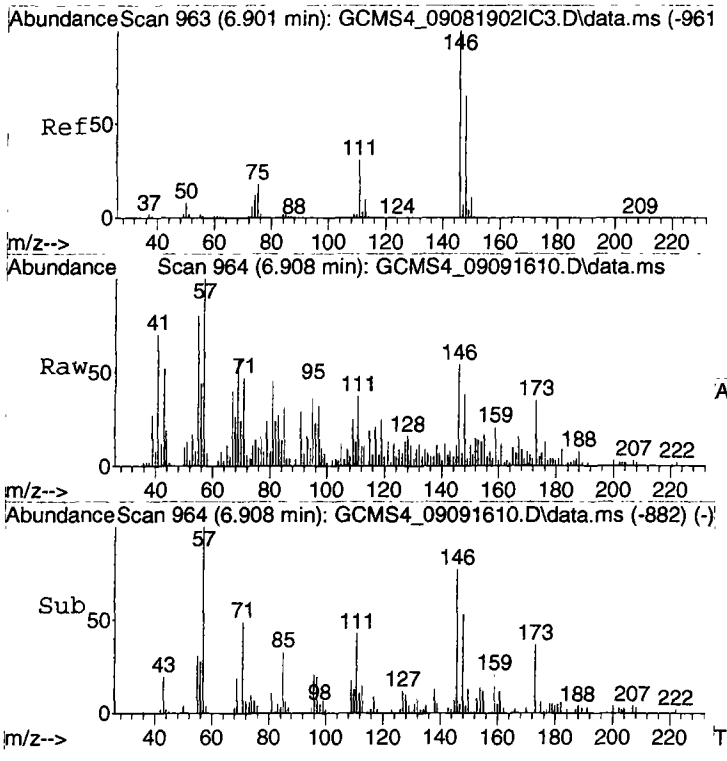


#63
p-Isopropyltoluene
Concen: 18.80 ng m
RT: 6.926 min Scan# 967
Delta R.T. -0.005 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:119 Resp: 653083

Ion	Ratio	Lower	Upper
119	100		
91	27.6	16.3	33.8
134	38.6	18.9	39.1

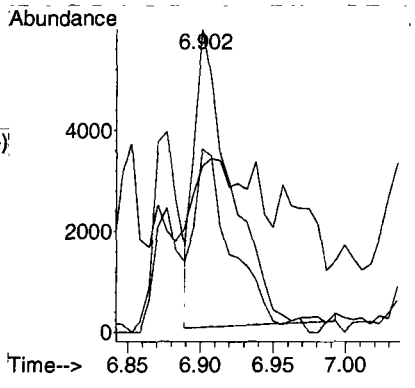


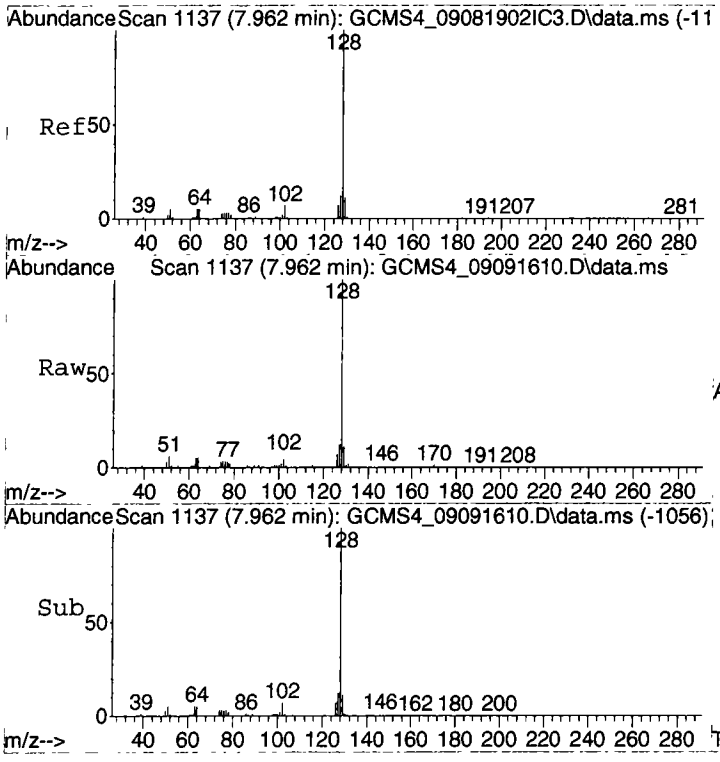


#65
1,4-Dichlorobenzene
Concen: 5.40 ng
RT: 6.905 min Scan# 964
Delta R.T. 0.000 min
Lab File: GCMS4_09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:146 Resp: 105919

Ion	Ratio	Lower	Upper
146	100		
148	0.0	39.1	81.1#
111	0.0	26.7	55.4#

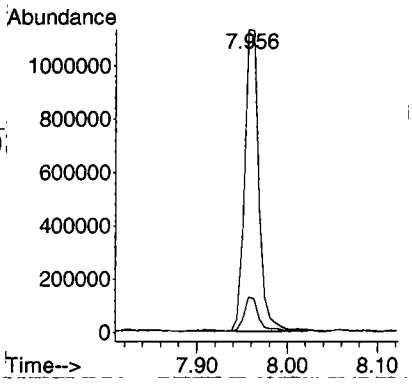




#72
Naphthalene
Concen: 291.62 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4 09091610.D
Acq: 16 Sep 2009 12:06

Tgt Ion:128 Resp:12520695

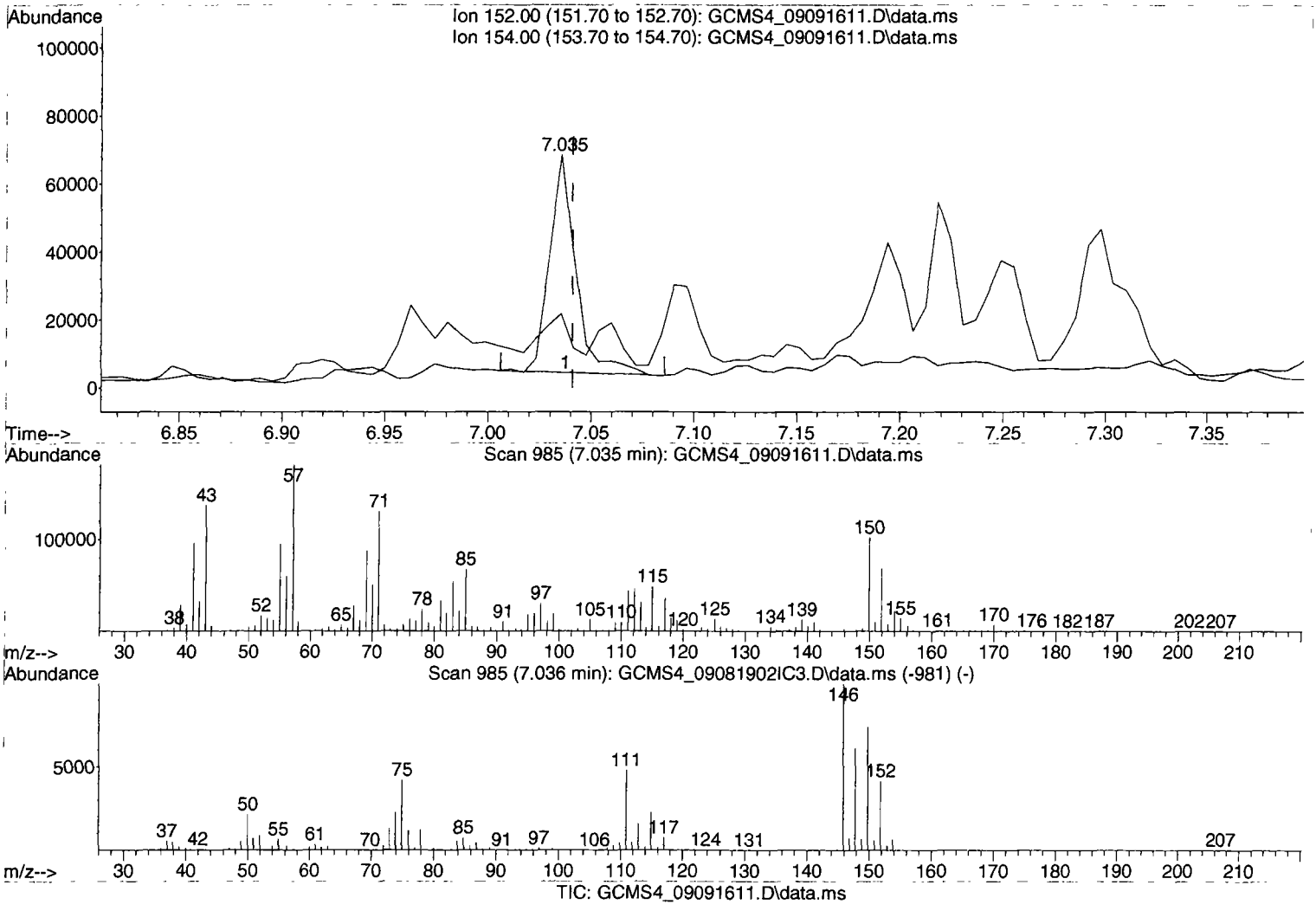
Ion	Ratio	Lower	Upper
128	100		
129	11.6	6.7	13.9



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091611.D
Acq On : 16 Sep 2009 12:26
Operator : CTANG
Sample : 0909014-02
Misc : T23-150-1.0-3.0, 4.7521 G
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 12:11:03 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.038min (-0.003) 50.00ng

response 568546

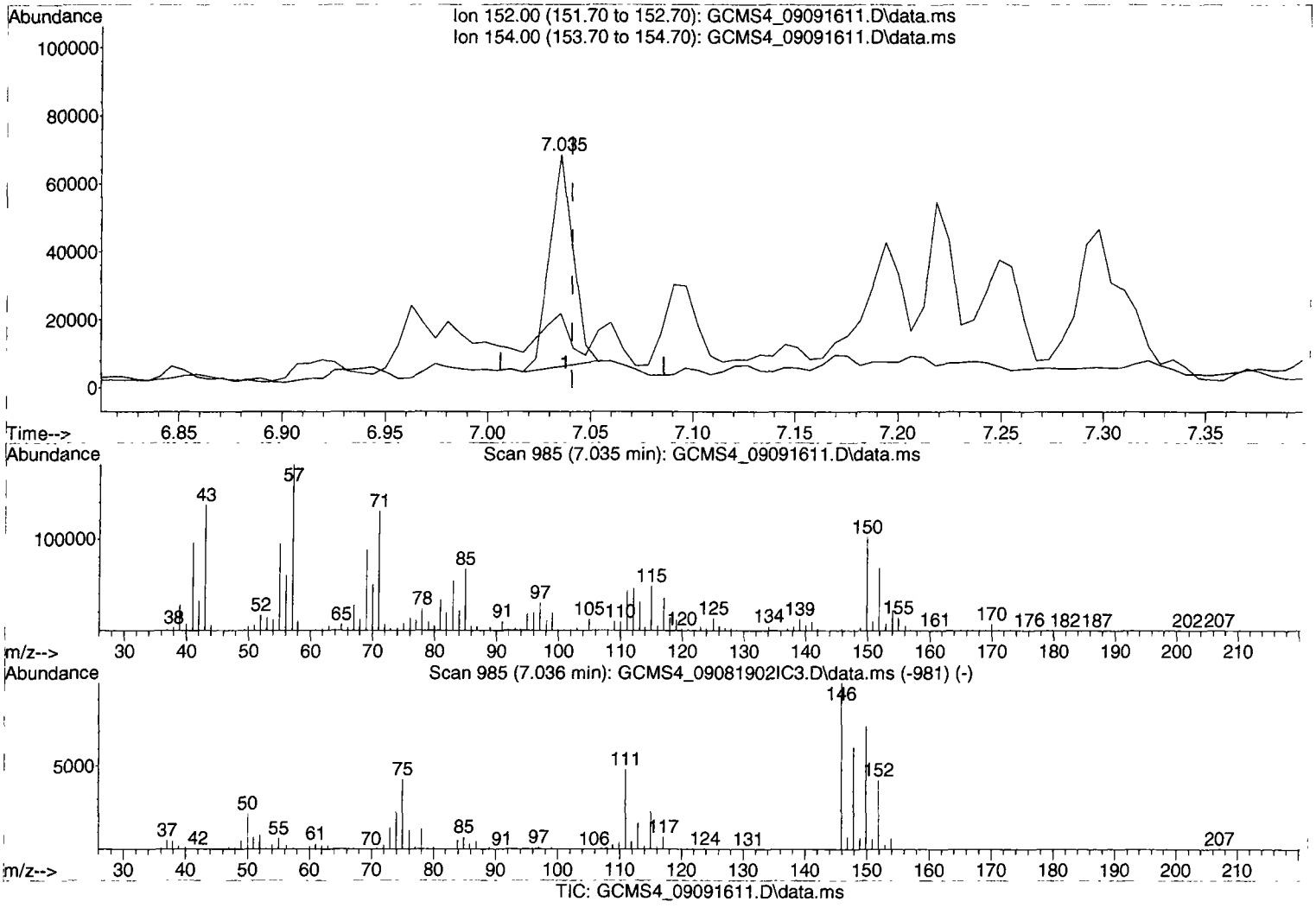
Ion	Exp%	Act%
152.00	100	100
154.00	16.80	81.44#
0.00	0.00	0.00
0.00	0.00	0.00

before IB
CMY 11/24/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091611.D
Acq On : 16 Sep 2009 12:26
Operator : CTANG
Sample : 0909014-02
Misc : T23-150-1.0-3.0, 4.7521 G
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 12:11:03 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.035min (-0.005) 50.00ng m

response 490274

Ion	Exp%	Act%
152.00	100	100
154.00	16.80	94.45#
0.00	0.00	0.00
0.00	0.00	0.00

after
cmy 11/24/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091611.D
Acq On : 16 Sep 2009 12:26
Operator : CTANG
Sample : 0909014-02
Misc : T23-150-1.0-3.0, 4.7521 G
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 25 12:40:34 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

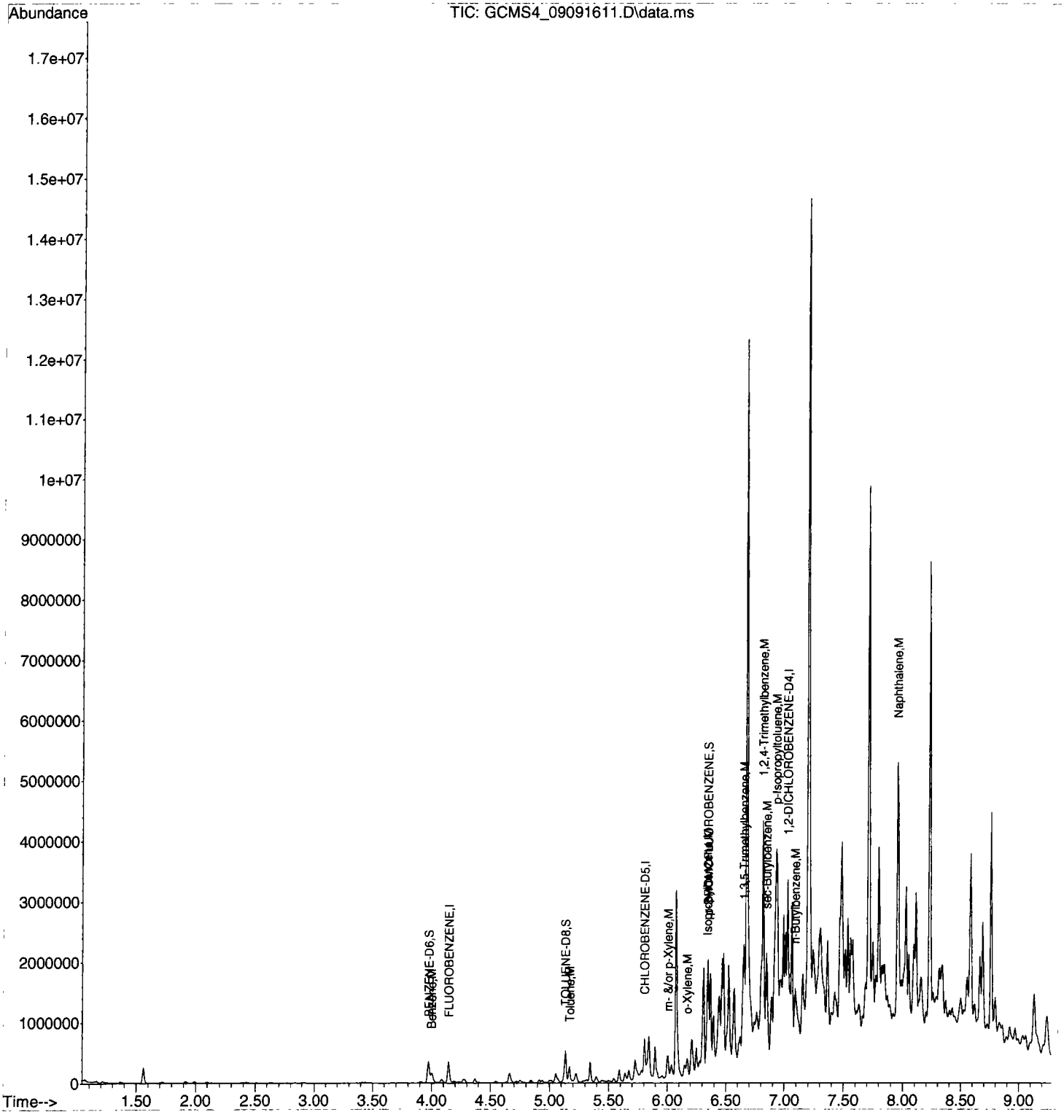
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2136523	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	800527	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.035	152	490274m	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2138832	42.92 ng		0.00
34) TOLUENE-D8	5.138	98	1868354	47.14 ng		0.00
52) p-BROMOFLUOROBENZENE	6.345	95	789524	65.13 ng		0.00
Target Compounds						Qvalue
26) Benzene	4.004	78	878467	20.16 ng		97
35) Toluene	5.172	91	1108429	23.65 ng		100
47) m- &/or p-Xylene	6.003	91	1261069	43.39 ng		99
48) o-Xylene	6.174	91	830485	27.25 ng		96
51) Isopropylbenzene	6.333	105	1160715	28.11 ng		97
59) 1,3,5-Trimethylbenzene	6.646	105	1991343	62.93 ng		92
61) 1,2,4-Trimethylbenzene	6.806	105	2856684	92.80 ng		95
62) sec-Butylbenzene	6.848	105	1227596	29.50 ng		88
63) p-Isopropyltoluene	6.928	119	4424395	129.56 ng		96
67) n-Butylbenzene	7.098	91	602463	25.43 ng	#	45
72) Naphthalene	7.961	128	21346353	762.68 ng		98

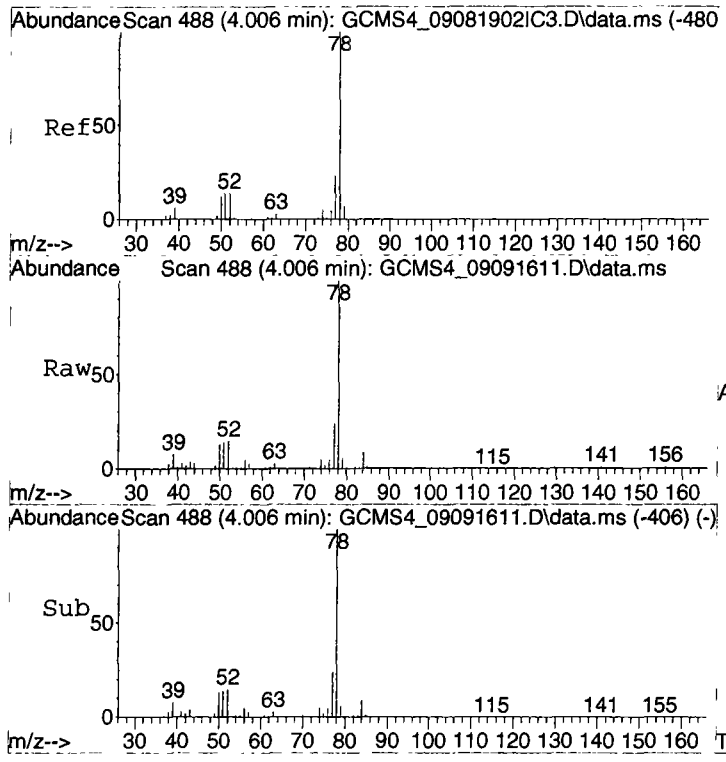
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091611.D
Acq On : 16 Sep 2009 12:26
Operator : CTANG
Sample : 0909014-02
Misc : T23-150-1.0-3.0, 4.7521 G
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 25 12:40:34 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

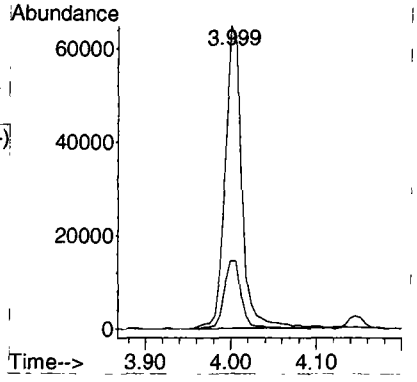


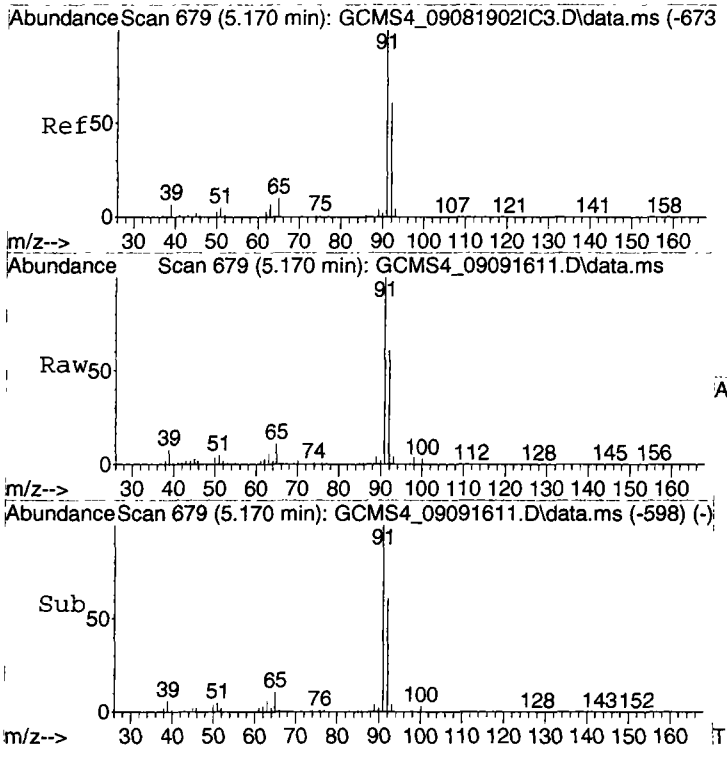


#26
Benzene
Concen: 20.16 ng
RT: 4.004 min Scan# 488
Delta R.T. -0.002 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion: 78 Resp: 878467

Ion	Ratio	Lower	Upper
78	100		
77	22.8	15.7	32.5

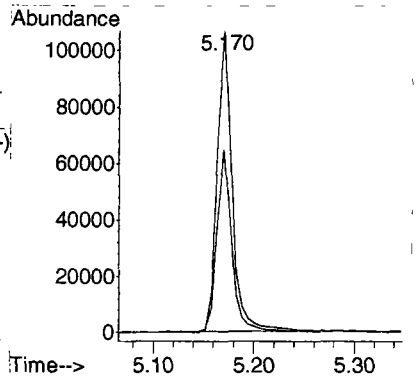


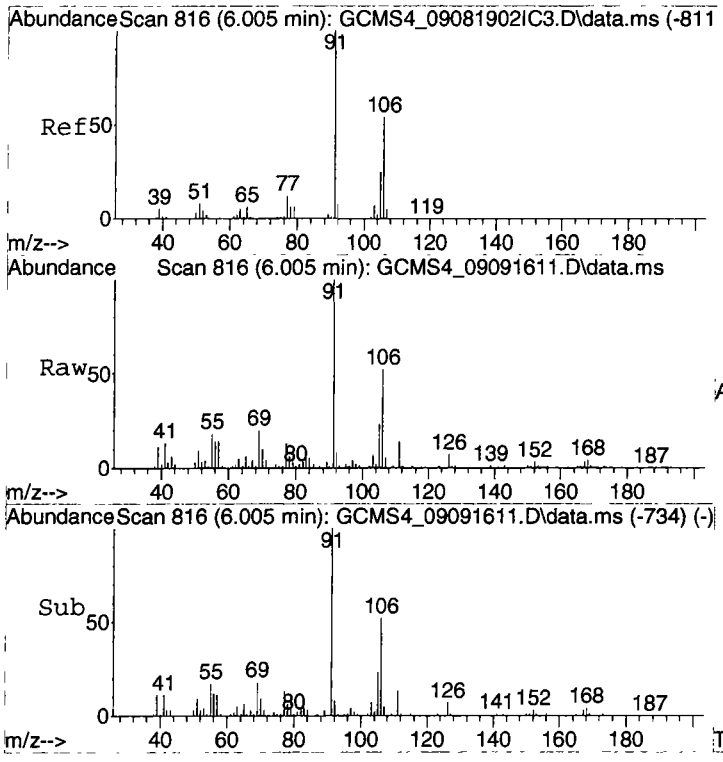


#35
Toluene
Concen: 23.65 ng
RT: 5.172 min Scan# 679
Delta R.T. -0.002 min
Lab File: GCMS4_09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion: 91 Resp: 1108429

Ion	Ratio	Lower	Upper
91	100		
92	60.3	39.5	81.9

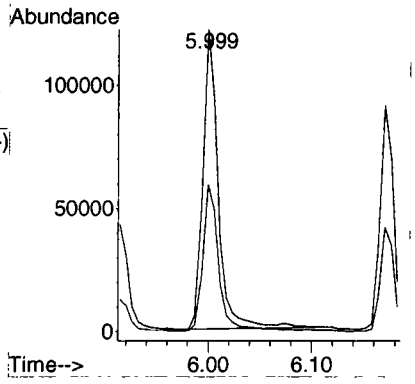


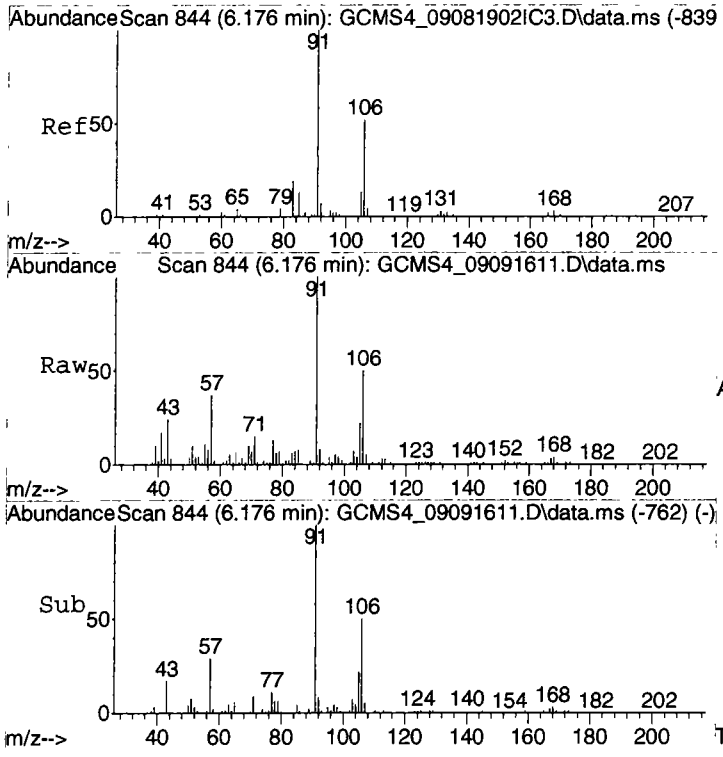


#47
m- &/or p-Xylene
Concen: 43.39 ng
RT: 6.003 min Scan# 816
Delta R.T. -0.004 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion: 91 Resp: 1261069

Ion	Ratio	Lower	Upper
91	100		
106	48.6	32.0	66.4

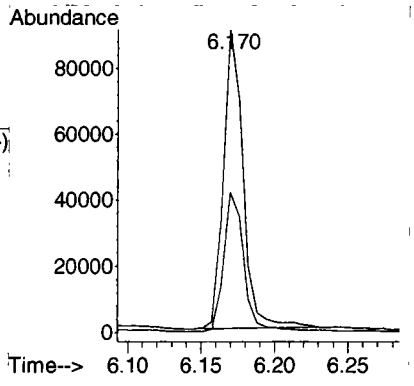


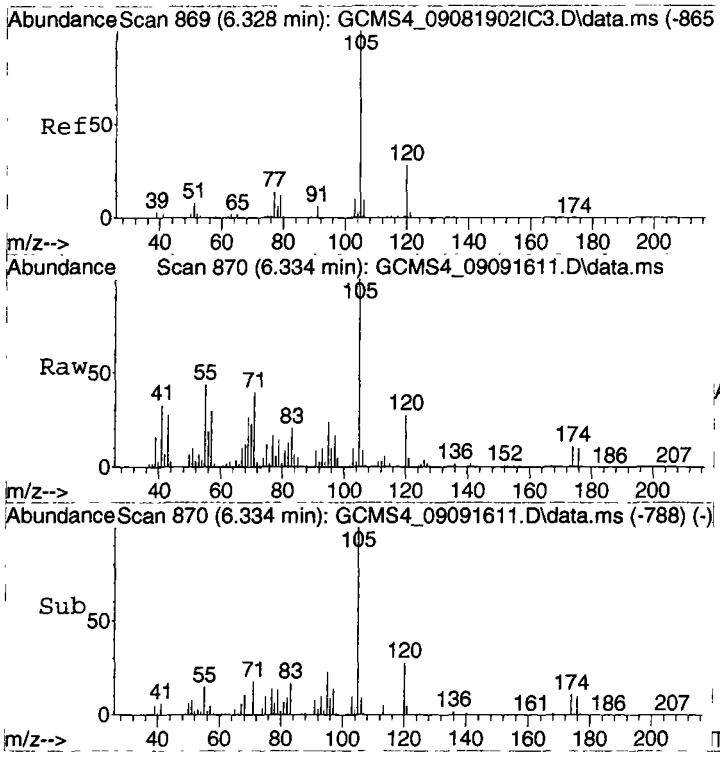


#48
o-Xylene
Concen: 27.25 ng
RT: 6.174 min Scan# 844
Delta R.T. -0.003 min
Lab File: GCMS4_09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion: 91 Resp: 830485

Ion	Ratio	Lower	Upper
91	100		
106	47.8	29.4	61.2

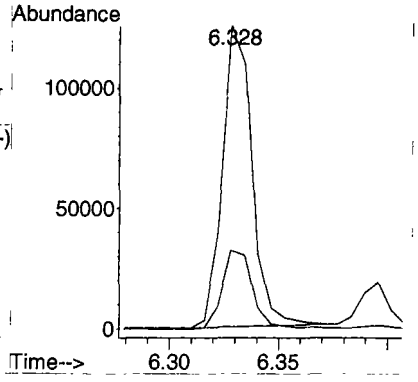


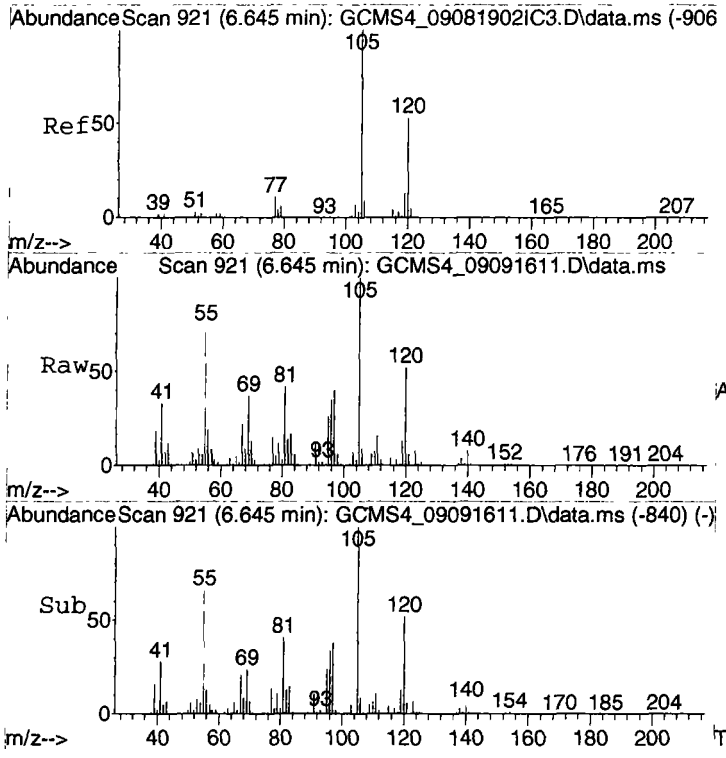


#51
Isopropylbenzene
Concen: 28.11 ng
RT: 6.333 min Scan# 870
Delta R.T. -0.002 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:105 Resp: 1160715

Ion	Ratio	Lower	Upper
105	100		
120	26.3	16.3	33.8

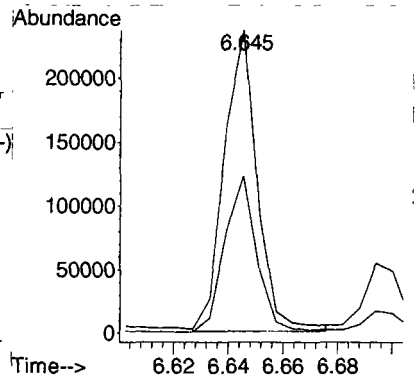


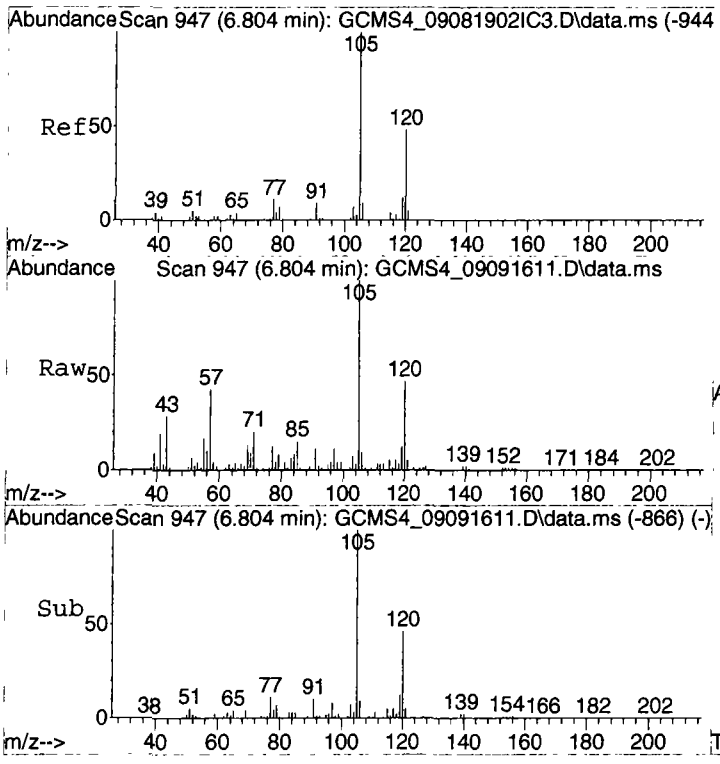


#59
1,3,5-Trimethylbenzene
Concen: 62.93 ng
RT: 6.646 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4_09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:105 Resp: 1991343

Ion	Ratio	Lower	Upper
105	100		
120	49.4	28.7	59.7

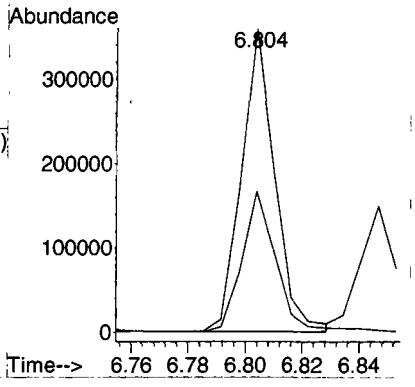


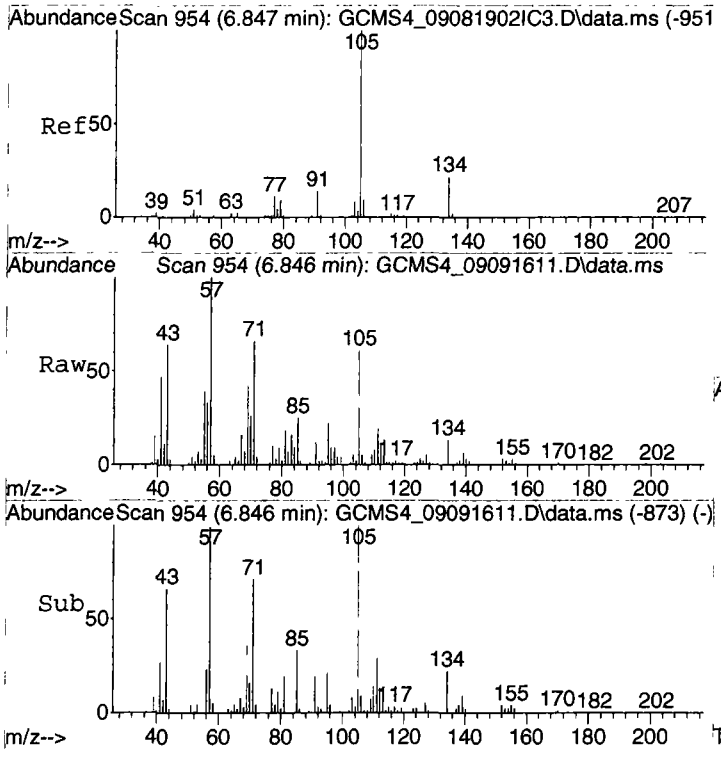


#61
1,2,4-Trimethylbenzene
Concen: 92.80 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.003 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:105 Resp: 2856684

Ion	Ratio	Lower	Upper
105	100		
120	48.5	29.3	60.8

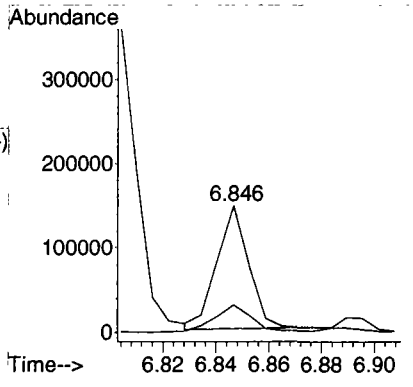


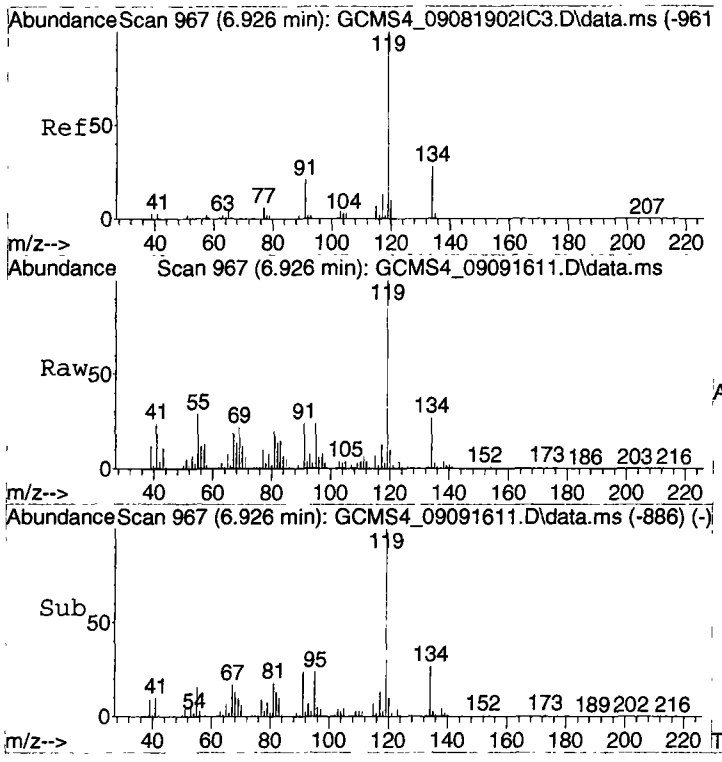


#62
sec-Butylbenzene
Concen: 29.50 ng
RT: 6.848 min Scan# 954
Delta R.T. -0.003 min
Lab File: GCMS4_09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:105 Resp: 1227596

Ion	Ratio	Lower	Upper
105	100		
134	25.1	12.7	26.3

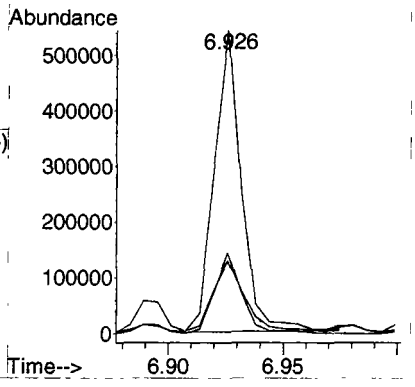


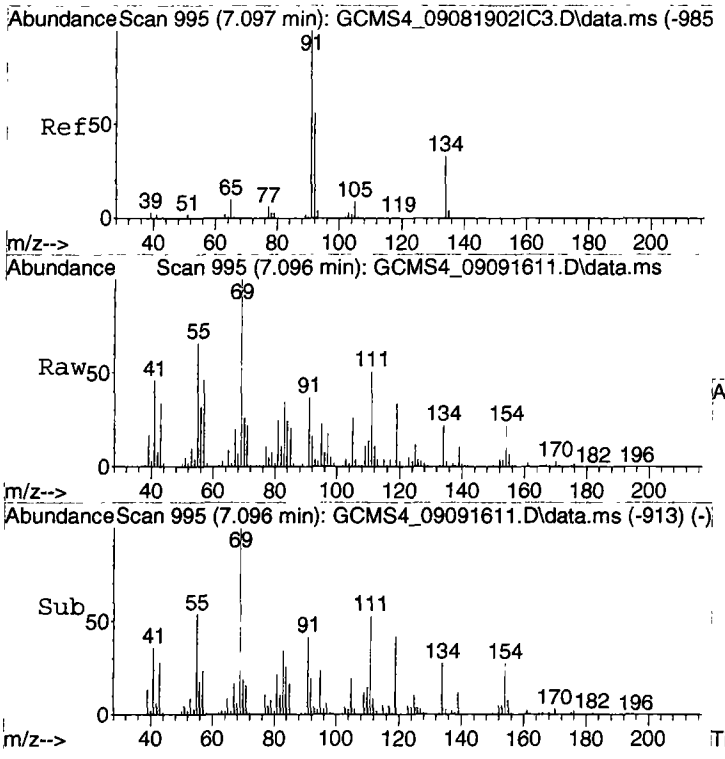


#63
p-Isopropyltoluene
Concen: 129.56 ng
RT: 6.928 min Scan# 967
Delta R.T. -0.004 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:119 Resp: 4424395

Ion	Ratio	Lower	Upper
119	100		
91	28.0	16.3	33.8
134	27.7	18.9	39.1

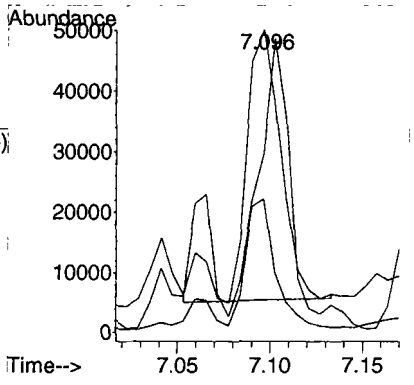


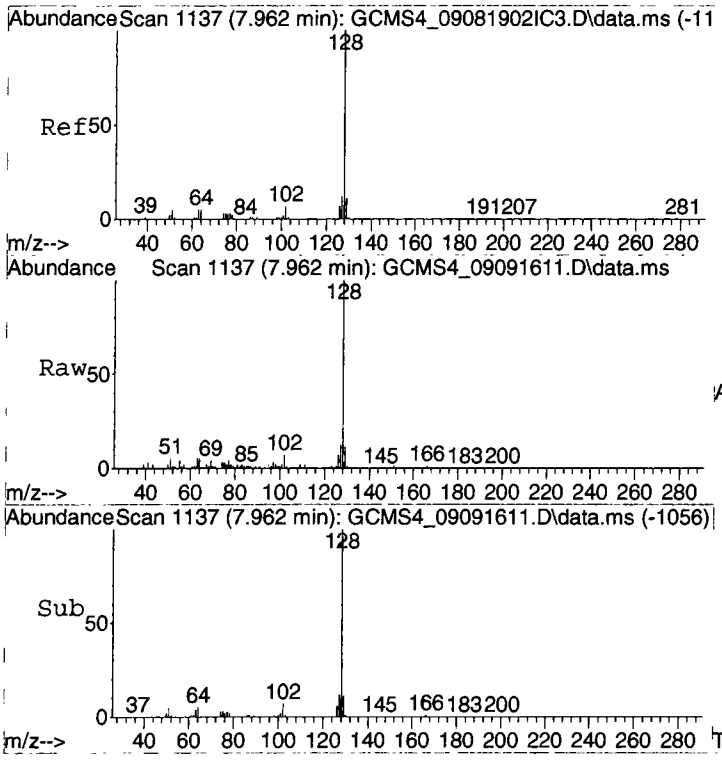


#67
n-Butylbenzene
Concen: 25.43 ng
RT: 7.098 min Scan# 995
Delta R.T. -0.001 min
Lab File: GCMS4_09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion: 91 Resp: 602463

Ion	Ratio	Lower	Upper
91	100		
134	92.3	18.3	38.1#
92	39.2	34.1	70.7

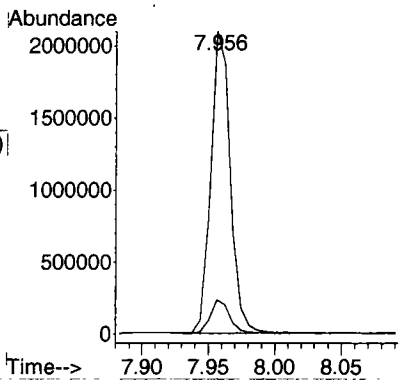




#72
Naphthalene
Concen: 762.68 ng
RT: 7.961 min Scan# 1137
Delta R.T. -0.006 min
Lab File: GCMS4 09091611.D
Acq: 16 Sep 2009 12:26

Tgt Ion:128 Resp:21346353

Ion	Ratio	Lower	Upper
128	100		
129	11.0	6.7	13.9



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091612.D
Acq On : 16 Sep 2009 12:46
Operator : CTANG
Sample : 0909014-03
Misc : T23-150-5.0-6.2, 5.1826 G
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 12:42:28 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

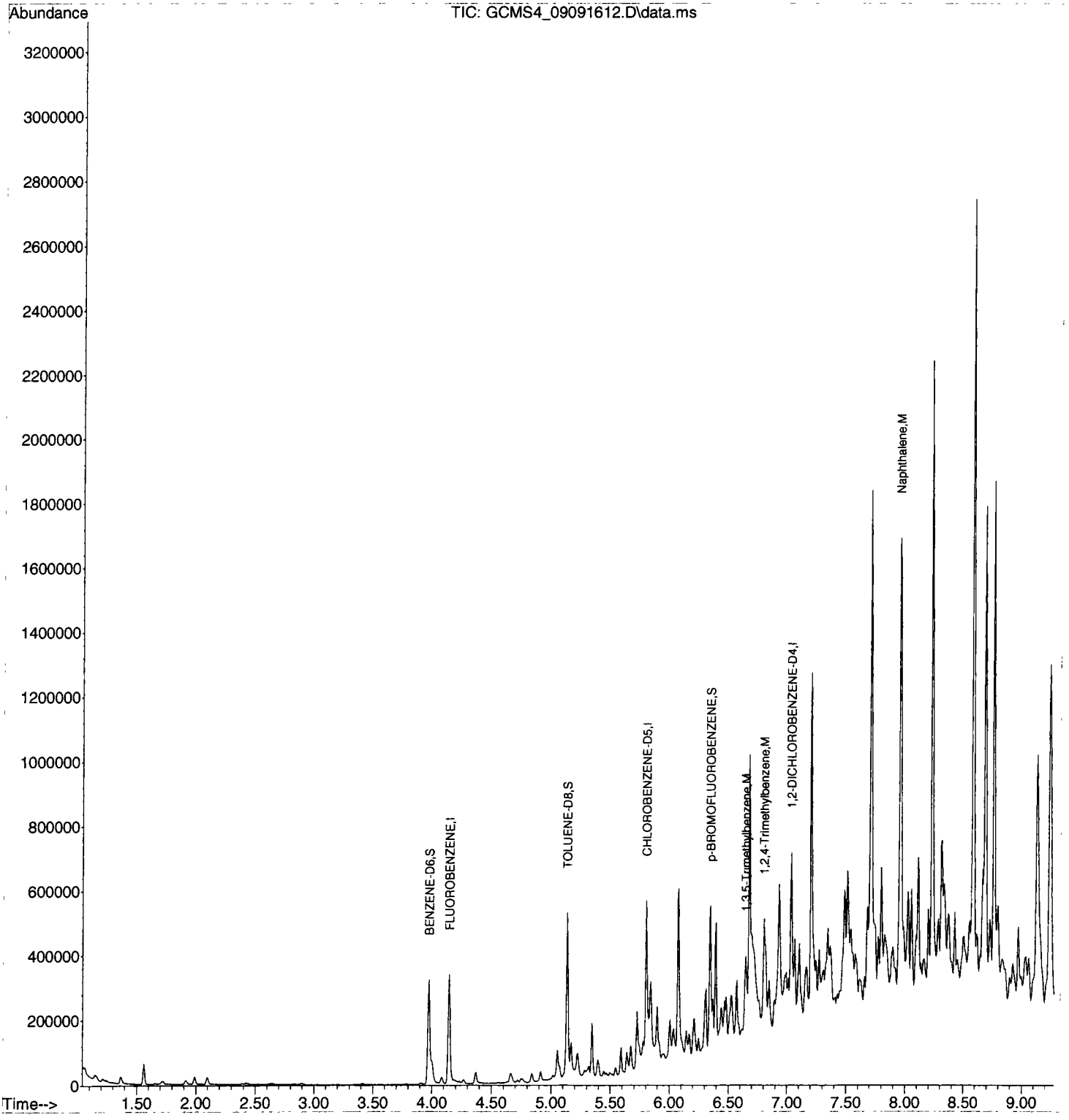
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.148	96	2089332	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.806	82	786721	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.038	152	712863	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.977	84	2043512	41.93 ng	0.00
34) TOLUENE-D8	5.138	98	1850245	47.74 ng	0.00
52) p-BROMOFLUOROBENZENE	6.345	95	602258	50.55 ng	0.00
Target Compounds					Qvalue
59) 1,3,5-Trimethylbenzene	6.647	105	512738	16.49 ng	90
61) 1,2,4-Trimethylbenzene	6.808	105	963663	31.85 ng	95
72) Naphthalene	7.962	128	7750751	190.46 ng	100

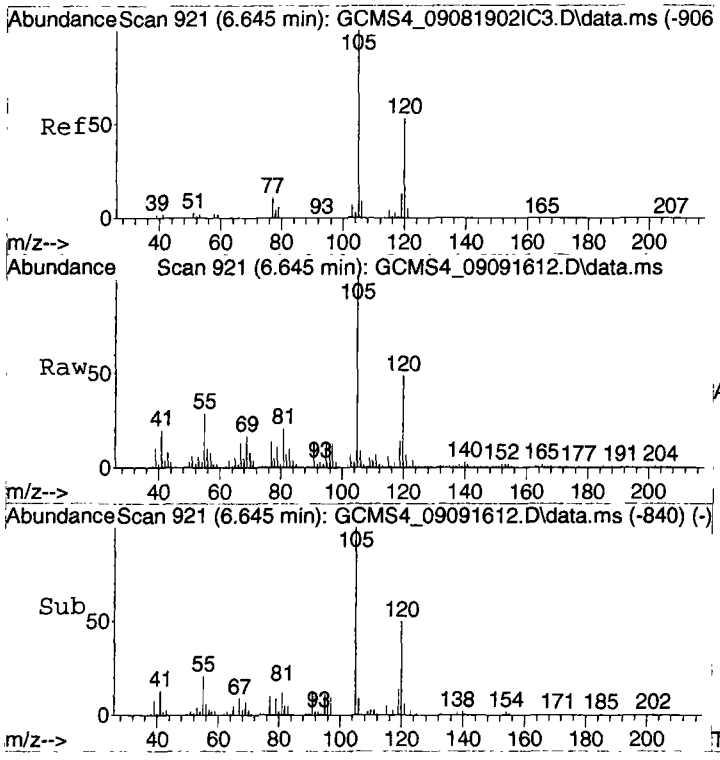
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091612.D
Acq On : 16 Sep 2009 12:46
Operator : CTANG
Sample : 0909014-03
Misc : T23-150-5.0-6.2, 5.1826 G
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 12:42:28 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

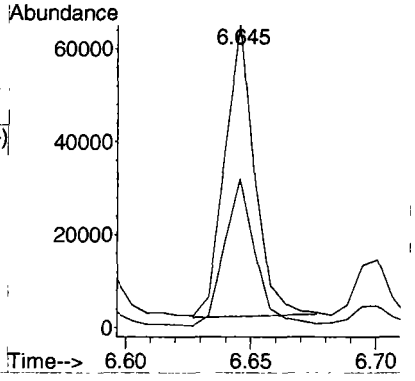


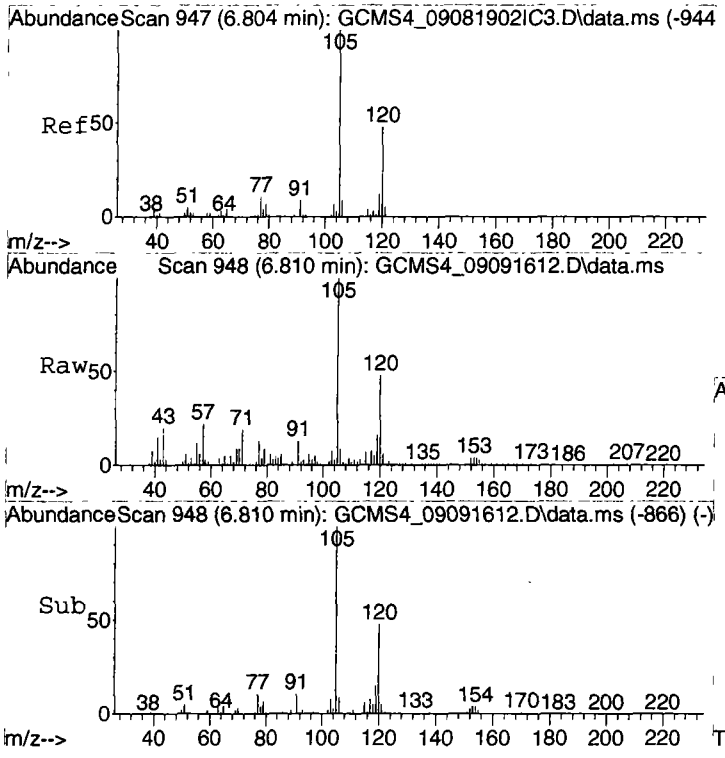


#59
1,3,5-Trimethylbenzene
Concen: 16.49 ng
RT: 6.647 min Scan# 921
Delta R.T. -0.002 min
Lab File: GCMS4 09091612.D
Acq: 16 Sep 2009 12:46

Tgt Ion:105 Resp: 512738

Ion	Ratio	Lower	Upper
105	100		
120	50.5	28.7	59.7

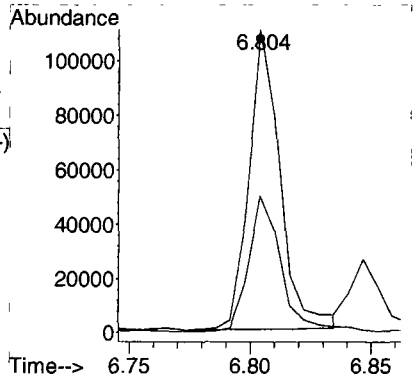


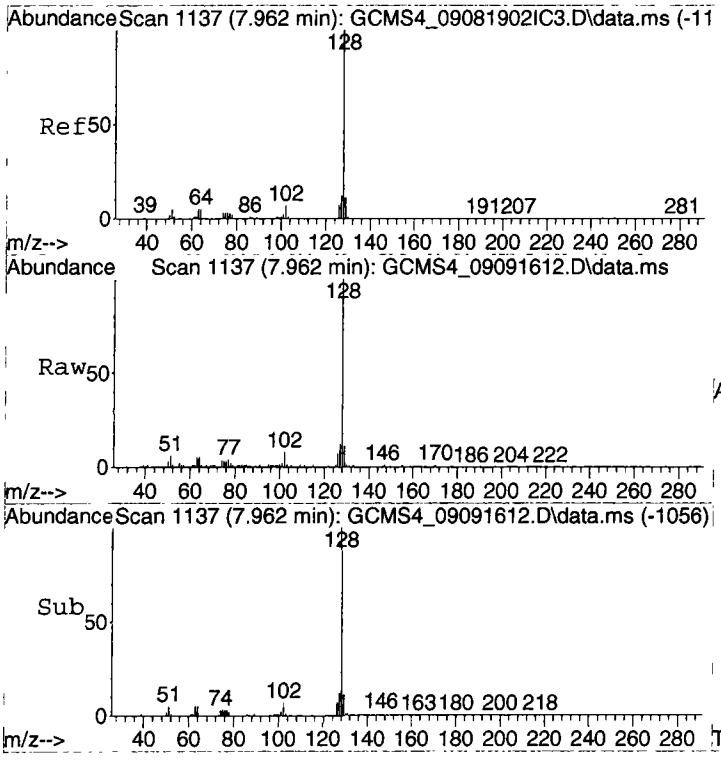


#61
1,2,4-Trimethylbenzene
Concen: 31.85 ng
RT: 6.808 min Scan# 948
Delta R.T. -0.002 min
Lab File: GCMS4_09091612.D
Acq: 16 Sep 2009 12:46

Tgt Ion:105 Resp: 963663

Ion	Ratio	Lower	Upper
105	100		
120	48.0	29.3	60.8

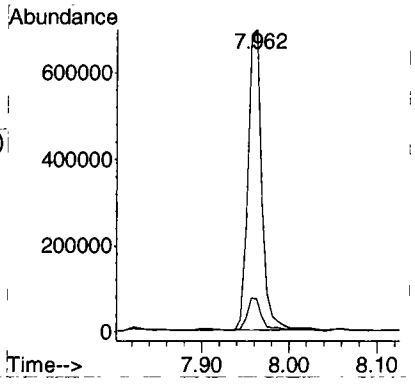




#72
Naphthalene
Concen: 190.46 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.004 min
Lab File: GCMS4 09091612.D
Acq: 16 Sep 2009 12:46

Tgt Ion:128 Resp: 7750751

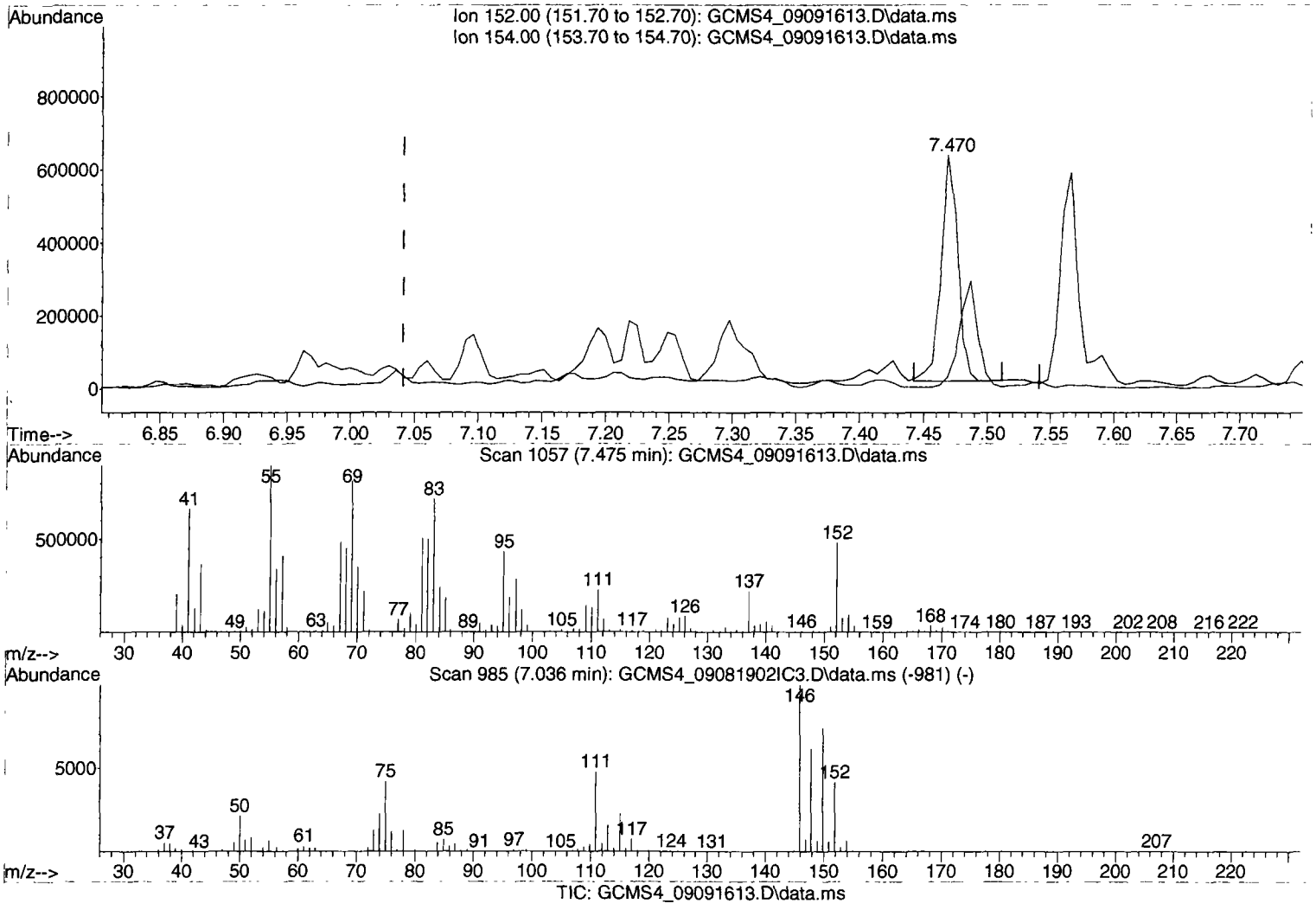
Ion	Ratio	Lower	Upper
128	100		
129	10.2	6.7	13.9



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091613.D
Acq On : 16 Sep 2009 13:07
Operator : CTANG
Sample : 0909014-04
Misc : T26-175-1.0-2.6, 5.5618 G
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 12:17:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.472min (+0.431) 50.00ng

response 5678637

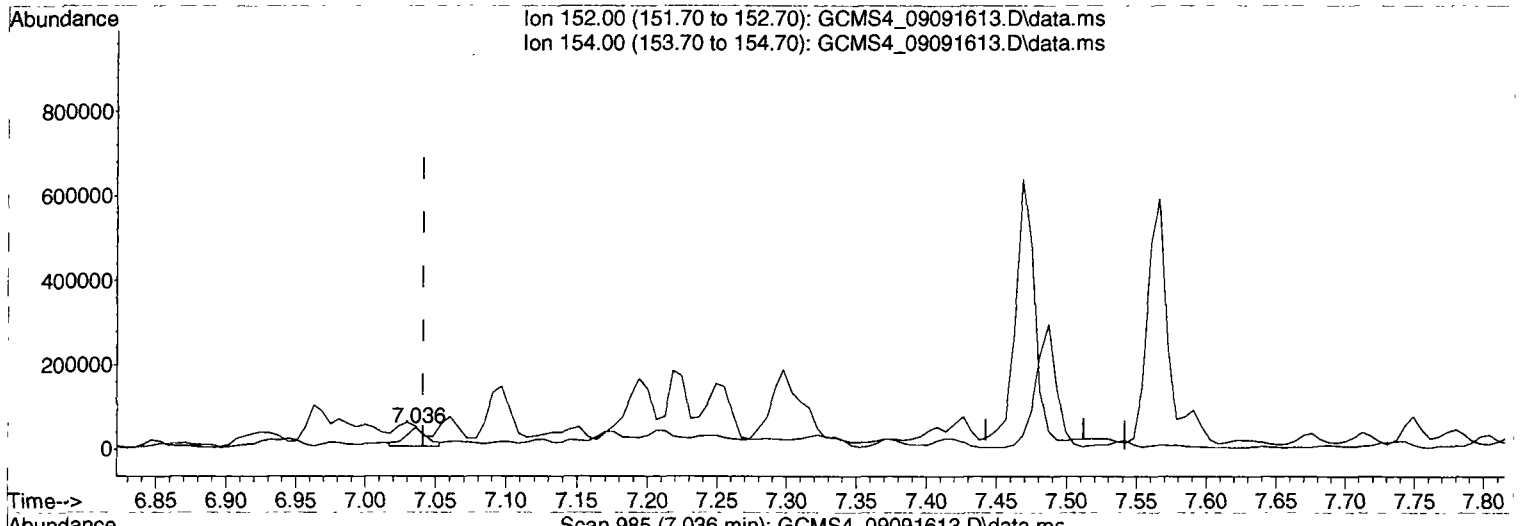
Ion	Exp%	Act%
152.00	100	100
154.00	16.80	51.49#
0.00	0.00	0.00
0.00	0.00	0.00

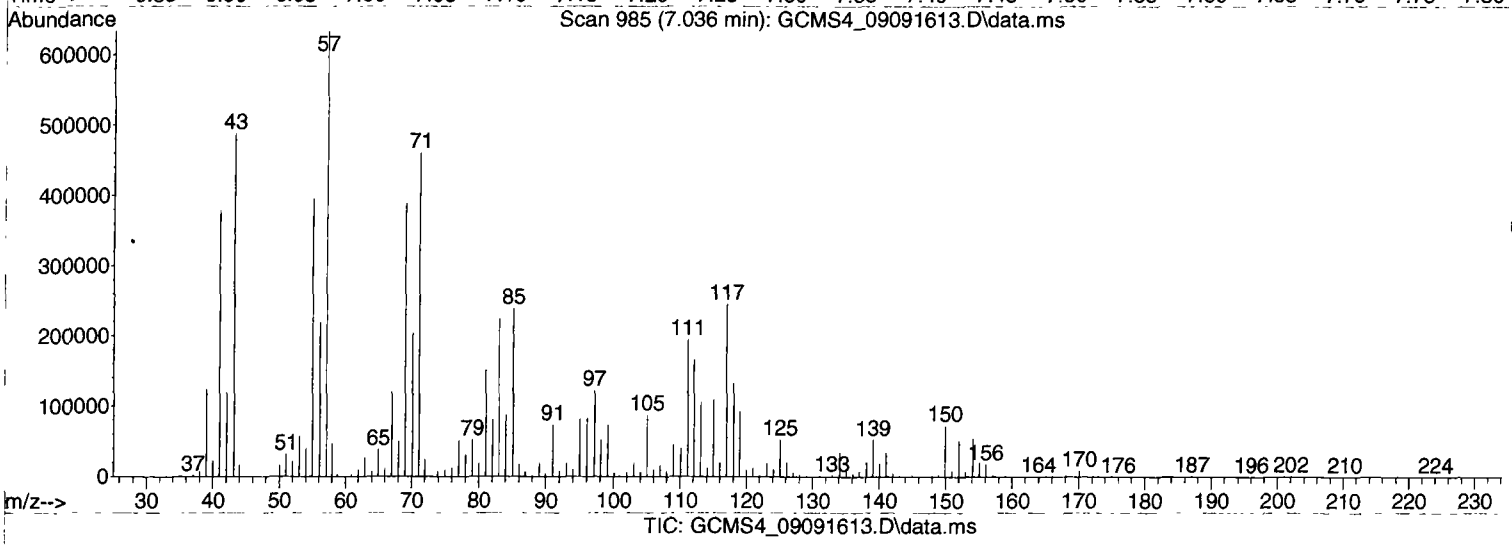
begin PS
CMY 11/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091613.D
Acq On : 16 Sep 2009 13:07
Operator : CTANG
Sample : 0909014-04
Misc : T26-175-1.0-2.6, 5.5618 G
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 12:17:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration





(66) 1,2-DICHLOROBENZENE-D4 (I)

7.036min (-0.005) 50.00ng m

response 448024

Ion	Exp%	Act%
152.00	100	100
154.00	16.80	652.65#
0.00	0.00	0.00
0.00	0.00	0.00

after
~~before~~ CMY 11/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091613.D
Acq On : 16 Sep 2009 13:07
Operator : CTANG
Sample : 0909014-04
Misc : T26-175-1.0-2.6, 5.5618 G
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 25 12:53:29 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

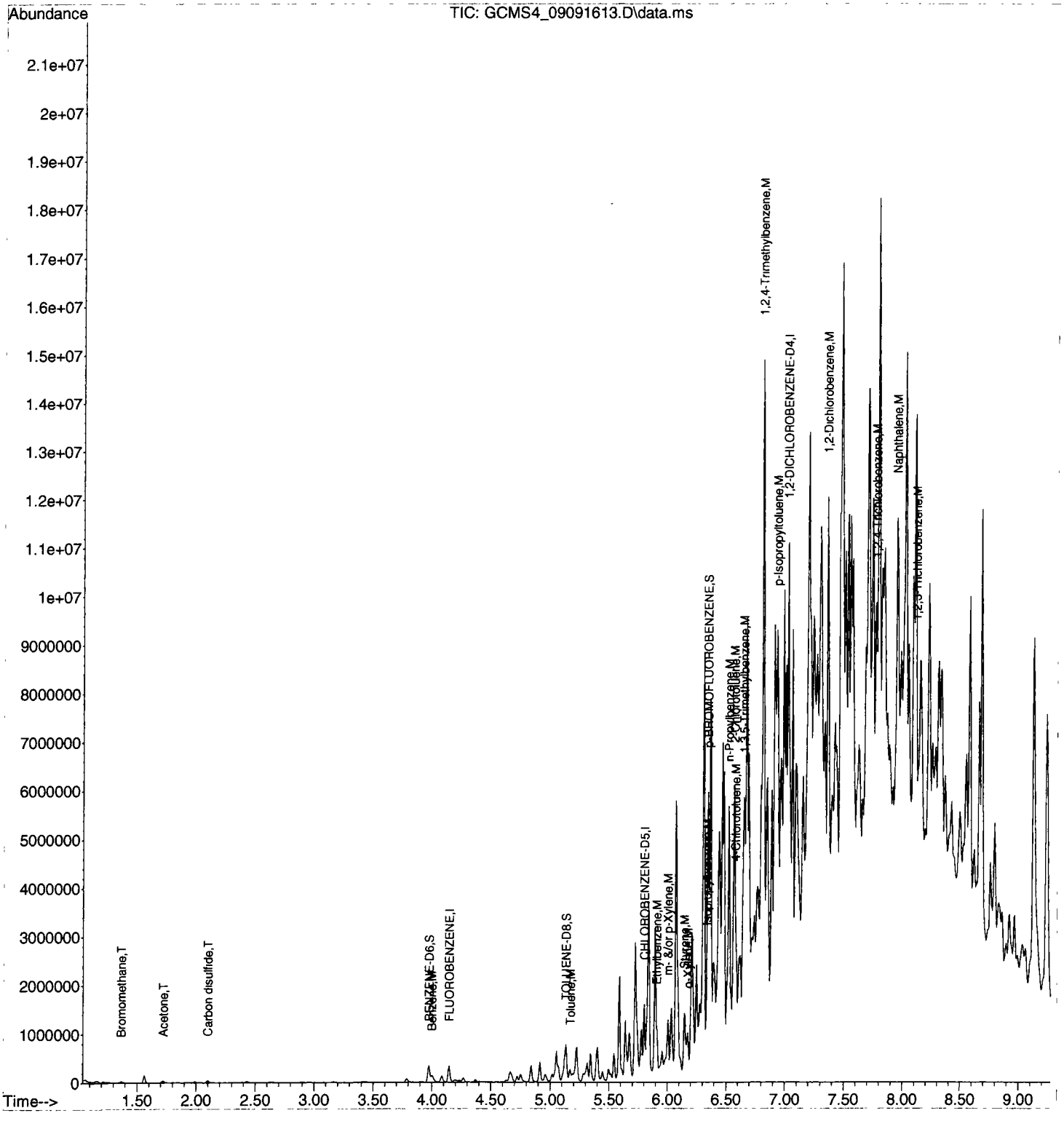
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.148	96	2013636	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	678054	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.036	152	448024m	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2012601	42.85 ng		0.00
34) TOLUENE-D8	5.138	98	1730435	46.33 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	636865	62.02 ng		0.00
Target Compounds						Qvalue
5) Bromomethane	1.371	94	107011	28.50 ng		98
10) Acetone	1.721	43	285235	84.45 ng		88
11) Carbon disulfide	2.101	76	405623	17.86 ng		98
26) Benzene	4.003	78	696848	16.97 ng		98
35) Toluene	5.172	91	828953	18.77 ng		97
46) Ethylbenzene	5.916	91	2830362	78.88 ng		98
47) m- &/or p-Xylene	6.004	91	1082857	43.99 ng		100
48) o-Xylene	6.174	91	859063	33.28 ng		97
49) Styrene	6.146	104	653588	25.71 ng	#	82
51) Isopropylbenzene	6.328	105	1329583m	38.01 ng		
56) n-Propylbenzene	6.517	91	924363m	24.64 ng		
57) 2-Chlorotoluene	6.570	91	488749	21.45 ng	#	6
58) 4-Chlorotoluene	6.585	91	327477m	14.37 ng		
59) 1,3,5-Trimethylbenzene	6.646	105	3470209	129.46 ng		92
61) 1,2,4-Trimethylbenzene	6.806	105	6214733	238.36 ng		96
63) p-Isopropyltoluene	6.928	119	3770469	130.36 ng		93
68) 1,2-Dichlorobenzene	7.363	146	173285	11.37 ng	#	1
70) 1,2,4-Trichlorobenzene	7.771	180	278141	28.62 ng	#	1
72) Naphthalene	7.962	128	27165597	1062.13 ng		94
73) 1,2,3-Trichlorobenzene	8.128	180	236226	24.40 ng	#	1

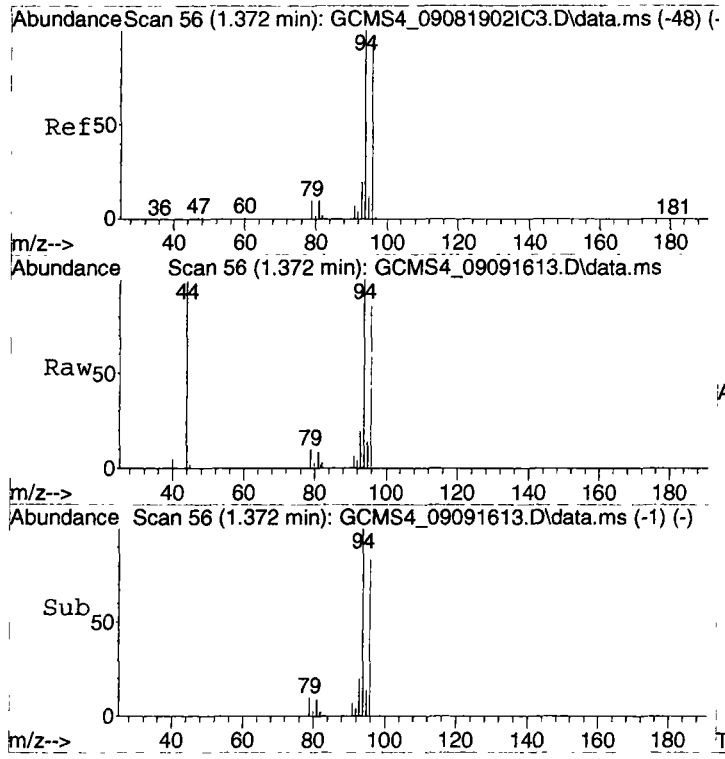
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091613.D
Acq On : 16 Sep 2009 13:07
Operator : CTANG
Sample : 0909014-04
Misc : T26-175-1.0-2.6, 5.5618 G
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 25 12:53:29 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

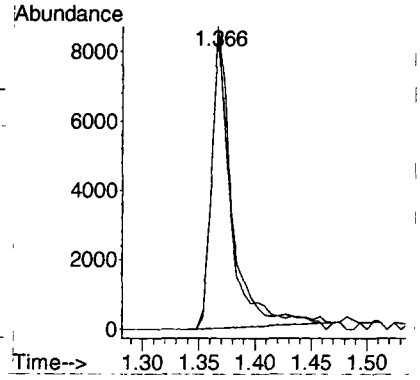


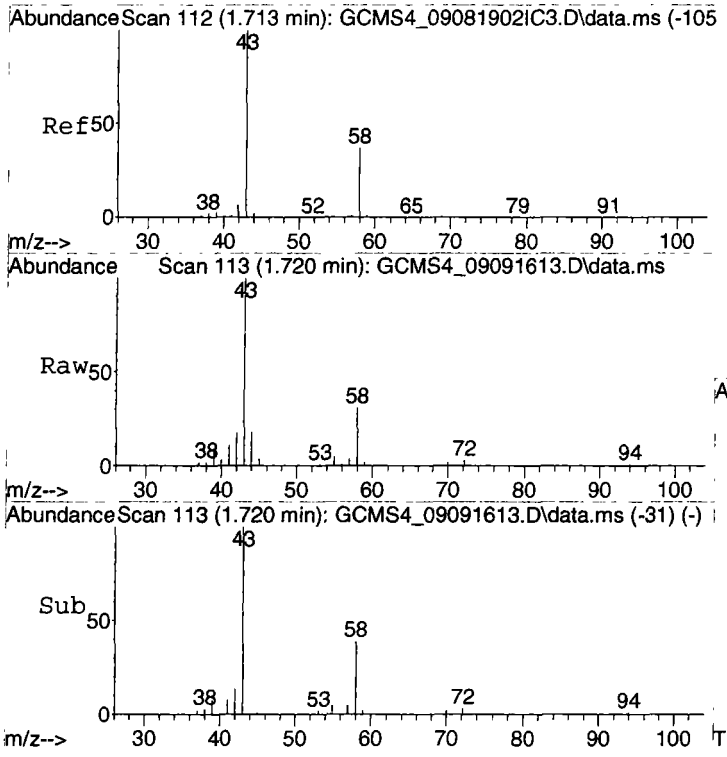


#5
Bromomethane
Concen: 28.50 ng
RT: 1.371 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 94 Resp: 107011

Ion	Ratio	Lower	Upper
94	100		
96	97.0	61.7	128.3

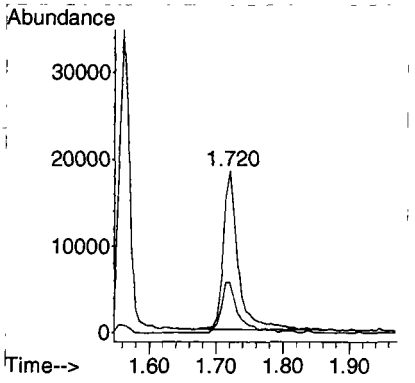


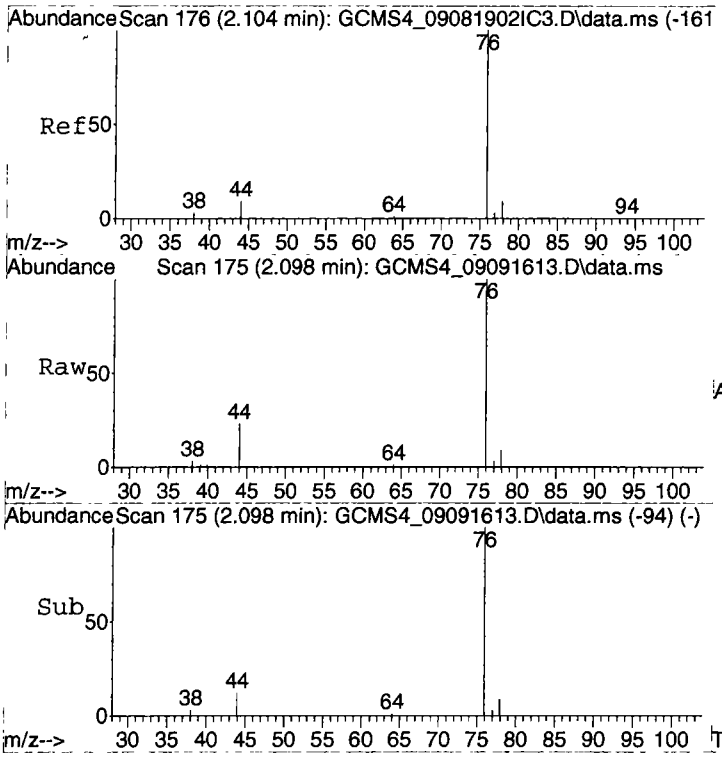


#10
Acetone
Concen: 84.45 ng
RT: 1.721 min Scan# 113
Delta R.T. 0.002 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 43 Resp: 285235

Ion	Ratio	Lower	Upper
43	100		
58	36.5	19.5	40.5

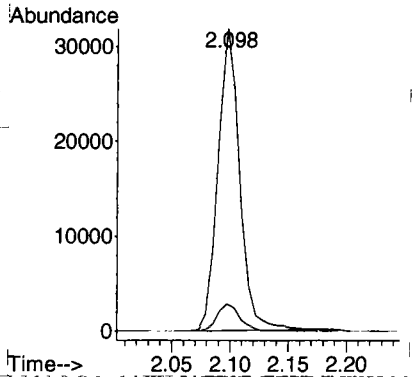


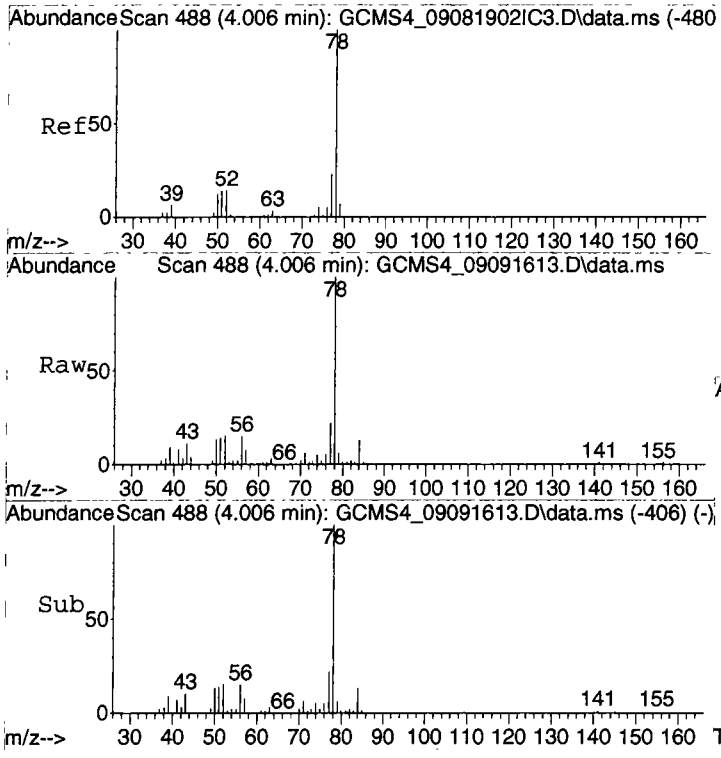


#11
Carbon disulfide
Concen: 17.86 ng
RT: 2.101 min Scan# 175
Delta R.T. -0.002 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 76 Resp: 405623

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.5	13.5

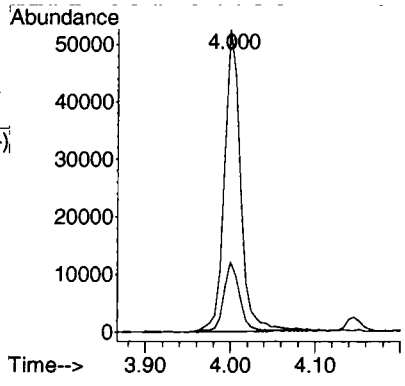


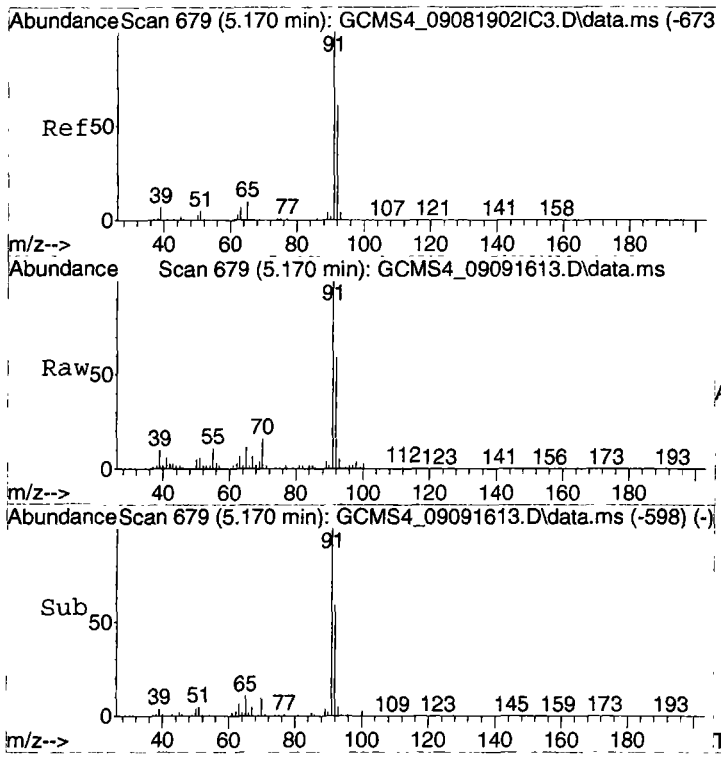


#26
Benzene
Concen: 16.97 ng
RT: 4.003 min Scan# 488
Delta R.T. -0.003 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 78 Resp: 696848

Ion	Ratio	Lower	Upper
78	100		
77	23.1	15.7	32.5

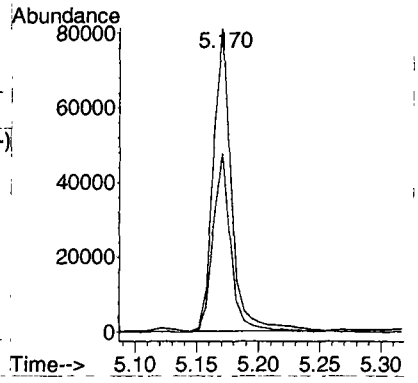


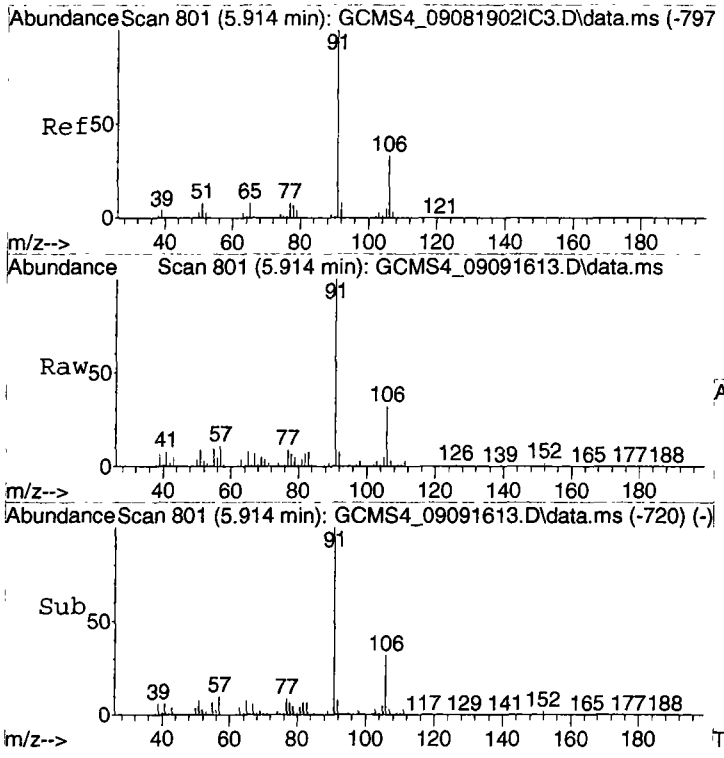


#35
Toluene
Concen: 18.77 ng
RT: 5.172 min Scan# 679
Delta R.T. -0.002 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 828953

Ion	Ratio	Lower	Upper
91	100		
92	58.3	39.5	81.9

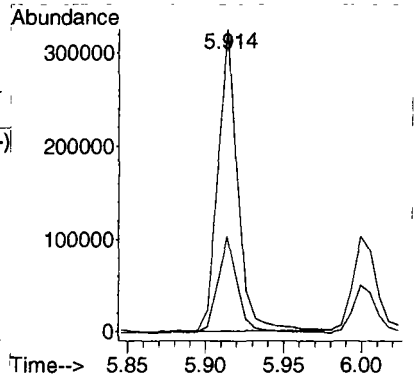


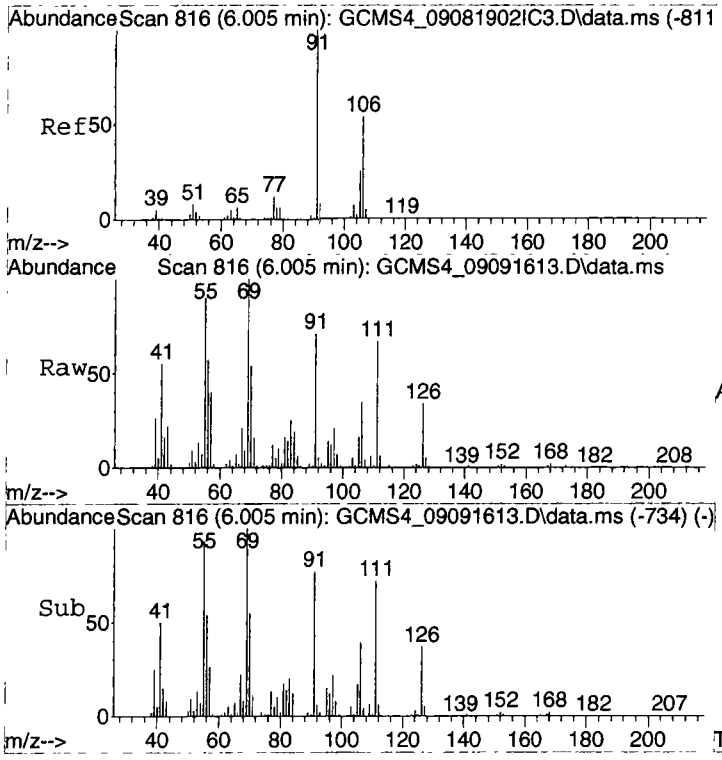


#46
Ethylbenzene
Concen: 78.88 ng
RT: 5.916 min Scan# 801
Delta R.T. -0.003 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 2830362

Ion	Ratio	Lower	Upper
91	100		
106	32.0	20.0	41.6

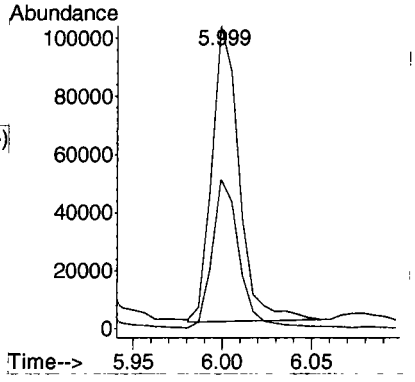


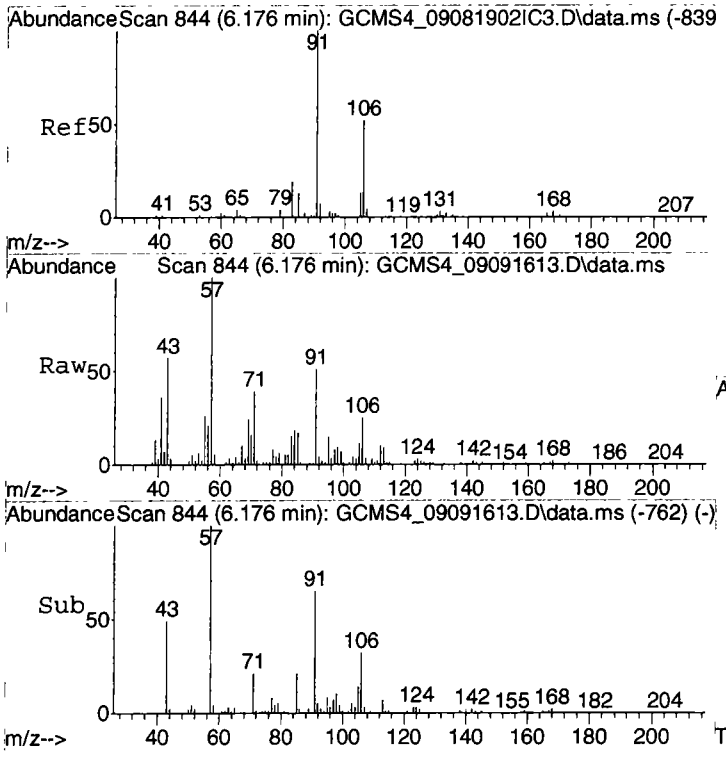


#47
m- &/or p-Xylene
Concen: 43.99 ng
RT: 6.004 min Scan# 816
Delta R.T. -0.003 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 1082857

Ion	Ratio	Lower	Upper
91	100		
106	49.1	32.0	66.4

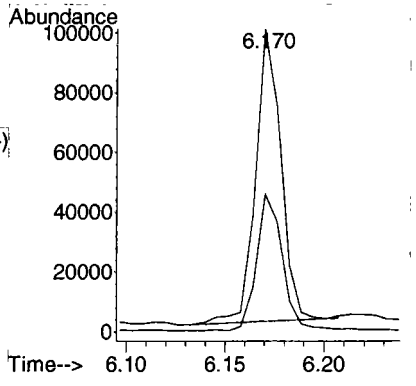


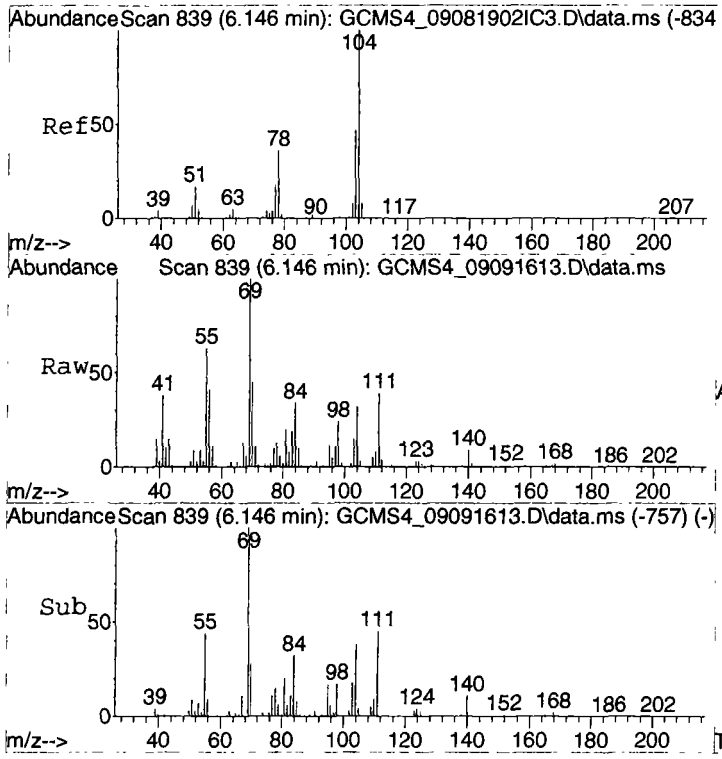


#48
o-Xylene
Concen: 33.28 ng
RT: 6.174 min Scan# 844
Delta R.T. -0.003 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 859063

Ion	Ratio	Lower	Upper
91	100		
106	47.3	29.4	61.2

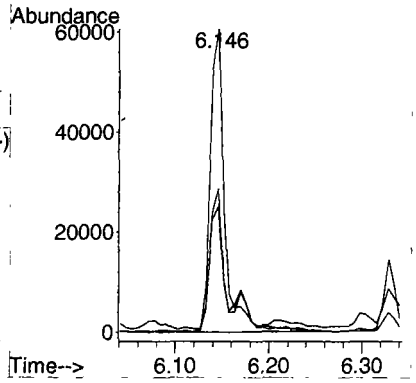


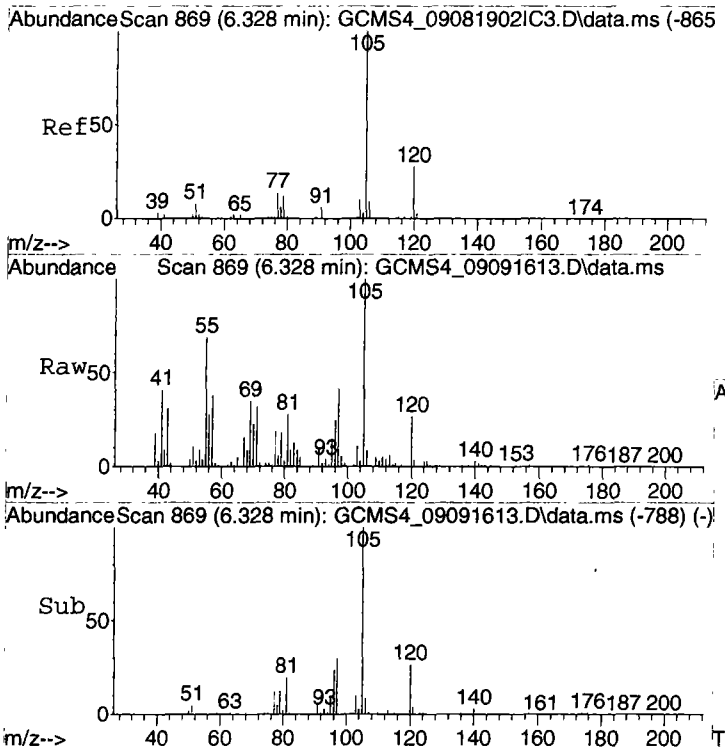


#49
Styrene
Concen: 25.71 ng
RT: 6.146 min Scan# 839
Delta R.T. -0.002 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:104 Resp: 653588

Ion	Ratio	Lower	Upper
104	100		
103	50.2	28.0	58.1
78	28.9	29.4	61.2#

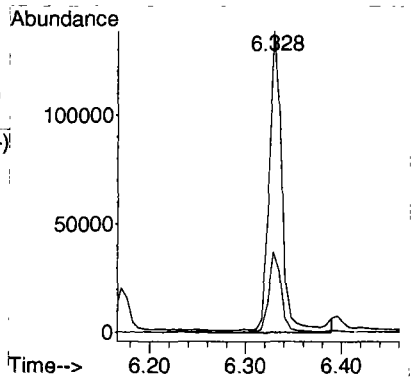


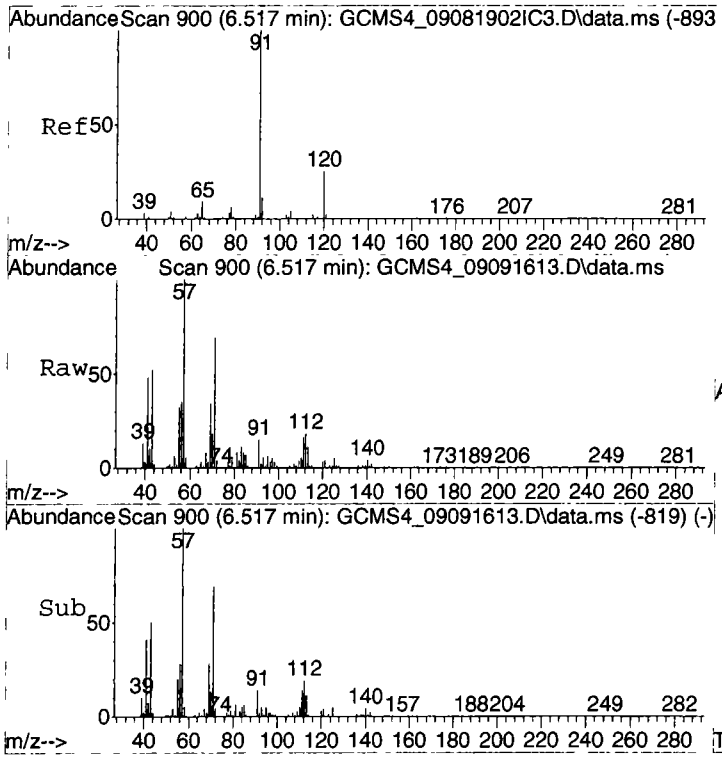


#51
Isopropylbenzene
Concen: 38.01 ng m
RT: 6.328 min Scan# 869
Delta R.T. -0.007 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:105 Resp: 1329583

Ion	Ratio	Lower	Upper
105	100		
120	86.3	16.3	33.8#

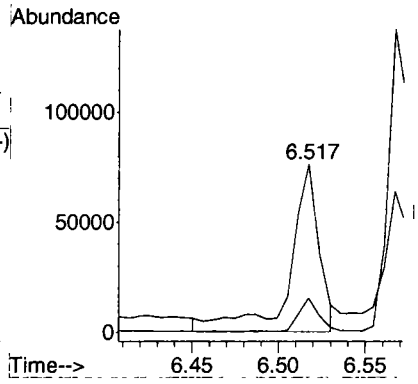


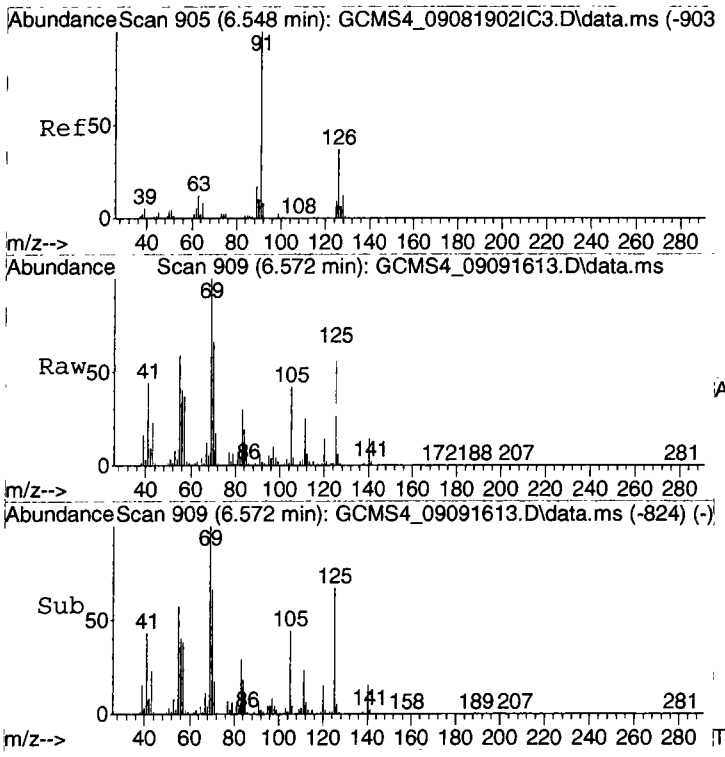


#56
n-Propylbenzene
Concen: 24.64 ng m
RT: 6.517 min Scan# 900
Delta R.T. -0.004 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 924363

Ion	Ratio	Lower	Upper
91	100		
120	37.9	16.3	33.8#

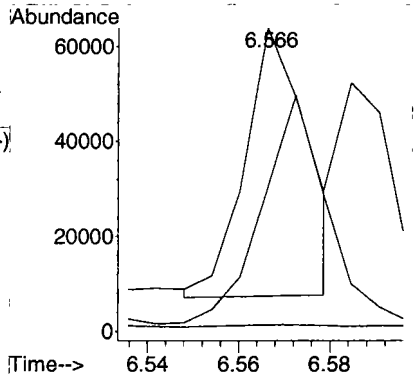


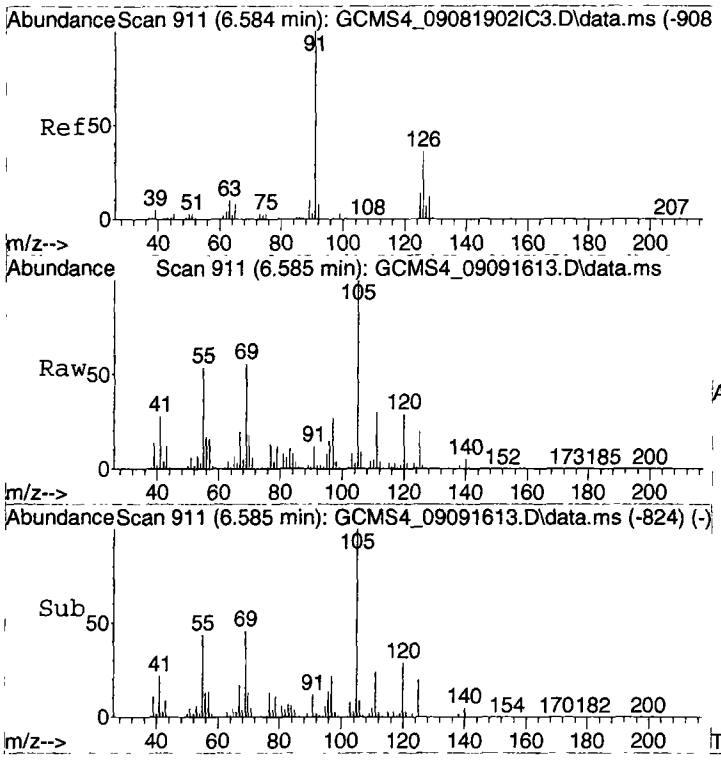


#57
2-Chlorotoluene
Concen: 21.45 ng
RT: 6.570 min Scan# 909
Delta R.T. 0.016 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 488749

Ion	Ratio	Lower	Upper
91	100		
126	94.0	19.9	41.3#
128	0.0	5.5	14.5#

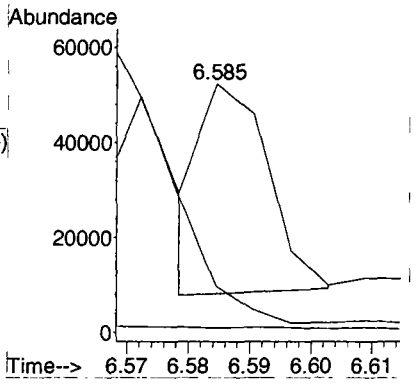


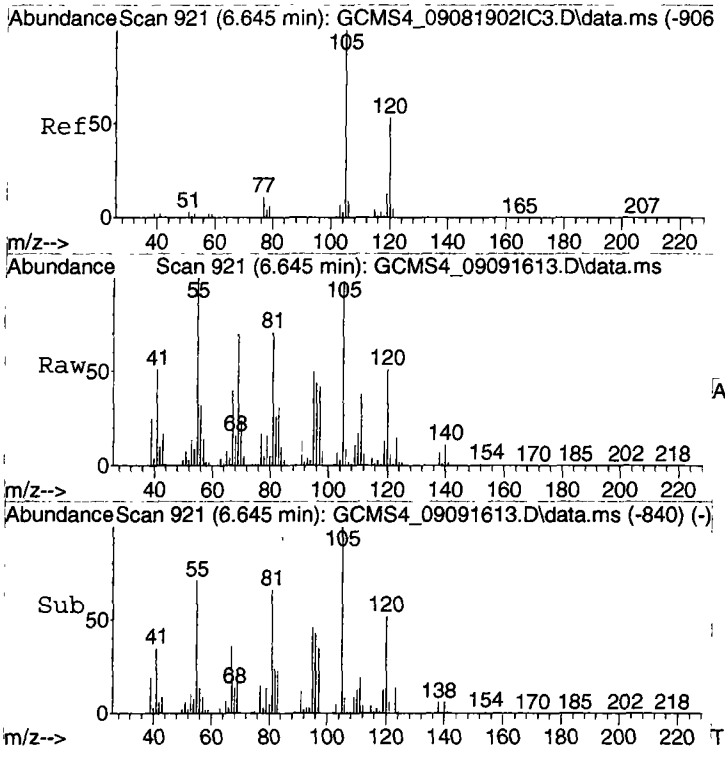


#58
4-Chlorotoluene
Concen: 14.37 ng m
RT: 6.585 min Scan# 911
Delta R.T. 0.030 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion: 91 Resp: 327477

Ion	Ratio	Lower	Upper
91	100		
126	140.3	18.5	38.3#
128	0.0	5.5	14.5#

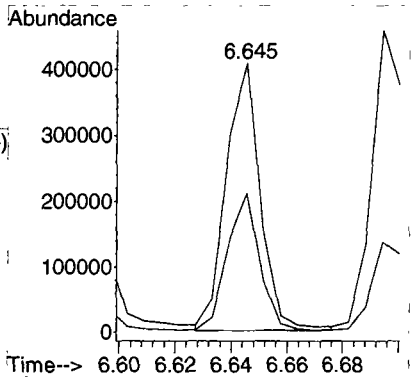


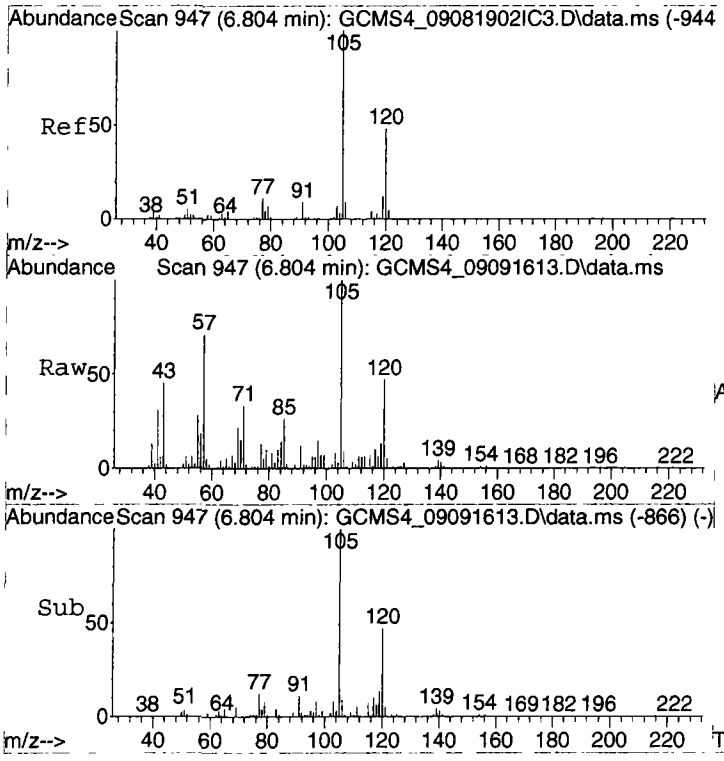


#59
1,3,5-Trimethylbenzene
Concen: 129.46 ng
RT: 6.646 min Scan# 921
Delta R.T. -0.003 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:105 Resp: 3470209

Ion	Ratio	Lower	Upper
105	100		
120	49.6	28.7	59.7

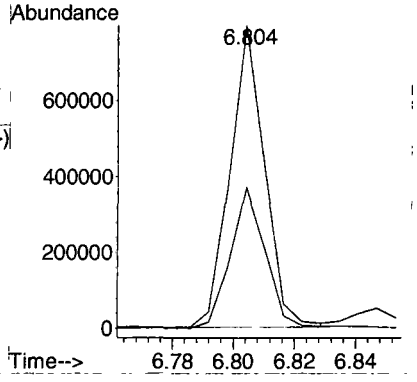


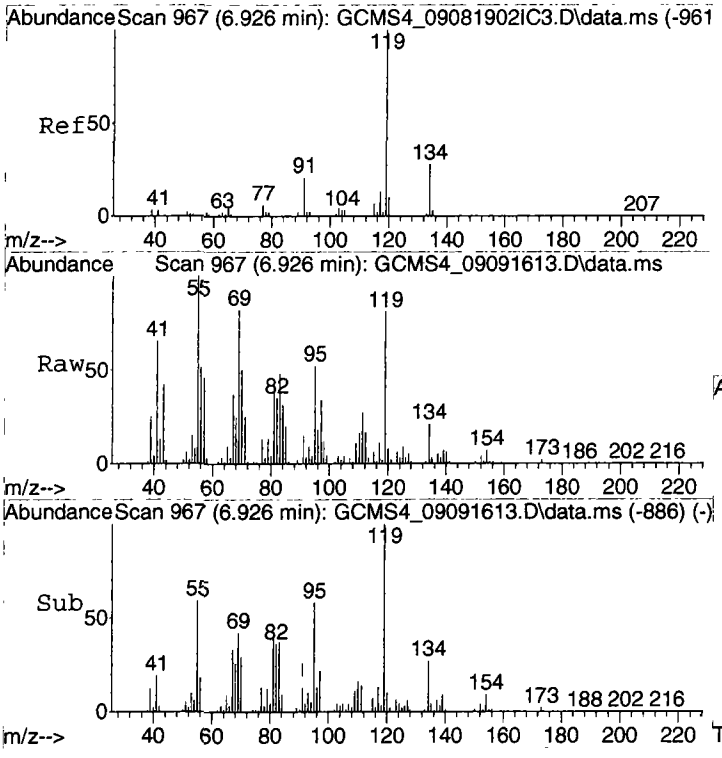


#61
1,2,4-Trimethylbenzene
Concen: 238.36 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.003 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:105 Resp: 6214733

Ion	Ratio	Lower	Upper
105	100		
120	47.8	29.3	60.8

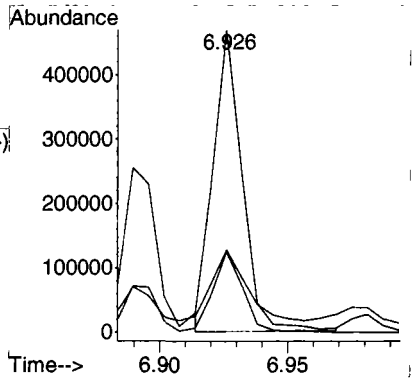


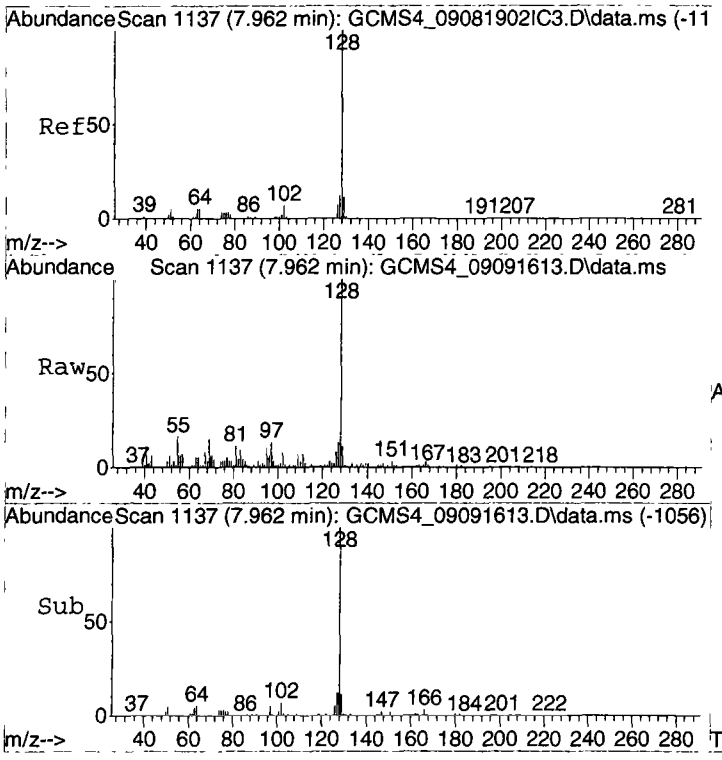


#63
p-Isopropyltoluene
Concen: 130.36 ng
RT: 6.928 min Scan# 967
Delta R.T. -0.003 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:119 Resp: 3770469

Ion	Ratio	Lower	Upper
119	100		
91	30.3	16.3	33.8
134	27.2	18.9	39.1

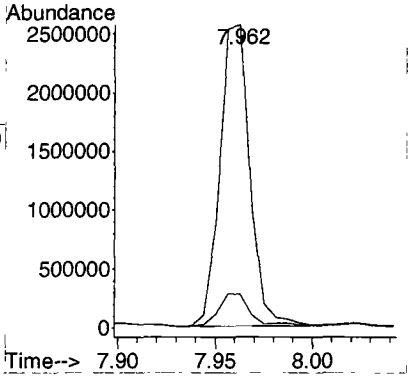


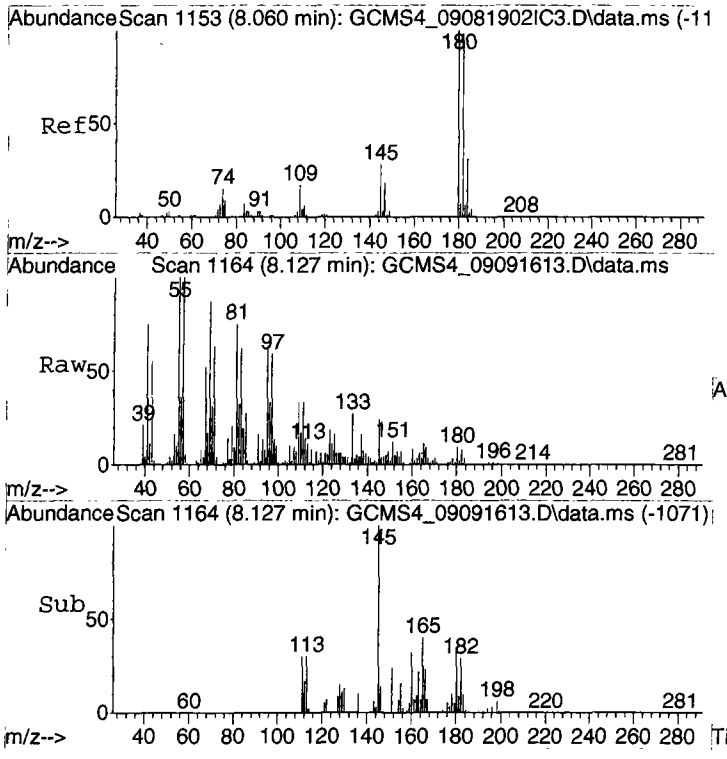


#72
Naphthalene
Concen: 1062.13 ng
RT: 7.962 min Scan# 1137
Delta R.T. -0.004 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:128 Resp:27165597

Ion	Ratio	Lower	Upper
128	100		
129	12.6	6.7	13.9

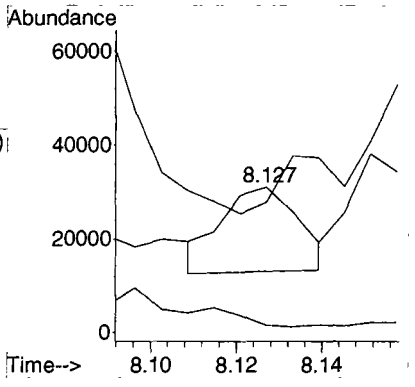


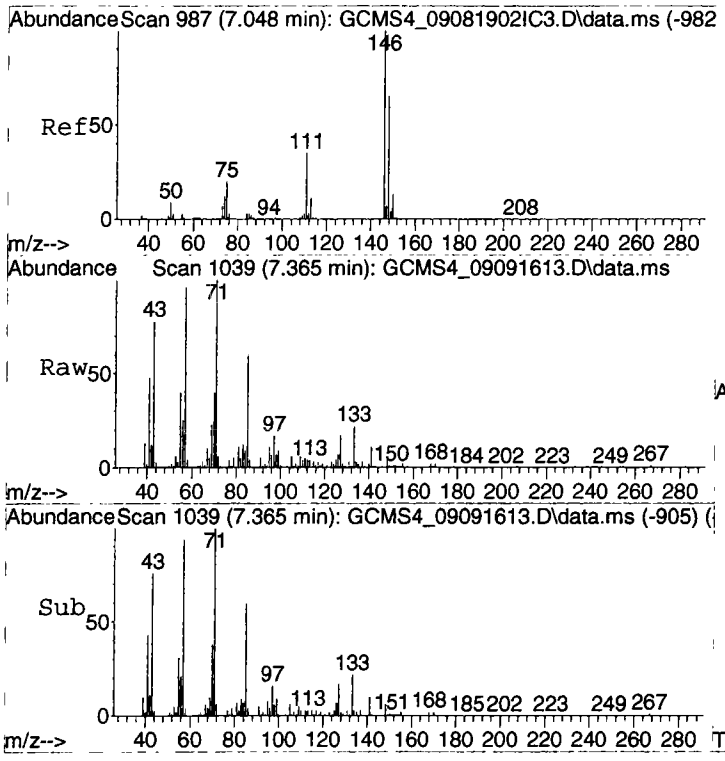


#73
1,2,3-Trichlorobenzene
Concen: 24.40 ng
RT: 8.128 min Scan# 1164
Delta R.T. 0.067 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:180 Resp: 236226

Ion	Ratio	Lower	Upper
180	100		
182	404.6	59.9	124.5#
184	0.0	19.6	40.6#

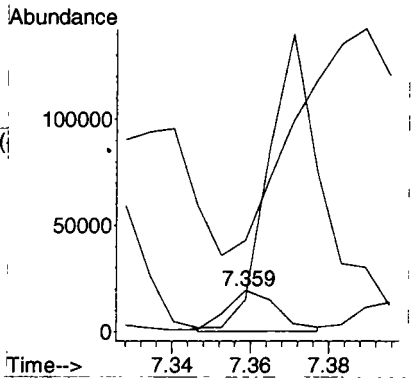


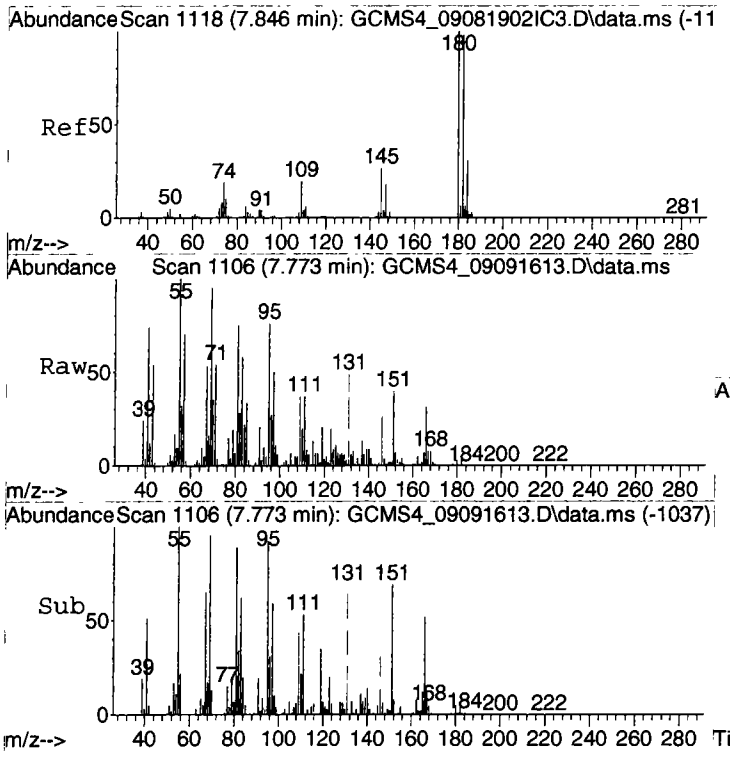


#68
1,2-Dichlorobenzene
Concen: 11.37 ng
RT: 7.363 min Scan# 1039
Delta R.T. 0.313 min
Lab File: GCMS4 09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:146 Resp: 173285

Ion	Ratio	Lower	Upper
146	100		
148	821.9	42.6	88.4#
111	0.0	30.6	63.6#

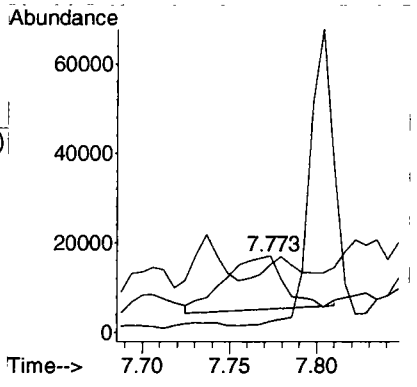




#70
1,2,4-Trichlorobenzene
Concen: 28.62 ng
RT: 7.771 min Scan# 1106
Delta R.T. -0.081 min
Lab File: GCMS4_09091613.D
Acq: 16 Sep 2009 13:07

Tgt Ion:180 Resp: 278141

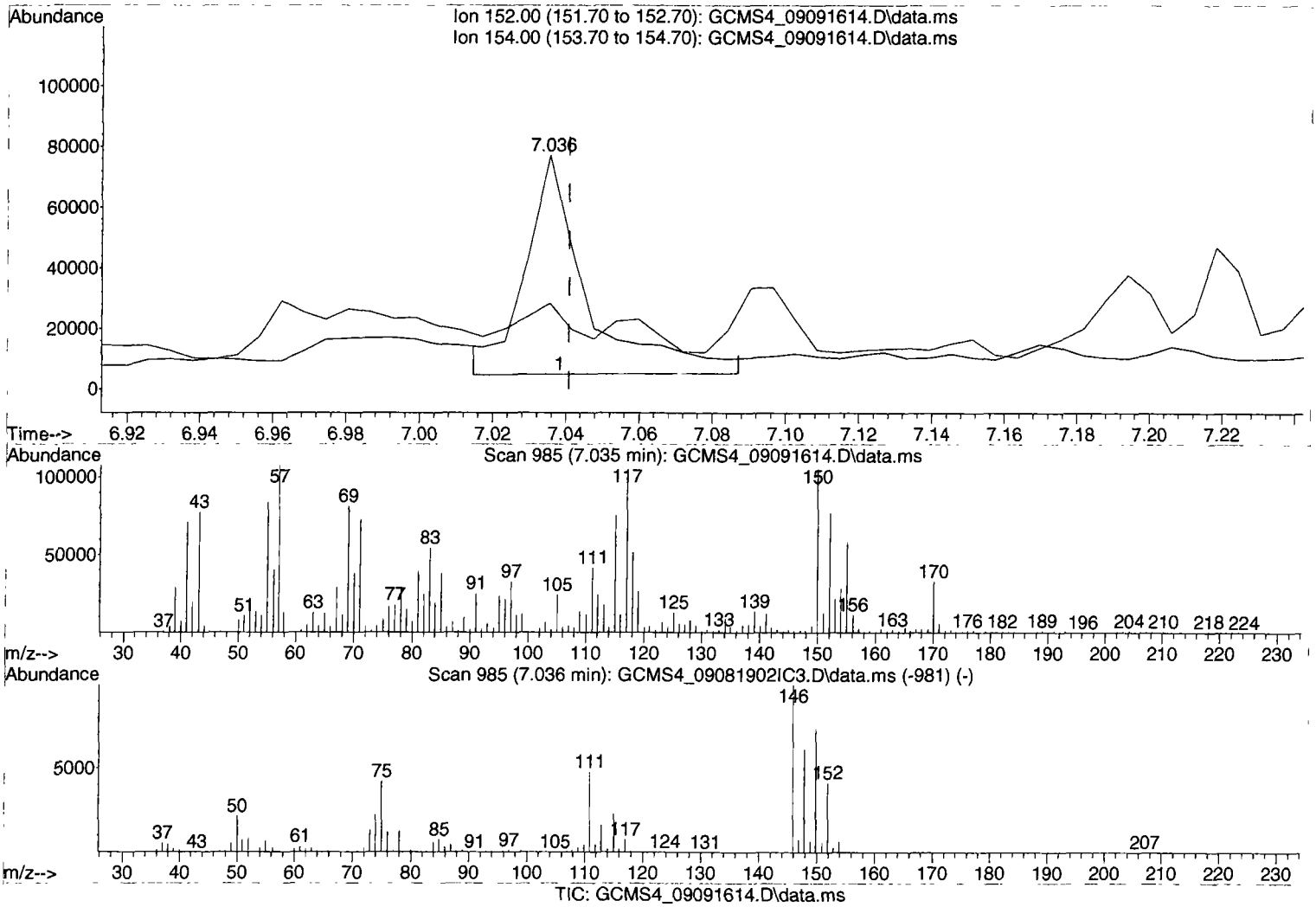
Ion	Ratio	Lower	Upper
180	100		
182	0.0	59.8	124.2#
184	218.6	18.3	37.9#



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091614.D
Acq On : 16 Sep 2009 13:27
Operator : CTANG
Sample : 0909014-05
Misc : T26-175-0.5-1.0, 4.6704 G
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 12:21:31 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.038min (-0.003) 50.00ng

response 857154

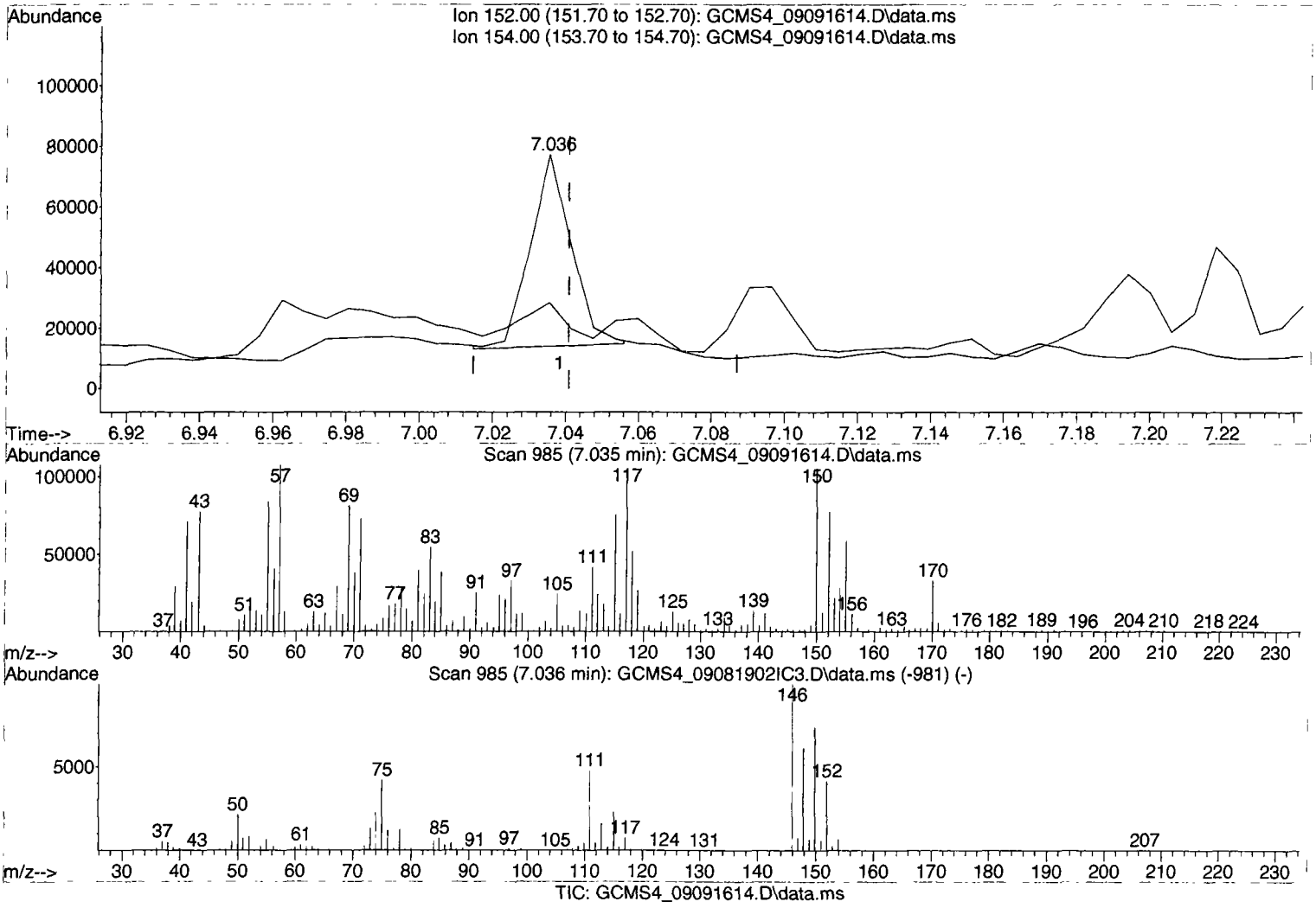
Ion	Exp%	Act%
152.00	100	100
154.00	16.80	69.75#
0.00	0.00	0.00
0.00	0.00	0.00

before IB
CMG 11/25/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091614.D
Acq On : 16 Sep 2009 13:27
Operator : CTANG
Sample : 0909014-05
Misc : T26-175-0.5-1.0, 4.6704 G
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 12:21:31 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.035min (-0.005) 50.00ng m

response 490336

Ion	Exp%	Act%
152.00	100	100
154.00	16.80	121.92#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 11/25/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091614.D
Acq On : 16 Sep 2009 13:27
Operator : CTANG
Sample : 0909014-05
Misc : T26-175-0.5-1.0, 4.6704 G
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 25 12:58:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

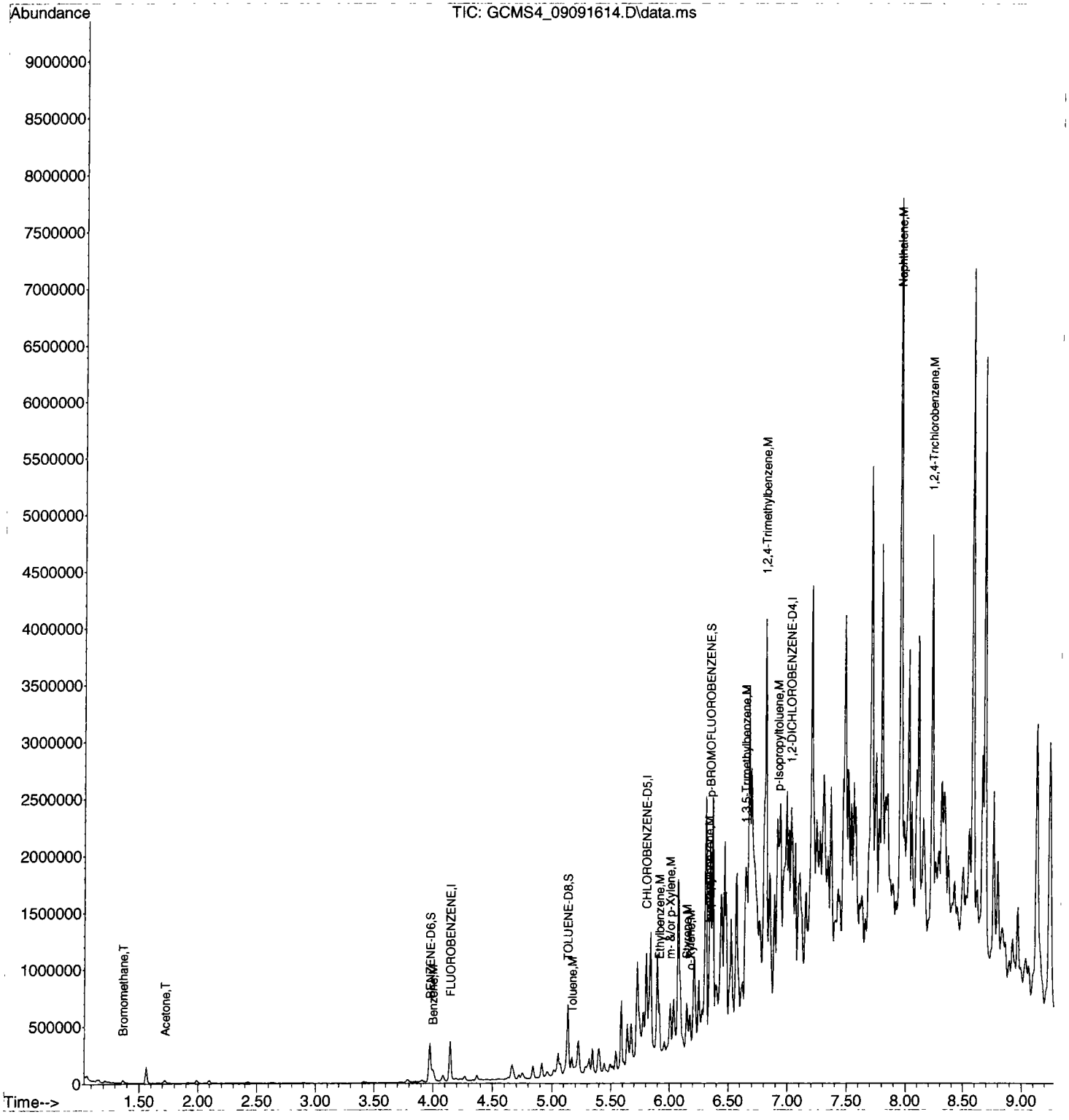
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.147	96	2119332	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.806	82	806298	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.035	152	490336m	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.977	84	2063222	41.74 ng		0.00
34) TOLUENE-D8	5.137	98	1883562	47.91 ng		0.00
52) p-BROMOFLUOROBENZENE	6.344	95	742289	60.79 ng		0.00
Target Compounds						Qvalue
5) Bromomethane	1.370	94	107126	27.11 ng		96
10) Acetone	1.721	43	192971	54.28 ng		83
26) Benzene	4.003	78	532945	12.33 ng		97
35) Toluene	5.171	91	481475	10.36 ng		100
46) Ethylbenzene	5.916	91	1546096	36.23 ng		95
47) m- &/or p-Xylene	6.003	91	799341	27.31 ng		94
48) o-Xylene	6.174	91	621136	20.24 ng		91
49) Styrene	6.146	104	402393	13.31 ng	#	70
51) Isopropylbenzene	6.328	105	864513m	20.78 ng		
59) 1,3,5-Trimethylbenzene	6.646	105	2152121	67.52 ng		91
61) 1,2,4-Trimethylbenzene	6.806	105	3543310	114.28 ng		92
63) p-Isopropyltoluene	6.928	119	1480550	43.05 ng		96
70) 1,2,4-Trichlorobenzene	8.226	180	81167	7.63 ng	#	1
72) Naphthalene	7.961	128	31956146	1141.61 ng		98

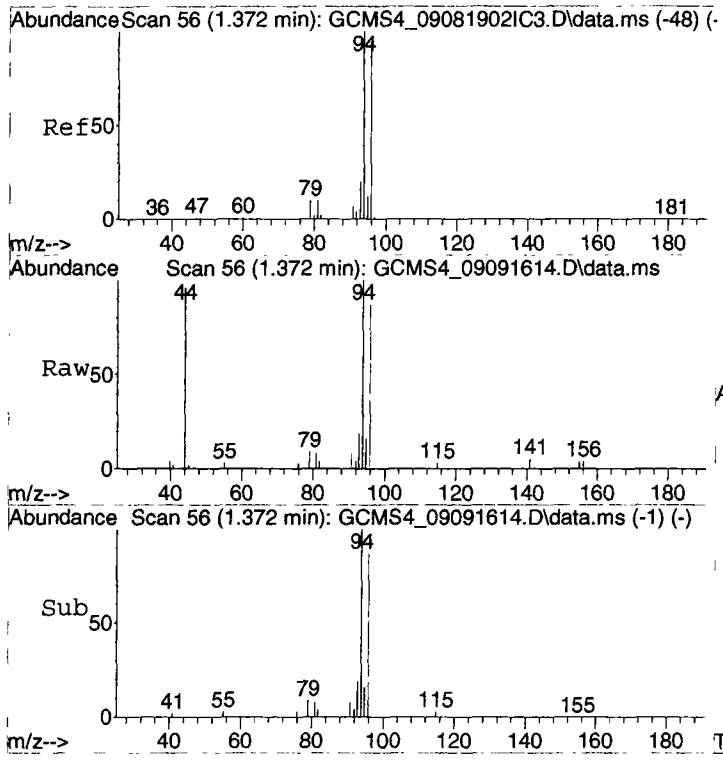
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091614.D
Acq On : 16 Sep 2009 13:27
Operator : CTANG
Sample : 0909014-05
Misc : T26-175-0.5-1.0, 4.6704 G
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 25 12:58:54 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

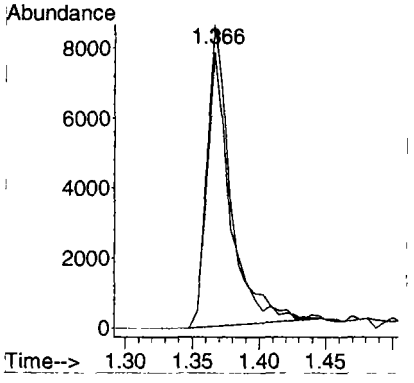


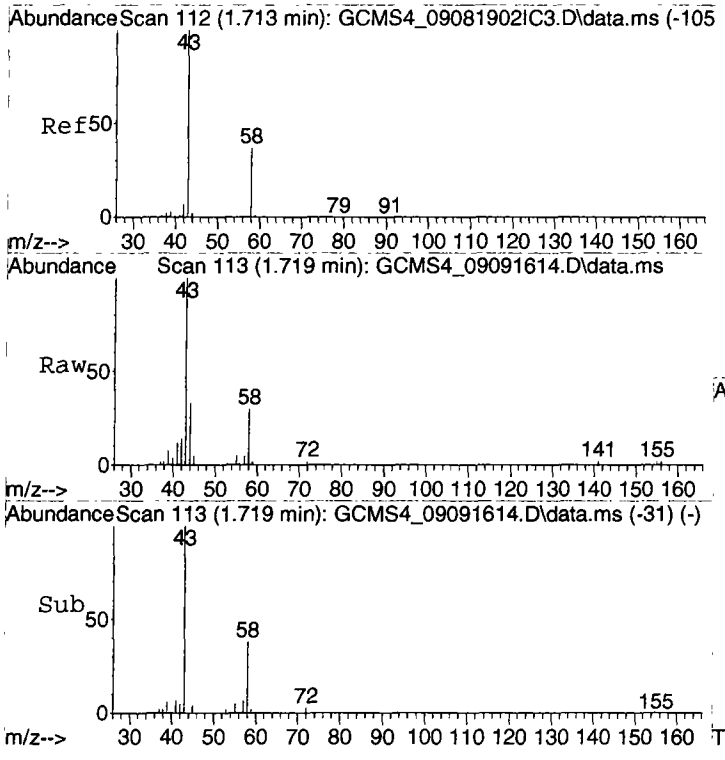


#5
Bromomethane
Concen: 27.11 ng
RT: 1.370 min Scan# 56
Delta R.T. 0.001 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 94 Resp: 107126

Ion	Ratio	Lower	Upper
94	100		
96	91.3	61.7	128.3

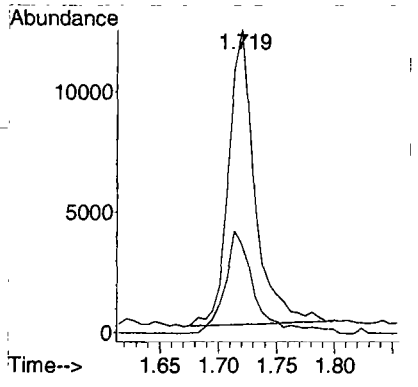


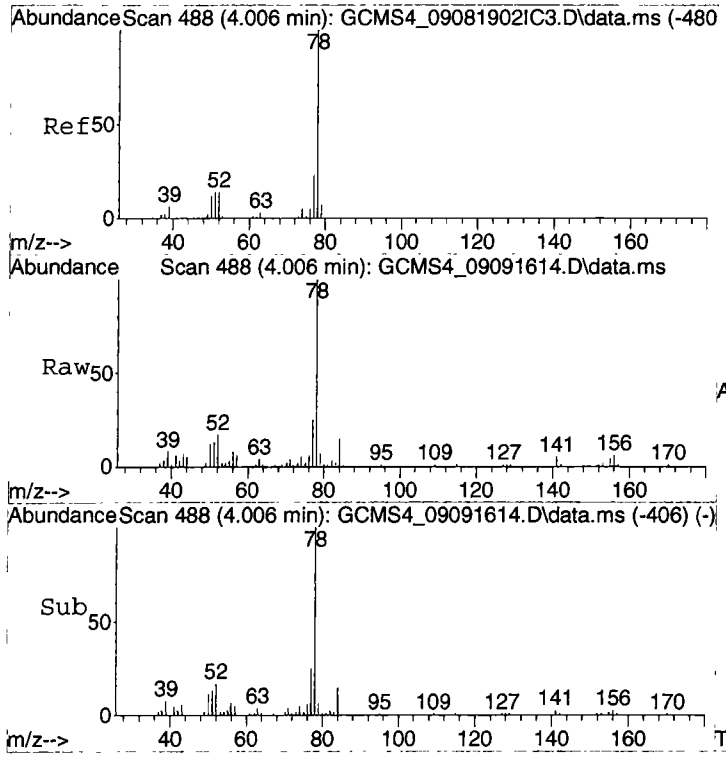


#10
Acetone
Concen: 54.28 ng
RT: 1.721 min Scan# 113
Delta R.T. 0.001 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 43 Resp: 192971

Ion	Ratio	Lower	Upper
43	100		
58	38.9	19.5	40.5

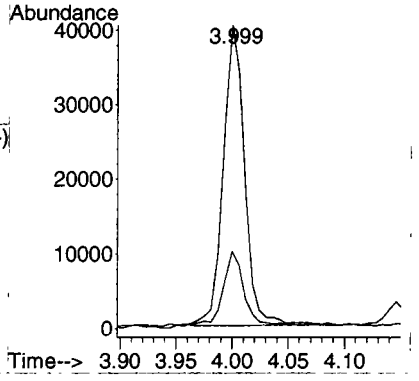


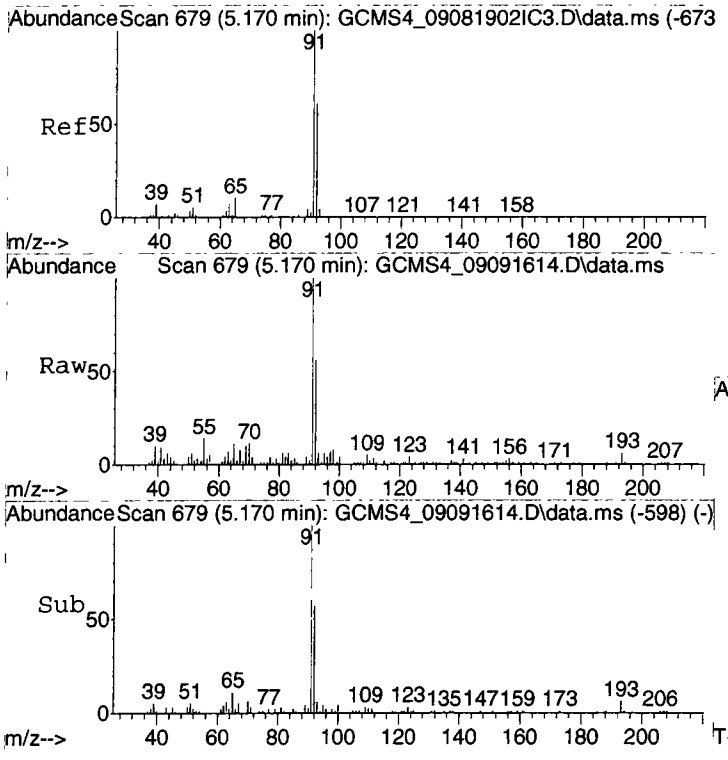


#26
Benzene
Concen: 12.33 ng
RT: 4.003 min Scan# 488
Delta R.T. -0.004 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 78 Resp: 532945

Ion	Ratio	Lower	Upper
78	100		
77	22.8	15.7	32.5

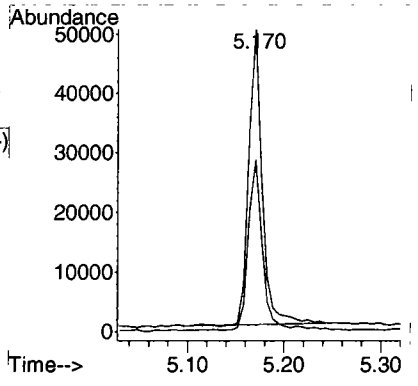


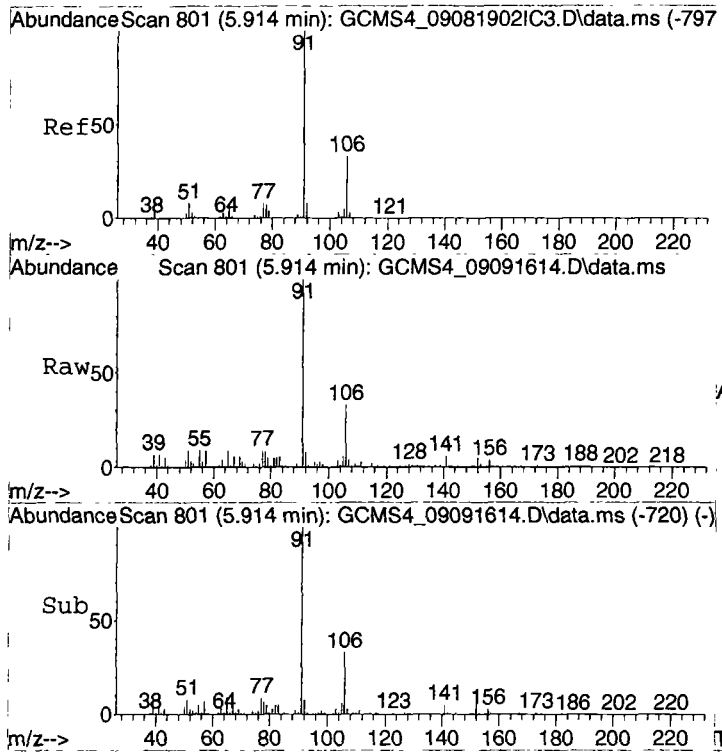


#35
Toluene
Concen: 10.36 ng
RT: 5.171 min Scan# 679
Delta R.T. -0.003 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 91 Resp: 481475

Ion	Ratio	Lower	Upper
91	100		
92	60.7	39.5	81.9

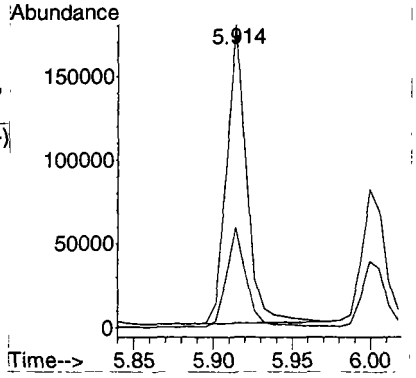


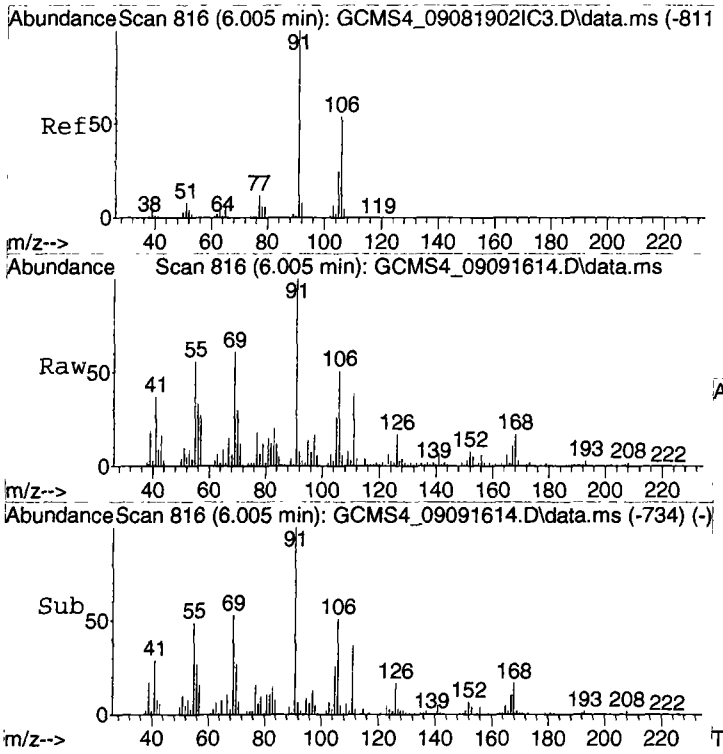


#46
Ethylbenzene
Concen: 36.23 ng
RT: 5.916 min Scan# 801
Delta R.T. -0.003 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 91 Resp: 1546096

Ion	Ratio	Lower	Upper
91	100		
106	33.4	20.0	41.6

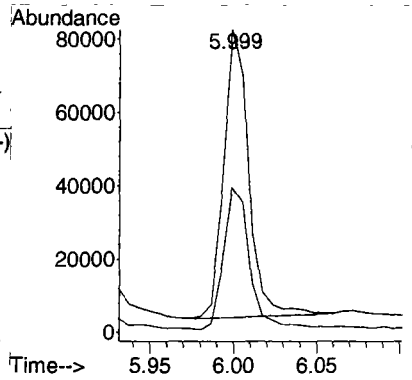


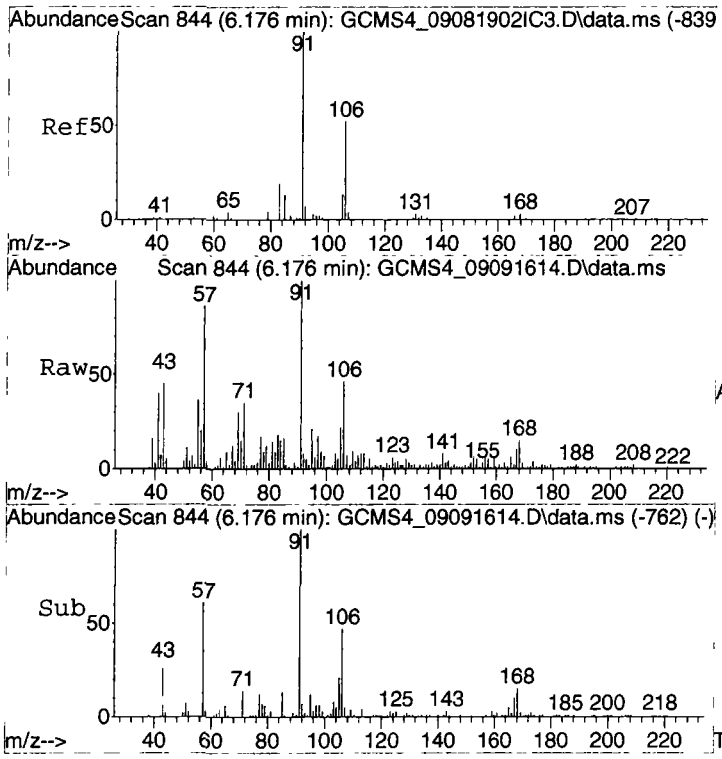


#47
m- &/or p-Xylene
Concen: 27.31 ng
RT: 6.003 min Scan# 816
Delta R.T. -0.003 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 91 Resp: 799341

Ion	Ratio	Lower	Upper
91	100		
106	53.3	32.0	66.4

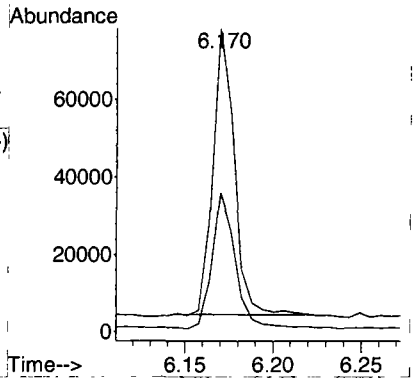


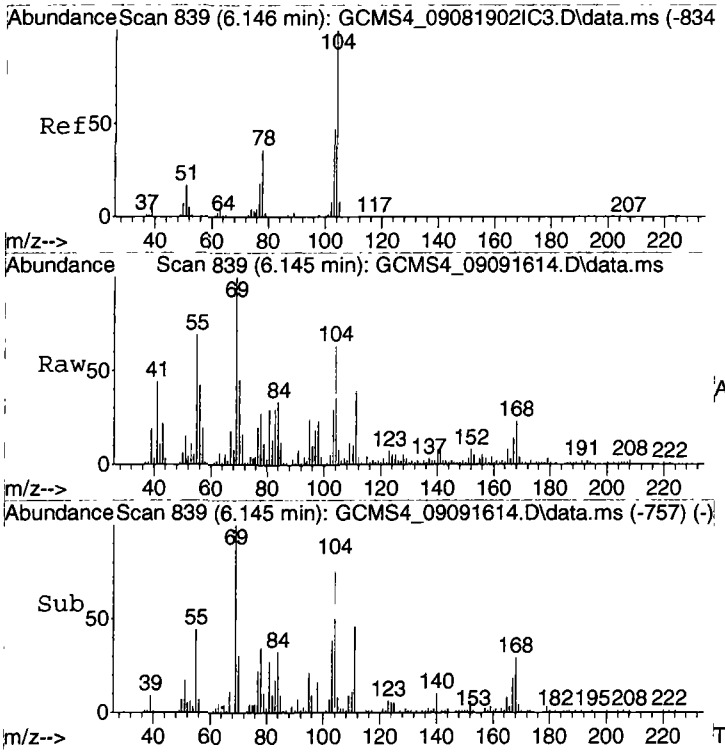


#48
o-Xylene
Concen: 20.24 ng
RT: 6.174 min Scan# 844
Delta R.T. -0.003 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion: 91 Resp: 621136

Ion	Ratio	Lower	Upper
91	100		
106	51.4	29.4	61.2

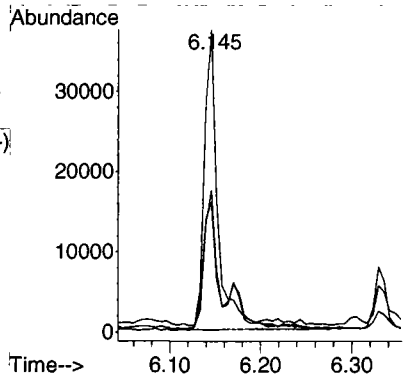


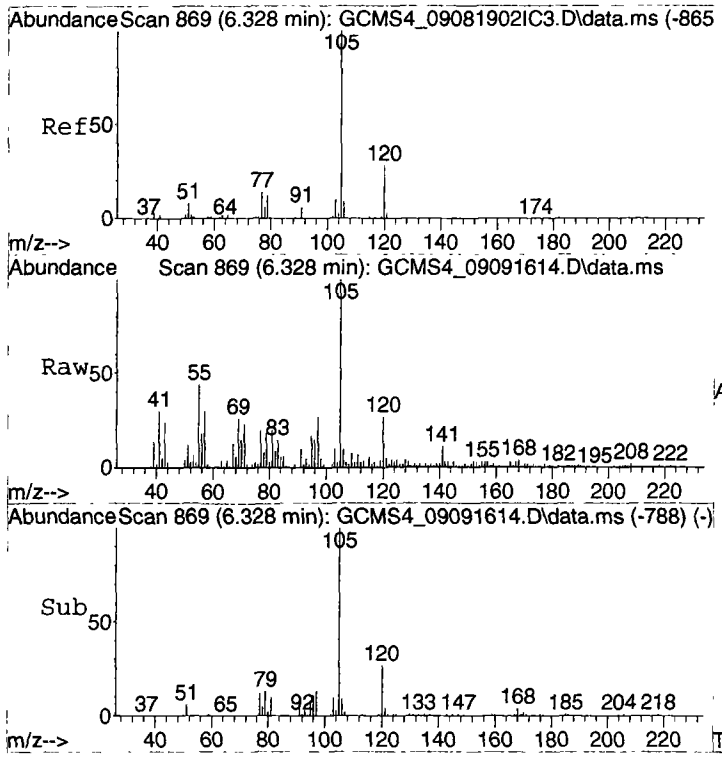


#49
Styrene
Concen: 13.31 ng
RT: 6.146 min Scan# 839
Delta R.T. -0.001 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:104 Resp: 402393

Ion	Ratio	Lower	Upper
104	100		
103	29.5	28.0	58.1
78	19.7	29.4	61.2#

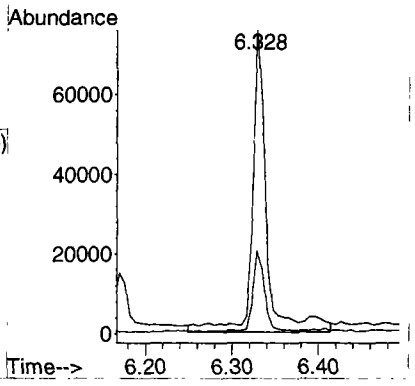


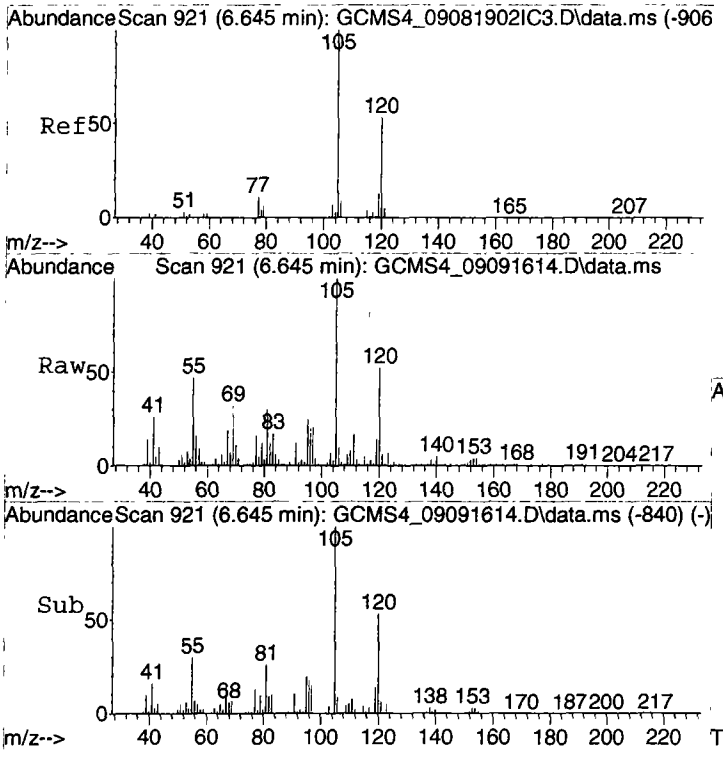


#51
Isopropylbenzene
Concen: 20.78 ng m
RT: 6.328 min Scan# 869
Delta R.T. -0.007 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:105 Resp: 864513

Ion	Ratio	Lower	Upper
105	100		
120	49.1	16.3	33.8#

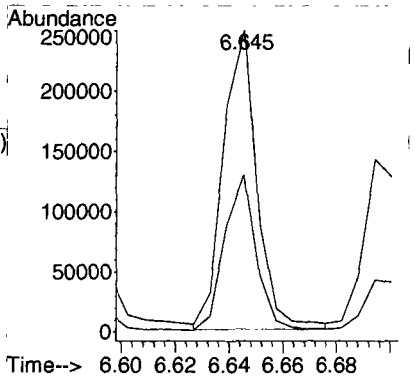


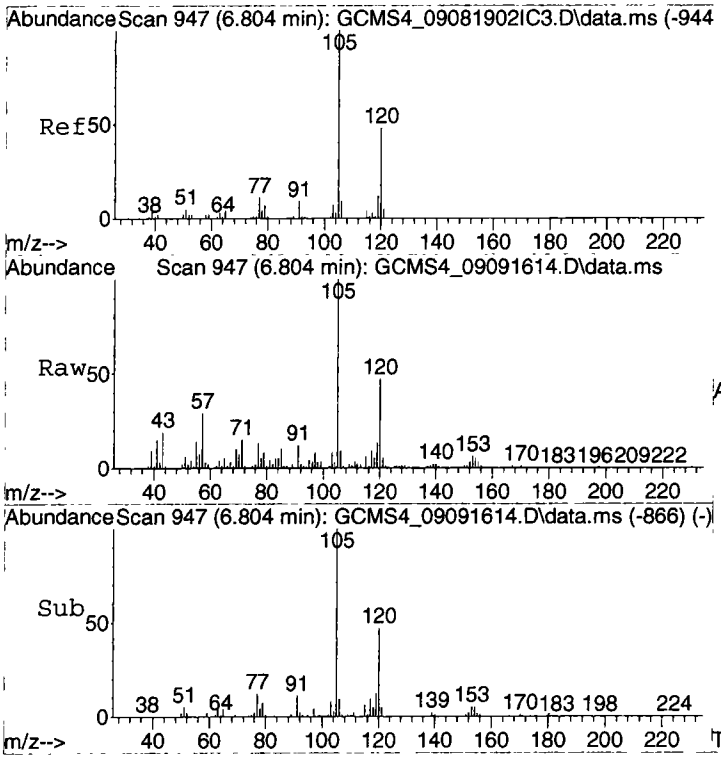


#59
1,3,5-Trimethylbenzene
Concen: 67.52 ng
RT: 6.646 min Scan# 921
Delta R.T. -0.003 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:105 Resp: 2152121

Ion	Ratio	Lower	Upper
105	100		
120	50.1	28.7	59.7

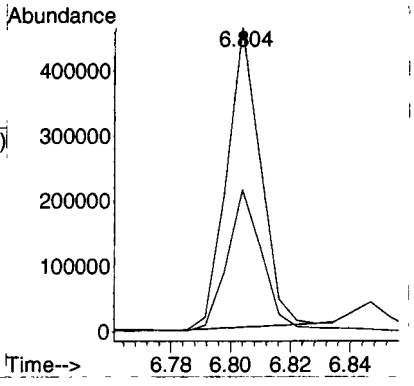


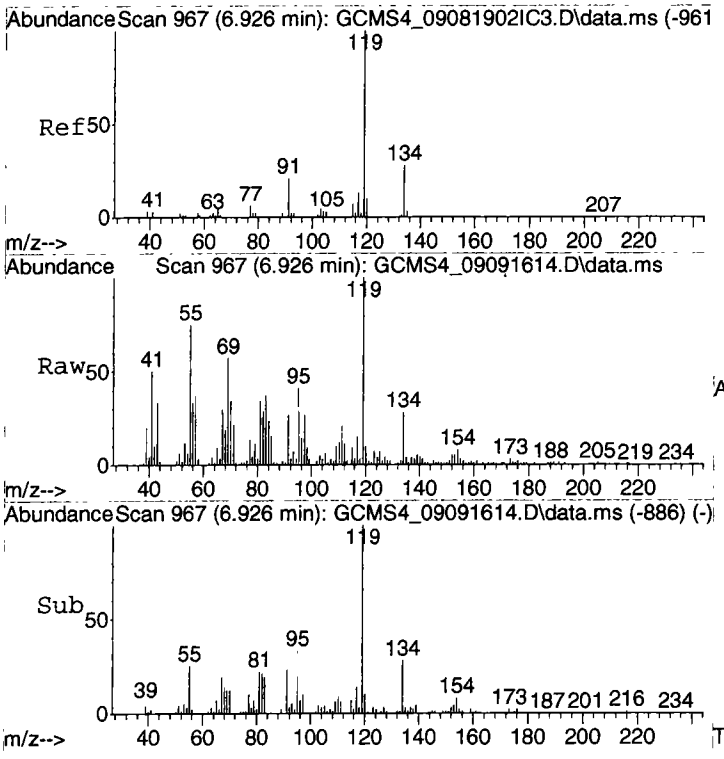


#61
1,2,4-Trimethylbenzene
Concen: 114.28 ng
RT: 6.806 min Scan# 947
Delta R.T. -0.003 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:105 Resp: 3543310

Ion	Ratio	Lower	Upper
105	100		
120	50.5	29.3	60.8

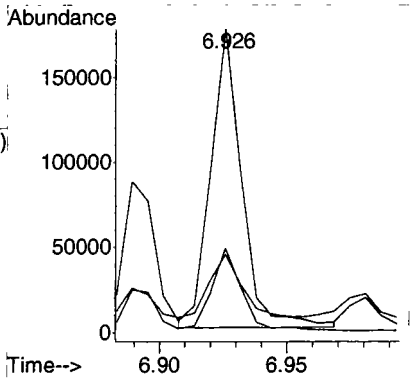


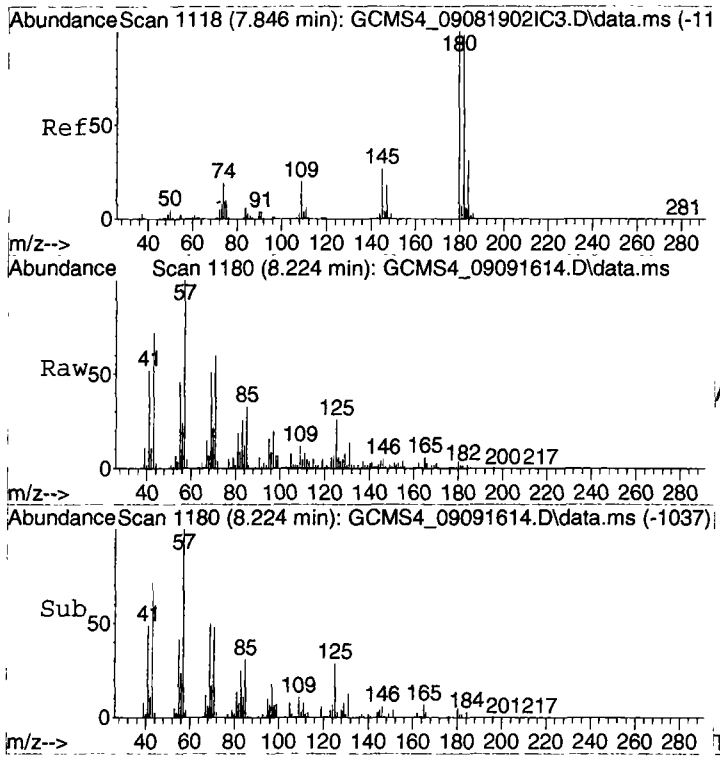


#63
p-Isopropyltoluene
Concen: 43.05 ng
RT: 6.928 min Scan# 967
Delta R.T. -0.003 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:119 Resp: 1480550

Ion	Ratio	Lower	Upper
119	100		
91	26.4	16.3	33.8
134	26.8	18.9	39.1

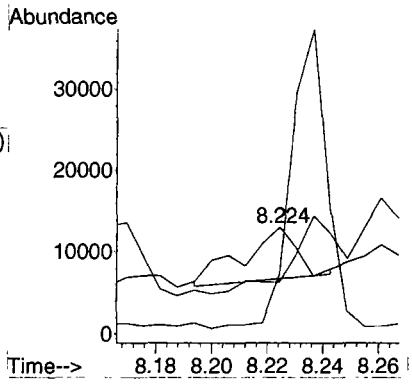


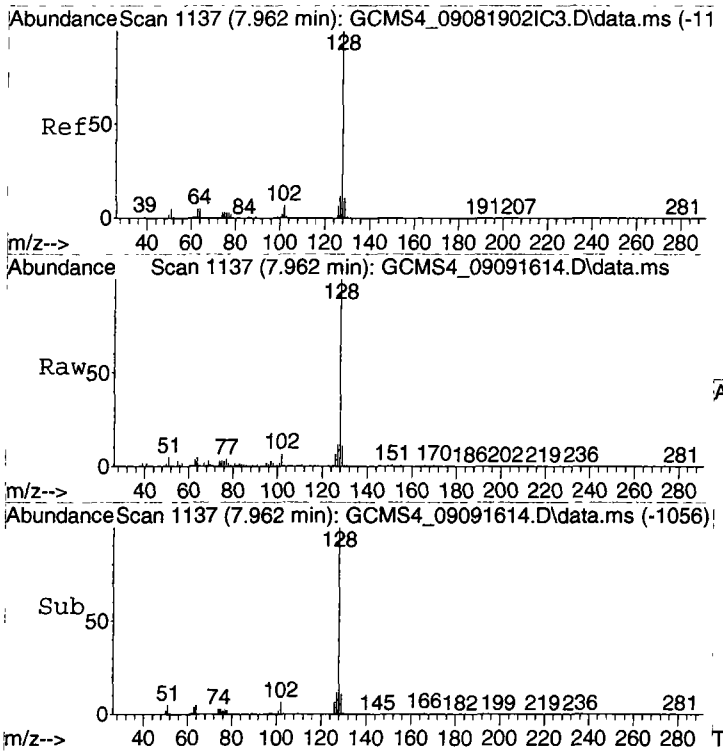


#70
1,2,4-Trichlorobenzene
Concen: 7.63 ng
RT: 8.226 min Scan# 1180
Delta R.T. 0.374 min
Lab File: GCMS4 09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:180 Resp: 81167

Ion	Ratio	Lower	Upper
180	100		
182	111.0	59.8	124.2
184	398.7	18.3	37.9#

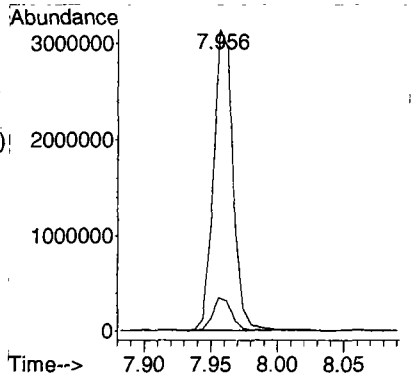




#72
Naphthalene
Concen: 1141.61 ng
RT: 7.961 min Scan# 1137
Delta R.T. -0.005 min
Lab File: GCMS4_09091614.D
Acq: 16 Sep 2009 13:27

Tgt Ion:128 Resp:31956146

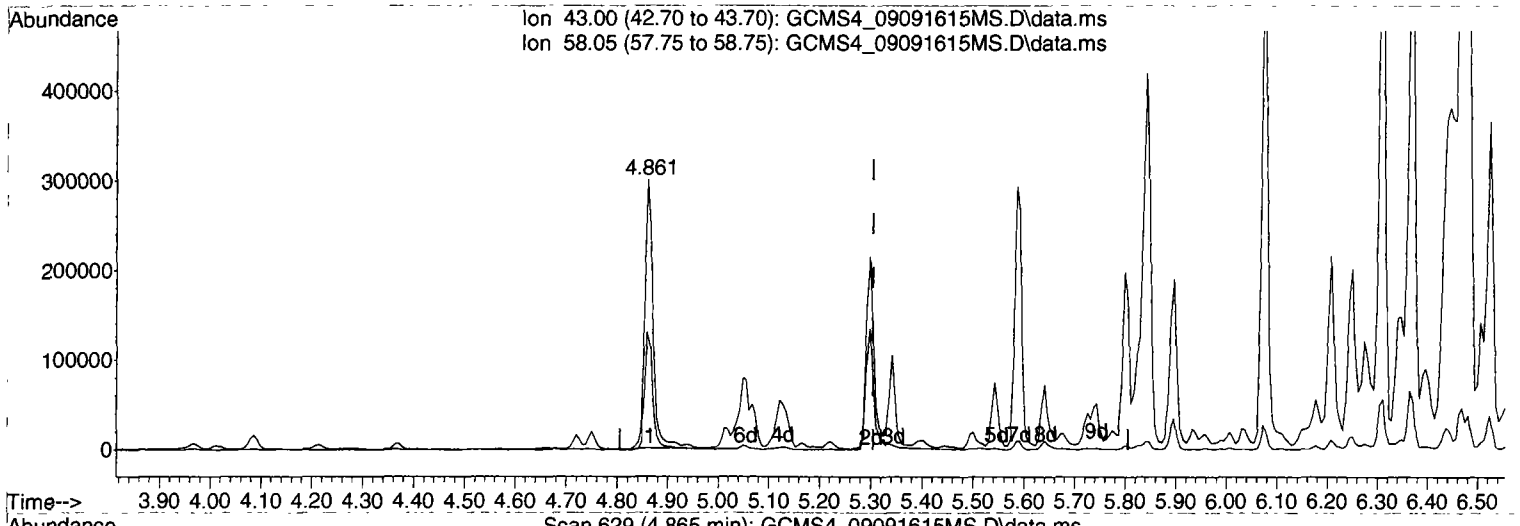
Ion	Ratio	Lower	Upper
128	100		
129	11.2	6.7	13.9

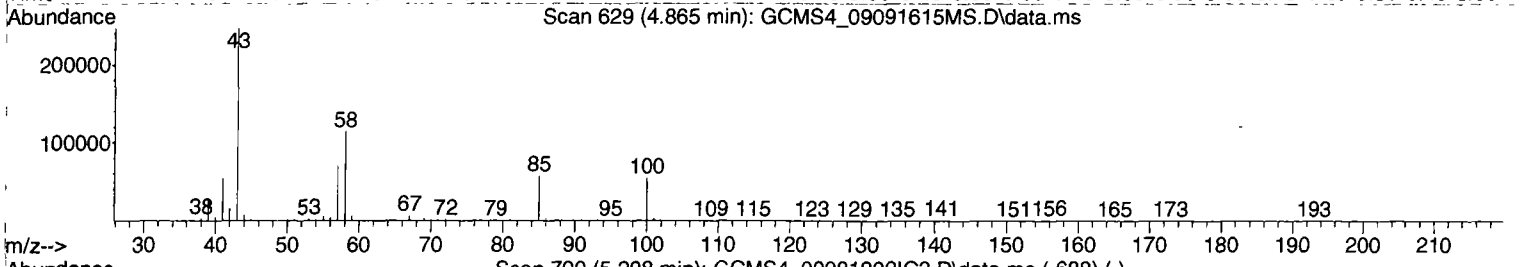


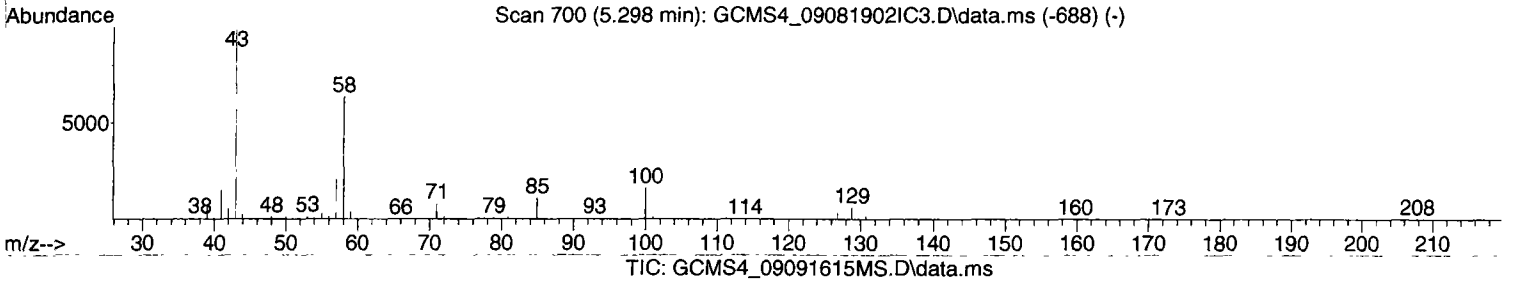
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 14:46:35 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







(40) 2-Hexanone (T)

4.864min (-0.441) 410.55ng

response 3391512

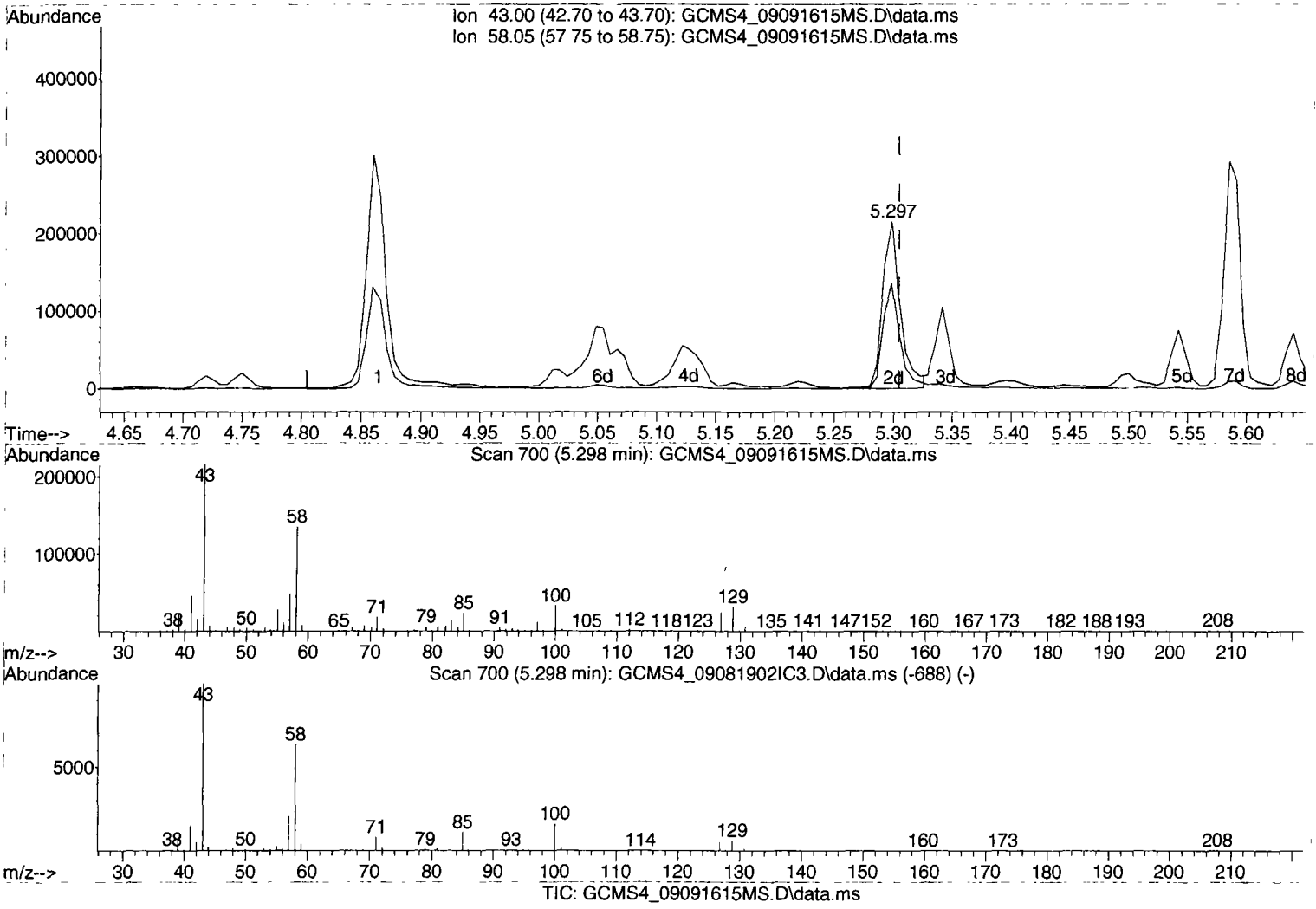
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	43.36
0.00	0.00	0.00
0.00	0.00	0.00

before
CMM 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 14:46:35 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 270.17ng m

response 2231813

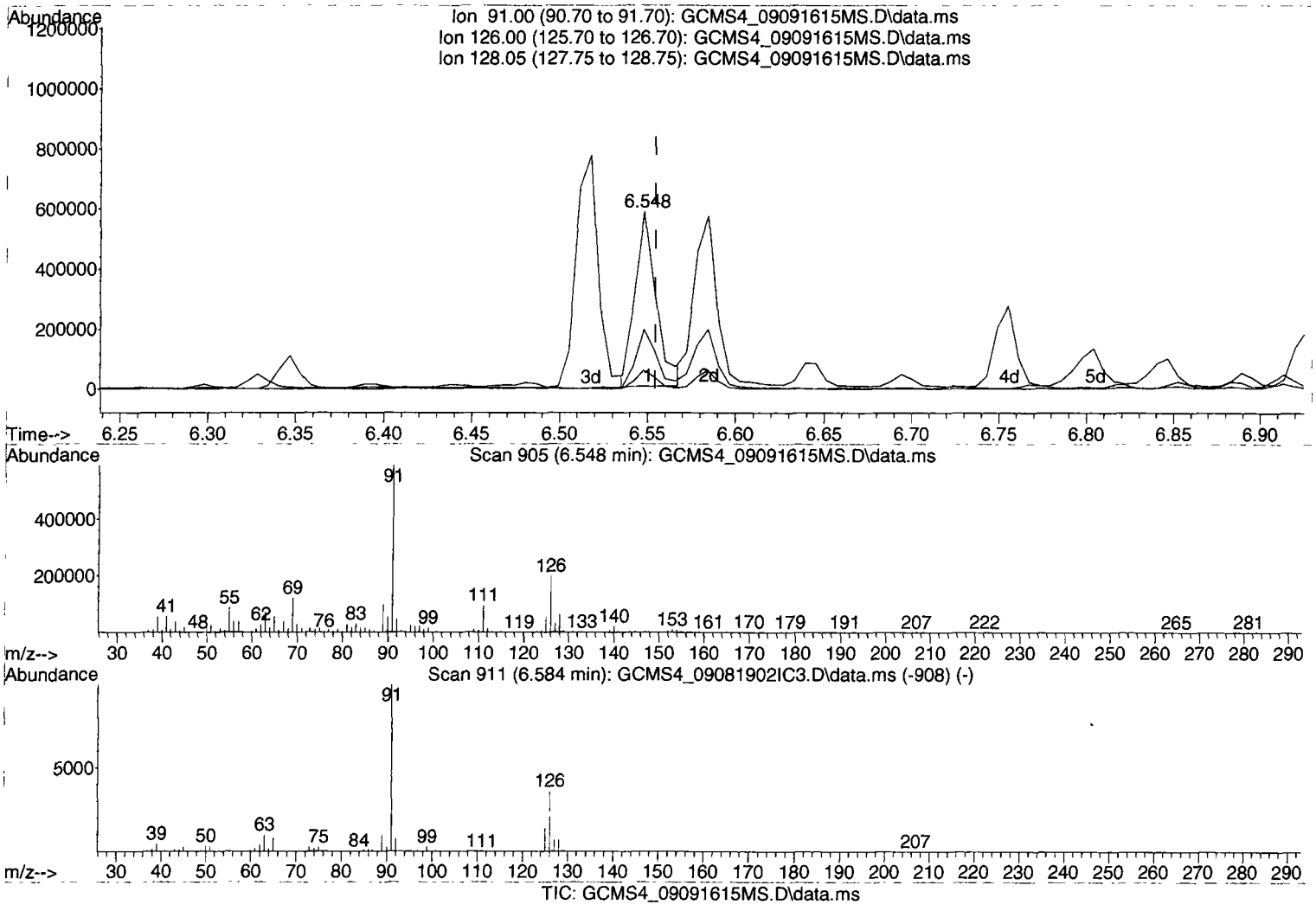
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	65.88#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMG 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 14:46:35 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.550min (-0.004) 204.58ng

response 4781137

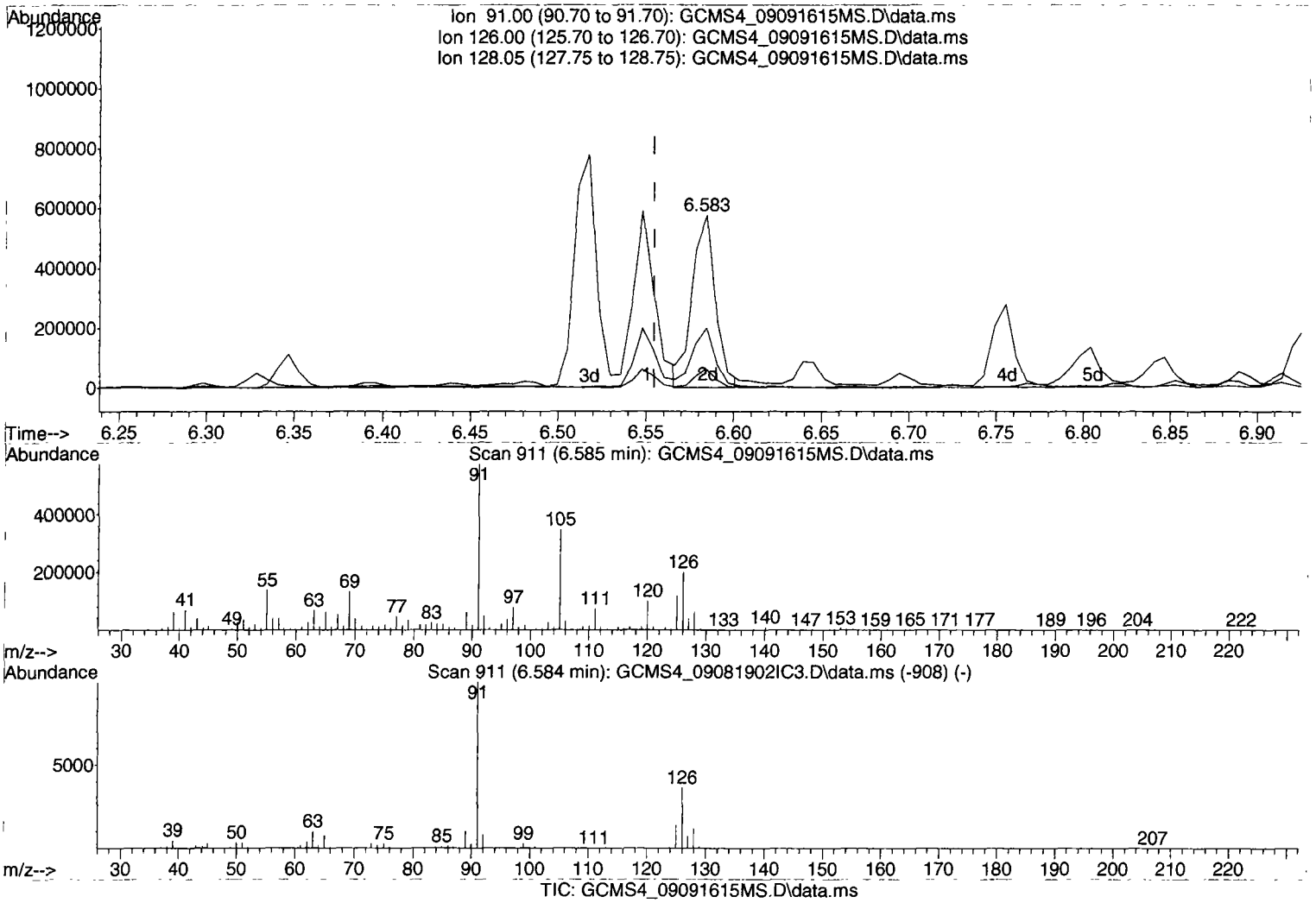
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	34.61
128.05	10.00	9.77
0.00	0.00	0.00

at begne PC
cmy 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 16 14:46:35 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.585min (+0.030) 230.25ng m

response 5381068

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	30.75
128.05	10.00	8.68
0.00	0.00	0.00

after
CMM 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 12:23:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.146	96	2017610	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.804	82	695460	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	471377	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.975	84	2094404	44.51 ng		0.00
34) TOLUENE-D8	5.136	98	1772764	47.37 ng		0.00
52) p-BROMOFLUOROBENZENE	6.342	95	599181	56.89 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.084	85	1091016	213.15 ng		99
3) Chloromethane	1.151	50	2269454	194.65 ng		96
4) Vinyl chloride	1.215	62	1177537	250.32 ng		98
5) Bromomethane	1.366	94	1220835	324.48 ng		97
6) Chloroethane	1.420	64	1462535	319.51 ng		97
7) Trichlorofluoromethane	1.658	101	3099164	271.28 ng		98
8) Acrolein	1.657	56	191328	393.10 ng		94
9) 1,1-Dichloroethene	1.911	96	1245950	155.41 ng		91
10) Acetone	1.715	43	2579150	762.09 ng		89
11) Carbon disulfide	2.098	76	3595265	157.99 ng		98
12) Methylene chloride	1.990	84	1833556	152.40 ng		81
13) Acrylonitrile	1.948	53	3189637	707.37 ng		98
14) trans-1,2-Dichloroethene	2.392	96	1563429	158.07 ng		90
15) 1,1-Dichloroethane	2.563	63	2477046	160.15 ng	#	95
16) 2-Butanone	2.932	43	3455984	721.59 ng	#	69
17) cis-1,2-Dichloroethene	3.027	96	1863084	165.72 ng		88
18) 2,2-Dichloropropane	3.257	77	1384601	166.89 ng		99
19) Bromochloromethane	3.155	128	887087	167.62 ng		100
20) Chloroform	3.205	83	2598598	165.99 ng		94
21) 1,1,1-Trichloroethane	3.738	97	1738328	162.46 ng		94
22) 1,1-Dichloropropene	3.871	75	1880062	153.49 ng		99
23) Carbon tetrachloride	3.968	117	916063	132.19 ng		89
25) 1,2-Dichloroethane	3.681	62	1557906	167.90 ng		97
26) Benzene	4.001	78	7167560	174.15 ng		98
27) Trichloroethene	4.392	130	1721338	153.96 ng		95
28) 1,2-Dichloropropane	4.364	63	1621266	179.62 ng		100
29) Dibromomethane	4.337	174	950320	169.61 ng		97
30) Bromodichloromethane	4.415	83	1549894	162.83 ng		96
32) cis-1,3-Dichloropropene	4.782	75	1953286	186.44 ng		98
33) 4-Methyl-2-pentanone	4.863	43	3412786	317.08 ng	#	95
35) Toluene	5.169	91	7861137	177.61 ng		99
36) trans-1,3-Dichloropropene	5.013	75	1715581	183.87 ng		96
37) 1,1,2-Trichloroethane	5.078	97	1478517	171.44 ng		89
38) 1,3-Dichloropropane	5.197	76	2564575	175.52 ng		93
39) Tetrachloroethene	5.512	166	1582920	133.82 ng		94
40) 2-Hexanone	5.298	43	2231813m	270.17 ng		
41) Dibromochloromethane	5.311	129	1238970	164.24 ng		97
42) 1,2-Dibromoethane	5.424	107	1410818	170.89 ng		94
44) Chlorobenzene	5.819	112	4824522	219.82 ng		94
45) 1,1,1,2-Tetrachloroethane	5.786	131	1403734	200.59 ng		94
46) Ethylbenzene	5.915	91	9523574	258.76 ng		98
47) m- &/or p-Xylene	6.002	91	12131562	480.49 ng		98
48) o-Xylene	6.172	91	6640540	250.83 ng		96
49) Styrene	6.143	104	5579236	213.96 ng		92
50) Bromoform	6.033	173	811737	178.17 ng		90

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 12:23:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

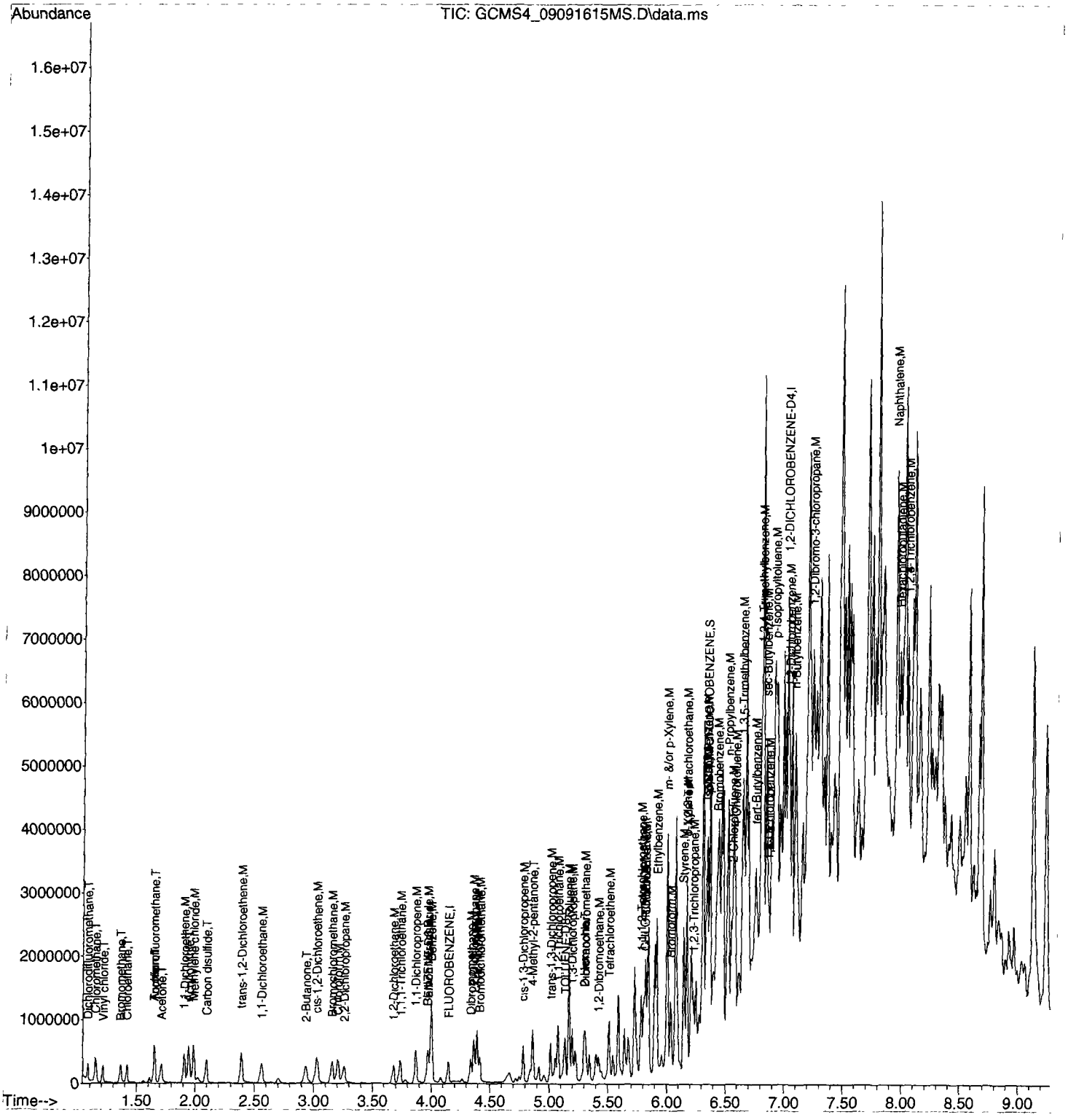
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
51) Isopropylbenzene	6.331	105	6580033	183.40 ng		95
53) 1,1,2,2-Tetrachloroethane	6.171	83	2002752	242.87 ng		93
54) 1,2,3-Trichloropropane	6.232	75	1512155	195.64 ng		98
55) Bromobenzene	6.425	156	1917234	219.93 ng		90
56) n-Propylbenzene	6.518	91	6670794	173.40 ng		99
57) 2-Chlorotoluene	6.550	91	4781137	204.58 ng		94
58) 4-Chlorotoluene	6.585	91	5381068m	230.25 ng		
59) 1,3,5-Trimethylbenzene	6.645	105	7209212	262.23 ng		89
60) tert-Butylbenzene	6.757	119	3587446	148.22 ng		92
61) 1,2,4-Trimethylbenzene	6.806	105	9612101	359.43 ng		94
62) sec-Butylbenzene	6.848	105	5171343	143.05 ng		98
63) p-Isopropyltoluene	6.927	119	6841110	230.60 ng		95
64) 1,3-Dichlorobenzene	6.872	146	2955905	206.30 ng		94
65) 1,4-Dichlorobenzene	6.872	146	2956817	176.53 ng		93
67) n-Butylbenzene	7.095	91	4741479	208.17 ng	#	71
68) 1,2-Dichlorobenzene	7.046	146	2958044	184.46 ng	#	42
69) 1,2-Dibromo-3-chloropr...	7.243	157	305502	161.72 ng	#	4
70) 1,2,4-Trichlorobenzene	8.057	180	1109638	108.53 ng		88
71) Hexachlorobutadiene	7.993	225	695683	113.46 ng		95
72) Naphthalene	7.961	128	26009011	966.53 ng		95
73) 1,2,3-Trichlorobenzene	8.057	180	1147955	112.69 ng		83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091615MS.D
Acq On : 16 Sep 2009 15:37
Operator : CTANG
Sample : B909019-MS2
Misc : T26-175-1.0-2.6, 4.6376 G
ALS Vial : 15 Sample Multiplier: 1

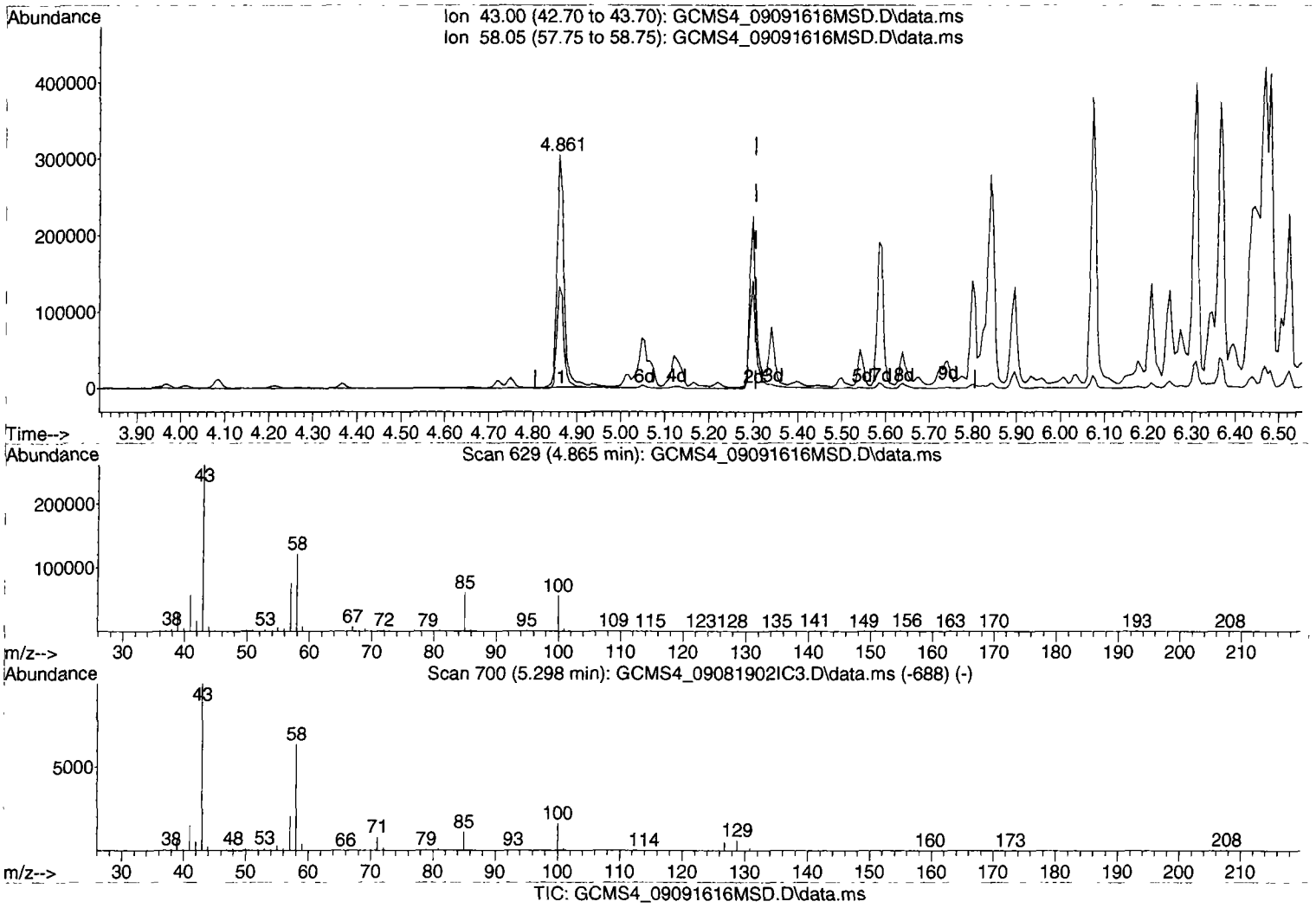
Quant Time: Nov 05 12:23:01 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 15:06:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.440) 404.24ng

response 3428701

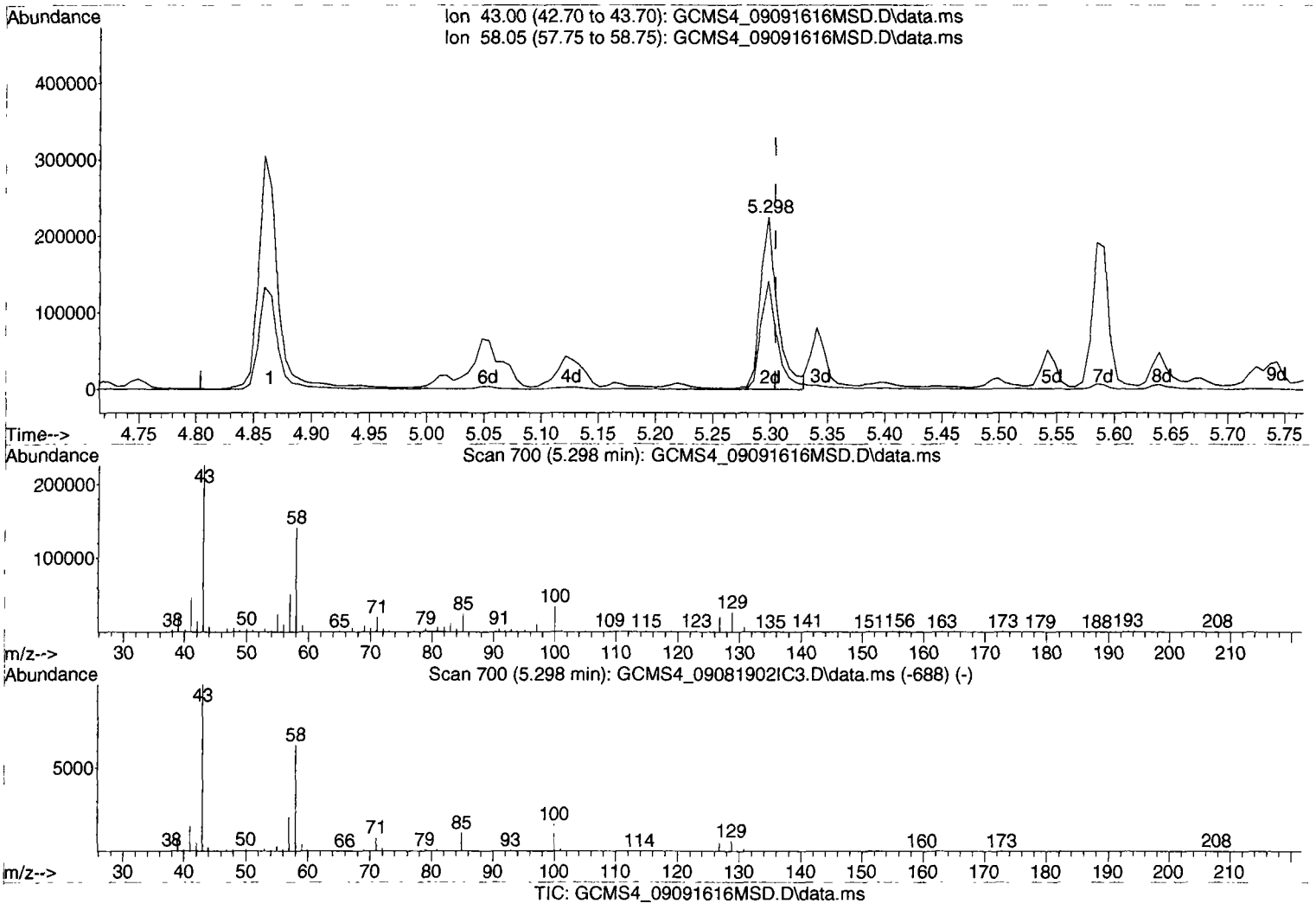
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	44.17
0.00	0.00	0.00
0.00	0.00	0.00

bepne P
EMM 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 15:06:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 285.39ng m

response 2420701

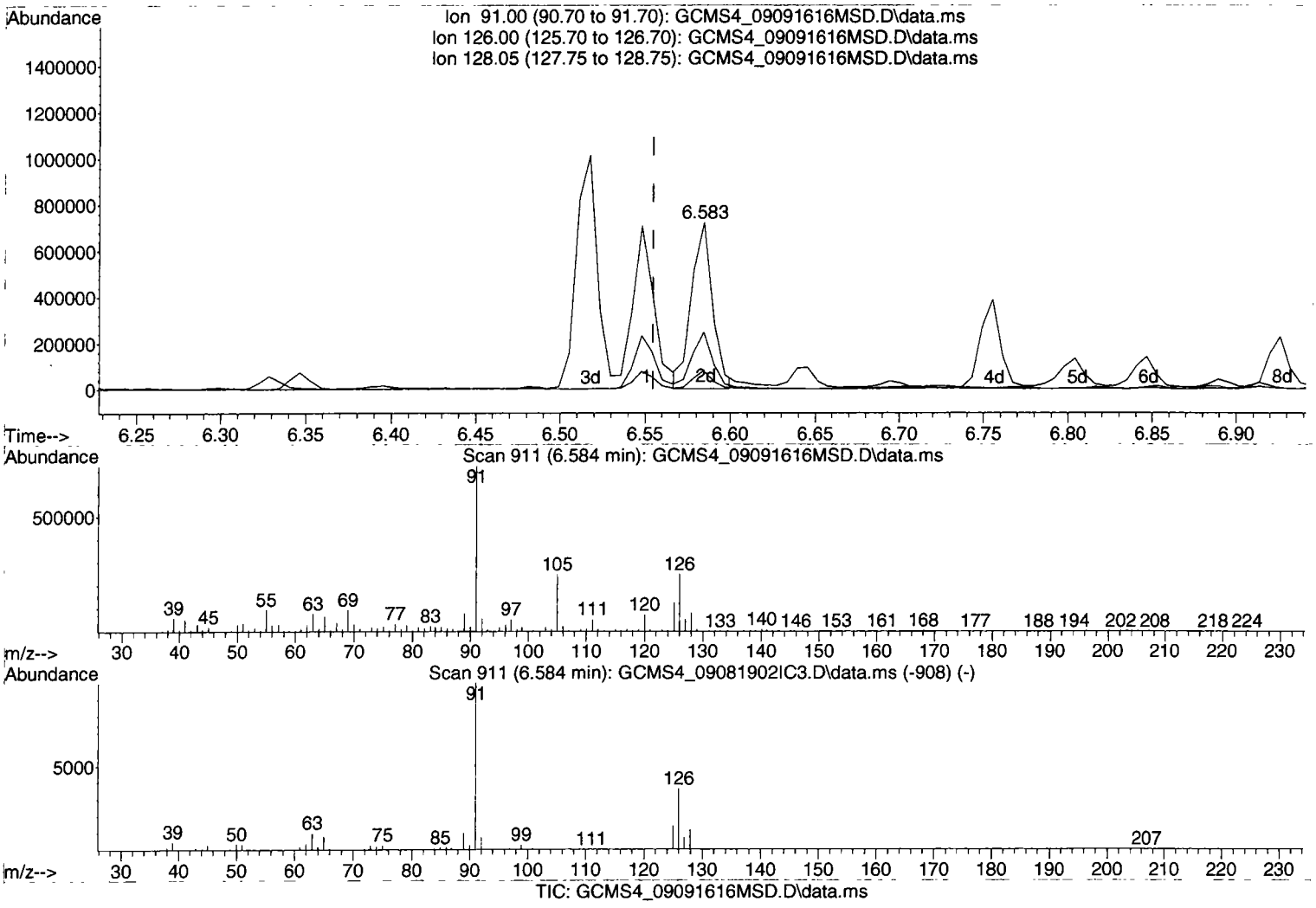
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	62.56#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 15:06:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.584min (+0.030) 235.67ng m

response 6242820

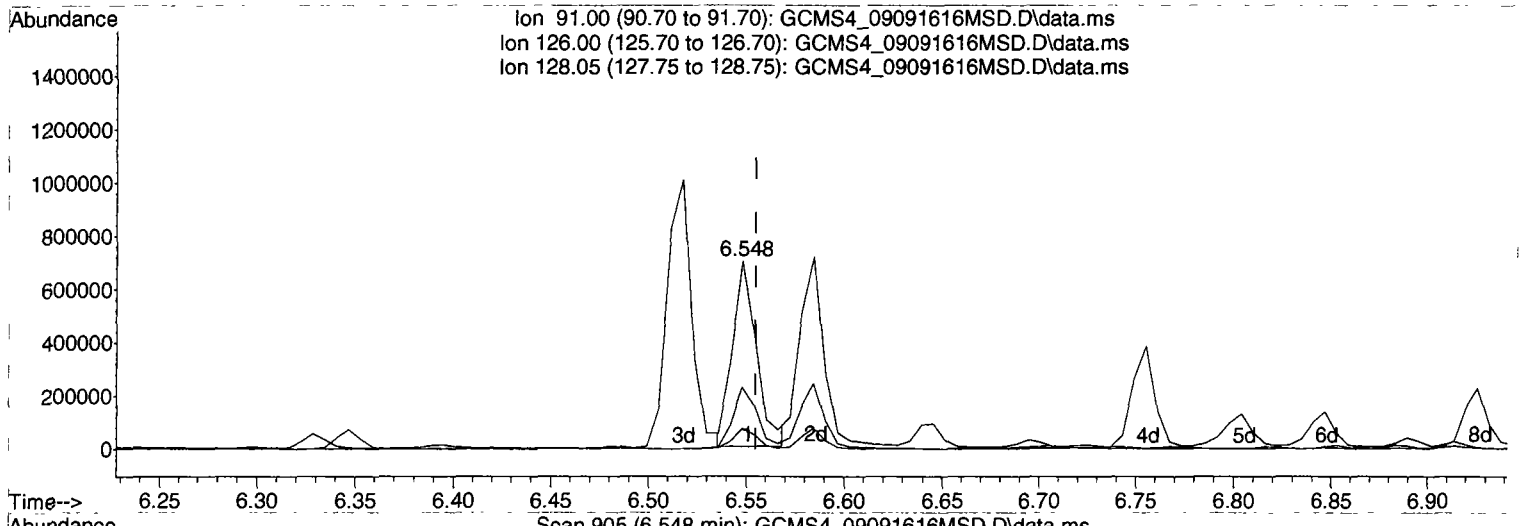
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	31.87
128.05	10.00	9.98
0.00	0.00	0.00

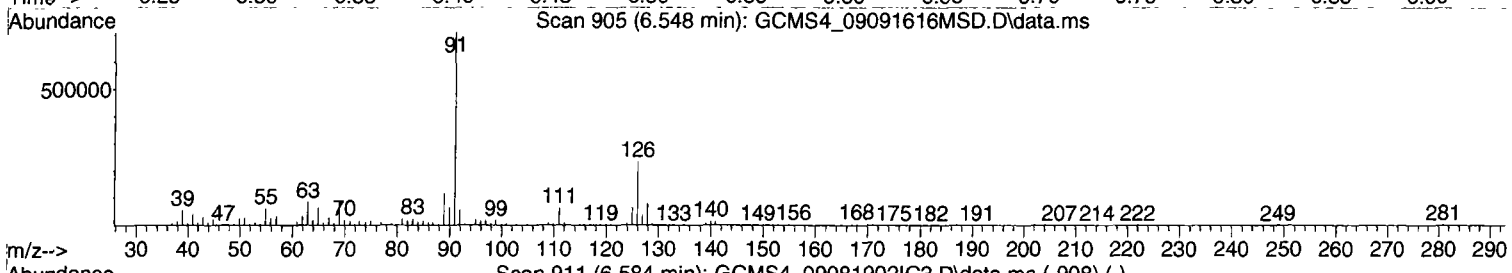
after
cmy 11/18/09

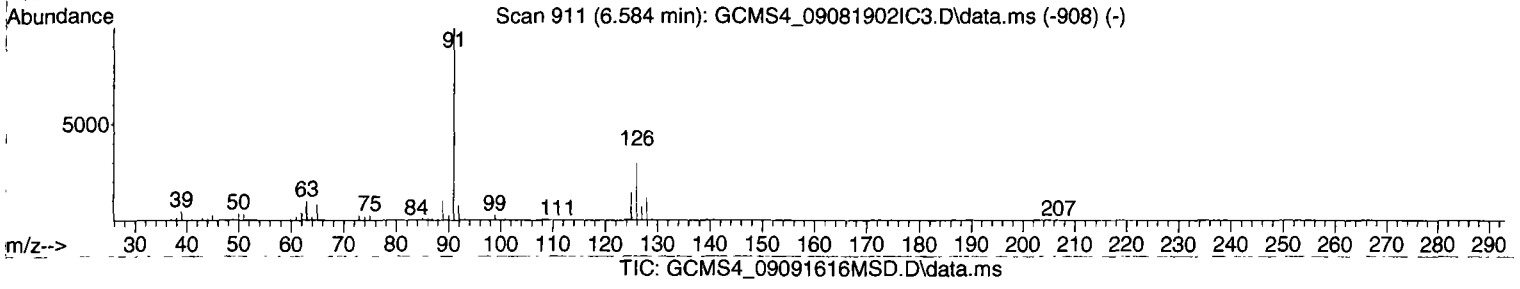
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 15:06:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration







TIC: GCMS4_09091616MSD.D\data.ms

(58) 4-Chlorotoluene (M)

6.551min (-0.004) 222.20ng

response 5886025

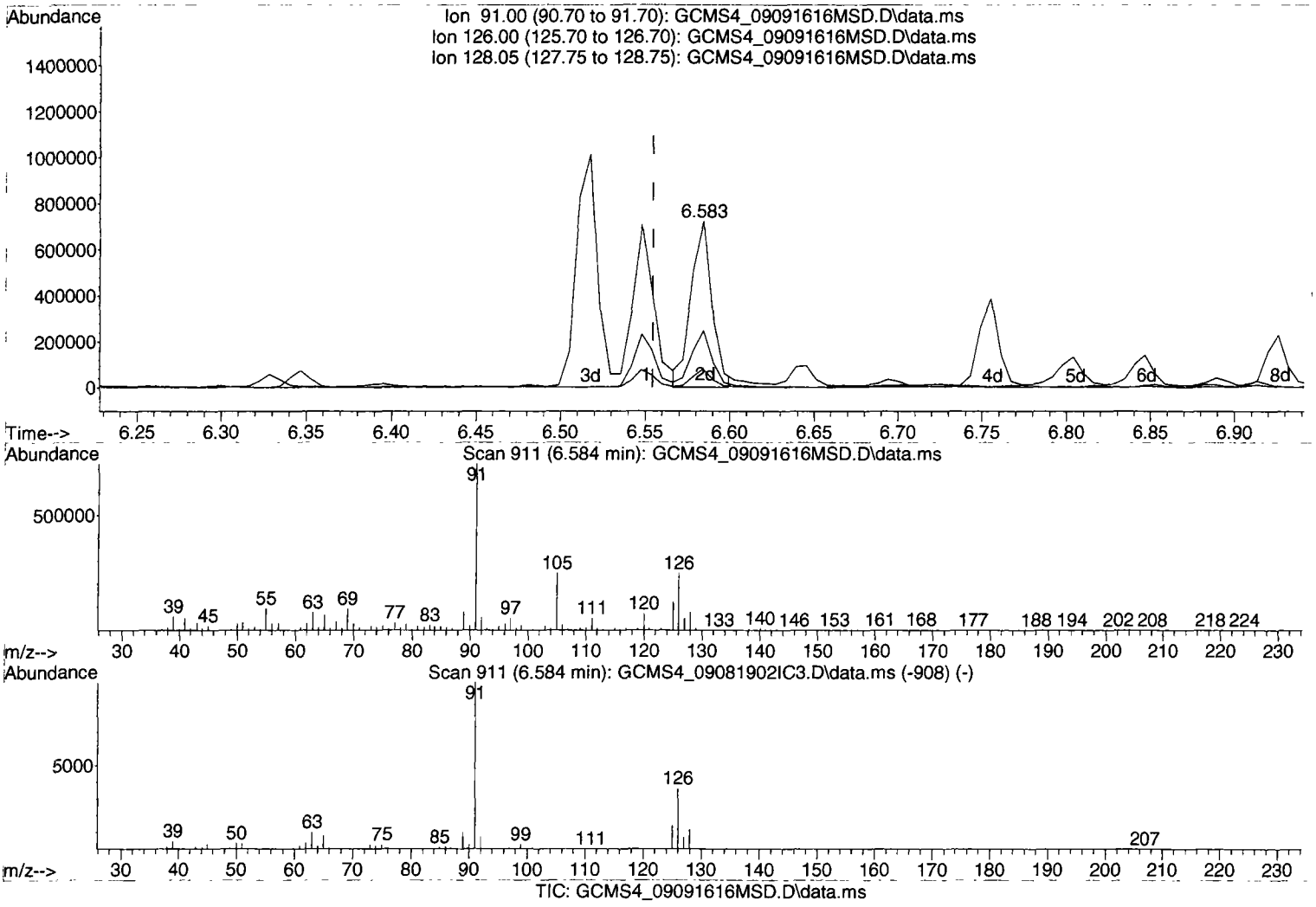
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	33.80
128.05	10.00	10.58
0.00	0.00	0.00

bepne PC
CMM 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 16 15:06:56 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.584min (+0.030) 235.67ng m

response 6242820

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	31.87
128.05	10.00	9.98
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 12:24:15 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.146	96	2071618	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.804	82	788273	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	635282	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.975	84	2120610	43.89 ng		0.00
34) TOLUENE-D8	5.136	98	1814580	47.22 ng		0.00
52) p-BROMOFLUOROBENZENE	6.343	95	643248	53.88 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	1001773	190.61 ng		99
3) Chloromethane	1.150	50	2232082	186.46 ng		95
4) Vinyl chloride	1.213	62	1005585	208.19 ng		97
5) Bromomethane	1.365	94	1182505	306.10 ng		97
6) Chloroethane	1.419	64	1351917	287.64 ng		98
7) Trichlorofluoromethane	1.657	101	2850211	242.98 ng		99
8) Acrolein	1.656	56	181080	362.34 ng		88
9) 1,1-Dichloroethene	1.910	96	1395385	169.51 ng		91
10) Acetone	1.714	43	2502991	720.30 ng		87
11) Carbon disulfide	2.097	76	3903950	167.09 ng		98
12) Methylene chloride	1.990	84	1951680	157.99 ng		82
13) Acrylonitrile	1.947	53	3141384	678.51 ng		100
14) trans-1,2-Dichloroethene	2.392	96	1711077	168.48 ng		90
15) 1,1-Dichloroethane	2.562	63	2758759	173.71 ng	#	96
16) 2-Butanone	2.932	43	3557638	723.45 ng	#	70
17) cis-1,2-Dichloroethene	3.027	96	1984813	171.95 ng		88
18) 2,2-Dichloropropane	3.257	77	1490604	174.98 ng		99
19) Bromochloromethane	3.155	128	917794	168.90 ng		99
20) Chloroform	3.204	83	2794068	173.83 ng		93
21) 1,1,1-Trichloroethane	3.738	97	1877458	170.88 ng		94
22) 1,1-Dichloropropene	3.871	75	2141969	170.31 ng		98
23) Carbon tetrachloride	3.968	117	932966	131.12 ng		88
25) 1,2-Dichloroethane	3.681	62	1593531	167.26 ng		98
26) Benzene	4.001	78	7627907	180.51 ng		97
27) Trichloroethene	4.392	130	1911433	166.51 ng		95
28) 1,2-Dichloropropane	4.364	63	1715056	185.06 ng		99
29) Dibromomethane	4.337	174	960719	167.00 ng		96
30) Bromodichloromethane	4.415	83	1618652	165.62 ng		96
32) cis-1,3-Dichloropropene	4.782	75	2023772	188.13 ng		97
33) 4-Methyl-2-pentanone	4.864	43	3455117	312.64 ng	#	96
35) Toluene	5.169	91	8473651	186.45 ng		99
36) trans-1,3-Dichloropropene	5.013	75	1752194	182.90 ng		95
37) 1,1,2-Trichloroethane	5.078	97	1540615	173.98 ng		94
38) 1,3-Dichloropropane	5.197	76	2640441	176.01 ng		92
39) Tetrachloroethene	5.512	166	1914152	157.60 ng		97
40) 2-Hexanone	5.298	43	2420701m	285.39 ng		
41) Dibromochloromethane	5.311	129	1260833	162.78 ng		97
42) 1,2-Dibromoethane	5.425	107	1471667	173.62 ng		94
44) Chlorobenzene	5.819	112	5370488	215.89 ng		93
45) 1,1,1,2-Tetrachloroethane	5.786	131	1507083	190.00 ng		93
46) Ethylbenzene	5.915	91	10090402	241.88 ng		98
47) m- &/or p-Xylene	6.003	91	13945446	487.30 ng		99
48) o-Xylene	6.172	91	7301595	243.33 ng		96
49) Styrene	6.143	104	6300607	213.17 ng		91
50) Bromoform	6.033	173	832803	161.27 ng		88

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 12:24:15 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

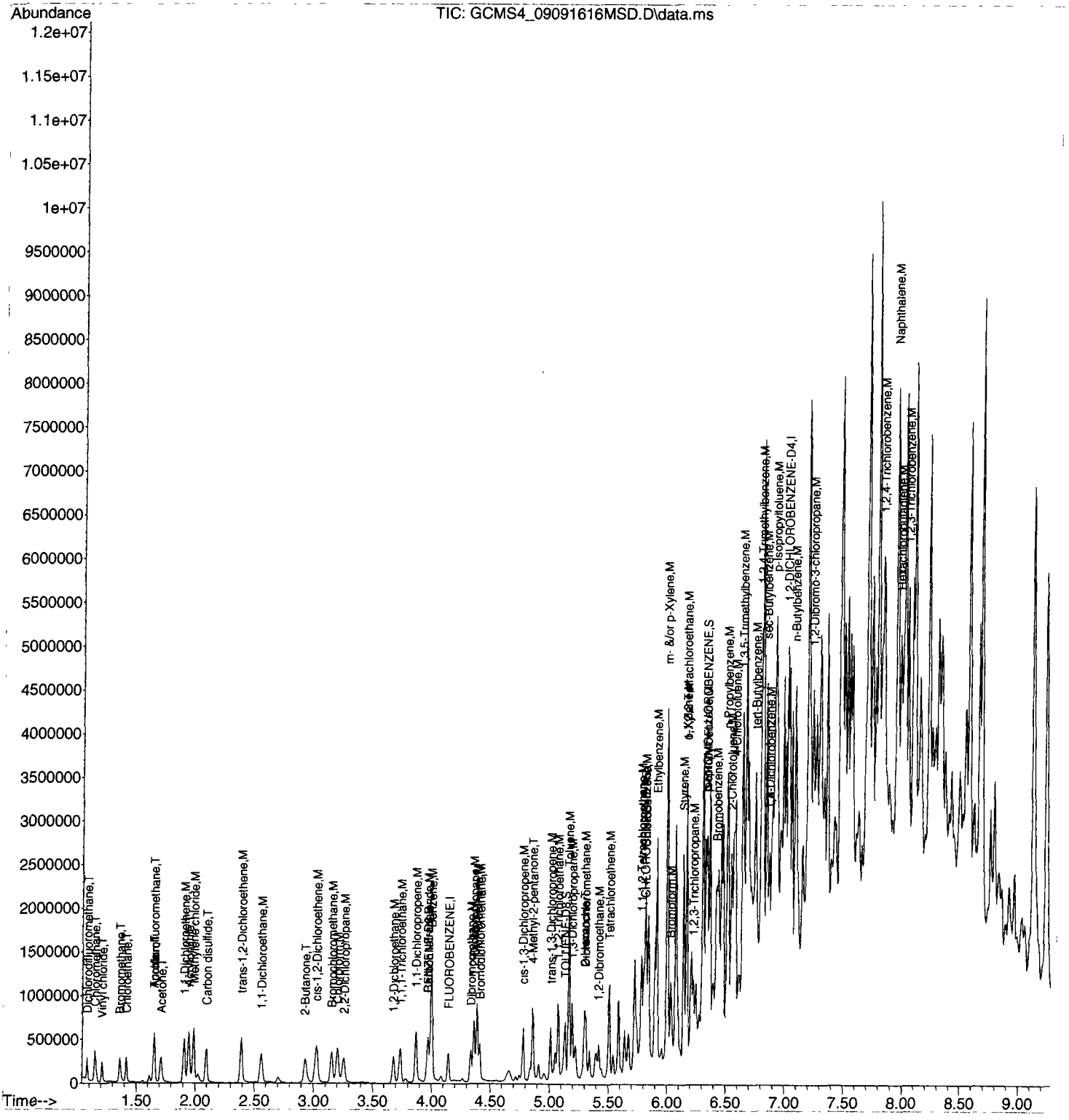
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
51) Isopropylbenzene	6.331	105	7920641	194.78 ng		95
53) 1,1,2,2-Tetrachloroethane	6.171	83	1957389	209.42 ng		94
54) 1,2,3-Trichloropropane	6.232	75	1572493	179.49 ng		98
55) Bromobenzene	6.426	156	2117897	214.34 ng		87
56) n-Propylbenzene	6.518	91	8591336	197.02 ng		100
57) 2-Chlorotoluene	6.551	91	5886025	222.20 ng		95
58) 4-Chlorotoluene	6.584	91	6242820m	235.67 ng		
59) 1,3,5-Trimethylbenzene	6.646	105	8152936	261.64 ng		89
60) tert-Butylbenzene	6.757	119	4964067	180.94 ng		91
61) 1,2,4-Trimethylbenzene	6.806	105	9959807	328.58 ng		93
62) sec-Butylbenzene	6.848	105	7383176	180.18 ng		98
63) p-Isopropyltoluene	6.927	119	8202562	243.94 ng		95
64) 1,3-Dichlorobenzene	6.873	146	3684440	226.87 ng		97
65) 1,4-Dichlorobenzene	6.873	146	3685897	194.15 ng		95
67) n-Butylbenzene	7.094	91	6054960	197.25 ng	#	83
68) 1,2-Dichlorobenzene	6.873	146	3675200	170.06 ng		90
69) 1,2-Dibromo-3-chloropr...	7.243	157	353556	138.87 ng	#	35
70) 1,2,4-Trichlorobenzene	7.847	180	1767272	128.26 ng		91
71) Hexachlorobutadiene	7.993	225	900536	108.98 ng		96
72) Naphthalene	7.961	128	25090224	691.83 ng		96
73) 1,2,3-Trichlorobenzene	8.057	180	1610201	117.28 ng		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091616MSD.D
Acq On : 16 Sep 2009 15:57
Operator : CTANG
Sample : B909019-MSD2
Misc : T26-175-1.0-2.6, 4.5326 G
ALS Vial : 16 Sample Multiplier: 1

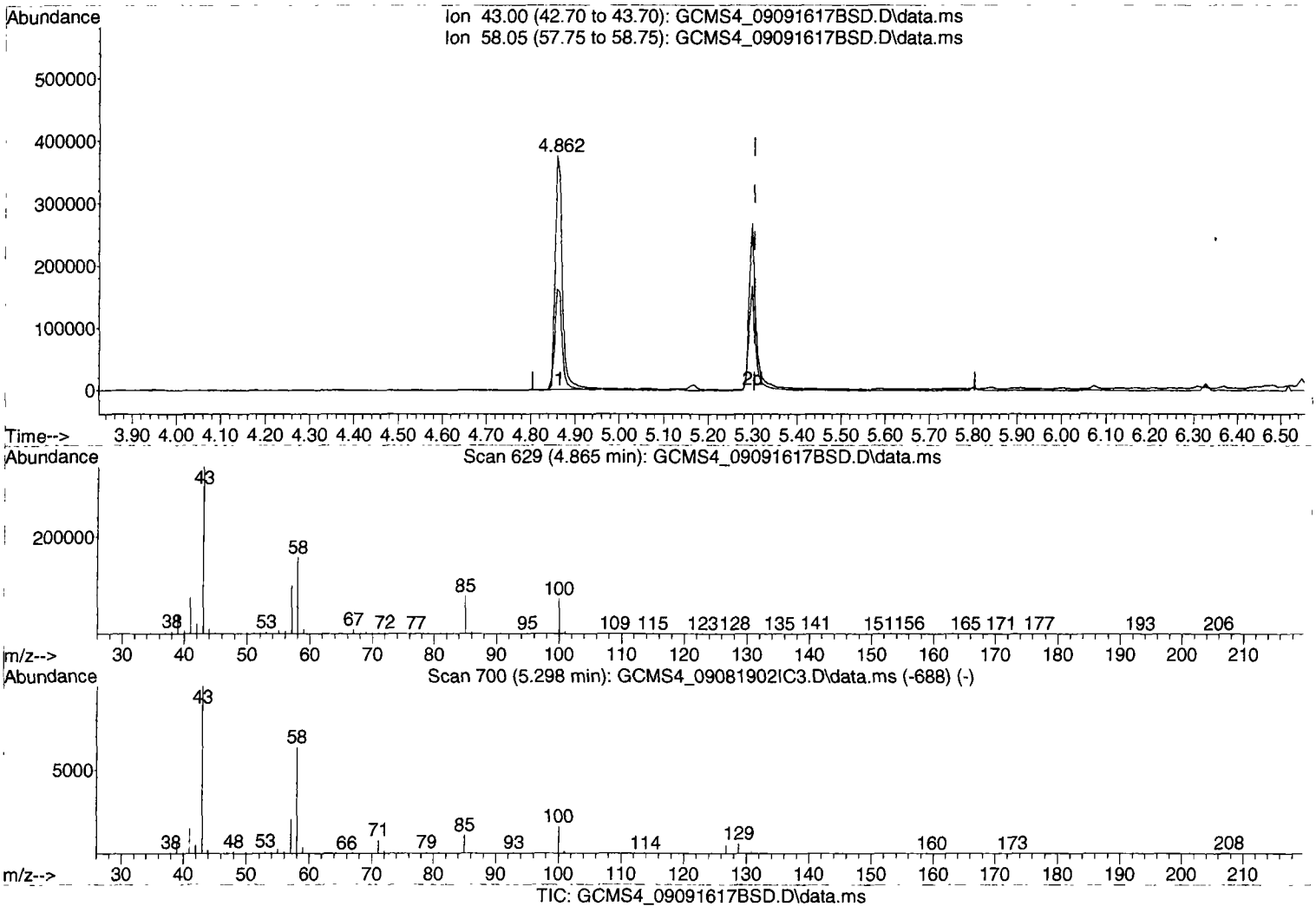
Quant Time: Nov 05 12:24:15 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 16 15:27:20 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

4.864min (-0.440) 482.26ng

response 4233926

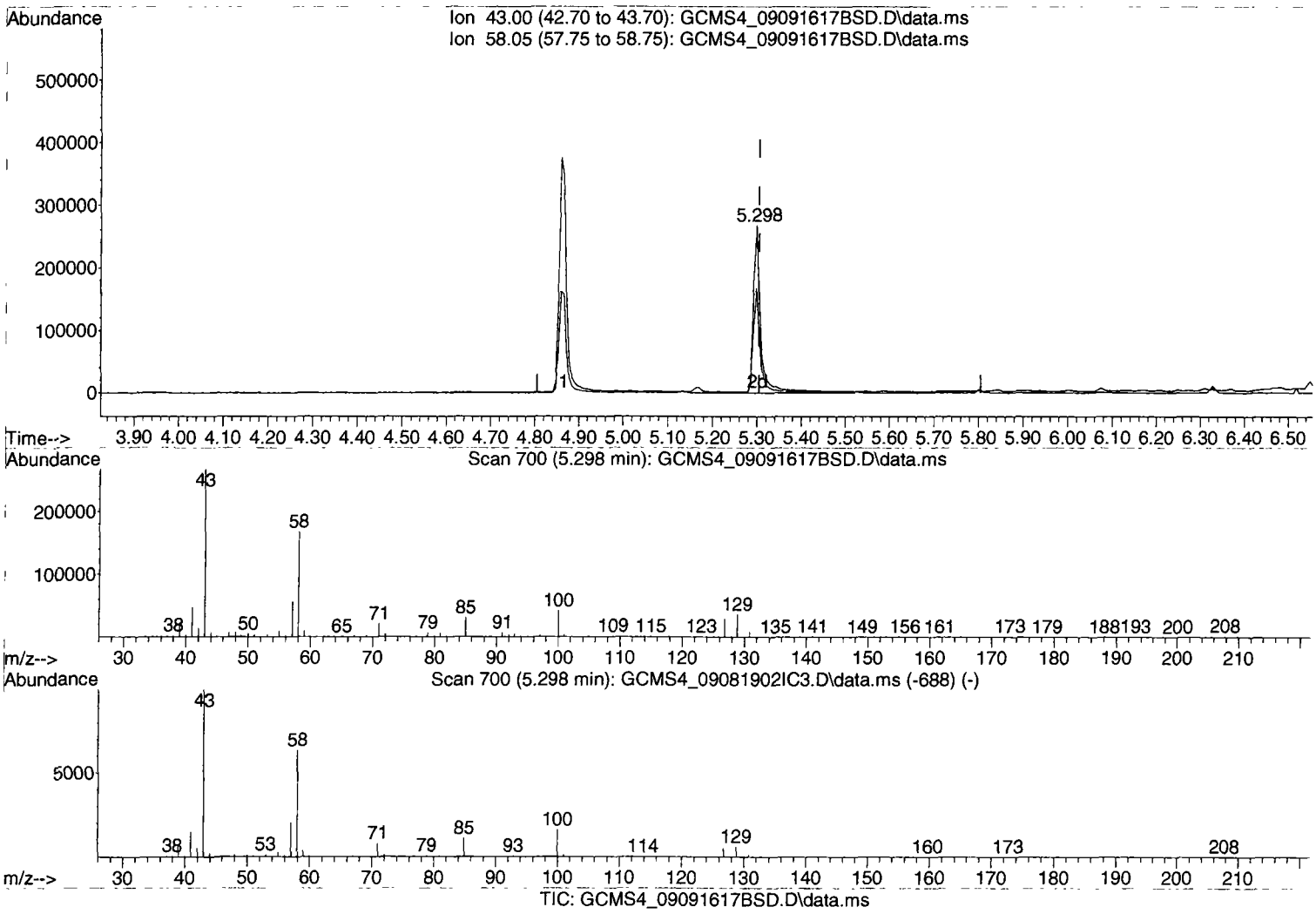
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	44.91
0.00	0.00	0.00
0.00	0.00	0.00

before P
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 16 15:27:20 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(40) 2-Hexanone (T)

5.298min (-0.006) 361.12ng m

response 3170376

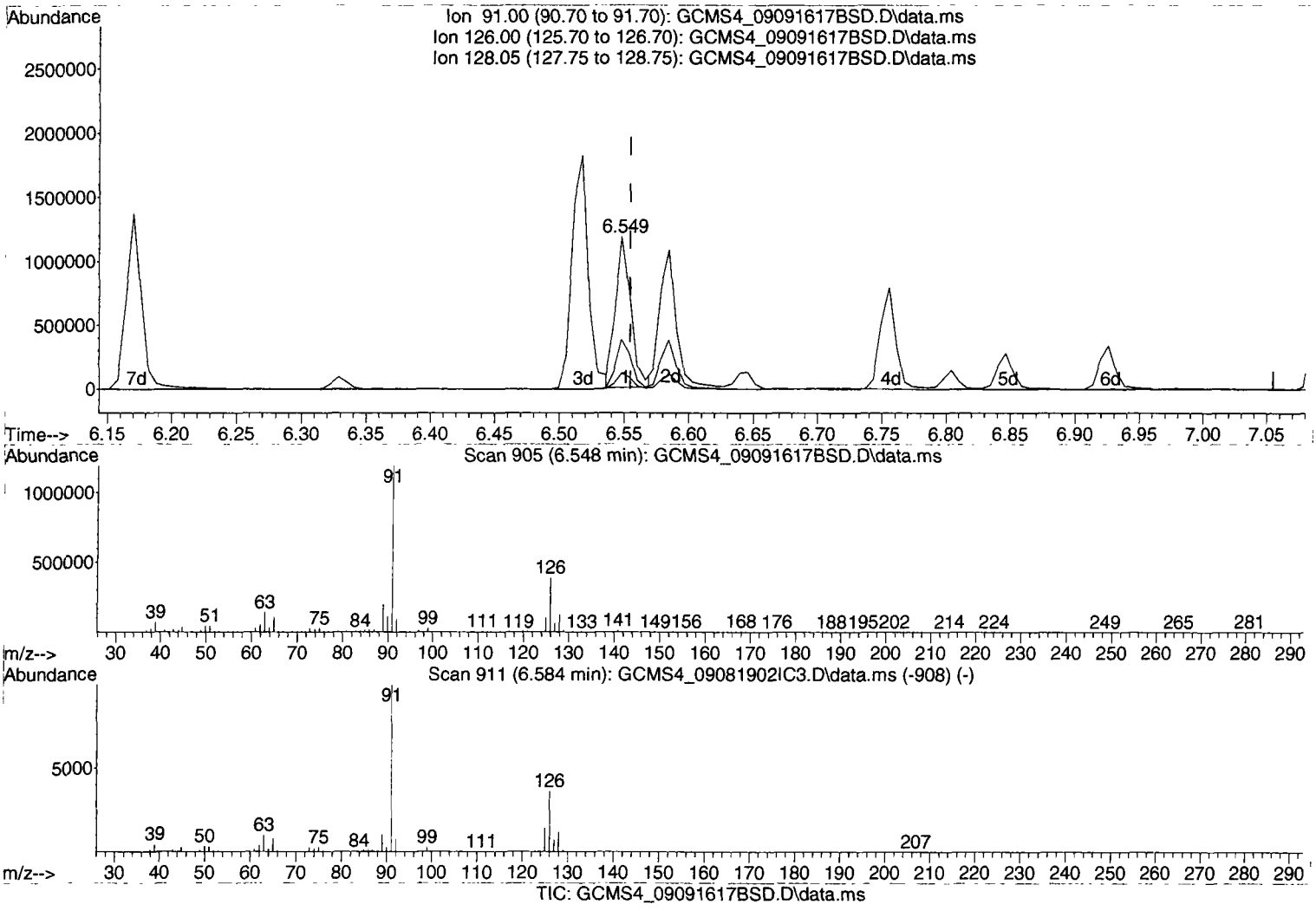
Ion	Exp%	Act%
43.00	100	100
58.05	36.90	59.97#
0.00	0.00	0.00
0.00	0.00	0.00

after
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 16 15:27:20 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.551min (-0.004) 313.85ng

response 10009360

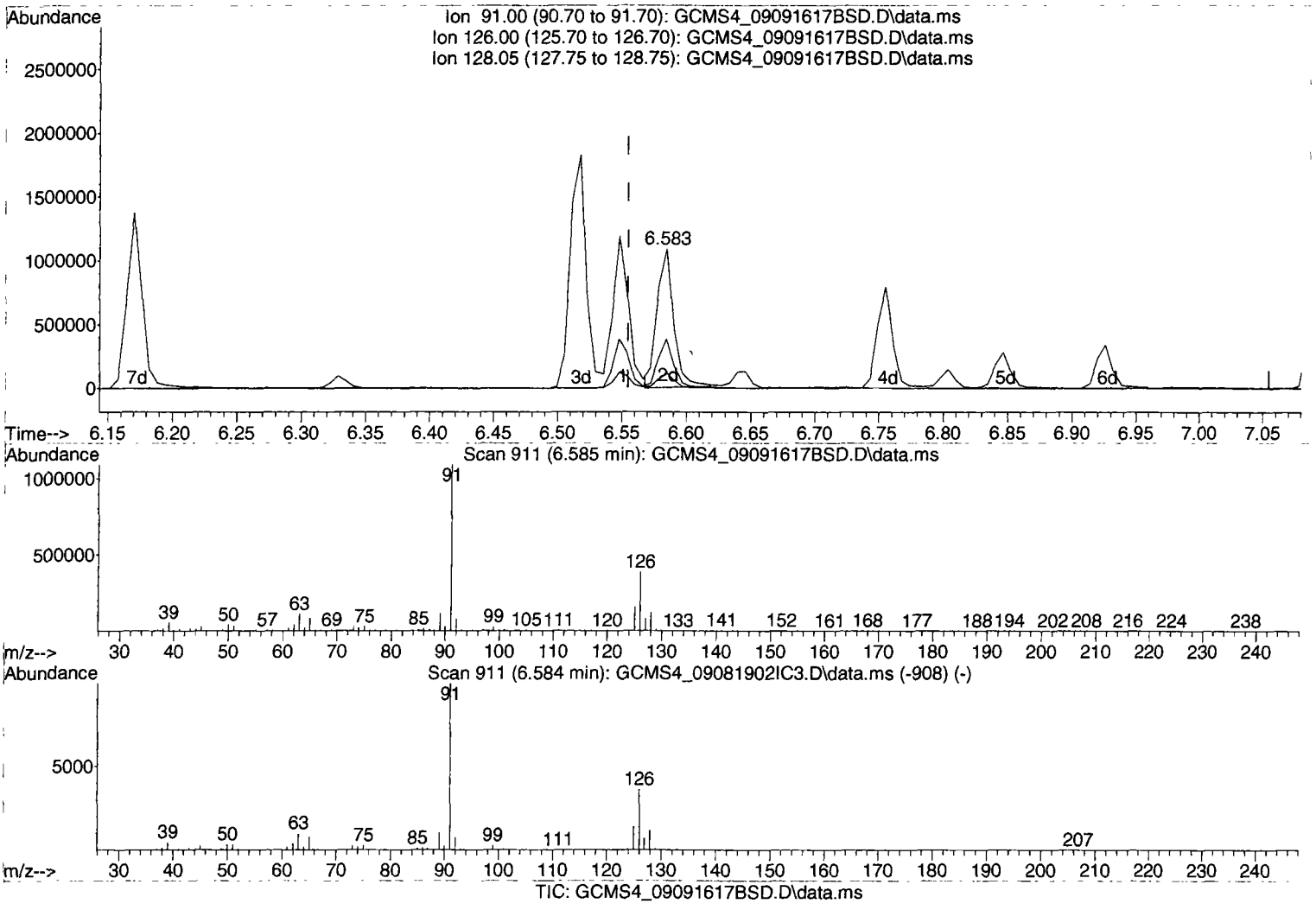
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	32.99
128.05	10.00	11.34
0.00	0.00	0.00

before PC
CMY 11/18/09

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 16 15:27:20 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



(58) 4-Chlorotoluene (M)

6.585min (+0.030) 305.57ng m

response 9745351

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	33.88
128.05	10.00	11.65
0.00	0.00	0.00

after PC
CMY 11/18/09

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 05 12:25:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.147	96	2144251	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.805	82	949053	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.037	152	874602	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.975	84	2350213	46.99 ng	0.00
34) TOLUENE-D8	5.136	98	2012076	50.59 ng	0.00
52) p-BROMOFLUOROBENZENE	6.343	95	748430	52.07 ng	0.00

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.083	85	678910	124.80 ng		98
3) Chloromethane	1.150	50	1744456	140.79 ng		96
4) Vinyl chloride	1.213	62	775676	155.15 ng		99
5) Bromomethane	1.365	94	952550	238.22 ng		98
6) Chloroethane	1.419	64	974107	200.24 ng		97
7) Trichlorofluoromethane	1.657	101	1991009	163.99 ng		98
8) Acrolein	1.656	56	419997	811.95 ng		93
9) 1,1-Dichloroethene	1.910	96	2257961	265.00 ng		92
10) Acetone	1.714	43	2798575	778.09 ng		87
11) Carbon disulfide	2.097	76	6260321	258.86 ng		97
12) Methylene chloride	1.990	84	2882594	225.44 ng		82
13) Acrylonitrile	1.948	53	3822311	797.61 ng		98
14) trans-1,2-Dichloroethene	2.392	96	2733237	260.02 ng		91
15) 1,1-Dichloroethane	2.562	63	4294995	261.28 ng	#	96
16) 2-Butanone	2.932	43	4194610	824.08 ng	#	68
17) cis-1,2-Dichloroethene	3.026	96	3007380	251.71 ng		89
18) 2,2-Dichloropropane	3.257	77	2281646	258.77 ng		99
19) Bromochloromethane	3.155	128	1296304	230.48 ng		98
20) Chloroform	3.205	83	4238918	254.78 ng		94
21) 1,1,1-Trichloroethane	3.738	97	2947378	259.18 ng		94
22) 1,1-Dichloropropene	3.871	75	3501053	268.95 ng		98
23) Carbon tetrachloride	3.968	117	1808755	245.60 ng		90
25) 1,2-Dichloroethane	3.681	62	2241031	227.26 ng		98
26) Benzene	4.002	78	11391233	260.43 ng		97
27) Trichloroethene	4.392	130	3050277	256.71 ng		94
28) 1,2-Dichloropropane	4.364	63	2531349	263.89 ng		98
29) Dibromomethane	4.337	174	1312764	220.46 ng		98
30) Bromodichloromethane	4.416	83	2422156	239.44 ng		97
32) cis-1,3-Dichloropropene	4.782	75	2899174	260.38 ng		98
33) 4-Methyl-2-pentanone	4.864	43	4238715	370.55 ng	#	94
35) Toluene	5.170	91	12661301	269.16 ng		99
36) trans-1,3-Dichloropropene	5.013	75	2486377	250.74 ng		96
37) 1,1,2-Trichloroethane	5.079	97	2047939	223.44 ng		98
38) 1,3-Dichloropropane	5.198	76	3734481	240.50 ng		92
39) Tetrachloroethene	5.512	166	3357072	267.04 ng		98
40) 2-Hexanone	5.298	43	3170376m	361.12 ng		
41) Dibromochloromethane	5.311	129	1812099	226.03 ng		99
42) 1,2-Dibromoethane	5.425	107	2008114	228.88 ng		96
44) Chlorobenzene	5.819	112	8116872	271.01 ng		96
45) 1,1,1,2-Tetrachloroethane	5.787	131	2416030	252.99 ng		93
46) Ethylbenzene	5.915	91	14406732	286.85 ng		97
47) m- &/or p-Xylene	6.003	91	22545002	654.34 ng		99
48) o-Xylene	6.172	91	11351080	314.19 ng		95
49) Styrene	6.144	104	9363723	263.14 ng		92
50) Bromoform	6.034	173	1238378	199.18 ng		90

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 05 12:25:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

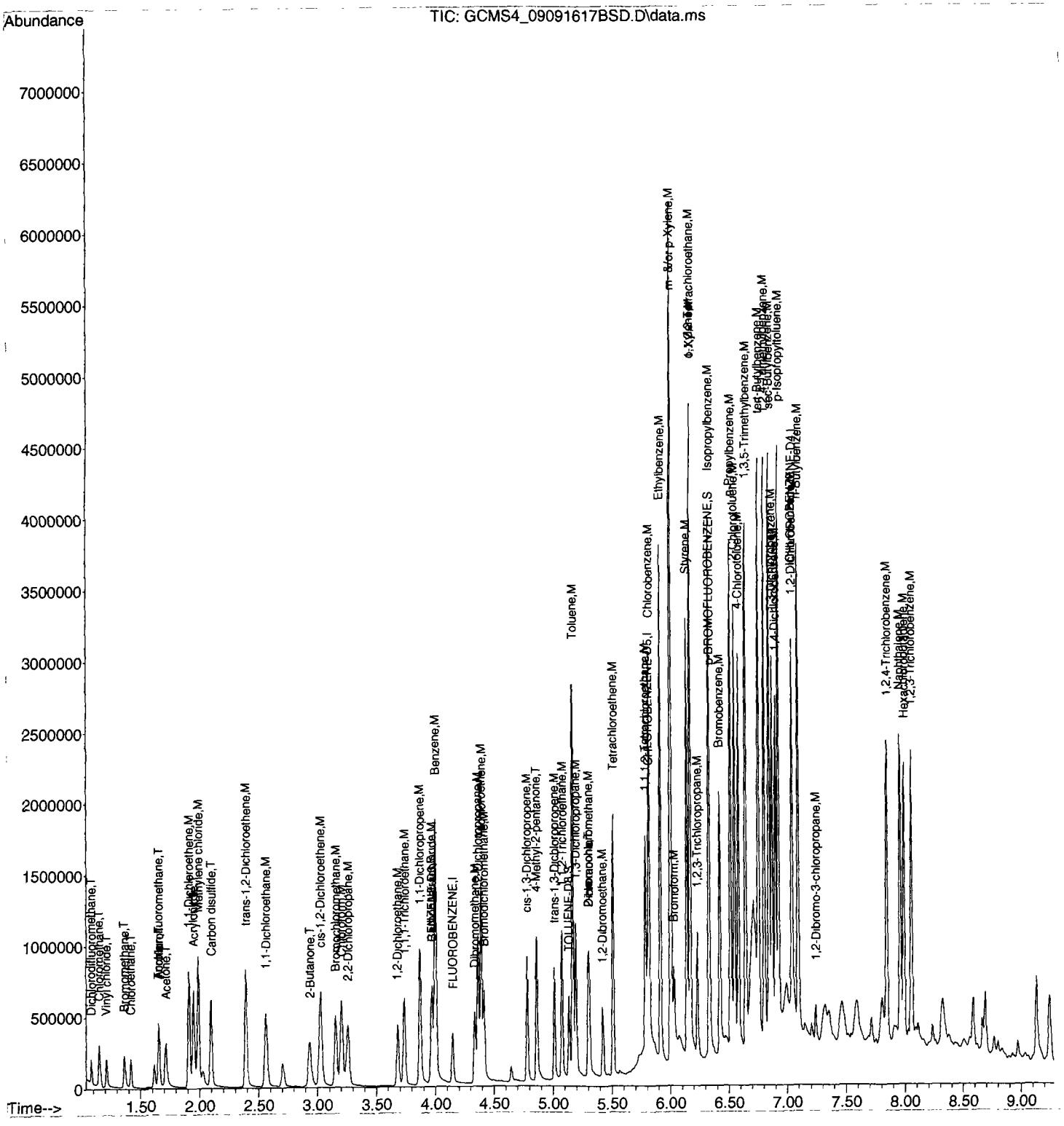
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
51) Isopropylbenzene	6.331	105	14018127	286.32 ng		96
53) 1,1,2,2-Tetrachloroethane	6.171	83	2414547	214.57 ng		97
54) 1,2,3-Trichloropropane	6.232	75	2140183	202.90 ng		97
55) Bromobenzene	6.426	156	3417454	287.27 ng		90
56) n-Propylbenzene	6.518	91	15614730	297.42 ng		98
57) 2-Chlorotoluene	6.551	91	10009360	313.85 ng		96
58) 4-Chlorotoluene	6.585	91	9745351m	305.57 ng		
59) 1,3,5-Trimethylbenzene	6.646	105	12208962	325.42 ng		89
60) tert-Butylbenzene	6.757	119	10502324	317.96 ng		92
61) 1,2,4-Trimethylbenzene	6.806	105	11880566	325.55 ng		94
62) sec-Butylbenzene	6.848	105	16206019	328.50 ng		97
63) p-Isopropyltoluene	6.928	119	13351643	329.80 ng		95
64) 1,3-Dichlorobenzene	6.873	146	6140684	314.06 ng		98
65) 1,4-Dichlorobenzene	6.902	146	6729673	294.43 ng		94
67) n-Butylbenzene	7.095	91	11755721	278.17 ng		96
68) 1,2-Dichlorobenzene	7.046	146	6185262	207.89 ng		95
69) 1,2-Dibromo-3-chloropr...	7.245	157	520199	148.41 ng	#	65
70) 1,2,4-Trichlorobenzene	7.847	180	4550228	239.86 ng		95
71) Hexachlorobutadiene	7.994	225	2767364	243.26 ng		97
72) Naphthalene	7.961	128	11402355	228.37 ng		97
73) 1,2,3-Trichlorobenzene	8.057	180	4260775	225.42 ng		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 05 12:25:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 05 12:25:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.127	0.063	50.4#	48#	0.00
3	T	Chloromethane	0.289	0.163	43.6#	62	0.00
4	T	Vinyl chloride	0.117	0.072	38.5#	84	0.00
5	T	Bromomethane	0.093	0.089	4.3	80	0.00
6	T	Chloroethane	0.113	0.091	19.5	69	0.00
7	T	Trichlorofluoromethane	0.283	0.186	34.3#	62	0.00
8	T	Acrolein	0.012	0.008	33.3#	71	0.00
9	M	1,1-Dichloroethene	0.199	0.211	-6.0	129	0.00
10	T	Acetone	0.084	0.052	38.1#	66	0.00
11	T	Carbon disulfide	0.564	0.584	-3.5	127	0.00
12	M	Methylene chloride	0.298	0.269	9.7	110	0.00
13	T	Acrylonitrile	0.112	0.071	36.6#	70	0.00
14	M	trans-1,2-Dichloroethene	0.245	0.255	-4.1	128	0.00
15	M	1,1-Dichloroethane	0.383	0.401	-4.7	125	0.00
16	T	2-Butanone	0.119	0.078	34.5#	68	-0.01
17	M	cis-1,2-Dichloroethene	0.279	0.281	-0.7	119	0.00
18	M	2,2-Dichloropropane	0.206	0.213	-3.4	129	0.00
19	M	Bromochloromethane	0.131	0.121	7.6	106	0.00
20	M	Chloroform	0.388	0.395	-1.8	121	0.00
21	M	1,1,1-Trichloroethane	0.265	0.275	-3.8	126	0.00
22	M	1,1-Dichloropropene	0.304	0.327	-7.6	133	0.00
23	M	Carbon tetrachloride	0.172	0.169	1.7	119	0.00
24	S	BENZENE-D6	1.166	1.096	6.0	103	0.00
25	M	1,2-Dichloroethane	0.230	0.209	9.1	108	0.00
26	M	Benzene	1.020	1.062	-4.1	124	0.00
27	M	Trichloroethene	0.277	0.285	-2.9	123	0.00
28	M	1,2-Dichloropropane	0.224	0.236	-5.4	124	0.00
29	M	Dibromomethane	0.139	0.122	12.2	98	0.00
30	M	Bromodichloromethane	0.236	0.226	4.2	112	0.00
31	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	74	0.00
32	M	cis-1,3-Dichloropropene	0.260	0.270	-3.8	115	0.00
33	T	4-Methyl-2-pentanone	0.267	0.198	25.8#	77	0.00
34	S	TOLUENE-D8	0.927	0.938	-1.2	102	0.00
35	M	Toluene	1.097	1.181	-7.7	127	0.00
36	M	trans-1,3-Dichloropropene	0.231	0.232	-0.4	107	0.00
37	M	1,1,2-Trichloroethane	0.214	0.191	10.7	97	0.00
38	M	1,3-Dichloropropane	0.362	0.348	3.9	105	0.00
39	M	Tetrachloroethene	0.293	0.313	-6.8	131	0.00
40	T	2-Hexanone	0.205	0.148	27.8#	80	0.00
41	M	Dibromochloromethane	0.187	0.169	9.6	97	0.00
42	M	1,2-Dibromoethane	0.205	0.187	8.8	98	0.00
43	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00
44	M	Chlorobenzene	1.578	1.711	-8.4	123	0.00
45	M	1,1,1,2-Tetrachloroethane	0.503	0.509	-1.2	110	0.00
46	M	Ethylbenzene	2.646	3.036	-14.7	131	0.00
47	M	m- &/or p-Xylene	1.815	2.376	-30.9#	128	0.00
48	M	o-Xylene	1.903	2.392	-25.7#	125	0.00
49	M	Styrene	1.875	1.973	-5.2	124	0.00
50	M	Bromoform	0.328	0.261	20.4	81	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 090916\
Data File : GCMS4 09091617BSD.D
Acq On : 16 Sep 2009 16:18
Operator : CTANG
Sample : B909019-BSD2
Misc : CCC at 250 NG, LIMS # 9091403/9091404
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 05 12:25:21 2009
Quant Method : D:\CTANG\METHODS\GCMS4_090915.M
Quant Title :
QLast Update : Wed Sep 16 08:25:57 2009
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	2.579	2.954	-14.5	129	0.00
52	S	p-BROMOFLUOROBENZENE	0.757	0.789	-4.2	100	0.00
53	M	1,1,2,2-Tetrachloroethane	0.593	0.509	14.2	87	0.00
54	M	1,2,3-Trichloropropane	0.556	0.451	18.9	83	0.00
55	M	Bromobenzene	0.627	0.720	-14.8	115	0.00
56	M	n-Propylbenzene	2.766	3.291	-19.0	135	0.00
57	M	2-Chlorotoluene	1.680	2.109	-25.5#	126	0.00
58	M	4-Chlorotoluene	1.680	2.054	-22.3	122	0.03
59	M	1,3,5-Trimethylbenzene	1.977	2.573	-30.1#	128	0.00
60	M	tert-Butylbenzene	1.740	2.213	-27.2#	127	0.00
61	M	1,2,4-Trimethylbenzene	1.923	2.504	-30.2#	130	0.00
62	M	sec-Butylbenzene	2.599	3.415	-31.4#	131	0.00
63	M	p-Isopropyltoluene	2.133	2.814	-31.9#	133	0.00
64	M	1,3-Dichlorobenzene	1.030	1.294	-25.6#	130	0.00
65	M	1,4-Dichlorobenzene	1.204	1.418	-17.8	118	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	115	0.00
67	M	n-Butylbenzene	2.416	2.688	-11.3	140	0.00
68	M	1,2-Dichlorobenzene	1.701	1.414	16.9	116	0.00
69	M	1,2-Dibromo-3-chloropropane	0.200	0.119	40.5#	72	0.00
70	M	1,2,4-Trichlorobenzene	1.085	1.041	4.1	118	0.00
71	M	Hexachlorobutadiene	0.650	0.633	2.6	126	0.00
72	M	Naphthalene	2.854	2.607	8.7	105	0.00
73	M	1,2,3-Trichlorobenzene	1.081	0.974	9.9	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 11/4/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Kathleen Swan KS
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griggs NOV 0 4 2009
Data Management Coordinator and Date Received

Date Transmitted: NOV 0 4 2009 / / /

Analyses included in this report:

Metals full ICP (S)

USER: TAKE NOTE OF THE NARRATIVE STATEMENT THAT SUGGESTS THAT AT LEAST ONE OF THESE SAMPLES WERE NOT HOMOGENEOUS (SAME TEXTURE/PROPERTIES) THROUGHOUT THE SAMPLE. THIS SAMPLE ISSUE WAS NOTED TO BE RECTIFIED BY RESAMPLING/REANALYSIS.

THE DATA ARE USABLE FOR THEIR INTENDED PURPOSE: TO MEASURE METALS CONTENT IN SEDIMENTS.

Brad P. Brown 11/20/09

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

ANALYSIS CASE NARRATIVE
312 353 9071
General Information

All holding times were met. Temperature upon arrival was below 6 degrees C.

Sample Analysis and Results

Sample preparation occurred by using CRL SOP Metals 025, Revision No. 4, EPA sample preparation procedure 200.2, and analysis occurred by using CRL SOP Metals Method 004, Revision No. 6, EPA ICP Method 200.7. It is noted that a preliminary run showed an inhomogeneity in 0909014-02 T23-150-1.0-3.0. Samples from that work order were redigested and the inhomogeneity did not reappear. Conclude that the original inhomogeneity resulted from clumps that were part of the original subsample.

Quality Control

All quality control (QC) audits were within CRL limits, with the following exceptions:

Blanks (Limit ± MDL) Several elements were very slightly outside currently calculated detection limit. This does not affect data quality.

Matrix Duplicate (Limit ± 20%) Sample 0909006-01 T27-150-1.0.3.0 was inhomogeneous in silver (26% RPD) and is flagged J.

Kathleen Swan, Analyst

Analysis:	Metals full ICP (S)	**Project**:	BASF Wyandotte, MI Sediments Burns Harbor
Analyst:	K Swan	**Work Order**	0909005, 0909006, 0909014
		Date: October 29, 2009	
Phone Number:	312 353 9071		

ANALYSIS CASE NARRATIVE

312 353 9071

General Information

All holding times were met. Temperature upon arrival was below 6 degrees C.

Sample Analysis and Results

Sample preparation occurred by using CRL SOP Metals 025, Revision No. 4, EPA sample preparation procedure 200.2, and analysis occurred by using CRL SOP Metals Method 004, Revision No. 6, EPA ICP Method 200.7. It is noted that a preliminary run showed an inhomogeneity in 0909014-02 T23-150-1.0-3.0. Samples from that work order were redigested and the inhomogeneity did not reappear. Conclude that the original inhomogeneity resulted from clumps that were part of the original subsample.

Quality Control

All quality control (QC) audits were within CRL limits, with the following exceptions:

Blanks (Limit ± MDL) Several elements were very slightly outside currently calculated detection limit. This does not affect data quality.

Matrix Duplicate (Limit ± 20%) Sample 0909006-01 T27-150-1.0.3.0 was inhomogeneous in silver (26% RPD) and is flagged J.

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T18-50-0.5-1.0	0909005-01	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T18-50-1.0-3.0	0909005-02	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T27-125-3.0-4.8	0909005-03	Soil	Sep-01-09 14:50	Sep-03-09 10:48
T24-125-1.0-3.0	0909005-04	Soil	Sep-02-09 09:05	Sep-03-09 10:48
T26-125-1.0-3.0	0909005-05	Soil	Sep-02-09 10:30	Sep-03-09 10:48
T20-125-1.0-3.0	0909005-06	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T20-125-1.0-3.0 Duplicate	0909005-07	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T27-150-1.0-3.0	0909006-01	Soil	Sep-03-09 15:50	Sep-08-09 11:25
T29-200-1.0-3.0	0909006-02	Soil	Sep-04-09 10:20	Sep-08-09 11:25
T30-150-1.0-3.0	0909006-03	Soil	Sep-04-09 11:40	Sep-08-09 11:25
T22-175-0.5-1.2	0909006-04	Soil	Sep-04-09 13:50	Sep-08-09 11:25
T16-125-0.0-0.6	0909014-01	Soil	Sep-11-09 10:55	Sep-14-09 10:00
T23-150-1.0-3.0	0909014-02	Soil	Sep-11-09 15:00	Sep-14-09 10:00
T23-150-5.0-6.2	0909014-03	Soil	Sep-11-09 15:08	Sep-14-09 10:00
T26-175-1.0-2.6	0909014-04	Soil	Sep-11-09 17:00	Sep-14-09 10:00
T26-175-0.5-1.0	0909014-05	Soil	Sep-11-09 16:53	Sep-14-09 10:00

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T18-50-0.5-1.0
0909005-01(Soil)
Sampled: Sep-01-09 14:00
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5200**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**74**			1.0	"	"	"	"	"
Beryllium	**U**			0.52	"	"	"	"	"
Boron	**23**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**290000**			520	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.7**			1.0	"	"	"	"	"
Copper	**9.9**			1.0	"	"	"	"	"
Iron	**5100**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**4.4**			2.1	"	"	"	"	"
Magnesium	**68000**			260	"	25	"	"	Oct-26-09
Manganese	**370**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**17**			5.2	"	"	"	"	"
Nickel	**3.2**			2.1	"	"	"	"	"
Potassium	**270**			52	"	"	"	"	"
Silver	**2.7**			1.0	"	"	"	"	"
Sodium	**490**			21	"	"	"	"	"
Strontium	**540**			0.52	"	"	"	"	"
Titanium	**200**			1.0	"	"	"	"	"
Vanadium	**18**			2.1	"	"	"	"	"
Zinc	**22**			5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T18-50-1.0-3.0
0909005-02(Soil)
Sampled: Sep-01-09 14:00
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**93**			1.0	"	"	"	"	"
Beryllium	**0.61**			0.51	"	"	"	"	"
Boron	**22**			2.1	"	"	"	"	"
Cadmium	**U**			0.51	"	"	"	"	"
Calcium	**280000**			510	"	25	"	"	Oct-26-09
Chromium	**10**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.8**			1.0	"	"	"	"	"
Copper	**10**			1.0	"	"	"	"	"
Iron	**4600**			21	"	"	"	"	"
Lead	**U**			5.1	"	"	"	"	"
Lithium	**4.1**			2.1	"	"	"	"	"
Magnesium	**72000**			260	"	25	"	"	Oct-26-09
Manganese	**310**			0.51	"	1	"	"	Oct-26-09
Molybdenum	**17**			5.1	"	"	"	"	"
Nickel	**2.8**			2.1	"	"	"	"	"
Potassium	**400**			51	"	"	"	"	"
Silver	**3.0**			1.0	"	"	"	"	"
Sodium	**770**			21	"	"	"	"	"
Strontium	**650**			0.51	"	"	"	"	"
Titanium	**230**			1.0	"	"	"	"	"
Vanadium	**19**			2.1	"	"	"	"	"
Zinc	**21**			5.1	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T27-125-3.0-4.8
0909005-03(Soil)
Sampled: Sep-01-09 14:50
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4100**			20	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**37**			1.0	"	"	"	"	"
Beryllium	**U**			0.51	"	"	"	"	"
Boron	**8.5**			2.0	"	"	"	"	"
Cadmium	**U**			0.51	"	"	"	"	"
Calcium	**130000**			510	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**4.6**			1.0	"	"	"	"	"
Copper	**18**			1.0	"	"	"	"	"
Iron	**14000**			20	"	"	"	"	"
Lead	**22**			5.1	"	"	"	"	"
Lithium	**7.1**			2.0	"	"	"	"	"
Magnesium	**15000**			10	"	"	"	"	"
Manganese	**690**			0.51	"	"	"	"	"
Molybdenum	**U**			5.1	"	"	"	"	"
Nickel	**12**			2.0	"	"	"	"	"
Potassium	**770**			51	"	"	"	"	"
Silver	**1.2**			1.0	"	"	"	"	"
Sodium	**2000**			20	"	"	"	"	"
Strontium	**110**			0.51	"	"	"	"	"
Titanium	**77**			1.0	"	"	"	"	"
Vanadium	**14**			2.0	"	"	"	"	"
Zinc	**56**			5.1	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Nov-04-09 14:50

T24-125-1.0-3.0
0909005-04(Soil)
Sampled: Sep-02-09 09:05
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5700**			19	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**66**			0.97	"	"	"	"	"
Beryllium	**0.69**			0.49	"	"	"	"	"
Boron	**8.8**			1.9	"	"	"	"	"
Cadmium	**U**			0.49	"	"	"	"	"
Calcium	**170000**			490	"	25	"	"	Oct-26-09
Chromium	**14**			0.97	"	1	"	"	Oct-26-09
Cobalt	**2.9**			0.97	"	"	"	"	"
Copper	**48**			0.97	"	"	"	"	"
Iron	**12000**			19	"	"	"	"	"
Lead	**47**			4.9	"	"	"	"	"
Lithium	**6.9**			1.9	"	"	"	"	"
Magnesium	**8800**			9.7	"	"	"	"	"
Manganese	**250**			0.49	"	"	"	"	"
Molybdenum	**5.8**			4.9	"	"	"	"	"
Nickel	**11**			1.9	"	"	"	"	"
Potassium	**880**			49	"	"	"	"	"
Silver	**1.9**			0.97	"	"	"	"	"
Sodium	**1900**			19	"	"	"	"	"
Strontium	**170**			0.49	"	"	"	"	"
Titanium	**220**			0.97	"	"	"	"	"
Vanadium	**12**			1.9	"	"	"	"	"
Zinc	**130**			4.9	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Nov-04-09 14:50

T26-125-1.0-3.0
0909005-05(Soil)
Sampled: Sep-02-09 10:30
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**7300**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**95**			1.1	"	"	"	"	"
Beryllium	**0.85**			0.54	"	"	"	"	"
Boron	**19**			2.2	"	"	"	"	"
Cadmium	**2.5**			0.54	"	"	"	"	"
Calcium	**160000**			540	"	25	"	"	Oct-26-09
Chromium	**45**			1.1	"	1	"	"	Oct-26-09
Cobalt	**4.5**			1.1	"	"	"	"	"
Copper	**62**			1.1	"	"	"	"	"
Iron	**27000**			22	"	"	"	"	"
Lead	**140**			5.4	"	"	"	"	"
Lithium	**8.8**			2.2	"	"	"	"	"
Magnesium	**17000**			11	"	"	"	"	"
Manganese	**490**			0.54	"	"	"	"	"
Molybdenum	**U**			5.4	"	"	"	"	"
Nickel	**25**			2.2	"	"	"	"	"
Potassium	**910**			54	"	"	"	"	"
Silver	**2.5**			1.1	"	"	"	"	"
Sodium	**540**			22	"	"	"	"	"
Strontium	**240**			0.54	"	"	"	"	"
Titanium	**230**			1.1	"	"	"	"	"
Vanadium	**17**			2.2	"	"	"	"	"
Zinc	**280**			5.4	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T20-125-1.0-3.0
0909005-06(Soil)
Sampled: Sep-02-09 14:45
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4500**			20	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**44**			1.0	"	"	"	"	"
Beryllium	**0.57**			0.50	"	"	"	"	"
Boron	**29**			2.0	"	"	"	"	"
Cadmium	**U**			0.50	"	"	"	"	"
Calcium	**260000**			500	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.1**			1.0	"	"	"	"	"
Copper	**17**			1.0	"	"	"	"	"
Iron	**5200**			20	"	"	"	"	"
Lead	**U**			5.0	"	"	"	"	"
Lithium	**3.8**			2.0	"	"	"	"	"
Magnesium	**78000**			250	"	25	"	"	Oct-26-09
Manganese	**640**			0.50	"	1	"	"	Oct-26-09
Molybdenum	**16**			5.0	"	"	"	"	"
Nickel	**2.6**			2.0	"	"	"	"	"
Potassium	**260**			50	"	"	"	"	"
Silver	**3.0**			1.0	"	"	"	"	"
Sodium	**21000**			20	"	"	"	"	"
Strontium	**310**			0.50	"	"	"	"	"
Titanium	**180**			1.0	"	"	"	"	"
Vanadium	**14**			2.0	"	"	"	"	"
Zinc	**37**			5.0	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T20-125-1.0-3.0 Duplicate
0909005-07(Soil)
Sampled: Sep-02-09 14:45
Received: Sep-03-09 10:48

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**45**			1.0	"	"	"	"	"
Beryllium	**0.58**			0.52	"	"	"	"	"
Boron	**29**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**250000**			520	"	25	"	"	Oct-26-09
Chromium	**11**			1.0	"	1	"	"	Oct-26-09
Cobalt	**2.7**			1.0	"	"	"	"	"
Copper	**17**			1.0	"	"	"	"	"
Iron	**5600**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**4.0**			2.1	"	"	"	"	"
Magnesium	**77000**			260	"	25	"	"	Oct-26-09
Manganese	**640**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**12**			5.2	"	"	"	"	"
Nickel	**4.2**			2.1	"	"	"	"	"
Potassium	**290**			52	"	"	"	"	"
Silver	**2.6**			1.0	"	"	"	"	"
Sodium	**23000**			21	"	"	"	"	"
Strontium	**320**			0.52	"	"	"	"	"
Titanium	**170**			1.0	"	"	"	"	"
Vanadium	**14**			2.1	"	"	"	"	"
Zinc	**39**			5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T27-150-1.0-3.0
0909006-01(Soil)
Sampled: Sep-03-09 15:50
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**6600**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**76**			1.1	"	"	"	"	"
Beryllium	**0.60**			0.55	"	"	"	"	"
Boron	**13**			2.2	"	"	"	"	"
Cadmium	**0.77**			0.55	"	"	"	"	"
Calcium	**150000**			550	"	25	"	"	Oct-26-09
Chromium	**21**			1.1	"	1	"	"	Oct-26-09
Cobalt	**3.9**			1.1	"	"	"	"	"
Copper	**83**			1.1	"	"	"	"	"
Iron	**17000**			22	"	"	"	"	"
Lead	**79**			5.5	"	"	"	"	"
Lithium	**9.4**			2.2	"	"	"	"	"
Magnesium	**15000**			11	"	"	"	"	"
Manganese	**360**			0.55	"	"	"	"	"
Molybdenum	**U**			5.5	"	"	"	"	"
Nickel	**16**			2.2	"	"	"	"	"
Potassium	**990**			55	"	"	"	"	"
Silver	**2.4**	J		1.1	"	"	"	"	"
Sodium	**1200**			22	"	"	"	"	"
Strontium	**220**			0.55	"	"	"	"	"
Titanium	**140**			1.1	"	"	"	"	"
Vanadium	**15**			2.2	"	"	"	"	"
Zinc	**210**			5.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T29-200-1.0-3.0
0909006-02(Soil)
Sampled: Sep-04-09 10:20
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3600**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**38**			1.1	"	"	"	"	"
Beryllium	**U**			0.53	"	"	"	"	"
Boron	**25**			2.1	"	"	"	"	"
Cadmium	**U**			0.53	"	"	"	"	"
Calcium	**220000**			530	"	25	"	"	Oct-26-09
Chromium	**11**			1.1	"	1	"	"	Oct-26-09
Cobalt	**2.0**			1.1	"	"	"	"	"
Copper	**15**			1.1	"	"	"	"	"
Iron	**4200**			21	"	"	"	"	"
Lead	**15**			5.3	"	"	"	"	"
Lithium	**3.3**			2.1	"	"	"	"	"
Magnesium	**90000**			260	"	25	"	"	Oct-26-09
Manganese	**330**			0.53	"	1	"	"	Oct-26-09
Molybdenum	**8.3**			5.3	"	"	"	"	"
Nickel	**3.9**			2.1	"	"	"	"	"
Potassium	**330**			53	"	"	"	"	"
Silver	**2.6**			1.1	"	"	"	"	"
Sodium	**27000**			21	"	"	"	"	"
Strontium	**190**			0.53	"	"	"	"	"
Titanium	**140**			1.1	"	"	"	"	"
Vanadium	**15**			2.1	"	"	"	"	"
Zinc	**29**			5.3	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T30-150-1.0-3.0
0909006-03(Soil)
Sampled: Sep-04-09 11:40
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3400**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**36**			1.0	"	"	"	"	"
Beryllium	**U**			0.52	"	"	"	"	"
Boron	**24**			2.1	"	"	"	"	"
Cadmium	**U**			0.52	"	"	"	"	"
Calcium	**230000**			520	"	25	"	"	Oct-26-09
Chromium	**9.8**			1.0	"	1	"	"	Oct-26-09
Cobalt	**1.7**			1.0	"	"	"	"	"
Copper	**11**			1.0	"	"	"	"	"
Iron	**3300**			21	"	"	"	"	"
Lead	**U**			5.2	"	"	"	"	"
Lithium	**2.6**			2.1	"	"	"	"	"
Magnesium	**97000**			260	"	25	"	"	Oct-26-09
Manganese	**320**			0.52	"	1	"	"	Oct-26-09
Molybdenum	**U**			5.2	"	"	"	"	"
Nickel	**2.7**			2.1	"	"	"	"	"
Potassium	**290**			52	"	"	"	"	"
Silver	**2.2**			1.0	"	"	"	"	"
Sodium	**29000**			21	"	"	"	"	"
Strontium	**190**			0.52	"	"	"	"	"
Titanium	**130**			1.0	"	"	"	"	"
Vanadium	**14**			2.1	"	"	"	"	"
Zinc	**22**			5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T22-175-0.5-1.2
0909006-04(Soil)
Sampled: Sep-04-09 13:50
Received: Sep-08-09 11:25

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4100**			17	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**46**			0.85	"	"	"	"	"
Beryllium	**0.46**			0.42	"	"	"	"	"
Boron	**9.6**			1.7	"	"	"	"	"
Cadmium	**0.70**			0.42	"	"	"	"	"
Calcium	**110000**			210	"	12.5	"	"	Oct-26-09
Chromium	**21**			0.85	"	1	"	"	Oct-26-09
Cobalt	**4.6**			0.85	"	"	"	"	"
Copper	**23**			0.85	"	"	"	"	"
Iron	**20000**			17	"	"	"	"	"
Lead	**90**			4.2	"	"	"	"	"
Lithium	**6.9**			1.7	"	"	"	"	"
Magnesium	**30000**			8.5	"	"	"	"	"
Manganese	**380**			0.42	"	"	"	"	"
Molybdenum	**U**			4.2	"	"	"	"	"
Nickel	**24**			1.7	"	"	"	"	"
Potassium	**790**			42	"	"	"	"	"
Silver	**1.2**			0.85	"	"	"	"	"
Sodium	**2600**			17	"	"	"	"	"
Strontium	**110**			0.42	"	"	"	"	"
Titanium	**77**			0.85	"	"	"	"	"
Vanadium	**13**			1.7	"	"	"	"	"
Zinc	**140**			4.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T16-125-0.0-0.6
0909014-01(Soil)
Sampled: Sep-11-09 10:55
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3100**			18	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**21**			0.91	"	"	"	"	"
Beryllium	**U**			0.46	"	"	"	"	"
Boron	**4.7**			1.8	"	"	"	"	"
Cadmium	**U**			0.46	"	"	"	"	"
Calcium	**45000**			18	"	"	"	"	"
Chromium	**11**			0.91	"	"	"	"	"
Cobalt	**3.6**			0.91	"	"	"	"	"
Copper	**12**			0.91	"	"	"	"	"
Iron	**15000**			18	"	"	"	"	"
Lead	**20**			4.6	"	"	"	"	"
Lithium	**4.9**			1.8	"	"	"	"	"
Magnesium	**6100**			9.1	"	"	"	"	"
Manganese	**180**			0.46	"	"	"	"	"
Molybdenum	**U**			4.6	"	"	"	"	"
Nickel	**17**			1.8	"	"	"	"	"
Potassium	**340**			46	"	"	"	"	"
Silver	**U**			0.91	"	"	"	"	"
Sodium	**160**			18	"	"	"	"	"
Strontium	**61**			0.46	"	"	"	"	"
Titanium	**110**			0.91	"	"	"	"	"
Vanadium	**13**			1.8	"	"	"	"	"
Zinc	**70**			4.6	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T23-150-1.0-3.0
0909014-02(Soil)
Sampled: Sep-11-09 15:00
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**6700**			22	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**100**			1.1	"	"	"	"	"
Beryllium	**0.90**			0.55	"	"	"	"	"
Boron	**16**			2.2	"	"	"	"	"
Cadmium	**1.6**			0.55	"	"	"	"	"
Calcium	**220000**			550	"	25	"	"	Oct-26-09
Chromium	**34**			1.1	"	1	"	"	Oct-26-09
Cobalt	**4.4**			1.1	"	"	"	"	"
Copper	**160**			1.1	"	"	"	"	"
Iron	**16000**			22	"	"	"	"	"
Lead	**72**			5.5	"	"	"	"	"
Lithium	**9.0**			2.2	"	"	"	"	"
Magnesium	**18000**			11	"	"	"	"	"
Manganese	**310**			0.55	"	"	"	"	"
Molybdenum	**U**			5.5	"	"	"	"	"
Nickel	**23**			2.2	"	"	"	"	"
Potassium	**950**			55	"	"	"	"	"
Silver	**2.3**			1.1	"	"	"	"	"
Sodium	**1900**			22	"	"	"	"	"
Strontium	**240**			0.55	"	"	"	"	"
Titanium	**200**			1.1	"	"	"	"	"
Vanadium	**19**			2.2	"	"	"	"	"
Zinc	**300**			5.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T23-150-5.0-6.2
0909014-03(Soil)
Sampled: Sep-11-09 15:08
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3300**			17	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**29**			0.85	"	"	"	"	"
Beryllium	**U**			0.42	"	"	"	"	"
Boron	**13**			1.7	"	"	"	"	"
Cadmium	**U**			0.42	"	"	"	"	"
Calcium	**140000**			210	"	12.5	"	"	Oct-26-09
Chromium	**10**			0.85	"	1	"	"	Oct-26-09
Cobalt	**2.6**			0.85	"	"	"	"	"
Copper	**14**			0.85	"	"	"	"	"
Iron	**7100**			17	"	"	"	"	"
Lead	**18**			4.2	"	"	"	"	"
Lithium	**4.6**			1.7	"	"	"	"	"
Magnesium	**32000**			8.5	"	"	"	"	"
Manganese	**220**			0.42	"	"	"	"	"
Molybdenum	**U**			4.2	"	"	"	"	"
Nickel	**6.0**			1.7	"	"	"	"	"
Potassium	**420**			42	"	"	"	"	"
Silver	**1.3**			0.85	"	"	"	"	"
Sodium	**890**			17	"	"	"	"	"
Strontium	**120**			0.42	"	"	"	"	"
Titanium	**110**			0.85	"	"	"	"	"
Vanadium	**13**			1.7	"	"	"	"	"
Zinc	**35**			4.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Nov-04-09 14:50

T26-175-1.0-2.6
0909014-04(Soil)
Sampled: Sep-11-09 17:00
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**5100**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**47**			1.1	"	"	"	"	"
Beryllium	**U**			0.53	"	"	"	"	"
Boron	**7.5**			2.1	"	"	"	"	"
Cadmium	**U**			0.53	"	"	"	"	"
Calcium	**91000**			270	"	12.5	"	"	Oct-26-09
Chromium	**12**			1.1	"	1	"	"	Oct-26-09
Cobalt	**3.5**			1.1	"	"	"	"	"
Copper	**48**			1.1	"	"	"	"	"
Iron	**14000**			21	"	"	"	"	"
Lead	**58**			5.3	"	"	"	"	"
Lithium	**6.0**			2.1	"	"	"	"	"
Magnesium	**7200**			11	"	"	"	"	"
Manganese	**220**			0.53	"	"	"	"	"
Molybdenum	**U**			5.3	"	"	"	"	"
Nickel	**12**			2.1	"	"	"	"	"
Potassium	**580**			53	"	"	"	"	"
Silver	**1.3**			1.1	"	"	"	"	"
Sodium	**340**			21	"	"	"	"	"
Strontium	**110**			0.53	"	"	"	"	"
Titanium	**93**			1.1	"	"	"	"	"
Vanadium	**11**			2.1	"	"	"	"	"
Zinc	**160**			5.3	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

T26-175-0.5-1.0
0909014-05(Soil)
Sampled: Sep-11-09 16:53
Received: Sep-14-09 10:00

Metals by ICP using EPA 200.7 (modified)

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4900**			21	mg/kg	1	B909037	Sep-24-09	Oct-26-09
Barium	**57**			1.0	"	"	"	"	"
Beryllium	**0.57**			0.52	"	"	"	"	"
Boron	**8.0**			2.1	"	"	"	"	"
Cadmium	**1.8**			0.52	"	"	"	"	"
Calcium	**110000**			260	"	12.5	"	"	Oct-26-09
Chromium	**27**			1.0	"	1	"	"	Oct-26-09
Cobalt	**4.0**			1.0	"	"	"	"	"
Copper	**34**			1.0	"	"	"	"	"
Iron	**22000**			21	"	"	"	"	"
Lead	**78**			5.2	"	"	"	"	"
Lithium	**6.6**			2.1	"	"	"	"	"
Magnesium	**8800**			10	"	"	"	"	"
Manganese	**420**			0.52	"	"	"	"	"
Molybdenum	**U**			5.2	"	"	"	"	"
Nickel	**22**			2.1	"	"	"	"	"
Potassium	**530**			52	"	"	"	"	"
Silver	**1.7**			1.0	"	"	"	"	"
Sodium	**290**			21	"	"	"	"	"
Strontium	**150**			0.52	"	"	"	"	"
Titanium	**140**			1.0	"	"	"	"	"
Vanadium	**13**			2.1	"	"	"	"	"
Zinc	**190**			5.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Nov-04-09 14:50

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Kathleen Swan, Analyst

Sample ID	Date	Time	Initial Sample Wt	Aliquot Vol.	Diluted T	Int (Corr)	RSD (Corr Int)
Calib Blank 1	10/26/2009	11:14:01 AM				158921	4.86
Cal 1	10/26/2009	11:15:08 AM				157532	3.76
Cal 2	10/26/2009	11:16:10 AM				158522	0.84
Cal 4C	10/26/2009	11:17:06 AM				158477	0.38
Hi Cal	10/26/2009	11:18:07 AM				142749	0.38
blank	10/26/2009	11:23:05 AM				156496	2.93
LCB	10/26/2009	11:24:07 AM				156617	2.67
1 LCM1	10/26/2009	11:25:08 AM				166716	0.28
LCM2	10/26/2009	11:26:13 AM				157669	2.33
HiLCM	10/26/2009	11:27:13 AM				159380	0.47
blank	10/26/2009	11:28:24 AM				156139	0.22
blank	10/26/2009	11:29:24 AM	0	1	1	158700	1.51
RLC	10/26/2009	11:30:27 AM	0	1	1	157217	0.50
RLC Ag	10/26/2009	11:31:30 AM	0	1	1	157321	0.88
AsTi	10/26/2009	11:32:31 AM	0	1	1	162730	0.83
AlFe	10/26/2009	11:33:37 AM	0	1	1	162451	1.26
blank	10/26/2009	11:34:45 AM	0	1	1	156802	0.46
B909037-BLK1	10/26/2009	11:35:48 AM	0	1	1	156834	0.50
B909037-BS1	10/26/2009	11:36:49 AM	0	1	1	165320	1.62
B909037-SRM1	10/26/2009	11:37:55 AM	0.4708	1	1	165443	3.84
0909005-01	10/26/2009	11:39:05 AM	0.4776	1	1	151181	1.07
0909005-02	10/26/2009	11:40:23 AM	0.4877	1	1	151486	3.09
0909005-03	10/26/2009	11:41:40 AM	0.4916	1	1	155725	3.71
0909005-04	10/26/2009	11:42:56 AM	0.5145	1	1	155989	1.48
blank	10/26/2009	11:44:11 AM				158205	0.48
LCB	10/26/2009	11:45:14 AM				157174	0.70
2 LCM1	10/26/2009	11:46:17 AM				163041	1.25
LCM2	10/26/2009	11:47:23 AM				154943	5.57
HiLCM	10/26/2009	11:48:23 AM				160510	1.31
blank	10/26/2009	11:49:34 AM				154271	4.05
0909005-05	10/26/2009	11:50:34 AM	0.4607	1	1	154445	2.53
B909037-DUP1	10/26/2009	11:51:55 AM	0.4604	1	1	156281	1.97
B909037-MS1	10/26/2009	11:53:13 AM	0.4668	1	1	153528	1.16
0909005-06	10/26/2009	11:54:32 AM	0.4999	1	1	153076	1.58
0909005-07	10/26/2009	11:55:47 AM	0.4835	1	1	154145	1.14
blank	10/26/2009	11:57:04 AM				157721	0.59
B910044-BLK1	10/26/2009	11:58:08 AM	0			158678	0.64
B910044-BS1	10/26/2009	11:59:12 AM	0			163884	1.98
B910044-SRM1	10/26/2009	12:00:18 PM	0.4811	1	1	170443	1.20
0909006-01	10/26/2009	12:01:28 PM	0.4513	1	1	156028	4.73
B910044-DUP1	10/26/2009	12:02:44 PM	0.5078	1	1	153854	2.03
B910044-MS1	10/26/2009	12:04:01 PM	0.4618	1	1	160353	1.10
0909006-02	10/26/2009	12:05:18 PM	0.4753	1	1	153710	1.29
blank	10/26/2009	12:06:33 PM				432768	27.47
LCB	10/26/2009	12:07:37 PM				157448	2.65
3 LCM1	10/26/2009	12:08:38 PM				163695	0.76
LCM2	10/26/2009	12:09:43 PM				157535	1.75
HiLCM	10/26/2009	12:10:43 PM				446161	19.21
blank	10/26/2009	12:12:03 PM				492267	2.11
0909006-03	10/26/2009	12:13:03 PM	0.4808	1	1	155535	3.47
0909006-04	10/26/2009	12:14:22 PM	0.5889	1	1	151749	6.49

0909014-01	10/26/2009	12:15:45 PM	0.5494	1	1	165028	6.00
0909014-02	10/26/2009	12:16:56 PM	0.4546	1	1	150806	5.87
0909014-03	10/26/2009	12:18:13 PM	0.5893	1	1	148204	8.67
0909014-04	10/26/2009	12:19:35 PM	0.4691	1	1	159174	4.19
0909014-05	10/26/2009	12:20:47 PM	0.4802	1	1	155352	3.52
test 1	10/26/2009	12:22:01 PM	0.4526	1	1	152818	2.67
test 2	10/26/2009	12:23:23 PM	0.4618	1	1	153893	4.96
test 3	10/26/2009	12:24:40 PM	0.4755	1	1	156106	1.18
blank	10/26/2009	12:53:44 PM				160284	4.01
LCB	10/26/2009	12:54:50 PM				157062	1.09
4 LCM1	10/26/2009	12:55:53 PM				155829	0.81
LCM2	10/26/2009	12:56:59 PM				156605	1.90
HiLCM	10/26/2009	12:58:00 PM				163427	0.52
blank	10/26/2009	12:59:12 PM				159449	2.02
0909006-03	10/26/2009	1:00:13 PM	0.4808	1	1	158230	1.41
0909006-04	10/26/2009	1:01:33 PM	0.5889	1	1	159743	1.42
0909014-01	10/26/2009	1:02:57 PM	0.5494	1	1	166017	0.18
0909014-02	10/26/2009	1:04:11 PM	0.4546	1	1	156853	1.24
0909014-03	10/26/2009	1:05:28 PM	0.5893	1	1	160718	2.19
0909014-04	10/26/2009	1:06:50 PM	0.4691	1	1	161315	1.32
0909014-05	10/26/2009	1:08:02 PM	0.4802	1	1	155498	1.63
test 1	10/26/2009	1:09:17 PM	0.4526	1	1	151999	0.45
test 2	10/26/2009	1:10:33 PM	0.4618	1	1	155874	1.66
test 3	10/26/2009	1:11:49 PM	0.4755	1	1	155728	2.16
blank	10/26/2009	1:13:19 PM	0	1	1	159805	2.35
LCB	10/26/2009	1:14:21 PM				158795	1.33
5 LCM1	10/26/2009	1:15:42 PM				164247	0.45
LCM2	10/26/2009	1:16:47 PM				157173	0.58
HiLCM	10/26/2009	1:17:47 PM				160568	2.08
blank	10/26/2009	2:02:40 PM				161407	1.19
0909005-01	10/26/2009	2:03:40 PM	0.4776	1	25	159888	1.23
0909005-02	10/26/2009	2:04:49 PM	0.4877	1	25	158952	1.50
0909005-03	10/26/2009	2:05:55 PM	0.4916	1	25	165777	0.75
0909005-04	10/26/2009	2:06:59 PM	0.5145	1	25	167883	1.67
0909005-05	10/26/2009	2:08:03 PM	0.4607	1	25	164753	0.88
B909037-DUP1	10/26/2009	2:09:07 PM	0.4604	1	25	166598	1.68
B909037-MS1	10/26/2009	2:10:11 PM	0.4668	1	25	165388	1.50
0909005-06	10/26/2009	2:11:15 PM	0.4999	1	25	161857	2.03
0909005-07	10/26/2009	2:12:21 PM	0.4835	1	25	160071	2.17
0909006-01	10/26/2009	2:13:27 PM	0.4513	1	25	165059	1.20
B910044-DUP1	10/26/2009	2:14:33 PM	0.5078	1	25	166053	0.67
B910044-MS1	10/26/2009	2:15:38 PM	0.4618	1	25	162863	1.48
blank	10/26/2009	2:17:02 PM				157084	1.25
LCB	10/26/2009	2:18:06 PM				159876	0.24
6 LCM1	10/26/2009	2:19:08 PM				169952	1.49
LCM2	10/26/2009	2:20:14 PM				160819	2.61
HiLCM	10/26/2009	2:21:15 PM				163795	1.56
blank	10/26/2009	2:22:27 PM				161572	1.32
0909006-02	10/26/2009	2:23:28 PM	0.4753	1	25	165738	0.96
0909006-03	10/26/2009	2:24:41 PM	0.4808	1	25	164031	1.70
0909006-04	10/26/2009	2:25:51 PM	0.5889	2	25	460279	10.47
0909006-04	10/26/2009	2:27:43 PM	0.5889	2	25	160622	0.80

0909014-01	10/26/2009	2:28:51 PM	0.5494	1	25	156191	0.55
0909014-02	10/26/2009	2:29:53 PM	0.4546	1	25	166047	1.51
0909014-03	10/26/2009	2:30:58 PM	0.5893	2	25	158373	1.79
0909014-04	10/26/2009	2:32:04 PM	0.4691	2	25	165216	0.60
0909014-05	10/26/2009	2:33:08 PM	0.4802	2	25	163476	0.49
test 1	10/26/2009	2:34:13 PM	0.4526	1	25	164275	1.94
test 2	10/26/2009	2:35:18 PM	0.4618	1	25	161304	1.60
test 3	10/26/2009	2:36:23 PM	0.4755	1	25	163524	1.06
blank	10/26/2009	2:37:29 PM	0	1	1	158675	0.24
LCB	10/26/2009	2:38:31 PM				155942	2.04
LCM1	10/26/2009	2:39:41 PM				464629	17.62
LCM2	10/26/2009	2:40:41 PM				403896	21.81
HiLCM	10/26/2009	2:41:41 PM				162477	0.28
LCB	10/26/2009	2:56:08 PM				159264	1.33
LCM1	10/26/2009	2:57:16 PM				166146	1.05
LCM2	10/26/2009	2:58:22 PM				157454	0.61
HiLCM	10/26/2009	2:59:23 PM				160167	0.42

No results are taken from this spreadsheet. It is a review tool only

Instrument QC First

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		11:24 AM mg/L	MDL mg/L				11:24 AM mg/L	True mg/L	Recovery
LCB	Ag 328.068	0.0009	0.002		LCM1	Ag 328.068	0.26	0.25	102.4%
	Al 308.215	0.0038	0.07			Al 308.215	0.94	1	93.9%
	As 193.696	0.0757	0.02	**		As 193.696	1.79	2	89.5%
	B 249.677	0.0004	0.03			B 249.677	1.01	1	100.7%
	Ba 455.403	-0.0001	0.005			Ba 455.403	0.99	1	98.7%
	Be 313.042	0.0000	0.003			Be 313.042	0.96	1	96.4%
	Ca 315.887	-0.0057	0.001	**		Cd 214.440	0.92	1	91.8%
	Cd 214.440	0.0059	0.05			Co 228.616	0.92	1	92.4%
	Co 228.616	-0.0017	0.001	**		Cr 267.716	1.03	1	102.9%
	Cr 267.716	-0.0015	0.005			Cu 324.752	0.97	1	97.1%
	Cu 324.752	-0.0007	0.004			K 766.490	4.73	5	94.6%
	Fe 273.955	0.0004	0.003			Li 670.784	0.95	1	95.4%
	K 766.490	0.0098	0.08			Mg 279.077	1.02	1	101.6%
	Li 670.784	0.0017	0.09			Ni 231.604	0.93	1	93.2%
	Mg 279.077	-0.0047	0.1			Pb 220.353	1.90	2	95.0%
	Mn 257.610	0.0000	0.007			Se 196.026	0.90	1	90.4%
	Mo 204.597	-0.0069	0.03			V 310.230	0.96	1	95.5%
	Na 589.592	0.0028	0.001	**		Zn 213.857	0.97	1	97.3%
	Ni 231.604	-0.0032	0.01						
	Pb 220.353	0.0094	0.050				11:26 AM		
	Se 196.026	-0.0208	0.007	**	LCM2	Mo 204.597	0.98	1	98.0%
	Sn 189.927	0.0249	0.02	**		Sn 189.927	5.11	5	102.3%
	Sr 421.552	-0.0001	0.03			Ti 336.121	0.97	1	96.5%
	Ti 336.121	0.0002	0.07						
	V 310.230	0.0018	0.03						
	Zn 213.857	-0.0007	0.03						
							11:26 AM		
					HiLCM	Al 308.215	97.9	100	97.9%
						Ca 315.887	98.4	100	98.4%
						Fe 273.955	103.4	100	103.4%
						K 766.490	94.3	100	94.3%
						Mg 279.077	59.4	60	98.9%
						Na 589.592	97.4	100	97.4%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Second

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 1/0/1900

		11:45 AM mg/L	MDL mg/L				11:45 AM mg/L	True mg/L	Recovery
LCB	Ag 328.068	-0.0005	0.002		LCM1	Ag 328.068	0.26	0.25	102.8%
	Al 308.215	0.0072	0.07			Al 308.215	0.97	1	97.3%
	As 193.696	0.0398	0.02	**		As 193.696	1.89	2	94.5%
	B 249.677	0.0000	0.03			B 249.677	1.04	1	103.7%
	Ba 455.403	-0.0001	0.005			Ba 455.403	1.01	1	100.6%
	Be 313.042	0.0000	0.003			Be 313.042	0.98	1	98.4%
	Ca 315.887	0.0411	0.001	**		Cd 214.440	0.96	1	95.5%
	Cd 214.440	0.0061	0.05			Co 228.616	0.95	1	95.0%
	Co 228.616	-0.0009	0.001			Cr 267.716	1.06	1	106.1%
	Cr 267.716	-0.0007	0.005			Cu 324.752	0.98	1	97.5%
	Cu 324.752	-0.0009	0.004			K 766.490	4.74	5	94.8%
	Fe 273.955	0.0026	0.003			Li 670.784	0.98	1	97.5%
	K 766.490	0.0195	0.08			Mg 279.077	1.06	1	105.6%
	Li 670.784	0.0019	0.09			Ni 231.604	0.96	1	96.1%
	Mg 279.077	0.0032	0.1			Pb 220.353	1.95	2	97.4%
	Mn 257.610	0.0000	0.007			Se 196.026	0.92	1	91.5%
	Mo 204.597	0.0054	0.03			V 310.230	0.96	1	95.8%
	Na 589.592	0.0049	0.001	**		Zn 213.857	1.00	1	100.2%
	Ni 231.604	-0.0028	0.01						
	Pb 220.353	0.0075	0.050				11:47 AM		
	Se 196.026	-0.0466	0.007	**	LCM2	Mo 204.597	1.01	1	100.8%
	Sn 189.927	0.0138	0.02			Sn 189.927	5.25	5	104.9%
	Sr 421.552	0.0001	0.03			Ti 336.121	0.95	1	95.3%
	Ti 336.121	0.0004	0.07						
	V 310.230	0.0003	0.03						
	Zn 213.857	-0.0005	0.03						
							11:47 AM		
					HiLCM	Al 308.215	97.4	100	97.4%
						Ca 315.887	97.4	100	97.4%
						Fe 273.955	103.2	100	103.2%
						K 766.490	93.3	100	93.3%
						Mg 279.077	59.3	60	98.9%
						Na 589.592	96.1	100	96.1%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Third

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		12:08 PM mg/L	MDL mg/L				12:08 PM mg/L	True mg/L	Recovery
LCB	Ag 328.068	-0.0013	0.002		LCM1	Ag 328.068	0.26	0.25	102.6%
	Al 308.215	0.0015	0.07			Al 308.215	0.95	1	95.2%
	As 193.696	-0.0059	0.02			As 193.696	1.91	2	95.3%
	B 249.677	0.0013	0.03			B 249.677	1.01	1	101.4%
	Ba 455.403	-0.0002	0.005			Ba 455.403	0.99	1	99.2%
	Be 313.042	0.0000	0.003			Be 313.042	0.95	1	95.4%
	Ca 315.887	0.1429	0.001	**		Cd 214.440	0.93	1	93.3%
	Cd 214.440	0.0075	0.05			Co 228.616	0.93	1	93.1%
	Co 228.616	-0.0012	0.001	**		Cr 267.716	1.04	1	103.8%
	Cr 267.716	-0.0003	0.005			Cu 324.752	0.97	1	97.4%
	Cu 324.752	-0.0002	0.004			K 766.490	4.75	5	95.1%
	Fe 273.955	0.0138	0.003	**		Li 670.784	0.97	1	96.5%
	K 766.490	0.0300	0.08			Mg 279.077	1.04	1	104.2%
	Li 670.784	0.0034	0.09			Ni 231.604	0.94	1	94.1%
	Mg 279.077	0.0363	0.1			Pb 220.353	1.92	2	95.9%
	Mn 257.610	0.0007	0.007			Se 196.026	0.94	1	94.0%
	Mo 204.597	-0.0019	0.03			V 310.230	0.95	1	95.3%
	Na 589.592	-0.0040	0.001	**		Zn 213.857	0.99	1	98.9%
	Ni 231.604	0.0003	0.01						
	Pb 220.353	0.0052	0.050				12:10 PM		
	Se 196.026	-0.0889	0.007	**	LCM2	Mo 204.597	0.98	1	98.1%
	Sn 189.927	0.0191	0.02			Sn 189.927	5.09	5	101.8%
	Sr 421.552	0.0000	0.03			Ti 336.121	0.97	1	96.9%
	Ti 336.121	0.0002	0.07						
	V 310.230	-0.0013	0.03						
	Zn 213.857	-0.0006	0.03						
							12:10 PM		
					HiLCM	Al 308.215	1.1	100	1.1%
						Ca 315.887	0.4	100	0.4%
						Fe 273.955	1.5	100	1.5%
						K 766.490	5.1	100	5.1%
						Mg 279.077	1.4	60	2.4%
						Na 589.592	5.2	100	5.2%

soln ran out!

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Fourth

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		12:55 PM mg/L	MDL mg/L	
LCB	Ag 328.068	0.0002	0.002	
	Al 308.215	0.0000	0.07	
	As 193.696	0.0195	0.02	
	B 249.677	0.0023	0.03	
	Ba 455.403	0.0001	0.005	
	Be 313.042	-0.0001	0.003	
	Ca 315.887	0.0005	0.001	
	Cd 214.440	-0.0014	0.05	
	Co 228.616	-0.0004	0.001	
	Cr 267.716	-0.0022	0.005	
	Cu 324.752	-0.0001	0.004	
	Fe 273.955	0.0006	0.003	
	K 766.490	0.0046	0.08	
	Li 670.784	0.0007	0.09	
	Mg 279.077	-0.0086	0.1	
	Mn 257.610	0.0002	0.007	
	Mo 204.597	-0.0118	0.03	
	Na 589.592	-0.0038	0.001	**
	Ni 231.604	0.0003	0.01	
	Pb 220.353	0.0032	0.050	
	Se 196.026	-0.0643	0.007	**
	Sn 189.927	0.0101	0.02	
	Sr 421.552	0.0000	0.03	
	Ti 336.121	0.0006	0.07	
	V 310.230	-0.0029	0.03	
	Zn 213.857	-0.0008	0.03	

		12:55 PM mg/L	True mg/L	Recovery
LCM1	Ag 328.068	0.27	0.25	107.5%
	Al 308.215	1.03	1	102.5%
	As 193.696	2.06	2	102.9%
	B 249.677	1.08	1	107.7%
	Ba 455.403	1.05	1	104.7%
	Be 313.042	1.01	1	100.8%
	Cd 214.440	1.00	1	100.3%
	Co 228.616	1.00	1	99.7%
	Cr 267.716	1.10	1	110.4%
	Cu 324.752	1.01	1	101.0%
	K 766.490	4.94	5	98.8%
	Li 670.784	1.02	1	102.0%
	Mg 279.077	1.10	1	110.0%
	Ni 231.604	1.01	1	100.9%
	Pb 220.353	2.06	2	103.2%
	Se 196.026	0.96	1	96.5%
	V 310.230	1.00	1	99.5%
	Zn 213.857	1.06	1	106.2%
		12:57 PM		
LCM2	Mo 204.597	1.00	1	100.1%
	Sn 189.927	5.25	5	105.0%
	Ti 336.121	0.96	1	96.2%
		12:57 PM		
HiLCM	Al 308.215	95.7	100	95.7%
	Ca 315.887	94.9	100	94.9%
	Fe 273.955	101.6	100	101.6%
	K 766.490	91.6	100	91.6%
	Mg 279.077	58.1	60	96.8%
	Na 589.592	94.4	100	94.4%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Fifth

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		1:15 PM mg/L	MDL mg/L				1:15 PM mg/L	True mg/L	Recovery
LCB	Ag 328.068	-0.0004	0.002		LCM1	Ag 328.068	0.25	0.25	101.6%
	Al 308.215	0.0072	0.07			Al 308.215	0.95	1	95.2%
	As 193.696	0.0037	0.02			As 193.696	1.99	2	99.3%
	B 249.677	0.0047	0.03			B 249.677	1.04	1	103.6%
	Ba 455.403	-0.0001	0.005			Ba 455.403	1.00	1	99.9%
	Be 313.042	-0.0001	0.003			Be 313.042	0.96	1	95.9%
	Ca 315.887	0.1843	0.001	**		Cd 214.440	0.98	1	98.1%
	Cd 214.440	0.0000	0.05			Co 228.616	0.96	1	96.3%
	Co 228.616	-0.0033	0.001	**		Cr 267.716	1.05	1	105.4%
	Cr 267.716	-0.0009	0.005			Cu 324.752	0.96	1	95.9%
	Cu 324.752	-0.0004	0.004			K 766.490	4.70	5	94.0%
	Fe 273.955	0.0151	0.003	**		Li 670.784	0.98	1	97.7%
	K 766.490	0.0153	0.08			Mg 279.077	1.04	1	104.3%
	Li 670.784	0.0007	0.09			Ni 231.604	0.97	1	97.1%
	Mg 279.077	0.0250	0.1			Pb 220.353	1.99	2	99.6%
	Mn 257.610	0.0008	0.007			Se 196.026	0.94	1	93.7%
	Mo 204.597	0.0000	0.03			V 310.230	0.94	1	93.9%
	Na 589.592	-0.0028	0.001	**		Zn 213.857	1.02	1	102.4%
	Ni 231.604	-0.0012	0.01						
	Pb 220.353	-0.0020	0.050				1:17 PM		
	Se 196.026	-0.0436	0.007	**	LCM2	Mo 204.597	1.00	1	100.1%
	Sn 189.927	0.0107	0.02			Sn 189.927	5.32	5	106.5%
	Sr 421.552	0.0000	0.03			Ti 336.121	0.96	1	96.0%
	Ti 336.121	0.0006	0.07						
	V 310.230	-0.0035	0.03						
	Zn 213.857	0.0015	0.03						
							1:17 PM		
					HiLCM	Al 308.215	95.2	100	95.2%
						Ca 315.887	93.1	100	93.1%
						Fe 273.955	101.2	100	101.2%
						K 766.490	90.6	100	90.6%
						Mg 279.077	57.9	60	96.4%
						Na 589.592	93.3	100	93.3%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Sixth

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		2:18 PM mg/L	MDL mg/L				2:18 PM mg/L	True mg/L	Recovery
LCB	Ag 328.068	0.0005	0.002		LCM1	Ag 328.068	0.25	0.25	101.5%
	Al 308.215	-0.0047	0.07			Al 308.215	0.93	1	93.1%
	As 193.696	0.0471	0.02	**		As 193.696	1.96	2	98.0%
	B 249.677	0.0023	0.03			B 249.677	1.01	1	101.1%
	Ba 455.403	-0.0004	0.005			Ba 455.403	0.99	1	98.8%
	Be 313.042	-0.0001	0.003			Be 313.042	0.96	1	95.7%
	Ca 315.887	-0.0028	0.001	**		Cd 214.440	0.96	1	96.2%
	Cd 214.440	-0.0069	0.05			Co 228.616	0.94	1	94.4%
	Co 228.616	-0.0020	0.001	**		Cr 267.716	1.03	1	103.5%
	Cr 267.716	-0.0016	0.005			Cu 324.752	0.95	1	95.4%
	Cu 324.752	-0.0014	0.004			K 766.490	4.67	5	93.4%
	Fe 273.955	0.0020	0.003			Li 670.784	0.96	1	96.4%
	K 766.490	0.0409	0.08			Mg 279.077	1.02	1	101.8%
	Li 670.784	0.0008	0.09			Ni 231.604	0.95	1	95.1%
	Mg 279.077	0.0083	0.1			Pb 220.353	1.94	2	97.1%
	Mn 257.610	0.0000	0.007			Se 196.026	0.92	1	91.8%
	Mo 204.597	0.0013	0.03			V 310.230	0.94	1	93.6%
	Na 589.592	-0.0027	0.001	**		Zn 213.857	1.00	1	100.4%
	Ni 231.604	-0.0032	0.01						
	Pb 220.353	0.0057	0.050				2:20 PM		
	Se 196.026	-0.0726	0.007	**	LCM2	Mo 204.597	1.02	1	101.6%
	Sn 189.927	0.0108	0.02			Sn 189.927	5.38	5	107.5%
	Sr 421.552	0.0000	0.03			Ti 336.121	0.96	1	95.9%
	Ti 336.121	0.0000	0.07						
	V 310.230	-0.0038	0.03						
	Zn 213.857	-0.0012	0.03						
							2:20 PM		
					HiLCM	Al 308.215	95.4	100	95.4%
						Ca 315.887	95.7	100	95.7%
						Fe 273.955	101.6	100	101.6%
						K 766.490	92.2	100	92.2%
						Mg 279.077	58.1	60	96.8%
						Na 589.592	94.8	100	94.8%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC Seventh

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		2:18 PM mg/L	MDL mg/L				2:18 PM mg/L	True mg/L	Recovery
LCB	Ag 328.068	0.0005	0.002		LCM1	Ag 328.068	0.25	0.25	101.5%
	Al 308.215	-0.0047	0.07			Al 308.215	0.93	1	93.1%
	As 193.696	0.0471	0.02	**		As 193.696	1.96	2	98.0%
	B 249.677	0.0023	0.03			B 249.677	1.01	1	101.1%
	Ba 455.403	-0.0004	0.005			Ba 455.403	0.99	1	98.8%
	Be 313.042	-0.0001	0.003			Be 313.042	0.96	1	95.7%
	Ca 315.887	-0.0028	0.001	**		Cd 214.440	0.96	1	96.2%
	Cd 214.440	-0.0069	0.05			Co 228.616	0.94	1	94.4%
	Co 228.616	-0.0020	0.001	**		Cr 267.716	1.03	1	103.5%
	Cr 267.716	-0.0016	0.005			Cu 324.752	0.95	1	95.4%
	Cu 324.752	-0.0014	0.004			K 766.490	4.67	5	93.4%
	Fe 273.955	0.0020	0.003			Li 670.784	0.96	1	96.4%
	K 766.490	0.0409	0.08			Mg 279.077	1.02	1	101.8%
	Li 670.784	0.0008	0.09			Ni 231.604	0.95	1	95.1%
	Mg 279.077	0.0083	0.1			Pb 220.353	1.94	2	97.1%
	Mn 257.610	0.0000	0.007			Se 196.026	0.92	1	91.8%
	Mo 204.597	0.0013	0.03			V 310.230	0.94	1	93.6%
	Na 589.592	-0.0027	0.001	**		Zn 213.857	1.00	1	100.4%
	Ni 231.604	-0.0032	0.01						
	Pb 220.353	0.0057	0.050				2:20 PM		
	Se 196.026	-0.0726	0.007	**	LCM2	Mo 204.597	1.02	1	101.6%
	Sn 189.927	0.0108	0.02			Sn 189.927	5.38	5	107.5%
	Sr 421.552	0.0000	0.03			Ti 336.121	0.96	1	95.9%
	Ti 336.121	0.0000	0.07						
	V 310.230	-0.0038	0.03						
	Zn 213.857	-0.0012	0.03						
							2:20 PM		
					HiLCM	Al 308.215	95.4	100	95.4%
						Ca 315.887	95.7	100	95.7%
						Fe 273.955	101.6	100	101.6%
						K 766.490	92.2	100	92.2%
						Mg 279.077	58.1	60	96.8%
						Na 589.592	94.8	100	94.8%

No results are taken from this spreadsheet. It is a review tool only

Report Level Check

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		Measured mg/L	True mg/L	Recovery
RLC	Ag 328.068	0.0121	0.010	121.39%
11:31 AM	Al 308.215	0.5633	0.500	112.66%
	As 193.696	0.5599	0.500	111.97%
	B 249.677	0.0556	0.050	111.15%
	Ba 455.403	0.0053	0.005	105.17%
	Be 313.042	0.0060	0.005	119.52%
	Ca 315.887	0.6663	0.500	133.27%
	Cd 214.440	0.0138	0.010	138.02%
	Co 228.616	0.0495	0.050	99.00%
	Cr 267.716	0.0123	0.010	122.96%
	Cu 324.752	0.0491	0.050	98.18%
	Fe 273.955	1.2093	1.000	120.93%
	K 766.490	0.5211	0.500	104.22%
	Li 670.784	0.0539	0.050	107.87%
	Mg 279.077	0.5811	0.500	116.22%
	Mn 257.610	0.0059	0.005	118.91%
	Mo 204.597	0.1104	0.100	110.45%
	Na 589.592	0.5402	0.500	108.04%
	Ni 231.604	0.0495	0.050	99.06%
	Pb 220.353	0.1018	0.100	101.79%
	Se 196.026	1.1204	1.000	112.04%
	Sn 189.927	0.5309	0.500	106.18%
	Sr 421.552	0.0053	0.005	105.14%
	Ti 336.121	0.0112	0.010	112.38%
	V 310.230	0.0395	0.050	79.00%
	Zn 213.857	0.2188	0.200	109.38%

No results are taken from this spreadsheet. It is a review tool only

SIC Solutions

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		As Ti mg/L	Al Fe mg/L	RL mg/L
SIC	Ag 328.068	*-0.0003*	*0.0018*	0.010
	Al 308.215	*0.0212*	**192.6554**	0.500
	As 193.696	**47.2994**	*0.0869*	0.500
	B 249.677	*0.0048*	*0.0036*	0.500
	Ba 455.403	*-0.0001*	*-0.0001*	0.050
	Be 313.042	*-0.0003*	*0.0001*	0.005
	Ca 315.887	**0.0674**	**0.0066**	0.005
	Cd 214.440	*0.0075*	*-0.0110*	0.500
	Co 228.616	*-0.0005*	*-0.0035*	0.010
	Cr 267.716	*-0.0009*	*-0.0021*	0.050
	Cu 324.752	*-0.0011*	*-0.0047*	0.010
	Fe 273.955	*0.0423*	**212.6954**	0.050
	K 766.490	*0.0573*	*0.0064*	1.000
	Li 670.784	*0.0018*	*0.0021*	1.000
	Mg 279.077	*-0.0013*	*0.0036*	0.500
	Mn 257.610	*0.0004*	*0.0008*	0.050
	Mo 204.597	*-0.0005*	*0.0111*	0.500
	Na 589.592	**0.0853**	**0.0880**	0.005
	Ni 231.604	*-0.0011*	*-0.0015*	0.100
	Pb 220.353	*0.0065*	*0.0256*	0.500
	Se 196.026	*-0.0478*	*-0.2151*	0.050
	Sn 189.927	*-0.0551*	*0.0187*	0.100
	Sr 421.552	*0.0000*	*0.0002*	0.500
	Ti 336.121	**48.7683**	*0.0098*	1.000
	V 310.230	*-0.0121*	*-0.0191*	0.500
	Zn 213.857	**0.0074**	*0.0026*	0.005

No results are taken from this spreadsheet. It is a review tool only

Digestion Blank

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		Measured mg/L	MDL mg/L	
LRB1	Ag 328.068	*0.0005*	0.002	
B909037-BLK1	Al 308.215	*0.0208*	0.07	
11:36:19 AM	As 193.696	*0.0114*	0.02	
	B 249.677	*0.0058*	0.03	
	Ba 455.403	*0.0001*	0.005	
	Be 313.042	*0.0000*	0.003	
	Ca 315.887	**0.0614**	0.001	**
	Cd 214.440	*0.0014*	0.05	
	Co 228.616	*-0.0015*	0.001	**
	Cr 267.716	*0.0003*	0.005	
	Cu 324.752	*0.0040*	0.004	
	Fe 273.955	**0.0104**	0.003	**
	K 766.490	*0.0340*	0.08	
	Li 670.784	*-0.0009*	0.09	
	Mg 279.077	*0.0178*	0.1	
	Mn 257.610	*0.0002*	0.007	
	Mo 204.597	*0.0046*	0.03	
	Na 589.592	**0.0742**	0.001	**
	Ni 231.604	*-0.0002*	0.01	
	Pb 220.353	*0.0036*	0.050	
	Se 196.026	*-0.0405*	0.007	**
	Sn 189.927	*-0.0114*	0.02	
	Sr 421.552	*0.0005*	0.03	
	Ti 336.121	*0.0004*	0.07	
	V 310.230	*0.0009*	0.03	
	Zn 213.857	**0.0017**	0.001	**

No results are taken from this spreadsheet. It is a review tool only

Spiked Blank

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		Measured mg/L	Spike mg/L	Recovery
LFB1	Ag 328.068	0.104	0.1	103.90%
B909037-BS1	As 193.696	0.999	1	99.93%
11:37:22 AM	B 249.677	1.030	1	102.99%
	Ba 455.403	5.051	5	99.78%
	Be 313.042	0.051	0.05	104.11%
	Cd 214.440	0.938	1	93.75%
	Co 228.616	0.470	0.5	93.14%
	Cr 267.716	5.152	5	102.83%
	Cu 324.752	4.736	5	94.71%
	Li 670.784	0.515	0.5	88.08%
	Mn 257.610	10.109	10	101.09%
	Mo 204.597	0.926	1	96.68%
	Ni 231.604	1.929	2	97.04%
	Pb 220.353	4.983	5	99.63%
	Se 196.026	0.861	1	85.95%
	Sn 189.927	0.971	1	97.11%
	Sr 421.552	0.994	1	99.38%
	V 310.230	0.483	0.5	96.61%
	Zn 213.857	10.015	10	100.15%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC SRM

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Elemen	Meas. (mg/kg)	"True" (mg/kg)	%Dev.		LCL	UCL
CRM033-050	Ag	1.05	1	5.26%		0.35	1.65
12:00 AM	Al	8561.37	7950	7.69%		6500	10000
	As	157.47	140	12.48%		126	154
	B	53.15	49	8.47%		36	62
	Ba	229.90	220	4.50%		190	240
	Be	2.61	2.6	0.51%		1.7	3.7
	Ca	14095.89	13700	2.89%		12000	15000
	Cd	87.18	105.9	-17.68%	lo	89	122
	Co	93.46	93	0.50%		83	104
	Cr	114.53	100	14.53%		91	116
	Cu	93.57	94	-0.46%		85	110
	Fe	12227.84	10900	12.18%		9800	13000
	K	2717.26	2700	0.64%		2100	2900
	Li	8.93	8.5	5.08%		7.4	9.7
	Mg	4256.10	4200	1.34%		3600	4600
	Mn	273.20	250	9.28%		220	280
	Mo	57.90	55	5.27%		39	71
	Na	119.65	110	8.77%		65	150
	Ni	56.07	56	0.13%		52	62
	Pb	66.21	65	1.86%		52	78
	Se	84.74	98	-13.53%		74	103
	Sn	403.89	370	9.16%		237	512
	Sr	40.06	39	2.73%		35	42
	Ti	91.94	84	9.45%		44	124
	V	107.47	108	-0.49%		96	120
	Zn	252.85	234	8.05%		212	255

No results are taken from this spreadsheet. It is a review tool only

Digestion Blank

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		Measured mg/L	MDL mg/L	
LRB1	Ag 328.068	*0.0002*	0.002	
B910044-BLK1	Al 308.215	*-0.0022*	0.07	
11:58:42 AM	As 193.696	**0.0279**	0.02	**
	B 249.677	*0.0003*	0.03	
	Ba 455.403	*0.0001*	0.005	
	Be 313.042	*0.0000*	0.003	
	Ca 315.887	**0.1223**	0.001	**
	Cd 214.440	*0.0010*	0.05	
	Co 228.616	*-0.0004*	0.001	
	Cr 267.716	*-0.0001*	0.005	
	Cu 324.752	*0.0006*	0.004	
	Fe 273.955	**0.0186**	0.003	**
	K 766.490	*-0.0021*	0.08	
	Li 670.784	*0.0012*	0.09	
	Mg 279.077	*0.0248*	0.1	
	Mn 257.610	*0.0012*	0.007	
	Mo 204.597	*-0.0027*	0.03	
	Na 589.592	**0.0266**	0.001	**
	Ni 231.604	*-0.0010*	0.01	
	Pb 220.353	*0.0048*	0.050	
	Se 196.026	*-0.1338*	0.007	**
	Sn 189.927	*0.0138*	0.02	
	Sr 421.552	*0.0001*	0.03	
	Ti 336.121	*0.0003*	0.07	
	V 310.230	*-0.0021*	0.03	
	Zn 213.857	**0.0043**	0.001	**

No results are taken from this spreadsheet. It is a review tool only

Spiked Blank

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

		Measured mg/L	Spike mg/L	Recovery
LFB1	Ag 328.068	0.098	0.1	97.52%
B910044-BS1	As 193.696	0.950	1	95.00%
11:59:45 AM	B 249.677	1.000	1	100.05%
	Ba 455.403	4.989	5	97.34%
	Be 313.042	0.049	0.05	99.11%
	Cd 214.440	0.928	1	92.86%
	Co 228.616	0.461	0.5	92.01%
	Cr 267.716	4.954	5	98.70%
	Cu 324.752	4.661	5	93.20%
	Li 670.784	0.504	0.5	95.40%
	Mn 257.610	9.949	10	99.50%
	Mo 204.597	0.930	1	106.42%
	Ni 231.604	1.899	2	94.26%
	Pb 220.353	4.884	5	97.72%
	Se 196.026	0.890	1	88.59%
	Sn 189.927	0.981	1	98.06%
	Sr 421.552	0.982	1	98.18%
	V 310.230	0.465	0.5	93.08%
	Zn 213.857	9.759	10	97.59%

No results are taken from this spreadsheet. It is a review tool only

Instrument QC SRM

Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Elemen	Meas. (mg/kg)	"True" (mg/kg)	%Dev.		LCL	UCL
CRM033-050	Ag	1.43	1	43.02%		0.35	1.65
12:00 AM	Al	9142.85	7950	15.00%		6500	10000
	As	141.22	140	0.87%		126	154
	B	46.37	49	-5.38%		36	62
	Ba	213.42	220	-2.99%		190	240
	Be	2.49	2.6	-4.18%		1.7	3.7
	Ca	13039.38	13700	-4.82%		12000	15000
	Cd	83.57	105.9	-21.08%	lo	89	122
	Co	87.79	93	-5.60%		83	104
	Cr	108.43	100	8.43%		91	116
	Cu	89.34	94	-4.95%		85	110
	Fe	12550.84	10900	15.15%		9800	13000
	K	2755.90	2700	2.07%		2100	2900
	Li	9.32	8.5	9.63%		7.4	9.7
	Mg	4208.86	4200	0.21%		3600	4600
	Mn	262.60	250	5.04%		220	280
	Mo	55.04	55	0.08%		39	71
	Na	110.91	110	0.82%		65	150
	Ni	52.94	56	-5.47%		52	62
	Pb	61.91	65	-4.76%		52	78
	Se	73.87	98	-24.62%		74	103
	Sn	335.10	370	-9.43%		237	512
	Sr	37.38	39	-4.16%		35	42
	Ti	63.28	84	-24.67%		44	124
	V	102.59	108	-5.01%		96	120
	Zn	241.40	234	3.16%		212	255

No results are taken from this spreadsheet. It is a review tool only

DUPLICATE

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
B909037-DUP1	Ag 328.068	mg/kg	**2.46**	**2.10**	0.36	0.22	15.7%
2:53:02 PM	Al 308.215	mg/kg	**7281.10**	**7106.64**	174.45	7.60	2.4%
Source:	As 193.696	mg/kg	*-34.44*	*-11.22*	-23.22	2.17	101.7%
0909005-05	B 249.677	mg/kg	**19.26**	**18.09**	1.17	3.26	6.3%
	Ba 455.403	mg/kg	**95.11**	**86.91**	8.20	0.54	9.0%
	Be 313.042	mg/kg	**0.85**	**0.84**	0.01	0.33	1.0%
	Ca 315.887	mg/kg	**155668.38**	**147670.52**	7997.86	0.11	5.3%
	Cd 214.440	mg/kg	*-0.61*	*0.51*	-1.12	5.43	2240.4%
	Co 228.616	mg/kg	**4.46**	**4.35**	0.11	0.11	2.5%
	Cr 267.716	mg/kg	**45.13**	**43.59**	1.55	0.54	3.5%
	Cu 324.752	mg/kg	**62.32**	**67.20**	-4.88	0.43	7.5%
	Fe 273.955	mg/kg	**26533.97**	**25176.23**	1357.74	0.33	5.3%
	K 766.490	mg/kg	**913.91**	**1043.40**	-129.49	8.68	13.2%
	Li 670.784	mg/kg	*8.78*	*8.84*	-0.06	9.77	0.7%
	Mg 279.077	mg/kg	**17433.76**	**16543.77**	889.99	10.85	5.2%
	Mn 257.610	mg/kg	**492.34**	**469.75**	22.59	0.76	4.7%
	Mo 204.597	mg/kg	*-0.07*	*-0.62*	0.55	3.26	160.7%
	Na 589.592	mg/kg	**540.31**	**554.32**	-14.00	0.11	2.6%
	Ni 231.604	mg/kg	**25.08**	**23.28**	1.80	1.09	7.4%
	Pb 220.353	mg/kg	**136.67**	**144.73**	-8.06	5.43	5.7%
	Se 196.026	mg/kg	**6.04**	**1.47**	4.57	0.76	121.6%
	Sn 189.927	mg/kg	**15.07**	**10.63**	4.43	2.17	34.5%
	Sr 421.552	mg/kg	**237.89**	**228.11**	9.79	3.26	4.2%
	Ti 336.121	mg/kg	**234.81**	**239.34**	-4.53	7.60	1.9%
	V 310.230	mg/kg	**11.55**	**11.24**	0.31	3.26	2.7%
	Zn 213.857	mg/kg	**278.97**	**255.92**	23.05	0.11	8.6%

No results are taken from this spreadsheet. It is a review tool only

SPIKE

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Element	Units	Sample (in digest)	Spike (in digest)	Spike Added	Recovery	
B909037-MS1	Ag 328.068	mg/kg	**2.46**	**12.74**	10.71	95.97%	
2:53 PM	As 193.696	mg/kg	*-34.44*	**101.06**	107.11	126.50%	
Source:	B 249.677	mg/kg	**19.26**	**131.29**	107.11	104.59%	
0909005-05	Ba 455.403	mg/kg	**95.11**	**633.81**	535.56	100.58%	
	Be 313.042	mg/kg	**0.85**	**5.88**	5.36	93.89%	
	Cd 214.440	mg/kg	*-0.61*	**93.97**	107.11	88.30%	
	Co 228.616	mg/kg	**4.46**	**51.61**	53.56	88.04%	
	Cr 267.716	mg/kg	**45.13**	**538.10**	535.56	92.05%	
	Cu 324.752	mg/kg	**62.32**	**571.04**	535.56	94.99%	
	Li 670.784	mg/kg	**8.78**	**65.14**	53.56	105.24%	
	Mn 257.610	mg/kg	**492.34**	**1439.53**	1071.12	88.43%	
	Mo 204.597	mg/kg	*-0.07*	**100.43**	107.11	93.82%	
	Ni 231.604	mg/kg	**25.08**	**216.56**	214.22	89.39%	
	Pb 220.353	mg/kg	**136.67**	**704.55**	535.56	106.04%	
	Se 196.026	mg/kg	**6.04**	**106.66**	107.11	93.93%	
	Sn 189.927	mg/kg	**15.07**	**109.34**	107.11	88.01%	
	Sr 421.552	mg/kg	**237.89**	**335.16**	107.11	90.80%	##
	V 310.230	mg/kg	**11.55**	**59.95**	53.56	90.39%	
	Zn 213.857	mg/kg	**278.97**	**1263.28**	1071.12	91.90%	

No results are taken from this spreadsheet. It is a review tool only

DUPLICATE

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
B910044-DUP1	Ag 328.068	mg/kg	**2.39**	**1.84**	0.55	0.22	26.0%
12:00:00 AM	Al 308.215	mg/kg	**6625.57**	**6517.39**	108.18	7.76	1.6%
Source:	As 193.696	mg/kg	**10.26**	*-22.76*	33.01	2.22	528.1%
0909006-01	B 249.677	mg/kg	**12.66**	**12.00**	0.66	3.32	5.3%
	Ba 455.403	mg/kg	**75.52**	**72.97**	2.55	0.55	3.4%
	Be 313.042	mg/kg	**0.60**	**0.59**	0.01	0.33	1.8%
	Ca 315.887	mg/kg	**131221.09**	**136733.48**	-5512.39	0.11	4.1%
	Cd 214.440	mg/kg	*-1.60*	*-1.87*	0.27	5.54	15.8%
	Co 228.616	mg/kg	**3.93**	**3.83**	0.10	0.11	2.5%
	Cr 267.716	mg/kg	**20.88**	**19.88**	1.00	0.55	4.9%
	Cu 324.752	mg/kg	**82.98**	**80.67**	2.31	0.44	2.8%
	Fe 273.955	mg/kg	**16796.34**	**16356.67**	439.67	0.33	2.7%
	K 766.490	mg/kg	**991.32**	**1019.60**	-28.28	8.86	2.8%
	Li 670.784	mg/kg	*9.44*	*9.12*	0.32	9.97	3.4%
	Mg 279.077	mg/kg	**14825.67**	**14124.66**	701.01	11.08	4.8%
	Mn 257.610	mg/kg	**363.67**	**353.91**	9.76	0.78	2.7%
	Mo 204.597	mg/kg	*-2.53*	*-2.22*	-0.31	3.32	13.1%
	Na 589.592	mg/kg	**1181.75**	**1144.15**	37.59	0.11	3.2%
	Ni 231.604	mg/kg	**16.14**	**15.17**	0.97	1.11	6.2%
	Pb 220.353	mg/kg	**78.63**	**81.35**	-2.72	5.54	3.4%
	Se 196.026	mg/kg	**12.38**	*-17.16*	29.53	0.78	1235.0%
	Sn 189.927	mg/kg	*-5.07*	**16.24**	-21.31	2.22	381.6%
	Sr 421.552	mg/kg	**219.55**	**208.73**	10.82	3.32	5.1%
	Ti 336.121	mg/kg	**140.63**	**145.21**	-4.58	7.76	3.2%
	V 310.230	mg/kg	**10.00**	**10.15**	-0.14	3.32	1.4%
	Zn 213.857	mg/kg	**213.83**	**212.08**	1.75	0.11	0.8%

No results are taken from this spreadsheet. It is a review tool only

SPIKE

Sample Work Order: 0909005, 0909006, 0909014 BASF Wyandotte, MI Sediments
Analysis Date: 10/26/2009

	Element	Units	Sample (in digest)	Spike (in digest)	Spike Added	Recovery	
B910044-MS1	Ag 328.068	mg/kg	*2.39*	*12.18*	10.83	90.37%	
12:00 AM	As 193.696	mg/kg	*10.26*	*109.18*	108.27	91.36%	
Source:	B 249.677	mg/kg	*12.66*	*120.48*	108.27	99.59%	
0909006-01	Ba 455.403	mg/kg	*75.52*	*597.56*	541.36	96.43%	
	Be 313.042	mg/kg	*0.60*	*5.66*	5.41	93.53%	
	Cd 214.440	mg/kg	*-1.60*	*87.47*	108.27	82.26%	
	Co 228.616	mg/kg	*3.93*	*50.10*	54.14	85.29%	
	Cr 267.716	mg/kg	*20.88*	*510.17*	541.36	90.38%	
	Cu 324.752	mg/kg	*82.98*	*548.15*	541.36	85.93%	
	Li 670.784	mg/kg	*9.44*	*64.88*	54.14	102.41%	
	Mn 257.610	mg/kg	*363.67*	*1330.79*	1082.72	89.32%	
	Mo 204.597	mg/kg	*-2.53*	*96.77*	108.27	91.71%	
	Ni 231.604	mg/kg	*16.14*	*205.32*	216.54	87.36%	
	Pb 220.353	mg/kg	*78.63*	*566.57*	541.36	90.13%	
	Se 196.026	mg/kg	*12.38*	*103.00*	108.27	83.70%	
	Sn 189.927	mg/kg	*-5.07*	*103.99*	108.27	100.73%	
	Sr 421.552	mg/kg	*219.55*	*313.53*	108.27	86.80%	##
	V 310.230	mg/kg	*10.00*	*60.28*	54.14	92.87%	
	Zn 213.857	mg/kg	*213.83*	*1183.85*	1082.72	89.59%	

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

50.0001 9
20.0000
4.9999
1.0000
0.4999

Date: 9/24/2009

METALS SAMPLE PREPARATION RECORD

Prepared By: KS
Digestion Method: Hot Block Digestion
Prepared Date: 10 06 09

Hotblock ID: CPI
NIST-traceable block temp.: 89.2 °C
Analytical Balance ID: Mettler Balance #6

Batch Number: B909037

Crucible Number	Sample Number	Vessel Number	Sample Weight (g)	Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
W	0909005-01	1	0.4776						white		
K15	0909005-02	2	0.4877						"		
08	0909005-03	3	0.4916								
D8	0909005-04	4	0.5145								
038	0909005-05	5	0.4607								
E49	0909005-06	6	0.4999						white		
D E169	0909005-07	7	0.4835						"		
B98	0909006-01	8	0.4863								
E97	0909006-02	9	0.5398						white		
K17	0909006-03	10	0.5012						"		
034	0909006-04	11	0.5154						gray w/ small stones		
E115	0909014-01	12	0.5020						all stones		
E199	0909014-02	13	0.4830						gray		
E119	0909014-03	14	0.5337						many stones white/gray		
E37	0909014-04	15	0.4950						" "		
E96	0909014-05	16	0.4880								
	B909037-BLK1	17									
	B909037-BS1	18									
	B909037-DUP1	5a	0.4604	005-05							
	B909037-DUP2	13a	0.4902	014-02							

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/24/2009

METALS SAMPLE PREPARATION RECORD

Prepared By: _____ Hotblock ID: _____

Batch Number: B909037

Digestion Method: Hot Block Digestion NIST-traceable block temp.: _____

Prepared Date: _____ Analytical Balance ID: _____

Crucible Number	Sample Number	Vessel Number	Sample Weight (g)	Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
	B909037-MS1	5b	0.4668	005-05							
	B909037-MS2	13b	0.4874	014-02					some clumps		
	B909037-SRM1	19	0.4708								

Batch Comments: dried white samples formed some ball clumps
vigorous bubbling upon acid addition

Comments:

Analyses included in this batch:
Metals full ICP (S)

Acids used in batch preparation:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

20.0000
10.0000
2.0000
0.5000
0.2000

Date: 10/22/2009

METALS SAMPLE PREPARATION RECORD

Batch Number: B910044

Prepared By: KS
Digestion Method: Hot Block Digestion
Prepared Date: 10 23 09

Hotblock ID: CPI
NIST-traceable block temp.: 88.0°C
Analytical Balance ID: Mettler Balance #6

Crucible Number	Sample Number	Vessel Number	Sample Weight (g)	Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
	0909006-01RE1	1	0.4513								
	0909006-02RE1	2	0.4753								
	0909006-03RE1	3	0.4808								
	0909006-04RE1	4	0.5889								
	0909014-01RE1	5	0.5494								
	0909014-02RE1	6	0.4546								
	0909014-03RE1	7	0.5893								
	0909014-04RE1	8	0.4691								
	0909014-05RE1	9	0.4802								
	B910044-BLK1										
	B910044-BS1		.5078								
	B910044-DUP1	1a	0.~~4543~~	06-01							
	B910044-MS1	1b	0.4618	"							
	B910044-SRM1	12	0.4811								

Entered in B909037

Batch Comments: white ball clumps

Comments:

==========

Analysis Begun

Start Time: 10/26/2009 11:12:23 AM **Plasma On Time: 10/26/2009 9:50:10 AM**
Logged In Analyst: Kswan2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

==========

Method Loaded
Method Name: FASTSed_2009 Y **Method Last Saved: 10/26/2009 11:11:36 AM**
IEC File: 093009 soil.iec **MSF File:**
Method Description: Soil Method with IEC January 2006

==========

10/26/2009 11:13:59 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

==========

==========

Sequence No.: 2 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 10/26/2009 11:14:01 AM**
Data Type: Original

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	158921.0	7722.33	4.86%	100.0	%
Ag 328.068†	-163.3	14.29	8.75%	[0.00]	mg/L
Ag 338.289†	210.3	25.40	12.08%	[0.00]	mg/L
Al 308.215†	511.3	35.70	6.98%	[0.00]	mg/L
Al 394.401†	-102.4	32.38	31.61%	[0.00]	mg/L
Al 396.153†	-149.6	20.57	13.74%	[0.00]	mg/L
As 188.979†	0.3	0.68	231.68%	[0.00]	mg/L
As 193.696†	2.7	0.59	22.22%	[0.00]	mg/L
As 197.197†	4.0	0.69	17.34%	[0.00]	mg/L
B 208.889†	50.5	2.33	4.61%	[0.00]	mg/L
B 249.677†	-8.6	2.21	25.54%	[0.00]	mg/L
B 249.772†	38.8	7.97	20.54%	[0.00]	mg/L
Ba 233.527†	-17.8	2.53	14.25%	[0.00]	mg/L
Ba 455.403†	1602.1	80.29	5.01%	[0.00]	mg/L
Ba 493.408†	30.7	74.66	243.52%	[0.00]	mg/L
Be 234.861†	-38.7	3.31	8.56%	[0.00]	mg/L
Be 313.042†	1557.8	75.67	4.86%	[0.00]	mg/L
Be 313.107†	597.4	18.18	3.04%	[0.00]	mg/L
Ca 315.887†	-44.6	16.16	36.19%	[0.00]	mg/L
Ca 317.933†	1019.9	44.91	4.40%	[0.00]	mg/L
Cd 214.440†	-4.6	16.57	356.39%	[0.00]	mg/L
Cd 226.502†	-13.0	6.11	46.87%	[0.00]	mg/L
Cd 228.802†	35.6	5.05	14.18%	[0.00]	mg/L
Ce 413.380†	-83.3	36.32	43.61%	[0.00]	mg/L
Ce 413.764†	76.4	72.25	94.57%	[0.00]	mg/L
Ce 418.660†	-296.0	64.01	21.62%	[0.00]	mg/L
Co 228.616†	32.2	2.15	6.69%	[0.00]	mg/L
Co 230.786†	616.7	31.16	5.05%	[0.00]	mg/L
Co 238.892†	-43.2	7.88	18.23%	[0.00]	mg/L
Cr 205.560†	5.1	1.71	33.40%	[0.00]	mg/L
Cr 267.716†	110.2	4.28	3.88%	[0.00]	mg/L
Cr 283.563†	160.7	15.28	9.51%	[0.00]	mg/L
Cu 224.700†	12.4	3.27	26.32%	[0.00]	mg/L
Cu 324.752†	399.8	26.54	6.64%	[0.00]	mg/L
Cu 327.393†	-95.5	10.40	10.89%	[0.00]	mg/L
Fe 238.204†	84.9	5.30	6.25%	[0.00]	mg/L
Fe 239.562†	60.7	7.96	13.11%	[0.00]	mg/L
Fe 259.939†	153.0	8.21	5.37%	[0.00]	mg/L
Fe 273.955†	-38.5	1.16	3.01%	[0.00]	mg/L

KR 102609

K 766.490†	-488.9	234.55	47.98%	[0.00]	mg/L
Li 610.362†	52255.6	3199.74	6.12%	[0.00]	mg/L
Li 670.784†	-643.7	21.23	3.30%	[0.00]	mg/L
Mg 279.077†	44.1	8.99	20.39%	[0.00]	mg/L
Mg 280.271†	907.3	24.32	2.68%	[0.00]	mg/L
Mg 285.213†	-379.0	20.85	5.50%	[0.00]	mg/L
Mn 257.610†	-8.6	4.16	48.29%	[0.00]	mg/L
Mn 259.372†	65.8	3.53	5.37%	[0.00]	mg/L
Mn 260.568†	-8.1	5.14	63.81%	[0.00]	mg/L
Mo 202.031†	-0.8	0.70	89.87%	[0.00]	mg/L
Mo 203.845†	-2.2	3.03	135.12%	[0.00]	mg/L
Mo 204.597†	-0.3	2.98	>999.9%	[0.00]	mg/L
Na 588.995†	57248.5	3342.10	5.84%	[0.00]	mg/L
Na 589.592†	117.0	44.60	38.14%	[0.00]	mg/L
Ni 221.648†	-2.1	1.12	52.86%	[0.00]	mg/L
Ni 231.604†	44.6	2.08	4.65%	[0.00]	mg/L
Ni 232.003†	9.2	6.57	71.18%	[0.00]	mg/L
Pb 217.000†	-2.5	1.74	68.98%	[0.00]	mg/L
Pb 220.353†	4.3	4.08	95.82%	[0.00]	mg/L
Sb 206.836†	1.0	0.88	91.87%	[0.00]	mg/L
Sb 217.582†	-4.7	3.05	65.32%	[0.00]	mg/L
Se 196.026†	2.3	2.34	102.20%	[0.00]	mg/L
Se 203.985†	-0.2	1.80	>999.9%	[0.00]	mg/L
Sn 235.485†	-48.1	2.73	5.67%	[0.00]	mg/L
Sn 189.927†	0.6	1.42	251.55%	[0.00]	mg/L
Sr 460.733†	-14.7	50.38	342.26%	[0.00]	mg/L
Sr 407.771†	810.8	85.47	10.54%	[0.00]	mg/L
Sr 421.552†	532.3	86.91	16.33%	[0.00]	mg/L
Ti 337.279†	-85.4	15.58	18.25%	[0.00]	mg/L
Ti 334.940†	218.5	8.55	3.92%	[0.00]	mg/L
Ti 336.121†	30.0	9.30	31.01%	[0.00]	mg/L
Tl 351.924†	599.6	9.84	1.64%	[0.00]	mg/L
Tl 190.801†	-2.6	2.45	94.58%	[0.00]	mg/L
Tl 276.787†	57.5	9.97	17.33%	[0.00]	mg/L
V 310.230†	4436.2	231.92	5.23%	[0.00]	mg/L
V 292.402†	-25.4	22.87	90.18%	[0.00]	mg/L
V 311.071†	309.1	9.87	3.19%	[0.00]	mg/L
Zn 206.200†	1.5	1.25	86.25%	[0.00]	mg/L
Zn 213.857†	8.1	1.88	23.33%	[0.00]	mg/L
Zn 202.548†	5.4	3.86	70.98%	[0.00]	mg/L

==========

Sequence No.: 3
Sample ID: Cal 1

Autosampler Location: 2
Date Collected: 10/26/2009 11:15:08 AM
Data Type: Original

Mean Data: Cal 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	157531.6	5918.64	3.76%	99.13	%
Ag 328.068†	13725.7	166.05	1.21%	[0.5]	mg/L
Ag 338.289†	5140.8	64.64	1.26%	[0.5]	mg/L
As 188.979†	146.2	5.40	3.69%	[5]	mg/L
As 193.696†	218.4	8.91	4.08%	[5]	mg/L
As 197.197†	114.4	10.79	9.43%	[5]	mg/L
B 208.889†	499.5	26.82	5.37%	[2]	mg/L
B 249.677†	6006.0	129.70	2.16%	[2]	mg/L
B 249.772†	13248.7	148.53	1.12%	[2]	mg/L
Be 234.861†	131531.9	1566.32	1.19%	[2]	mg/L
Be 313.042†	1066829.6	44280.58	4.15%	[2]	mg/L
Be 313.107†	553692.6	23066.20	4.17%	[2]	mg/L
Ca 317.933†	129797.8	1371.81	1.06%	[10]	mg/L
Cd 214.440†	7891.9	323.92	4.10%	[2]	mg/L
Cd 226.502†	7486.7	322.69	4.31%	[2]	mg/L
Cd 228.802†	7424.1	307.02	4.14%	[2]	mg/L
Ce 413.380†	9414.5	161.41	1.71%	[2]	mg/L
Ce 413.764†	10174.2	129.88	1.28%	[2]	mg/L
Ce 418.660†	10950.9	64.66	0.59%	[2]	mg/L
Co 228.616†	4581.8	194.84	4.25%	[2]	mg/L
Co 230.786†	3893.8	188.17	4.83%	[2]	mg/L

Co 238.892†	8116.0	350.54	4.32%	[2]	mg/L
Cr 205.560†	1169.9	51.53	4.40%	[2]	mg/L
Cr 267.716†	12471.6	170.52	1.37%	[2]	mg/L
Cr 283.563†	42038.9	296.91	0.71%	[2]	mg/L
Mg 280.271†	2590109.8	115179.41	4.45%	[10]	mg/L
Mg 285.213†	282423.1	3639.48	1.29%	[10]	mg/L
Ni 221.648†	2225.0	92.55	4.16%	[2]	mg/L
Ni 231.604†	4896.4	200.86	4.10%	[2]	mg/L
Ni 232.003†	2548.8	113.76	4.46%	[2]	mg/L
Se 196.026†	158.7	8.79	5.54%	[5]	mg/L
Se 203.985†	118.6	4.72	3.98%	[5]	mg/L
Sr 460.733†	11375.8	204.64	1.80%	[2]	mg/L
Sr 407.771†	2920542.5	130445.22	4.47%	[2]	mg/L
Sr 421.552†	969572.0	43640.36	4.50%	[2]	mg/L
Tl 351.924†	3510.2	78.75	2.24%	[5]	mg/L
Tl 190.801†	128.2	3.74	2.92%	[5]	mg/L
Tl 276.787†	2071.4	87.13	4.21%	[5]	mg/L
V 310.230†	73076.4	630.00	0.86%	[2]	mg/L
V 292.402†	27905.2	299.81	1.07%	[2]	mg/L
V 311.071†	44237.9	339.81	0.77%	[2]	mg/L

==========

Sequence No.: 4 **Autosampler Location: 3**
Sample ID: Cal 2 **Date Collected: 10/26/2009 11:16:10 AM**
Data Type: Original

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	158521.5	1325.88	0.84%	99.75	%
Al 394.401†	28727.1	1578.78	5.50%	[10]	mg/L
Al 396.153†	71528.5	3987.08	5.57%	[10]	mg/L
Fe 238.204†	92596.4	4995.65	5.40%	[10]	mg/L
Fe 239.562†	61158.3	3198.19	5.23%	[10]	mg/L
Fe 259.939†	114584.2	6007.95	5.24%	[10]	mg/L
Li 610.362†	63551.9	3059.82	4.81%	[5]	mg/L
Li 670.784†	535352.9	28427.47	5.31%	[5]	mg/L
Mo 202.031†	3212.9	18.85	0.59%	[10]	mg/L
Mo 203.845†	1929.9	7.39	0.38%	[10]	mg/L
Mo 204.597†	2152.2	15.75	0.73%	[10]	mg/L
Na 588.995†	146877.9	7513.32	5.12%	[10]	mg/L
Sb 206.836†	404.7	4.89	1.21%	[5]	mg/L
Sb 217.582†	682.8	8.64	1.27%	[5]	mg/L
Sn 235.485†	1338.7	5.46	0.41%	[2]	mg/L
Sn 189.927†	132.9	3.04	2.29%	[2]	mg/L
Ti 337.279†	412016.1	23042.12	5.59%	[10]	mg/L
Ti 334.940†	683852.8	37900.59	5.54%	[10]	mg/L
Ti 336.121†	433354.1	24008.65	5.54%	[10]	mg/L

==========

Sequence No.: 5 **Autosampler Location: 4**
Sample ID: Cal 4C **Date Collected: 10/26/2009 11:17:06 AM**
Data Type: Original

Mean Data: Cal 4C

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	158477.1	604.39	0.38%	99.72	%
Ba 233.527†	32605.1	585.45	1.80%	[5]	mg/L
Ba 455.403†	1816058.3	51045.85	2.81%	[5]	mg/L
Ba 493.408†	1901377.7	53502.08	2.81%	[5]	mg/L
Cu 224.700†	5052.2	15.05	0.30%	[5]	mg/L
Cu 324.752†	180592.8	2619.76	1.45%	[5]	mg/L
Cu 327.393†	77833.7	973.44	1.25%	[5]	mg/L
Mn 257.610†	481458.6	14515.36	3.01%	[10]	mg/L
Mn 259.372†	654399.4	19280.78	2.95%	[10]	mg/L
Mn 260.568†	286115.0	6112.95	2.14%	[10]	mg/L
Pb 217.000†	769.3	1.06	0.14%	[10]	mg/L
Pb 220.353†	3831.7	5.06	0.13%	[10]	mg/L

Zn 206.200†	18834.6	86.16	0.46%	[20]	mg/L
Saturated within auto integration window (code 4)					
Zn 213.857†	65154.9	1461.93	2.24%	[20]	mg/L
Zn 202.548†	32547.9	702.74	2.16%	[20]	mg/L

==========

Sequence No.: 6
Sample ID: Hi Cal

Autosampler Location: 5
Date Collected: 10/26/2009 11:18:07 AM
Data Type: Original

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	142748.8	548.73	0.38%	89.82	%
Al 308.215†	882883.5	28760.73	3.26%	[500]	mg/L
Ca 315.887†	3679136.4	208154.25	5.66%	[500]	mg/L
Fe 273.955†	842576.0	25168.30	2.99%	[500]	mg/L
K 766.490†	893822.2	27269.31	3.05%	[200]	mg/L
Mg 279.077†	565160.4	16123.26	2.85%	[500]	mg/L
Na 589.592†	1576795.8	93958.53	5.96%	[200]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin, Calc Int	0.0	27450	0.00000	1.000000	
Ag 338.289	1	Lin, Calc Int	0.0	10280	0.00000	1.000000	
Al 308.215	1	Lin, Calc Int	0.0	1766	0.00000	1.000000	
Al 394.401	1	Lin, Calc Int	0.0	2873	0.00000	1.000000	
Al 396.153	1	Lin, Calc Int	0.0	7153	0.00000	1.000000	
As 188.979	1	Lin, Calc Int	0.0	29.25	0.00000	1.000000	
As 193.696	1	Lin, Calc Int	0.0	43.68	0.00000	1.000000	
As 197.197	1	Lin, Calc Int	0.0	22.87	0.00000	1.000000	
B 208.889	1	Lin, Calc Int	0.0	249.7	0.00000	1.000000	
B 249.677	1	Lin, Calc Int	0.0	3003	0.00000	1.000000	
B 249.772	1	Lin, Calc Int	0.0	6624	0.00000	1.000000	
Ba 233.527	1	Lin, Calc Int	0.0	6521	0.00000	1.000000	
Ba 455.403	1	Lin, Calc Int	0.0	363200	0.00000	1.000000	
Ba 493.408	1	Lin, Calc Int	0.0	380300	0.00000	1.000000	
Be 234.861	1	Lin, Calc Int	0.0	65770	0.00000	1.000000	
Be 313.042	1	Lin, Calc Int	0.0	533400	0.00000	1.000000	
Be 313.107	1	Lin, Calc Int	0.0	276800	0.00000	1.000000	
Ca 315.887	1	Lin, Calc Int	0.0	7358	0.00000	1.000000	
Ca 317.933	1	Lin, Calc Int	0.0	12980	0.00000	1.000000	
Cd 214.440	1	Lin, Calc Int	0.0	3946	0.00000	1.000000	
Cd 226.502	1	Lin, Calc Int	0.0	3743	0.00000	1.000000	
Cd 228.802	1	Lin, Calc Int	0.0	3712	0.00000	1.000000	
Ce 413.380	1	Lin, Calc Int	0.0	4707	0.00000	1.000000	
Ce 413.764	1	Lin, Calc Int	0.0	5087	0.00000	1.000000	
Ce 418.660	1	Lin, Calc Int	0.0	5475	0.00000	1.000000	
Co 228.616	1	Lin, Calc Int	0.0	2291	0.00000	1.000000	
Co 230.786	1	Lin, Calc Int	0.0	1947	0.00000	1.000000	
Co 238.892	1	Lin, Calc Int	0.0	4058	0.00000	1.000000	
Cr 205.560	1	Lin, Calc Int	0.0	585.0	0.00000	1.000000	
Cr 267.716	1	Lin, Calc Int	0.0	6236	0.00000	1.000000	
Cr 283.563	1	Lin, Calc Int	0.0	21020	0.00000	1.000000	
Cu 224.700	1	Lin, Calc Int	0.0	1010	0.00000	1.000000	
Cu 324.752	1	Lin, Calc Int	0.0	36120	0.00000	1.000000	
Cu 327.393	1	Lin, Calc Int	-0.0	15570	0.00000	1.000000	
Fe 238.204	1	Lin, Calc Int	0.0	9260	0.00000	1.000000	
Fe 239.562	1	Lin, Calc Int	0.0	6116	0.00000	1.000000	
Fe 259.939	1	Lin, Calc Int	0.0	11460	0.00000	1.000000	
Fe 273.955	1	Lin, Calc Int	-0.0	1685	0.00000	1.000000	
K 766.490	1	Lin, Calc Int	-0.0	4469	0.00000	1.000000	
Li 610.362	1	Lin, Calc Int	-0.0	12710	0.00000	1.000000	
Li 670.784	1	Lin, Calc Int	0.0	107100	0.00000	1.000000	
Mg 279.077	1	Lin, Calc Int	-0.0	1130	0.00000	1.000000	
Mg 280.271	1	Lin, Calc Int	0.0	259000	0.00000	1.000000	
Mg 285.213	1	Lin, Calc Int	0.0	28240	0.00000	1.000000	
Mn 257.610	1	Lin, Calc Int	0.0	48150	0.00000	1.000000	

Mn 259.372	1	Lin, Calc Int	0.0	65440	0.00000	1.000000
Mn 260.568	1	Lin, Calc Int	-0.0	28610	0.00000	1.000000
Mo 202.031	1	Lin, Calc Int	-0.0	321.3	0.00000	1.000000
Mo 203.845	1	Lin, Calc Int	0.0	193.0	0.00000	1.000000
Mo 204.597	1	Lin, Calc Int	0.0	215.2	0.00000	1.000000
Na 588.995	1	Lin, Calc Int	0.0	14690	0.00000	1.000000
Na 589.592	1	Lin, Calc Int	0.0	7884	0.00000	1.000000
Ni 221.648	1	Lin, Calc Int	0.0	1113	0.00000	1.000000
Ni 231.604	1	Lin, Calc Int	0.0	2448	0.00000	1.000000
Ni 232.003	1	Lin, Calc Int	0.0	1274	0.00000	1.000000
Pb 217.000	1	Lin, Calc Int	0.0	76.93	0.00000	1.000000
Pb 220.353	1	Lin, Calc Int	-0.0	383.2	0.00000	1.000000
Sb 206.836	1	Lin, Calc Int	0.0	80.94	0.00000	1.000000
Sb 217.582	1	Lin, Calc Int	0.0	136.6	0.00000	1.000000
Se 196.026	1	Lin, Calc Int	0.0	31.73	0.00000	1.000000
Se 203.985	1	Lin, Calc Int	0.0	23.73	0.00000	1.000000
Sn 235.485	1	Lin, Calc Int	0.0	669.4	0.00000	1.000000
Sn 189.927	1	Lin, Calc Int	0.0	66.44	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	5688	0.00000	1.000000
Sr 407.771	1	Lin, Calc Int	0.0	1460000	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	484800	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	41200	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	-0.0	68390	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	0.0	43340	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	0.0	702.0	0.00000	1.000000
Tl 190.801	1	Lin, Calc Int	0.0	25.63	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	414.3	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	36540	0.00000	1.000000
V 292.402	1	Lin, Calc Int	0.0	13950	0.00000	1.000000
V 311.071	1	Lin, Calc Int	0.0	22120	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	941.7	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	3258	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	0.0	1627	0.00000	1.000000

Analysis Begun

Start Time: 10/26/2009 11:23:05 AM
Plasma On Time: 10/26/2009 9:50:10 AM
Logged In Analyst: Kswan2
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

Method Loaded
Method Name: FASTSed_2009 Y
Method Last Saved: 10/26/2009 11:15:05 AM
IEC File: 093009 soil.iec
MSF File:
Method Description: Soil Method with IEC January 2006

Sequence No.: 1
Autosampler Location: 10
Sample ID: blank
Date Collected: 10/26/2009 11:23:05 AM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156495.6	98.47	%	2.889				2.93%
Ag 328.068†	21.4	0.00071	mg/L	0.000796				112.37%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	16.8	0.00163	mg/L	0.002531				155.09%
Al 308.215†	33.9	0.01936	mg/L	0.007604				39.27%
Al 394.401†	58.4	0.02582	mg/L	0.006787				26.28%
Al 396.153†	186.5	0.02631	mg/L	0.003521				13.38%
As 188.979†	1.0	0.03285	mg/L	0.019720				60.04%
As 193.696†	0.4	0.00988	mg/L	0.031117				315.10%
As 197.197†	-0.1	-0.00636	mg/L	0.143108				>999.9%
B 208.889†	0.3	0.00114	mg/L	0.012847				>999.9%
B 249.677†	-2.0	-0.00066	mg/L	0.001384				211.16%
B 249.772†	-1.6	-0.00027	mg/L	0.001039				388.79%
Ba 233.527†	-1.9	-0.00031	mg/L	0.001156				373.12%
Ba 455.403†	52.0	0.00014	mg/L	0.000290				202.26%
Ba 493.408†	-42.2	-0.00011	mg/L	0.000150				134.57%
Be 234.861†	-2.4	-0.00004	mg/L	0.000039				101.94%
Be 313.042†	28.1	0.00005	mg/L	0.000079				156.47%
Be 313.107†	6.6	0.00003	mg/L	0.000052				200.81%
Ca 315.887†	252.6	0.03435	mg/L	0.000466				1.36%
Ca 317.933†	442.8	0.03411	mg/L	0.004318				12.66%
Cd 214.440†	-11.3	-0.00288	mg/L	0.003931				136.47%
Cd 226.502†	1.5	0.00039	mg/L	0.001167				297.49%
Cd 228.802†	1.3	0.00007	mg/L	0.001202				>999.9%
Ce 413.380†	59.9	0.01273	mg/L	0.010265				80.61%
Ce 413.764†	-70.0	-0.01376	mg/L	0.017632				128.15%
Ce 418.660†	61.4	0.01120	mg/L	0.013513				120.67%
Co 228.616†	-5.2	-0.00225	mg/L	0.000894				39.64%
Co 230.786†	9.7	0.00498	mg/L	0.008959				179.78%
Co 238.892†	-4.1	-0.00105	mg/L	0.000576				54.92%
Cr 205.560†	0.4	0.00063	mg/L	0.002592				414.58%
Cr 267.716†	0.7	0.00012	mg/L	0.002703				>999.9%
Cr 283.563†	0.4	0.00003	mg/L	0.000586				>999.9%
Cu 224.700†	2.3	-0.04276	mg/L	0.013902				32.51%
Cu 324.752†	-19.4	-0.00053	mg/L	0.000382				71.85%
Cu 327.393†	17.6	0.00113	mg/L	0.000190				16.91%
Fe 238.204†	18.5	0.00199	mg/L	0.001289				64.80%
Fe 239.562†	-0.2	-0.00003	mg/L	0.001203				>999.9%
Fe 259.939†	25.4	0.00222	mg/L	0.001032				46.56%
Fe 273.955†	9.3	0.00554	mg/L	0.003087				55.76%
K 766.490†	193.2	0.04322	mg/L	0.048771				112.84%
Li 610.362†	2029.9	0.1597	mg/L	0.15163				94.97%
Li 670.784†	182.4	0.00170	mg/L	0.000573				33.64%

Mg 279.077†	7.0	0.00612	mg/L	0.003187			52.12%
Mg 280.271†	655.9	0.00253	mg/L	0.000152			6.02%
Mg 285.213†	71.6	0.00254	mg/L	0.000520			20.47%
Mn 257.610†	3.5	0.00007	mg/L	0.000098			136.36%
Mn 259.372†	13.3	0.00023	mg/L	0.000222			95.12%
Mn 260.568†	-2.8	-0.00010	mg/L	0.000154			158.01%
Mo 202.031†	-1.7	-0.00522	mg/L	0.003864			73.95%
Mo 203.845†	2.7	0.01422	mg/L	0.013078			91.94%
Mo 204.597†	-1.6	-0.00743	mg/L	0.011631			156.59%
Na 588.995†	2004.8	0.1365	mg/L	0.13203			96.73%
Na 589.592†	-59.9	-0.00758	mg/L	0.018366			242.21%
Ni 221.648†	-3.9	-0.00353	mg/L	0.000922			26.09%
Ni 231.604†	-2.1	-0.00083	mg/L	0.001991			240.34%
Ni 232.003†	6.3	0.00499	mg/L	0.007282			146.05%
Pb 217.000†	-3.2	-0.04124	mg/L	0.027842			67.51%
Pb 220.353†	0.3	0.00066	mg/L	0.016337			>999.9%
Sb 206.836†	-2.2	-0.02766	mg/L	0.007555			27.31%
Sb 217.582†	-0.6	-0.00454	mg/L	0.021122			465.44%
Se 196.026†	-0.6	-0.01906	mg/L	0.038210			200.49%
Se 203.985†	1.4	0.06074	mg/L	0.105530			173.75%
Sn 235.485†	2.5	0.00289	mg/L	0.004964			171.99%
Sn 189.927†	-0.4	-0.00675	mg/L	0.033056			489.98%
Sr 460.733†	87.0	0.01536	mg/L	0.028007			182.28%
Sr 407.771†	415.1	0.00029	mg/L	0.000078			27.05%
Sr 421.552†	128.4	0.00026	mg/L	0.000036			13.48%
Ti 337.279†	-30.2	-0.00073	mg/L	0.000576			78.73%
Ti 334.940†	-9.2	-0.00013	mg/L	0.000122			93.63%
Ti 336.121†	13.9	0.00032	mg/L	0.000504			158.48%
Tl 351.924†	8.2	0.01388	mg/L	0.018529			133.47%
Tl 190.801†	2.2	0.08738	mg/L	0.070504			80.69%
Tl 276.787†	12.6	0.02983	mg/L	0.031138			104.39%
V 310.230†	83.7	0.00228	mg/L	0.004209			184.24%
V 292.402†	-25.6	-0.00195	mg/L	0.001844			94.75%
V 311.071†	4.1	0.00017	mg/L	0.000291			170.95%
Zn 206.200†	1.0	0.00104	mg/L	0.000464			44.82%
Zn 213.857†	5.7	0.00176	mg/L	0.000415			23.62%
Zn 202.548†	0.5	0.00033	mg/L	0.002985			908.89%

All analyte(s) passed QC.

==========

Sequence No.: 2
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 11:24:07 AM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156616.9	98.55	%	2.631				2.67%
Ag 328.068†	24.0	0.00089	mg/L	0.001019				114.29%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-0.8	-0.00007	mg/L	0.001932				>999.9%
Al 308.215†	6.5	0.00378	mg/L	0.007222				191.05%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	18.6	0.00524	mg/L	0.005820				111.03%
Al 396.153†	113.4	0.01608	mg/L	0.011957				74.38%
As 188.979†	0.6	0.01967	mg/L	0.086186				438.18%
As 193.696†	3.3	0.07574	mg/L	0.042353				55.92%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-1.1	-0.05004	mg/L	0.080877				161.62%
B 208.889†	0.2	0.00081	mg/L	0.014599				>999.9%
B 249.677†	1.2	0.00039	mg/L	0.000911				233.54%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	0.8	0.00011	mg/L	0.001362				>999.9%
Ba 233.527†	-3.4	-0.00054	mg/L	0.000351				65.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	-49.6	-0.00014	mg/L	0.000125				91.52%
Ba 493.408†	-72.0	-0.00019	mg/L	0.000347				183.15%
Be 234.861†	-2.5	-0.00004	mg/L	0.000112				284.94%
Be 313.042†	25.3	0.00004	mg/L	0.000048				110.62%
QC value within limits for Be 313.042 Recovery = Not calculated								

Be 313.107†	27.7	0.00010 mg/L	0.000044	44.71%
Ca 315.887†	-42.3	-0.00574 mg/L	0.003319	57.82%
QC value within limits for Ca 315.887 Recovery = Not calculated				
Ca 317.933†	-70.7	-0.00545 mg/L	0.000653	11.98%
Cd 214.440†	23.4	0.00593 mg/L	0.010982	185.19%
QC value within limits for Cd 214.440 Recovery = Not calculated				
Cd 226.502†	2.8	0.00074 mg/L	0.001076	146.02%
Cd 228.802†	-1.2	-0.00250 mg/L	0.001548	62.04%
Ce 413.380†	-16.4	-0.00348 mg/L	0.005899	169.57%
QC value within limits for Ce 413.380 Recovery = Not calculated				
Ce 413.764†	15.6	0.00306 mg/L	0.009732	318.16%
Ce 418.660†	5.7	0.00101 mg/L	0.025690	>999.9%
Co 228.616†	-3.9	-0.00171 mg/L	0.001284	75.29%
Co 230.786†	9.5	0.00492 mg/L	0.007634	155.04%
Co 238.892†	-5.3	-0.00131 mg/L	0.000729	55.78%
QC value within limits for Co 238.892 Recovery = Not calculated				
Cr 205.560†	-2.0	-0.00345 mg/L	0.006064	175.80%
QC value within limits for Cr 205.560 Recovery = Not calculated				
Cr 267.716†	-9.2	-0.00148 mg/L	0.002113	142.73%
Cr 283.563†	0.2	0.00000 mg/L	0.000439	>999.9%
Cu 224.700†	4.1	-0.03998 mg/L	0.026411	66.05%
QC value within limits for Cu 224.700 Recovery = Not calculated				
Cu 324.752†	-24.1	-0.00066 mg/L	0.000568	85.94%
Cu 327.393†	-2.7	-0.00018 mg/L	0.000713	403.42%
Fe 238.204†	-6.5	-0.00070 mg/L	0.000353	50.16%
Fe 239.562†	-13.6	-0.00222 mg/L	0.000678	30.59%
Fe 259.939†	-4.6	-0.00040 mg/L	0.000171	42.62%
Fe 273.955†	0.6	0.00037 mg/L	0.002014	542.58%
QC value within limits for Fe 273.955 Recovery = Not calculated				
K 766.490†	43.6	0.00976 mg/L	0.009564	98.01%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	1944.5	0.1530 mg/L	0.11938	78.03%
Li 670.784†	178.0	0.00166 mg/L	0.001024	61.63%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	-5.3	-0.00470 mg/L	0.006876	146.26%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	-104.8	-0.00041 mg/L	0.000052	12.68%
Mg 285.213†	-2.8	-0.00010 mg/L	0.000197	201.81%
Mn 257.610†	-1.5	-0.00003 mg/L	0.000081	265.44%
Mn 259.372†	-0.1	0.00003 mg/L	0.000204	641.06%
Mn 260.568†	-4.9	-0.00017 mg/L	0.000312	184.69%
QC value within limits for Mn 260.568 Recovery = Not calculated				
Mo 202.031†	-0.1	-0.00044 mg/L	0.008133	>999.9%
Mo 203.845†	1.3	0.00685 mg/L	0.017499	255.54%
QC value within limits for Mo 203.845 Recovery = Not calculated				
Mo 204.597†	-1.5	-0.00689 mg/L	0.007968	115.57%
Na 588.995†	1948.6	0.1327 mg/L	0.10491	79.08%
QC value within limits for Na 588.995 Recovery = Not calculated				
Na 589.592†	22.0	0.00281 mg/L	0.015191	539.73%
Ni 221.648†	-0.9	-0.00079 mg/L	0.003554	447.20%
QC value within limits for Ni 221.648 Recovery = Not calculated				
Ni 231.604†	-7.9	-0.00323 mg/L	0.001728	53.56%
Ni 232.003†	-0.9	-0.00058 mg/L	0.000475	82.01%
Pb 217.000†	-0.9	-0.01214 mg/L	0.033995	280.02%
Pb 220.353†	3.6	0.00938 mg/L	0.006432	68.60%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	-3.5	-0.04308 mg/L	0.028789	66.83%
QC value within limits for Sb 206.836 Recovery = Not calculated				
Sb 217.582†	0.2	0.00116 mg/L	0.006730	581.57%
Se 196.026†	-0.7	-0.02083 mg/L	0.080294	385.39%
QC value within limits for Se 196.026 Recovery = Not calculated				
Se 203.985†	0.1	0.00835 mg/L	0.035219	421.97%
Sn 235.485†	5.1	0.00748 mg/L	0.008413	112.46%
Sn 189.927†	1.7	0.02486 mg/L	0.020917	84.14%
QC value within limits for Sn 189.927 Recovery = Not calculated				
Sr 460.733†	2.7	0.00045 mg/L	0.015458	>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated				
Sr 407.771†	43.5	0.00003 mg/L	0.000056	197.22%
Sr 421.552†	-59.3	-0.00012 mg/L	0.000198	162.24%
Ti 337.279†	-9.6	-0.00023 mg/L	0.000864	369.34%
QC value within limits for Ti 337.279 Recovery = Not calculated				

Ti 334.940†	-0.7	-0.00001 mg/L	0.000261		>999.9%
Ti 336.121†	7.7	0.00018 mg/L	0.000115		64.54%
Tl 351.924†	8.0	0.01098 mg/L	0.042081		383.24%
Tl 190.801†	2.5	0.09896 mg/L	0.034272		34.63%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	15.2	0.03712 mg/L	0.008619		23.22%
V 310.230†	67.0	0.00184 mg/L	0.002735		148.40%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	0.8	-0.00005 mg/L	0.000911		>999.9%
V 311.071†	4.5	0.00022 mg/L	0.000758		345.86%
Zn 206.200†	1.3	0.00134 mg/L	0.001134		84.47%
Zn 213.857†	-2.5	-0.00074 mg/L	0.000424		57.14%
QC value within limits for Zn 213.857 Recovery = Not calculated					
Zn 202.548†	-3.8	-0.00236 mg/L	0.003282		139.19%

All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 11:25:08 AM**
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	166716.5	104.9	%	0.29				0.28%
Ag 328.068†	6880.2	0.2560	mg/L	0.00341				1.33%
QC value within limits for Ag 328.068 Recovery = 102.39%								
Ag 338.289†	2782.3	0.2574	mg/L	0.00236				0.92%
Al 308.215†	1696.1	0.9386	mg/L	0.01266				1.35%
QC value within limits for Al 308.215 Recovery = 93.86%								
Al 394.401†	3916.8	0.9737	mg/L	0.01449				1.49%
Al 396.153†	6705.1	0.9371	mg/L	0.02042				2.18%
As 188.979†	53.1	1.820	mg/L	0.0270				1.49%
As 193.696†	78.2	1.790	mg/L	0.0287				1.60%
QC value less than the lower limit for As 193.696 Recovery = 89.50%								
As 197.197†	39.8	1.717	mg/L	0.0686				3.99%
B 208.889†	227.6	0.9138	mg/L	0.00953				1.04%
B 249.677†	3031.7	1.007	mg/L	0.0065				0.64%
B 249.772†	6730.8	1.013	mg/L	0.0059				0.59%
QC value within limits for B 249.772 Recovery = 101.29%								
Ba 233.527†	6639.6	1.018	mg/L	0.0088				0.86%
QC value within limits for Ba 233.527 Recovery = 101.84%								
Ba 455.403†	358496.7	0.9870	mg/L	0.01782				1.81%
Ba 493.408†	371581.3	0.9771	mg/L	0.01798				1.84%
Be 234.861†	63724.9	0.9688	mg/L	0.00850				0.88%
Be 313.042†	515524.8	0.9643	mg/L	0.01491				1.55%
QC value within limits for Be 313.042 Recovery = 96.43%								
Be 313.107†	267455.8	0.9660	mg/L	0.01597				1.65%
Ca 315.887†	7196.1	0.9750	mg/L	0.01863				1.91%
QC value within limits for Ca 315.887 Recovery = 97.50%								
Ca 317.933†	11774.9	0.9066	mg/L	0.01732				1.91%
Cd 214.440†	3629.1	0.9181	mg/L	0.00366				0.40%
QC value within limits for Cd 214.440 Recovery = 91.81%								
Cd 226.502†	3435.2	0.9175	mg/L	0.00436				0.48%
Cd 228.802†	3352.2	0.8516	mg/L	0.00463				0.54%
Ce 413.380†	4658.8	0.9895	mg/L	0.02103				2.13%
Ce 413.764†	4918.6	0.9677	mg/L	0.01505				1.56%
Ce 418.660†	5365.0	0.9799	mg/L	0.02086				2.13%
Co 228.616†	2118.7	0.9243	mg/L	0.00703				0.76%
Co 230.786†	1774.9	0.9033	mg/L	0.00864				0.96%
Co 238.892†	3757.0	0.9221	mg/L	0.00688				0.75%
QC value within limits for Co 238.892 Recovery = 92.21%								
Cr 205.560†	545.7	0.9325	mg/L	0.00519				0.56%
QC value within limits for Cr 205.560 Recovery = 93.25%								
Cr 267.716†	6418.8	1.029	mg/L	0.0083				0.81%
Cr 283.563†	20487.3	0.9723	mg/L	0.01373				1.41%
Cu 224.700†	956.4	-24.32	mg/L	0.492				2.02%
QC value less than the lower limit for Cu 224.700 Recovery = -2431.68%								
Cu 324.752†	35057.3	0.9711	mg/L	0.01152				1.19%
Cu 327.393†	15325.0	0.9840	mg/L	0.00850				0.86%

Fe 238.204†	8971.7	0.9708	mg/L	0.01498	1.54%
Fe 239.562†	6302.6	1.028	mg/L	0.0081	0.79%
Fe 259.939†	11118.0	0.9703	mg/L	0.01086	1.12%
QC value within limits for Fe 259.939 Recovery = 97.03%					
Fe 273.955†	1786.8	1.052	mg/L	0.0113	1.07%
K 766.490†	21132.8	4.729	mg/L	0.0448	0.95%
QC value within limits for K 766.490 Recovery = 94.57%					
Li 610.362†	10764.8	0.8365	mg/L	0.02129	2.55%
QC value less than the lower limit for Li 610.362 Recovery = 83.65%					
Li 670.784†	102185.7	0.9544	mg/L	0.01859	1.95%
Mg 279.077†	1146.7	1.016	mg/L	0.0054	0.53%
QC value within limits for Mg 279.077 Recovery = 101.61%					
Mg 280.271†	241886.5	0.9330	mg/L	0.01611	1.73%
Mg 285.213†	26343.0	0.9345	mg/L	0.01675	1.79%
Mn 257.610†	49241.4	1.023	mg/L	0.0134	1.31%
Mn 259.372†	67346.4	1.028	mg/L	0.0125	1.22%
Mn 260.568†	27053.6	0.9447	mg/L	0.01301	1.38%
QC value within limits for Mn 260.568 Recovery = 94.47%					
Mo 202.031†	-0.1	-0.00033	mg/L	0.005010	>999.9%
Mo 203.845†	2.8	0.01338	mg/L	0.012013	89.81%
Mo 204.597†	-0.4	-0.00083	mg/L	0.006887	831.17%
Na 588.995†	12335.8	0.8399	mg/L	0.01963	2.34%
Na 589.592†	7769.6	0.9855	mg/L	0.01258	1.28%
Ni 221.648†	1027.9	0.9236	mg/L	0.00805	0.87%
QC value within limits for Ni 221.648 Recovery = 92.36%					
Ni 231.604†	2284.1	0.9320	mg/L	0.00636	0.68%
Ni 232.003†	1186.8	0.8911	mg/L	0.00349	0.39%
Pb 217.000†	149.4	1.941	mg/L	0.0401	2.07%
Pb 220.353†	727.9	1.900	mg/L	0.0110	0.58%
QC value within limits for Pb 220.353 Recovery = 95.01%					
Sb 206.836†	-1.6	-0.03481	mg/L	0.010796	31.02%
Sb 217.582†	2.2	0.01640	mg/L	0.050546	308.25%
Se 196.026†	28.7	0.9038	mg/L	0.06814	7.54%
QC value within limits for Se 196.026 Recovery = 90.38%					
Se 203.985†	28.9	0.8098	mg/L	0.12040	14.87%
Sn 235.485†	93.1	-0.00859	mg/L	0.012483	145.39%
Sn 189.927†	-0.9	-0.01333	mg/L	0.029886	224.27%
Sr 460.733†	5651.1	0.9897	mg/L	0.01387	1.40%
QC value within limits for Sr 460.733 Recovery = 98.97%					
Sr 407.771†	1429868.0	0.9788	mg/L	0.01815	1.85%
Sr 421.552†	474165.9	0.9781	mg/L	0.01796	1.84%
Ti 337.279†	-23.8	-0.00043	mg/L	0.000104	24.17%
Ti 334.940†	13.1	-0.00003	mg/L	0.000297	>999.9%
Ti 336.121†	16.4	0.00002	mg/L	0.000152	970.35%
Tl 351.924†	3325.6	4.579	mg/L	0.0999	2.18%
QC value within limits for Tl 351.924 Recovery = 91.58%					
Tl 190.801†	120.4	4.683	mg/L	0.0516	1.10%
QC value within limits for Tl 190.801 Recovery = 93.65%					
Tl 276.787†	1442.7	3.429	mg/L	0.0074	0.21%
V 310.230†	35002.7	0.9553	mg/L	0.01194	1.25%
QC value within limits for V 310.230 Recovery = 95.53%					
V 292.402†	13474.4	0.9648	mg/L	0.01432	1.48%
V 311.071†	21320.2	0.9650	mg/L	0.01243	1.29%
Zn 206.200†	850.4	0.9019	mg/L	0.01265	1.40%
Zn 213.857†	3189.4	0.9734	mg/L	0.01150	1.18%
QC value within limits for Zn 213.857 Recovery = 97.34%					
Zn 202.548†	1582.5	0.9637	mg/L	0.00656	0.68%

QC Failed. Continue with analysis.

==========

Sequence No.: 4 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 11:26:13 AM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157669.3	99.21	%	2.309				2.33%
Ag 328.068†	1.5	0.00000	mg/L	0.001532				>999.9%
Ag 338.289†	-171.7	-0.00491	mg/L	0.002717				55.36%

Al 308.215†	56.7	0.01058	mg/L	0.015617	147.56%
Al 394.401†	31.2	0.01050	mg/L	0.013867	132.03%
Al 396.153†	391.9	0.02270	mg/L	0.011678	51.44%
As 188.979†	-0.3	-0.00833	mg/L	0.048918	587.12%
As 193.696†	1.9	0.04349	mg/L	0.022695	52.18%
As 197.197†	-3.4	-0.1491	mg/L	0.01773	11.89%
B 208.889†	3.4	0.01370	mg/L	0.010213	74.57%
B 249.677†	63.5	0.02175	mg/L	0.004334	19.93%
B 249.772†	123.4	0.01894	mg/L	0.001354	7.15%
Ba 233.527†	-110.5	-0.01516	mg/L	0.000710	4.68%
Ba 455.403†	-4.6	-0.00001	mg/L	0.000294	>999.9%
Ba 493.408†	40.1	0.00011	mg/L	0.000346	327.72%
Be 234.861†	-9.7	-0.00002	mg/L	0.000119	562.04%
Be 313.042†	77.1	0.00013	mg/L	0.000009	7.20%
Be 313.107†	102.7	0.00016	mg/L	0.000073	44.90%
Ca 315.887†	105.3	0.01324	mg/L	0.001749	13.21%
Ca 317.933†	178.7	0.01376	mg/L	0.001908	13.86%
Cd 214.440†	-12.1	-0.00112	mg/L	0.008089	722.40%
Cd 226.502†	0.7	0.00001	mg/L	0.001719	>999.9%
Cd 228.802†	-0.8	-0.00146	mg/L	0.001098	75.35%
Ce 413.380†	79.1	0.01681	mg/L	0.005453	32.44%
Ce 413.764†	-1.0	0.00242	mg/L	0.023481	971.46%
Ce 418.660†	-64.3	-0.00876	mg/L	0.004436	50.66%
Co 228.616†	-9.7	-0.00562	mg/L	0.000374	6.65%
Co 230.786†	16.5	0.00342	mg/L	0.008416	246.20%
Co 238.892†	-4.7	0.00021	mg/L	0.002002	942.88%
Cr 205.560†	0.5	-0.00011	mg/L	0.004037	>999.9%
Cr 267.716†	12.7	0.00164	mg/L	0.000366	22.33%
Cr 283.563†	20.2	0.00112	mg/L	0.000302	26.89%
Cu 224.700†	6.4	0.01788	mg/L	0.018264	102.17%
Cu 324.752†	10.7	-0.00005	mg/L	0.000943	>999.9%
Cu 327.393†	-19.0	-0.00042	mg/L	0.000593	142.23%
Fe 238.204†	34.2	0.00368	mg/L	0.000319	8.67%
Fe 239.562†	21.0	0.00387	mg/L	0.001953	50.52%
Fe 259.939†	45.7	0.00398	mg/L	0.000833	20.91%
Fe 273.955†	-0.8	0.00229	mg/L	0.005390	235.52%
K 766.490†	255.4	0.05714	mg/L	0.010306	18.04%
Li 610.362†	1501.3	0.1137	mg/L	0.10871	95.63%
Li 670.784†	-55.2	-0.00052	mg/L	0.000651	126.31%
Mg 279.077†	-2.2	0.00216	mg/L	0.011391	526.81%
Mg 280.271†	298.9	0.00115	mg/L	0.000080	6.97%
Mg 285.213†	31.3	0.00111	mg/L	0.000405	36.47%
Mn 257.610†	10.8	0.00022	mg/L	0.000171	76.15%
Mn 259.372†	367.6	0.00072	mg/L	0.000290	40.03%
Mn 260.568†	5.6	0.00020	mg/L	0.000020	10.11%
Mo 202.031†	313.0	0.9741	mg/L	0.02583	2.65%
Mo 203.845†	191.0	0.9897	mg/L	0.02441	2.47%
QC value within limits for Mo 203.845 Recovery = 98.97%					
Mo 204.597†	211.0	0.9805	mg/L	0.01506	1.54%
Na 588.995†	1741.1	0.1185	mg/L	0.10326	87.11%
Na 589.592†	314.7	0.03728	mg/L	0.005225	14.01%
Ni 221.648†	-14.0	-0.01262	mg/L	0.002540	20.12%
Ni 231.604†	1.6	-0.00013	mg/L	0.002378	>999.9%
Ni 232.003†	16.3	0.00692	mg/L	0.004627	66.87%
Pb 217.000†	-5.0	-0.06480	mg/L	0.033316	51.41%
Pb 220.353†	4.8	0.01262	mg/L	0.005621	44.56%
Sb 206.836†	158.2	1.955	mg/L	0.0521	2.66%
QC value within limits for Sb 206.836 Recovery = 97.73%					
Sb 217.582†	272.4	1.995	mg/L	0.0643	3.22%
Se 196.026†	-2.6	-0.08231	mg/L	0.028616	34.76%
Se 203.985†	1.0	-0.08364	mg/L	0.056044	67.00%
Sn 235.485†	1000.8	1.513	mg/L	0.0273	1.80%
Sn 189.927†	339.7	5.113	mg/L	0.0799	1.56%
QC value within limits for Sn 189.927 Recovery = 102.27%					
Sr 460.733†	-0.7	0.00011	mg/L	0.004855	>999.9%
Sr 407.771†	284.2	0.00019	mg/L	0.000152	78.14%
Sr 421.552†	98.2	0.00020	mg/L	0.000229	112.97%
Ti 337.279†	39392.5	0.9561	mg/L	0.03770	3.94%
QC value within limits for Ti 337.279 Recovery = 95.61%					
Ti 334.940†	65499.9	0.9579	mg/L	0.04074	4.25%
Ti 336.121†	41832.7	0.9654	mg/L	0.04213	4.36%

Tl 351.924†	8.1	0.00715	mg/L	0.020007			279.96%
Tl 190.801†	0.4	0.01498	mg/L	0.099670			665.37%
Tl 276.787†	15.5	0.03756	mg/L	0.035350			94.13%
V 310.230†	39.2	0.00066	mg/L	0.002015			306.70%
V 292.402†	-237.2	-0.00257	mg/L	0.001268			49.41%
V 311.071†	339.2	0.00155	mg/L	0.000461			29.83%
Zn 206.200†	3.1	0.00332	mg/L	0.000049			1.49%
Zn 213.857†	2.5	0.00116	mg/L	0.000217			18.73%
Zn 202.548†	-2.0	-0.00123	mg/L	0.000982			79.72%

All analyte(s) passed QC.

==========

Sequence No.: 5 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 11:27:13 AM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159379.9	100.3	%	0.48				0.47%
Ag 328.068†	-62.5	0.00432	mg/L	0.003437				79.64%
Ag 338.289†	37.8	0.00362	mg/L	0.001558				43.03%
Al 308.215†	172825.5	97.88	mg/L	0.965				0.99%
QC value within limits for Al 308.215 Recovery = 97.88%								
Al 394.401†	283361.8	98.61	mg/L	0.970				0.98%
Al 396.153†	681491.8	95.24	mg/L	0.943				0.99%
As 188.979†	-18.7	-0.3516	mg/L	0.09576				27.24%
As 193.696†	6.8	0.1318	mg/L	0.05911				44.85%
As 197.197†	-4.3	-0.00578	mg/L	0.233084				>999.9%
B 208.889†	25.9	0.04492	mg/L	0.021264				47.33%
B 249.677†	67.8	0.00555	mg/L	0.002640				47.55%
B 249.772†	2114.3	0.01035	mg/L	0.006949				67.17%
Ba 233.527†	28.7	-0.00046	mg/L	0.000495				108.07%
Ba 455.403†	-47.4	-0.00013	mg/L	0.000269				206.13%
Ba 493.408†	200.4	-0.00005	mg/L	0.000307				647.13%
Be 234.861†	1064.9	-0.00014	mg/L	0.001049				747.06%
Be 313.042†	-2.9	0.00001	mg/L	0.000056				429.51%
Be 313.107†	-11.9	-0.00004	mg/L	0.000067				179.96%
Ca 315.887†	723894.8	98.38	mg/L	1.120				1.14%
QC value within limits for Ca 315.887 Recovery = 98.38%								
Ca 317.933†	1204420.8	92.79	mg/L	1.202				1.30%
Cd 214.440†	70.9	-0.00333	mg/L	0.007491				224.85%
Cd 226.502†	27.5	-0.00275	mg/L	0.001099				39.97%
Cd 228.802†	4.8	-0.00315	mg/L	0.001411				44.77%
Ce 413.380†	164.3	0.01436	mg/L	0.009878				68.78%
Ce 413.764†	-174.7	-0.00748	mg/L	0.005851				78.20%
Ce 418.660†	23.1	0.01077	mg/L	0.017448				162.02%
Co 228.616†	-0.1	-0.00091	mg/L	0.000991				109.33%
Co 230.786†	235.5	0.00654	mg/L	0.004038				61.70%
Co 238.892†	1407.3	-0.01810	mg/L	0.003115				17.21%
Cr 205.560†	-9.0	-0.01125	mg/L	0.006912				61.44%
Cr 267.716†	10.4	0.00312	mg/L	0.001017				32.61%
Cr 283.563†	2907.9	0.00405	mg/L	0.003295				81.30%
Cu 224.700†	143.2	-0.08419	mg/L	0.021900				26.01%
Cu 324.752†	100.3	-0.00044	mg/L	0.000445				101.58%
Cu 327.393†	12.6	0.00077	mg/L	0.000877				113.42%
Fe 238.204†	880931.0	95.14	mg/L	0.982				1.03%
Fe 239.562†	583878.5	95.47	mg/L	1.094				1.15%
Fe 259.939†	1093539.8	95.44	mg/L	1.028				1.08%
Fe 273.955†	174254.3	103.4	mg/L	1.24				1.20%
QC value within limits for Fe 273.955 Recovery = 103.41%								
K 766.490†	421317.3	94.27	mg/L	0.702				0.74%
QC value within limits for K 766.490 Recovery = 94.27%								
Li 610.362†	1215.2	-0.08520	mg/L	0.019103				22.42%
Li 670.784†	264.3	0.00247	mg/L	0.000932				37.74%
Mg 279.077†	67183.2	59.35	mg/L	0.479				0.81%
QC value within limits for Mg 279.077 Recovery = 98.92%								
Mg 280.271†	14365080.4	55.46	mg/L	1.227				2.21%
Mg 285.213†	1552807.6	54.98	mg/L	0.665				1.21%
Mn 257.610†	110.5	0.00033	mg/L	0.000215				65.29%

Mn 259.372†	6982.2	-0.00601	mg/L	0.000289			4.81%
Mn 260.568†	156.9	-0.00046	mg/L	0.000705			152.79%
Mo 202.031†	1.0	0.00970	mg/L	0.010212			105.32%
Mo 203.845†	37.4	0.1423	mg/L	0.01165			8.19%
Mo 204.597†	-8.3	-0.01995	mg/L	0.021923			109.87%
Na 588.995†	1420970.5	96.74	mg/L	0.875			0.90%
Na 589.592†	767939.2	97.41	mg/L	0.915			0.94%
QC value within limits for Na 589.592 Recovery = 97.41%							
Ni 221.648†	5.7	-0.00154	mg/L	0.006196			401.63%
Ni 231.604†	17.7	0.00440	mg/L	0.002496			56.70%
Ni 232.003†	-114.4	-0.00508	mg/L	0.003596			70.86%
Pb 217.000†	20.4	-0.09126	mg/L	0.024752			27.12%
Pb 220.353†	5.6	0.03492	mg/L	0.001299			3.72%
Sb 206.836†	-4.0	-0.04994	mg/L	0.009676			19.37%
Sb 217.582†	4.2	0.03089	mg/L	0.024595			79.62%
Se 196.026†	-0.4	-0.01378	mg/L	0.035733			259.27%
Se 203.985†	-53.9	-1.553	mg/L	0.1767			11.38%
Sn 235.485†	9910.4	-0.8008	mg/L	0.32441			40.51%
Saturated within auto integration window (code 4)							
Sn 189.927†	-15.3	-0.1626	mg/L	0.04442			27.32%
Sr 460.733†	129.1	0.02747	mg/L	0.012571			45.77%
Sr 407.771†	1869.2	0.00019	mg/L	0.000085			44.16%
Sr 421.552†	598.4	0.00123	mg/L	0.000100			8.14%
Ti 337.279†	-29.1	-0.00031	mg/L	0.001049			340.15%
Ti 334.940†	-845.3	-0.00138	mg/L	0.000363			26.25%
Ti 336.121†	-91.5	0.00009	mg/L	0.000202			213.45%
Tl 351.924†	-0.4	-0.01839	mg/L	0.023435			127.42%
Tl 190.801†	10.6	0.2179	mg/L	0.09163			42.05%
Tl 276.787†	2948.5	2.944	mg/L	0.0975			3.31%
V 310.230†	-212.6	-0.00581	mg/L	0.001253			21.56%
V 292.402†	256.8	-0.00310	mg/L	0.001161			37.51%
V 311.071†	-343.2	-0.01756	mg/L	0.000397			2.26%
Zn 206.200†	18.7	0.01181	mg/L	0.001009			8.55%
Zn 213.857†	145.1	0.02336	mg/L	0.001190			5.09%
Zn 202.548†	31.4	0.01573	mg/L	0.001830			11.63%

All analyte(s) passed QC.

==========

Sequence No.: 6 **Autosampler Location: 10**
Sample ID: blank **Date Collected: 10/26/2009 11:28:24 AM**
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156139.4	98.25	%	0.213				0.22%
Ag 328.068†	17.9	0.00068	mg/L	0.000914				134.95%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-3.0	-0.00031	mg/L	0.002841				931.20%
Al 308.215†	54.7	0.03085	mg/L	0.006882				22.31%
Al 394.401†	85.3	0.02795	mg/L	0.020719				74.12%
Al 396.153†	289.3	0.04033	mg/L	0.011480				28.46%
As 188.979†	-1.3	-0.04431	mg/L	0.051737				116.75%
As 193.696†	1.1	0.02438	mg/L	0.070068				287.34%
As 197.197†	-1.5	-0.06595	mg/L	0.029028				44.02%
B 208.889†	0.8	0.00311	mg/L	0.010364				332.88%
B 249.677†	-2.5	-0.00082	mg/L	0.002935				356.99%
B 249.772†	-0.2	-0.00006	mg/L	0.001153				>999.9%
Ba 233.527†	-1.7	-0.00026	mg/L	0.000274				106.68%
Ba 455.403†	18.3	0.00005	mg/L	0.000065				129.27%
Ba 493.408†	48.1	0.00013	mg/L	0.000135				106.73%
Be 234.861†	-0.1	0.00000	mg/L	0.000188				>999.9%
Be 313.042†	18.7	0.00003	mg/L	0.000011				36.33%
Be 313.107†	20.4	0.00007	mg/L	0.000020				27.54%
Ca 315.887†	355.1	0.04825	mg/L	0.006285				13.03%
Ca 317.933†	596.4	0.04595	mg/L	0.006956				15.14%
Cd 214.440†	6.5	0.00166	mg/L	0.006976				419.45%
Cd 226.502†	-5.3	-0.00143	mg/L	0.000411				28.75%
Cd 228.802†	2.0	-0.00017	mg/L	0.001148				689.98%
Ce 413.380†	-2.4	-0.00052	mg/L	0.004675				901.17%

Ce 413.764†	21.6	0.00426	mg/L	0.022438	526.78%
Ce 418.660†	33.6	0.00614	mg/L	0.008003	130.27%
Co 228.616†	-0.1	-0.00004	mg/L	0.000880	>999.9%
Co 230.786†	13.5	0.00689	mg/L	0.001434	20.82%
Co 238.892†	-0.3	-0.00011	mg/L	0.000509	450.24%
Cr 205.560†	-2.2	-0.00383	mg/L	0.000867	22.66%
Cr 267.716†	2.4	0.00039	mg/L	0.001485	380.43%
Cr 283.563†	4.6	0.00020	mg/L	0.001053	525.65%
Cu 224.700†	2.8	-0.07533	mg/L	0.007640	10.14%
Cu 324.752†	-9.6	-0.00027	mg/L	0.000733	275.63%
Cu 327.393†	-11.9	-0.00076	mg/L	0.001379	180.87%
Fe 238.204†	120.8	0.01304	mg/L	0.007624	58.45%
Fe 239.562†	78.9	0.01291	mg/L	0.006620	51.28%
Fe 259.939†	140.7	0.01228	mg/L	0.006357	51.75%
Fe 273.955†	19.6	0.01162	mg/L	0.010196	87.78%
K 766.490†	275.4	0.06163	mg/L	0.031489	51.10%
Li 610.362†	2293.6	0.1804	mg/L	0.00468	2.59%
Li 670.784†	315.6	0.00295	mg/L	0.000171	5.80%
Mg 279.077†	9.0	0.00797	mg/L	0.007564	94.93%
Mg 280.271†	2530.4	0.00977	mg/L	0.005506	56.37%
Mg 285.213†	230.3	0.00816	mg/L	0.003476	42.61%
Mn 257.610†	3.1	0.00006	mg/L	0.000176	272.77%
Mn 259.372†	11.5	0.00015	mg/L	0.000166	111.84%
Mn 260.568†	1.2	0.00004	mg/L	0.000212	506.89%
Mo 202.031†	0.3	0.00095	mg/L	0.003343	352.50%
Mo 203.845†	2.8	0.01460	mg/L	0.013721	93.98%
Mo 204.597†	0.6	0.00299	mg/L	0.009128	305.52%
Na 588.995†	2523.6	0.1718	mg/L	0.02404	13.99%
Na 589.592†	161.1	0.02043	mg/L	0.016657	81.55%
Ni 221.648†	-2.3	-0.00206	mg/L	0.003468	168.08%
Ni 231.604†	-0.6	-0.00023	mg/L	0.003038	>999.9%
Ni 232.003†	1.5	0.00115	mg/L	0.003304	286.86%
Pb 217.000†	-3.1	-0.04025	mg/L	0.046527	115.60%
Pb 220.353†	2.3	0.00601	mg/L	0.001458	24.25%
Sb 206.836†	-3.8	-0.04748	mg/L	0.022125	46.60%
Sb 217.582†	-0.6	-0.00428	mg/L	0.015560	363.39%
Se 196.026†	-0.8	-0.02546	mg/L	0.018154	71.30%
Se 203.985†	-1.8	-0.07106	mg/L	0.061493	86.54%
Sn 235.485†	0.9	-0.00030	mg/L	0.002634	889.15%
Sn 189.927†	1.1	0.01688	mg/L	0.016316	96.64%
Sr 460.733†	-93.1	-0.01638	mg/L	0.008121	49.57%
Sr 407.771†	361.7	0.00025	mg/L	0.000106	43.14%
Sr 421.552†	122.6	0.00025	mg/L	0.000065	25.67%
Ti 337.279†	-0.2	0.00000	mg/L	0.000644	>999.9%
Ti 334.940†	11.1	0.00017	mg/L	0.000233	139.22%
Ti 336.121†	11.9	0.00028	mg/L	0.000412	146.84%
Tl 351.924†	14.2	0.01952	mg/L	0.019296	98.86%
Tl 190.801†	-0.7	-0.02570	mg/L	0.092358	359.34%
Tl 276.787†	18.5	0.04420	mg/L	0.017179	38.87%
V 310.230†	76.6	0.00212	mg/L	0.000884	41.68%
V 292.402†	-1.9	-0.00009	mg/L	0.001427	>999.9%
V 311.071†	6.2	0.00028	mg/L	0.000963	345.42%
Zn 206.200†	1.8	0.00190	mg/L	0.003638	191.45%
Zn 213.857†	2.6	0.00079	mg/L	0.001220	154.27%
Zn 202.548†	-2.4	-0.00145	mg/L	0.001578	108.56%

All analyte(s) passed QC.

==========

Sequence No.: 7
Sample ID: blank

Initial Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 201
Date Collected: 10/26/2009 11:29:24 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158700.4	99.86	%	1.512				1.51%
Ag 328.068†	8.9	0.00033	mg/L	0.001791	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	2.2	0.00023	mg/L	0.001366	0.00000	mg/kg	0.000000	0.00%

Al 308.215†	23.4	0.01330	mg/L	0.002866	0.000	mg/kg	0.0000	0.00%
Al 394.401†	20.0	0.00645	mg/L	0.006710	0.000	mg/kg	0.0000	0.00%
Al 396.153†	108.0	0.01518	mg/L	0.017844	0.00000	mg/kg	0.000000	0.00%
As 188.979†	-0.1	-0.00256	mg/L	0.047348	0.00000	mg/kg	0.000000	0.00%
As 193.696†	0.6	0.01484	mg/L	0.031771	0.00000	mg/kg	0.000000	0.00%
As 197.197†	0.4	0.01688	mg/L	0.052310	0.00000	mg/kg	0.000000	0.00%
B 208.889†	0.6	0.00240	mg/L	0.003385	0.00000	mg/kg	0.000000	0.00%
B 249.677†	0.5	0.00017	mg/L	0.005132	0.00000	mg/kg	0.000000	0.00%
B 249.772†	-4.1	-0.00065	mg/L	0.000753	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	-3.3	-0.00051	mg/L	0.000270	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	-81.2	-0.00022	mg/L	0.000203	0.00000	mg/kg	0.000000	0.00%
Ba 493.408†	73.0	0.00019	mg/L	0.000052	0.000	mg/kg	0.0000	0.00%
Be 234.861†	5.8	0.00009	mg/L	0.000104	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	11.3	0.00002	mg/L	0.000034	0.00000	mg/kg	0.000000	0.00%
Be 313.107†	-6.3	-0.00002	mg/L	0.000066	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	85.3	0.01160	mg/L	0.001499	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	163.6	0.01261	mg/L	0.001091	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	6.0	0.00152	mg/L	0.000649	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	-0.4	-0.00010	mg/L	0.001617	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	1.8	0.00006	mg/L	0.000485	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	-51.7	-0.01099	mg/L	0.002151	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	6.3	0.00125	mg/L	0.011660	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	7.2	0.00132	mg/L	0.016430	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-3.2	-0.00142	mg/L	0.001528	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	5.5	0.00282	mg/L	0.004796	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	-0.4	-0.00013	mg/L	0.000243	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	0.3	0.00046	mg/L	0.005054	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	-4.1	-0.00066	mg/L	0.001339	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	-2.8	-0.00015	mg/L	0.000402	0.00000	mg/kg	0.000000	0.00%
Cu 224.700†	2.0	-0.02752	mg/L	0.050243	0.00000	mg/kg	0.000000	0.00%
Cu 324.752†	-12.8	-0.00035	mg/L	0.000877	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	8.6	0.00055	mg/L	0.000388	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	56.7	0.00612	mg/L	0.000507	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	33.9	0.00554	mg/L	0.000618	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	76.2	0.00665	mg/L	0.000194	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	18.0	0.01071	mg/L	0.004460	0.000	mg/kg	0.0000	0.00%
K 766.490†	134.6	0.03012	mg/L	0.022102	0.000	mg/kg	0.0000	0.00%
Li 610.362†	930.1	0.07316	mg/L	0.061812	0.000	mg/kg	0.0000	0.00%
Li 670.784†	119.0	0.00111	mg/L	0.001987	0.00000	mg/kg	0.000000	0.00%
Mg 279.077†	7.9	0.00698	mg/L	0.010026	0.00000	mg/kg	0.000000	0.00%
Mg 280.271†	965.4	0.00373	mg/L	0.000270	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	113.0	0.00400	mg/L	0.000147	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	12.5	0.00026	mg/L	0.000197	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	9.6	0.00015	mg/L	0.000111	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	-2.4	-0.00008	mg/L	0.000293	0.00000	mg/kg	0.000000	0.00%
Mo 202.031†	-1.0	-0.00325	mg/L	0.003832	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	0.1	0.00033	mg/L	0.014752	0.00000	mg/kg	0.000000	0.00%
Mo 204.597†	-0.5	-0.00247	mg/L	0.001140	0.000	mg/kg	0.0000	0.00%
Na 588.995†	699.9	0.04765	mg/L	0.055218	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-24.9	-0.00315	mg/L	0.006171	0.00000	mg/kg	0.000000	0.00%
Ni 221.648†	-5.7	-0.00515	mg/L	0.001488	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	0.1	0.00004	mg/L	0.003707	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	5.5	0.00433	mg/L	0.004145	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	-2.4	-0.03070	mg/L	0.039688	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	2.1	0.00548	mg/L	0.020772	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-1.7	-0.02156	mg/L	0.015784	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	-0.7	-0.00515	mg/L	0.033456	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-1.1	-0.03585	mg/L	0.057542	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	-1.0	-0.04248	mg/L	0.056108	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	-1.7	-0.00425	mg/L	0.005001	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	1.5	0.02228	mg/L	0.027987	0.00000	mg/kg	0.000000	0.00%
Sr 460.733†	-39.9	-0.00702	mg/L	0.009641	0.00000	mg/kg	0.000000	0.00%
Sr 407.771†	74.3	0.00005	mg/L	0.000065	0.00000	mg/kg	0.000000	0.00%
Sr 421.552†	7.3	0.00002	mg/L	0.000063	0.00000	mg/kg	0.000000	0.00%
Ti 337.279†	77.2	0.00187	mg/L	0.001629	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	4.3	0.00006	mg/L	0.000208	0.00000	mg/kg	0.000000	0.00%
Ti 336.121†	19.9	0.00046	mg/L	0.000293	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	-6.6	-0.00957	mg/L	0.018257	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	0.5	0.02126	mg/L	0.046890	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	20.4	0.04868	mg/L	0.019650	0.000	mg/kg	0.0000	0.00%
V 310.230†	-25.0	-0.00067	mg/L	0.001694	0.00000	mg/kg	0.000000	0.00%

V 292.402†	-6.0	-0.00047	mg/L	0.001050	0.00000	mg/kg	0.000000	0.00%
V 311.071†	-3.5	-0.00016	mg/L	0.000872	0.00000	mg/kg	0.000000	0.00%
Zn 206.200†	4.3	0.00462	mg/L	0.001968	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	2.2	0.00068	mg/L	0.000762	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	-0.6	-0.00034	mg/L	0.001848	0.00000	mg/kg	0.000000	0.00%

Sequence No.: 8
Sample ID: RLC

Autosampler Location: 401
Date Collected: 10/26/2009 11:30:27 AM
Data Type: Original

Initial Sample Wt: 0 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: RLC

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157217.2	98.93	%	0.493				0.50%
Ag 328.068†	25.7	0.00106	mg/L	0.001105	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	16.6	0.00167	mg/L	0.000748	0.000	mg/kg	0.0000	0.00%
Al 308.215†	999.8	0.5633	mg/L	0.00993	0.000	mg/kg	0.0000	0.00%
Al 394.401†	1773.0	0.6133	mg/L	0.01520	0.000	mg/kg	0.0000	0.00%
Al 396.153†	3814.7	0.5294	mg/L	0.01181	0.000	mg/kg	0.0000	0.00%
As 188.979†	14.1	0.4837	mg/L	0.05350	0.000	mg/kg	0.0000	0.00%
As 193.696†	24.4	0.5599	mg/L	0.02631	0.000	mg/kg	0.0000	0.00%
As 197.197†	11.2	0.4883	mg/L	0.15054	0.000	mg/kg	0.0000	0.00%
B 208.889†	15.9	0.06317	mg/L	0.006979	0.000	mg/kg	0.0000	0.00%
B 249.677†	167.7	0.05557	mg/L	0.003313	0.000	mg/kg	0.0000	0.00%
B 249.772†	375.0	0.05304	mg/L	0.001119	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	21.4	0.00342	mg/L	0.000218	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1910.0	0.00526	mg/L	0.000174	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	2010.7	0.00528	mg/L	0.000236	0.000	mg/kg	0.0000	0.00%
Be 234.861†	362.1	0.00533	mg/L	0.000032	0.000	mg/kg	0.0000	0.00%
Be 313.042†	3232.8	0.00598	mg/L	0.000066	0.000	mg/kg	0.0000	0.00%
Be 313.107†	1664.8	0.00601	mg/L	0.000039	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	4905.2	0.6663	mg/L	0.00528	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	7166.9	0.5521	mg/L	0.02887	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	55.1	0.01380	mg/L	0.009679	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	42.1	0.01113	mg/L	0.001514	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	93.3	0.00908	mg/L	0.001603	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	18.0	0.00359	mg/L	0.007294	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	42.5	0.00872	mg/L	0.006637	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	-27.2	-0.00459	mg/L	0.014917	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	113.5	0.04950	mg/L	0.000857	0.000	mg/kg	0.0000	0.00%
Co 230.786†	115.0	0.05708	mg/L	0.001927	0.000	mg/kg	0.0000	0.00%
Co 238.892†	223.1	0.05086	mg/L	0.001609	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	7.0	0.01185	mg/L	0.007377	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	76.8	0.01230	mg/L	0.001878	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	271.5	0.01134	mg/L	0.000662	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	56.7	-1.374	mg/L	0.0797	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	1775.6	0.04909	mg/L	0.003276	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	953.8	0.06135	mg/L	0.000402	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	9978.0	1.078	mg/L	0.0414	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	7252.5	1.186	mg/L	0.0093	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	12384.6	1.081	mg/L	0.0424	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	2038.2	1.209	mg/L	0.0075	0.000	mg/kg	0.0000	0.00%
K 766.490†	2329.0	0.5211	mg/L	0.00725	0.000	mg/kg	0.0000	0.00%
Li 610.362†	2184.3	0.1701	mg/L	0.01514	0.000	mg/kg	0.0000	0.00%
Li 670.784†	5775.0	0.05394	mg/L	0.002946	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	657.3	0.5811	mg/L	0.01627	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	139252.1	0.5376	mg/L	0.02096	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	14223.2	0.5037	mg/L	0.02397	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	286.9	0.00595	mg/L	0.000119	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	517.5	0.00604	mg/L	0.000177	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	157.9	0.00541	mg/L	0.000379	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	32.7	0.1020	mg/L	0.00153	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	24.1	0.1244	mg/L	0.00720	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	23.7	0.1104	mg/L	0.01351	0.000	mg/kg	0.0000	0.00%
Na 588.995†	9184.3	0.6253	mg/L	0.02601	0.000	mg/kg	0.0000	0.00%
Na 589.592†	4261.3	0.5402	mg/L	0.02596	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	54.9	0.04929	mg/L	0.003600	0.000	mg/kg	0.0000	0.00%

Ni 231.604†	121.9	0.04953	mg/L	0.004440	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	65.9	0.05155	mg/L	0.003066	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	6.8	0.08529	mg/L	0.040186	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	39.0	0.1018	mg/L	0.01106	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	40.5	0.5007	mg/L	0.04301	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	74.7	0.5473	mg/L	0.01416	0.000	mg/kg	0.0000	0.00%
Se 196.026†	35.6	1.120	mg/L	0.0500	0.000	mg/kg	0.0000	0.00%
Se 203.985†	22.3	0.9075	mg/L	0.05591	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	222.4	0.1512	mg/L	0.00287	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	35.2	0.5309	mg/L	0.01588	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	3.2	0.00054	mg/L	0.002326	0.00000	mg/kg	0.000000	0.00%
Sr 407.771†	7961.8	0.00544	mg/L	0.000132	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	2548.5	0.00526	mg/L	0.000089	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	417.4	0.01014	mg/L	0.000943	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	776.8	0.01144	mg/L	0.000234	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	486.6	0.01124	mg/L	0.000541	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	808.5	1.150	mg/L	0.0317	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	28.2	1.099	mg/L	0.0962	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	376.6	0.8686	mg/L	0.01873	0.000	mg/kg	0.0000	0.00%
V 310.230†	1446.7	0.03950	mg/L	0.002471	0.000	mg/kg	0.0000	0.00%
V 292.402†	770.6	0.05669	mg/L	0.001926	0.000	mg/kg	0.0000	0.00%
V 311.071†	1277.8	0.05741	mg/L	0.000274	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	193.7	0.2056	mg/L	0.00194	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	714.2	0.2188	mg/L	0.00060	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	357.3	0.2191	mg/L	0.00274	0.000	mg/kg	0.0000	0.00%

Sequence No.: 9
Sample ID: RLC Ag

Autosampler Location: 402
Date Collected: 10/26/2009 11:31:30 AM
Data Type: Original

Initial Sample Wt: 0 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: RLC Ag

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157321.2	98.99	%	0.870				0.88%
Ag 328.068†	332.0	0.01214	mg/L	0.000576	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	104.9	0.01021	mg/L	0.000565	0.000	mg/kg	0.0000	0.00%
Al 308.215†	39.4	0.02216	mg/L	0.009392	0.000	mg/kg	0.0000	0.00%
Al 394.401†	55.3	0.01589	mg/L	0.010954	0.000	mg/kg	0.0000	0.00%
Al 396.153†	197.0	0.02734	mg/L	0.006946	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.4	-0.04823	mg/L	0.054891	0.00000	mg/kg	0.000000	0.00%
As 193.696†	2.0	0.04449	mg/L	0.016189	0.000	mg/kg	0.0000	0.00%
As 197.197†	-0.2	-0.00995	mg/L	0.039311	0.00000	mg/kg	0.000000	0.00%
B 208.889†	2.5	0.01007	mg/L	0.012908	0.00000	mg/kg	0.000000	0.00%
B 249.677†	7.7	0.00256	mg/L	0.001001	0.000	mg/kg	0.0000	0.00%
B 249.772†	9.5	0.00139	mg/L	0.000777	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	15.5	0.00239	mg/L	0.001535	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1131.1	0.00311	mg/L	0.000302	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	1179.8	0.00310	mg/L	0.000205	0.000	mg/kg	0.0000	0.00%
Be 234.861†	5.4	0.00008	mg/L	0.000149	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	12.8	0.00002	mg/L	0.000017	0.000	mg/kg	0.0000	0.00%
Be 313.107†	11.5	0.00004	mg/L	0.000027	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	937.8	0.1274	mg/L	0.00233	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	1569.2	0.1209	mg/L	0.00250	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-11.3	-0.00284	mg/L	0.008444	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	2.9	0.00078	mg/L	0.000447	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	0.9	-0.00105	mg/L	0.000757	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-27.4	-0.00582	mg/L	0.013801	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	41.7	0.00821	mg/L	0.016609	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	4.1	0.00076	mg/L	0.012190	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	1.3	0.00058	mg/L	0.000446	0.000	mg/kg	0.0000	0.00%
Co 230.786†	7.0	0.00352	mg/L	0.004889	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	-4.2	-0.00108	mg/L	0.001210	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	-0.5	-0.00078	mg/L	0.002446	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	-1.7	-0.00027	mg/L	0.001649	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	20.4	0.00095	mg/L	0.000303	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	5.0	-0.06209	mg/L	0.032590	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	0.5	0.00001	mg/L	0.000810	0.00000	mg/kg	0.000000	0.00%

Cu 327.393†	7.8	0.00050	mg/L	0.001026	0.00000	mg/kg	0.000000	0.00%
Fe 238.204†	95.9	0.01036	mg/L	0.000203	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	71.2	0.01164	mg/L	0.001486	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	132.7	0.01158	mg/L	0.000895	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	20.6	0.01221	mg/L	0.003292	0.000	mg/kg	0.0000	0.00%
K 766.490†	8.6	0.00193	mg/L	0.033056	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1693.2	0.1331	mg/L	0.03596	0.000	mg/kg	0.0000	0.00%
Li 670.784†	271.2	0.00253	mg/L	0.001185	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	-3.6	-0.00317	mg/L	0.002872	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	854.1	0.00330	mg/L	0.000182	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	98.6	0.00349	mg/L	0.000741	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	13.2	0.00027	mg/L	0.000080	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	19.7	0.00027	mg/L	0.000130	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	9.4	0.00033	mg/L	0.000183	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-1.3	-0.00391	mg/L	0.005993	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	3.7	0.01896	mg/L	0.013455	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	1.0	0.00460	mg/L	0.004869	0.000	mg/kg	0.0000	0.00%
Na 588.995†	2208.6	0.1504	mg/L	0.02348	0.000	mg/kg	0.0000	0.00%
Na 589.592†	514.5	0.06524	mg/L	0.010903	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	0.0	0.00004	mg/L	0.002609	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	3.8	0.00156	mg/L	0.002699	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	3.4	0.00264	mg/L	0.004930	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	-4.2	-0.05444	mg/L	0.027566	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	-0.6	-0.00149	mg/L	0.008533	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-2.3	-0.02791	mg/L	0.024518	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	-0.4	-0.00273	mg/L	0.013439	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-1.7	-0.05440	mg/L	0.104327	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	0.9	0.03949	mg/L	0.035467	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	1.4	0.00036	mg/L	0.009767	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	1.3	0.01902	mg/L	0.006444	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	-123.1	-0.02167	mg/L	0.012271	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	513.6	0.00035	mg/L	0.000065	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	109.4	0.00023	mg/L	0.000065	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	-21.4	-0.00052	mg/L	0.001223	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	-15.4	-0.00021	mg/L	0.000209	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	11.3	0.00027	mg/L	0.000511	0.00000	mg/kg	0.000000	0.00%
Tl 351.924†	6.8	0.00833	mg/L	0.023793	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	0.3	0.01045	mg/L	0.039569	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	12.2	0.02980	mg/L	0.034899	0.00000	mg/kg	0.000000	0.00%
V 310.230†	18.5	0.00054	mg/L	0.001121	0.00000	mg/kg	0.000000	0.00%
V 292.402†	-6.7	-0.00041	mg/L	0.000979	0.00000	mg/kg	0.000000	0.00%
V 311.071†	-7.9	-0.00035	mg/L	0.001111	0.00000	mg/kg	0.000000	0.00%
Zn 206.200†	11.6	0.01227	mg/L	0.001973	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	27.7	0.00848	mg/L	0.000617	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	15.4	0.00948	mg/L	0.000979	0.000	mg/kg	0.0000	0.00%

Sequence No.: 10
Sample ID: AsTi

Autosampler Location: 403
Date Collected: 10/26/2009 11:32:31 AM
Data Type: Original

Initial Sample Wt: 0 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: AsTi

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162730.0	102.4	%	0.85				0.83%
Ag 328.068†	10.6	-0.00030	mg/L	0.003750	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-6644.7	-0.06454	mg/L	0.013975	0.000	mg/kg	0.0000	0.00%
Al 308.215†	248.4	0.02121	mg/L	0.008660	0.000	mg/kg	0.0000	0.00%
Al 394.401†	119.4	0.07398	mg/L	0.010072	0.000	mg/kg	0.0000	0.00%
Al 396.153†	281.4	0.03933	mg/L	0.002923	0.000	mg/kg	0.0000	0.00%
As 188.979†	1415.3	48.54	mg/L	0.337	0.000	mg/kg	0.0000	0.00%
As 193.696†	2066.1	47.30	mg/L	0.211	0.000	mg/kg	0.0000	0.00%
As 197.197†	1053.2	46.04	mg/L	0.081	0.000	mg/kg	0.0000	0.00%
B 208.889†	-1.5	-0.00586	mg/L	0.010267	0.00000	mg/kg	0.000000	0.00%
B 249.677†	15.1	0.00480	mg/L	0.002903	0.000	mg/kg	0.0000	0.00%
B 249.772†	-5.0	-0.00053	mg/L	0.001442	0.00000	mg/kg	0.000000	0.00%
Ba 233.527†	-28.8	0.00053	mg/L	0.000730	0.00000	mg/kg	0.000000	0.00%
Ba 455.403†	-50.7	-0.00014	mg/L	0.000286	0.00000	mg/kg	0.000000	0.00%

Ba 493.408†	146.0	0.00038	mg/L	0.000284	0.000	mg/kg	0.0000	0.00%
Be 234.861†	12.3	0.00020	mg/L	0.000101	0.000	mg/kg	0.0000	0.00%
Be 313.042†	196.4	-0.00027	mg/L	0.000048	0.000	mg/kg	0.0000	0.00%
Be 313.107†	2767.6	-0.00051	mg/L	0.000348	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	498.0	0.06742	mg/L	0.001258	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	687.5	0.05298	mg/L	0.000142	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-359.4	0.00755	mg/L	0.009799	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	27.7	0.00033	mg/L	0.000760	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	5315.4	0.07705	mg/L	0.004868	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	85.6	0.01820	mg/L	0.009565	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	-643.7	0.00592	mg/L	0.014770	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	24.1	0.00440	mg/L	0.002555	0.000	mg/kg	0.0000	0.00%
Co 228.616†	182.7	-0.00047	mg/L	0.001988	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	18.7	-0.01880	mg/L	0.002856	0.000	mg/kg	0.0000	0.00%
Co 238.892†	-32.4	-0.00074	mg/L	0.000652	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	5.9	0.01001	mg/L	0.004558	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-5.3	-0.00085	mg/L	0.001237	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	3.0	0.00038	mg/L	0.000507	0.00000	mg/kg	0.000000	0.00%
Cu 224.700†	15.1	-0.04598	mg/L	0.012442	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-331.8	-0.00110	mg/L	0.001124	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	130.4	0.00105	mg/L	0.002589	0.00000	mg/kg	0.000000	0.00%
Fe 238.204†	226.3	0.02461	mg/L	0.001420	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	152.6	0.02474	mg/L	0.000893	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	215.3	0.01879	mg/L	0.000658	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	-120.5	0.04232	mg/L	0.000591	0.000	mg/kg	0.0000	0.00%
K 766.490†	256.1	0.05731	mg/L	0.022015	0.000	mg/kg	0.0000	0.00%
Li 610.362†	-174.2	-0.2373	mg/L	0.05369	0.000	mg/kg	0.0000	0.00%
Li 670.784†	196.8	0.00184	mg/L	0.000600	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	-1.7	-0.00125	mg/L	0.018761	0.00000	mg/kg	0.000000	0.00%
Mg 280.271†	1558.8	0.00603	mg/L	0.000067	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	169.4	0.00598	mg/L	0.000408	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	18.0	0.00037	mg/L	0.000087	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	226.1	0.00025	mg/L	0.000044	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	5.3	0.00013	mg/L	0.000113	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.7	-0.00218	mg/L	0.002129	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	4.8	0.02481	mg/L	0.019773	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-0.1	-0.00052	mg/L	0.002117	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	544.9	0.03710	mg/L	0.050093	0.00000	mg/kg	0.000000	0.00%
Na 589.592†	672.4	0.08529	mg/L	0.009011	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	-1.3	-0.00117	mg/L	0.002003	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	-2.4	-0.00111	mg/L	0.003962	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	-1.0	-0.00088	mg/L	0.000537	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	-0.7	-0.00966	mg/L	0.013886	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	2.5	0.00653	mg/L	0.005053	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	6.0	-0.02876	mg/L	0.015223	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	-2.8	-0.02025	mg/L	0.028049	0.000	mg/kg	0.0000	0.00%
Se 196.026†	-1.5	-0.04782	mg/L	0.042843	0.000	mg/kg	0.0000	0.00%
Se 203.985†	0.2	0.00621	mg/L	0.050432	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	-285.5	0.04467	mg/L	0.011986	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	-3.7	-0.05506	mg/L	0.019080	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	66.7	0.02384	mg/L	0.024278	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	399.6	0.00033	mg/L	0.000016	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	3.2	0.00001	mg/L	0.000036	0.00000	mg/kg	0.000000	0.00%
Ti 337.279†	2011050.1	48.81	mg/L	1.408	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	3330488.7	48.70	mg/L	1.390	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	2113396.5	48.77	mg/L	1.371	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	79.2	-0.04717	mg/L	0.033007	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	2.4	0.09451	mg/L	0.083553	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	29.6	0.06850	mg/L	0.015798	0.000	mg/kg	0.0000	0.00%
V 310.230†	-563.0	-0.01209	mg/L	0.001980	0.000	mg/kg	0.0000	0.00%
V 292.402†	606.3	0.00050	mg/L	0.001105	0.00000	mg/kg	0.000000	0.00%
V 311.071†	14029.8	0.02830	mg/L	0.008558	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	7.9	0.00843	mg/L	0.003532	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	-40.3	0.00744	mg/L	0.001005	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	13.0	0.00807	mg/L	0.001164	0.000	mg/kg	0.0000	0.00%

Sequence No.: 11
Sample ID: AlFe

Autosampler Location: 404
Date Collected: 10/26/2009 11:33:37 AM
Data Type: Original

Initial Sample Wt: 0 g

Dilution: 1X Sample Prep Vol: 50 mL

Mean Data: AlFe

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162451.0	102.2	%	1.29				1.26%
Ag 328.068†	-322.9	0.00182	mg/L	0.003301	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	6.4	0.00099	mg/L	0.001938	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	340183.8	192.7	mg/L	0.89	0.000	mg/kg	0.0000	0.00%
Al 394.401†	594430.3	206.9	mg/L	1.03	0.000	mg/kg	0.0000	0.00%
Al 396.153†	1423480.3	199.0	mg/L	0.84	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.6	-0.05398	mg/L	0.050070	0.000	mg/kg	0.0000	0.00%
As 193.696†	-3.4	0.08692	mg/L	0.033756	0.000	mg/kg	0.0000	0.00%
As 197.197†	2.2	0.09801	mg/L	0.070879	0.000	mg/kg	0.0000	0.00%
B 208.889†	7.3	-0.02554	mg/L	0.022918	0.000	mg/kg	0.0000	0.00%
B 249.677†	115.9	0.00363	mg/L	0.006228	0.00000	mg/kg	0.000000	0.00%
B 249.772†	4568.9	0.05452	mg/L	0.020110	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	68.9	0.00073	mg/L	0.000280	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	-35.8	-0.00010	mg/L	0.000102	0.00000	mg/kg	0.000000	0.00%
Ba 493.408†	551.8	0.00027	mg/L	0.000107	0.000	mg/kg	0.0000	0.00%
Be 234.861†	2227.0	0.00027	mg/L	0.000409	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	3.2	0.00006	mg/L	0.000027	0.000	mg/kg	0.0000	0.00%
Be 313.107†	-25.0	-0.00008	mg/L	0.000100	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	48.3	0.00656	mg/L	0.001810	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	242.8	0.01871	mg/L	0.002427	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	94.6	-0.01101	mg/L	0.003807	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	67.8	-0.00336	mg/L	0.000631	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	15.5	0.00641	mg/L	0.000613	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	299.2	0.02129	mg/L	0.006381	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	-331.0	-0.00980	mg/L	0.008741	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	42.3	0.00775	mg/L	0.010302	0.000	mg/kg	0.0000	0.00%
Co 228.616†	-4.3	-0.00350	mg/L	0.001028	0.000	mg/kg	0.0000	0.00%
Co 230.786†	311.1	-0.02397	mg/L	0.008410	0.000	mg/kg	0.0000	0.00%
Co 238.892†	2931.9	-0.02160	mg/L	0.019837	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	4.5	0.00775	mg/L	0.005421	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-129.0	-0.00210	mg/L	0.002541	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	6140.0	0.00058	mg/L	0.004021	0.00000	mg/kg	0.000000	0.00%
Cu 224.700†	322.8	-0.06596	mg/L	0.046303	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	69.1	-0.00475	mg/L	0.001718	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	-27.6	-0.00176	mg/L	0.001455	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	1893180.4	204.5	mg/L	1.06	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	1261822.9	206.3	mg/L	1.31	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	2341617.7	204.4	mg/L	1.09	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	358424.6	212.7	mg/L	1.15	0.000	mg/kg	0.0000	0.00%
K 766.490†	28.4	0.00637	mg/L	0.053104	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	118.1	-0.1893	mg/L	0.05913	0.000	mg/kg	0.0000	0.00%
Li 670.784†	225.2	0.00210	mg/L	0.001215	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	201.1	0.00362	mg/L	0.012055	0.00000	mg/kg	0.000000	0.00%
Mg 280.271†	653.5	0.00254	mg/L	0.000176	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	356.2	0.01258	mg/L	0.000418	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	82.5	0.00076	mg/L	0.000732	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	15113.3	0.00153	mg/L	0.001615	0.00000	mg/kg	0.000000	0.00%
Mn 260.568†	232.9	-0.00093	mg/L	0.000215	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-7.3	0.00749	mg/L	0.013399	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	2.3	0.01182	mg/L	0.016158	0.00000	mg/kg	0.000000	0.00%
Mo 204.597†	2.4	0.01112	mg/L	0.019588	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	812.7	0.05533	mg/L	0.056178	0.000	mg/kg	0.0000	0.00%
Na 589.592†	694.1	0.08801	mg/L	0.002561	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	16.5	0.00113	mg/L	0.001876	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	-3.8	-0.00153	mg/L	0.004048	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	-197.2	0.00646	mg/L	0.007392	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	57.5	-0.05946	mg/L	0.029203	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	-17.7	0.02563	mg/L	0.006878	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-4.1	-0.05063	mg/L	0.038103	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	11.2	0.08197	mg/L	0.029195	0.000	mg/kg	0.0000	0.00%
Se 196.026†	-6.8	-0.2151	mg/L	0.08463	0.000	mg/kg	0.0000	0.00%
Se 203.985†	-2.3	-0.08516	mg/L	0.124205	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	20575.4	-1.361	mg/L	0.3163	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	1.2	0.01866	mg/L	0.015734	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	45.9	0.01802	mg/L	0.011851	0.000	mg/kg	0.0000	0.00%

Sr 407.771†	-27.3	0.00001	mg/L	0.000066	0.00000	mg/kg	0.000000	0.00%
Sr 421.552†	118.8	0.00025	mg/L	0.000050	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	474.2	0.01233	mg/L	0.001613	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	700.0	0.01024	mg/L	0.001603	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	424.1	0.00978	mg/L	0.001389	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	5.8	-0.02950	mg/L	0.024224	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	1.7	0.06805	mg/L	0.016049	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	45.8	-0.04521	mg/L	0.063448	0.00000	mg/kg	0.000000	0.00%
V 310.230†	-697.2	-0.01906	mg/L	0.001253	0.000	mg/kg	0.0000	0.00%
V 292.402†	575.8	-0.00257	mg/L	0.000528	0.000	mg/kg	0.0000	0.00%
V 311.071†	104.6	-0.00089	mg/L	0.000354	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	2.6	0.00280	mg/L	0.001660	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	65.1	0.00261	mg/L	0.000340	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	11.4	0.00702	mg/L	0.002384	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 12
Sample ID: blank

Initial Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 201
Date Collected: 10/26/2009 11:34:45 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156802.2	98.67	%	0.458				0.46%
Ag 328.068†	-5.0	-0.00018	mg/L	0.000782	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-16.3	-0.00157	mg/L	0.001040	0.000	mg/kg	0.0000	0.00%
Al 308.215†	61.6	0.03510	mg/L	0.014958	0.000	mg/kg	0.0000	0.00%
Al 394.401†	97.0	0.03372	mg/L	0.010931	0.000	mg/kg	0.0000	0.00%
Al 396.153†	364.2	0.05128	mg/L	0.016529	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.3	-0.04576	mg/L	0.092775	0.00000	mg/kg	0.000000	0.00%
As 193.696†	-0.5	-0.01166	mg/L	0.049854	0.00000	mg/kg	0.000000	0.00%
As 197.197†	-1.0	-0.04346	mg/L	0.118603	0.00000	mg/kg	0.000000	0.00%
B 208.889†	0.5	0.00208	mg/L	0.005349	0.00000	mg/kg	0.000000	0.00%
B 249.677†	4.4	0.00144	mg/L	0.004800	0.00000	mg/kg	0.000000	0.00%
B 249.772†	-8.3	-0.00135	mg/L	0.001565	0.00000	mg/kg	0.000000	0.00%
Ba 233.527†	-2.8	-0.00046	mg/L	0.000264	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	-82.1	-0.00023	mg/L	0.000087	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	-57.3	-0.00015	mg/L	0.000198	0.00000	mg/kg	0.000000	0.00%
Be 234.861†	-1.1	-0.00002	mg/L	0.000074	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	22.6	0.00004	mg/L	0.000005	0.000	mg/kg	0.0000	0.00%
Be 313.107†	13.0	0.00005	mg/L	0.000048	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	72.8	0.00991	mg/L	0.000405	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	135.3	0.01042	mg/L	0.002687	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-7.5	-0.00188	mg/L	0.013452	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	3.1	0.00083	mg/L	0.000837	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	2.3	0.00096	mg/L	0.001999	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	-22.2	-0.00473	mg/L	0.009133	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	0.8	0.00016	mg/L	0.015937	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	28.7	0.00522	mg/L	0.020684	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-0.4	-0.00019	mg/L	0.000025	0.000	mg/kg	0.0000	0.00%
Co 230.786†	10.9	0.00560	mg/L	0.002911	0.000	mg/kg	0.0000	0.00%
Co 238.892†	-0.9	-0.00033	mg/L	0.000301	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	1.5	0.00250	mg/L	0.009176	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	-4.4	-0.00070	mg/L	0.002125	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	4.9	0.00020	mg/L	0.000178	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	3.2	-0.03228	mg/L	0.011238	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-25.6	-0.00070	mg/L	0.000672	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	-20.5	-0.00133	mg/L	0.001061	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	233.4	0.02520	mg/L	0.008347	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	152.1	0.02487	mg/L	0.011460	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	291.5	0.02544	mg/L	0.009762	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	46.2	0.02741	mg/L	0.011639	0.000	mg/kg	0.0000	0.00%
K 766.490†	-31.0	-0.00693	mg/L	0.046990	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1734.5	0.1364	mg/L	0.03034	0.000	mg/kg	0.0000	0.00%
Li 670.784†	143.2	0.00134	mg/L	0.000405	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	18.8	0.01653	mg/L	0.006407	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	771.1	0.00298	mg/L	0.000115	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	92.8	0.00329	mg/L	0.000296	0.000	mg/kg	0.0000	0.00%

Mn 257.610†	3.9	0.00008	mg/L	0.000123	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	5.8	0.00011	mg/L	0.000302	0.00000	mg/kg	0.000000	0.00%
Mn 260.568†	-3.1	-0.00011	mg/L	0.000203	0.00000	mg/kg	0.000000	0.00%
Mo 202.031†	-0.9	-0.00283	mg/L	0.004037	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	0.7	0.00369	mg/L	0.004091	0.00000	mg/kg	0.000000	0.00%
Mo 204.597†	-2.4	-0.01127	mg/L	0.012244	0.000	mg/kg	0.0000	0.00%
Na 588.995†	1342.1	0.09137	mg/L	0.033344	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-135.0	-0.01710	mg/L	0.016214	0.00000	mg/kg	0.000000	0.00%
Ni 221.648†	-2.7	-0.00243	mg/L	0.001768	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	-2.7	-0.00111	mg/L	0.002901	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	0.2	0.00029	mg/L	0.005088	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	0.4	0.00503	mg/L	0.064784	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	1.2	0.00327	mg/L	0.011906	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-2.3	-0.02796	mg/L	0.025805	0.00000	mg/kg	0.000000	0.00%
Sb 217.582†	-1.8	-0.01300	mg/L	0.002372	0.000	mg/kg	0.0000	0.00%
Se 196.026†	0.1	0.00220	mg/L	0.074505	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	1.5	0.06515	mg/L	0.060200	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	4.1	0.00188	mg/L	0.005694	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	0.1	0.00197	mg/L	0.010454	0.00000	mg/kg	0.000000	0.00%
Sr 460.733†	-85.2	-0.01498	mg/L	0.012849	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	131.1	0.00009	mg/L	0.000026	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	-59.3	-0.00012	mg/L	0.000142	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	42.1	0.00102	mg/L	0.000556	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	51.7	0.00076	mg/L	0.000309	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	36.7	0.00085	mg/L	0.000392	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	3.6	0.00512	mg/L	0.010247	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	3.0	0.1152	mg/L	0.03293	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	8.3	0.01899	mg/L	0.022079	0.00000	mg/kg	0.000000	0.00%
V 310.230†	35.1	0.00098	mg/L	0.001069	0.000	mg/kg	0.0000	0.00%
V 292.402†	-5.7	-0.00059	mg/L	0.000072	0.000	mg/kg	0.0000	0.00%
V 311.071†	-13.0	-0.00058	mg/L	0.000378	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	5.3	0.00561	mg/L	0.002476	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	2.2	0.00066	mg/L	0.000960	0.00000	mg/kg	0.000000	0.00%
Zn 202.548†	0.2	0.00013	mg/L	0.000986	0.00000	mg/kg	0.000000	0.00%

Sequence No.: 13
Sample ID: B909037-BLK1

Initial Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 202
Date Collected: 10/26/2009 11:35:48 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156833.8	98.69	%	0.496				0.50%
Ag 328.068†	14.5	0.00050	mg/L	0.000843	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-1.8	-0.00018	mg/L	0.001184	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	36.9	0.02079	mg/L	0.009534	0.000	mg/kg	0.0000	0.00%
Al 394.401†	52.0	0.02046	mg/L	0.009490	0.000	mg/kg	0.0000	0.00%
Al 396.153†	191.3	0.02657	mg/L	0.009347	0.000	mg/kg	0.0000	0.00%
As 188.979†	-2.1	-0.07167	mg/L	0.018893	0.000	mg/kg	0.0000	0.00%
As 193.696†	0.5	0.01141	mg/L	0.049124	0.00000	mg/kg	0.000000	0.00%
As 197.197†	-2.6	-0.1130	mg/L	0.04903	0.000	mg/kg	0.0000	0.00%
B 208.889†	2.8	0.01130	mg/L	0.003535	0.000	mg/kg	0.0000	0.00%
B 249.677†	17.3	0.00576	mg/L	0.002767	0.000	mg/kg	0.0000	0.00%
B 249.772†	20.4	0.00306	mg/L	0.000501	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	-5.8	-0.00089	mg/L	0.000716	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	27.8	0.00008	mg/L	0.000233	0.00000	mg/kg	0.000000	0.00%
Ba 493.408†	113.0	0.00030	mg/L	0.000195	0.000	mg/kg	0.0000	0.00%
Be 234.861†	5.4	0.00008	mg/L	0.000065	0.000	mg/kg	0.0000	0.00%
Be 313.042†	14.6	0.00003	mg/L	0.000041	0.00000	mg/kg	0.000000	0.00%
Be 313.107†	2.1	0.00001	mg/L	0.000042	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	451.8	0.06140	mg/L	0.001918	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	781.4	0.06020	mg/L	0.000989	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	5.7	0.00142	mg/L	0.007497	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	2.3	0.00060	mg/L	0.001490	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	2.6	0.00036	mg/L	0.002816	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	-5.6	-0.00119	mg/L	0.001595	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	-30.3	-0.00595	mg/L	0.016468	0.00000	mg/kg	0.000000	0.00%

Ce 418.660†	-18.6	-0.00338	mg/L	0.009321	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-3.4	-0.00146	mg/L	0.000574	0.000	mg/kg	0.0000	0.00%
Co 230.786†	9.6	0.00490	mg/L	0.004160	0.000	mg/kg	0.0000	0.00%
Co 238.892†	-3.2	-0.00083	mg/L	0.001162	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	1.0	0.00168	mg/L	0.003383	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	2.0	0.00031	mg/L	0.000343	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	8.9	0.00042	mg/L	0.000552	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	3.1	0.02745	mg/L	0.031538	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	143.9	0.00398	mg/L	0.000304	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	67.8	0.00436	mg/L	0.000555	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	85.8	0.00927	mg/L	0.000810	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	53.3	0.00872	mg/L	0.001123	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	112.6	0.00983	mg/L	0.000840	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	17.5	0.01035	mg/L	0.008937	0.000	mg/kg	0.0000	0.00%
K 766.490†	151.9	0.03398	mg/L	0.026879	0.000	mg/kg	0.0000	0.00%
Li 610.362†	1975.1	0.1553	mg/L	0.00900	0.000	mg/kg	0.0000	0.00%
Li 670.784†	-98.9	-0.00092	mg/L	0.001296	0.00000	mg/kg	0.000000	0.00%
Mg 279.077†	20.1	0.01777	mg/L	0.011779	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	2362.2	0.00912	mg/L	0.000023	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	250.9	0.00888	mg/L	0.000437	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	8.0	0.00017	mg/L	0.000103	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	21.9	0.00030	mg/L	0.000247	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	-7.0	-0.00024	mg/L	0.000259	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.0	-0.00005	mg/L	0.007881	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	4.5	0.02350	mg/L	0.007448	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	1.0	0.00456	mg/L	0.008667	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	2734.9	0.1862	mg/L	0.01690	0.000	mg/kg	0.0000	0.00%
Na 589.592†	584.9	0.07418	mg/L	0.018696	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	-1.8	-0.00166	mg/L	0.006883	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	-0.4	-0.00016	mg/L	0.001187	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	1.4	0.00108	mg/L	0.002253	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	-4.5	-0.05896	mg/L	0.018198	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	1.4	0.00359	mg/L	0.008457	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-3.2	-0.03984	mg/L	0.016986	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	1.0	0.00746	mg/L	0.031763	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-1.3	-0.04050	mg/L	0.054671	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	-1.4	-0.05684	mg/L	0.061761	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	9.8	0.01313	mg/L	0.003067	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	-0.8	-0.01143	mg/L	0.011692	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	61.6	0.01086	mg/L	0.026215	0.00000	mg/kg	0.000000	0.00%
Sr 407.771†	1031.4	0.00071	mg/L	0.000066	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	253.7	0.00052	mg/L	0.000173	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	-11.1	-0.00027	mg/L	0.002301	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	16.9	0.00025	mg/L	0.000188	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	19.2	0.00044	mg/L	0.000145	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	11.0	0.01661	mg/L	0.022764	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	1.4	0.05450	mg/L	0.059025	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	28.6	0.06776	mg/L	0.008034	0.000	mg/kg	0.0000	0.00%
V 310.230†	32.2	0.00087	mg/L	0.000363	0.000	mg/kg	0.0000	0.00%
V 292.402†	-2.8	-0.00013	mg/L	0.000900	0.00000	mg/kg	0.000000	0.00%
V 311.071†	-5.1	-0.00026	mg/L	0.000347	0.00000	mg/kg	0.000000	0.00%
Zn 206.200†	4.0	0.00429	mg/L	0.004145	0.00000	mg/kg	0.000000	0.00%
Zn 213.857†	5.6	0.00171	mg/L	0.000785	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	1.8	0.00106	mg/L	0.001067	0.00000	mg/kg	0.000000	0.00%

==========

Sequence No.: 14
Sample ID: B909037-BS1

Initial Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 203
Date Collected: 10/26/2009 11:36:49 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165320.5	104.0	%	1.69				1.62%
Ag 328.068†	2903.9	0.1044	mg/L	0.00177	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	1777.0	0.1068	mg/L	0.00309	0.000	mg/kg	0.0000	0.00%
Al 308.215†	68.2	0.01185	mg/L	0.006196	0.000	mg/kg	0.0000	0.00%
Al 394.401†	74.6	0.02985	mg/L	0.019339	0.000	mg/kg	0.0000	0.00%

Al 396.153†	407.2	0.02683	mg/L	0.010897	0.000	mg/kg	0.0000	0.00%
As 188.979†	25.7	0.8803	mg/L	0.04605	0.000	mg/kg	0.0000	0.00%
As 193.696†	43.7	0.9994	mg/L	0.04950	0.000	mg/kg	0.0000	0.00%
As 197.197†	21.8	0.9201	mg/L	0.09804	0.000	mg/kg	0.0000	0.00%
B 208.889†	236.8	0.9550	mg/L	0.00390	0.000	mg/kg	0.0000	0.00%
B 249.677†	3095.6	1.030	mg/L	0.0071	0.000	mg/kg	0.0000	0.00%
B 249.772†	6878.5	1.039	mg/L	0.0064	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	33216.5	5.099	mg/L	0.0443	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1834407.5	5.051	mg/L	0.1034	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	1926573.7	5.066	mg/L	0.1044	0.000	mg/kg	0.0000	0.00%
Be 234.861†	3186.2	0.04856	mg/L	0.000373	0.000	mg/kg	0.0000	0.00%
Be 313.042†	27422.6	0.05059	mg/L	0.000301	0.000	mg/kg	0.0000	0.00%
Be 313.107†	13866.9	0.05043	mg/L	0.000360	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	456.6	0.05951	mg/L	0.000564	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	697.9	0.05346	mg/L	0.001682	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	3704.8	0.9378	mg/L	0.00434	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	3532.6	0.9435	mg/L	0.00800	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	3324.6	0.8670	mg/L	0.01078	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	47.8	0.01015	mg/L	0.011682	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	-79.1	-0.01527	mg/L	0.013107	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	-37.6	-0.00407	mg/L	0.009911	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	1081.3	0.4697	mg/L	0.00382	0.000	mg/kg	0.0000	0.00%
Co 230.786†	935.1	0.4488	mg/L	0.00692	0.000	mg/kg	0.0000	0.00%
Co 238.892†	1879.0	0.4654	mg/L	0.00237	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	2856.8	4.882	mg/L	0.0492	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	32148.3	5.152	mg/L	0.0277	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	110217.0	5.244	mg/L	0.0277	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	4988.2	-8.726	mg/L	0.1589	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	171059.5	4.736	mg/L	0.0704	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	81036.9	5.206	mg/L	0.0187	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	65.2	0.00801	mg/L	0.000295	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	67.7	0.01019	mg/L	0.001019	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	126.0	0.01100	mg/L	0.000374	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	50.6	0.00165	mg/L	0.007163	0.00000	mg/kg	0.000000	0.00%
K 766.490†	250.5	0.05604	mg/L	0.020655	0.000	mg/kg	0.0000	0.00%
Li 610.362†	5508.8	0.3483	mg/L	0.09186	0.000	mg/kg	0.0000	0.00%
Li 670.784†	55095.4	0.5146	mg/L	0.00619	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	-12.2	-0.01122	mg/L	0.006727	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	2707.3	0.01001	mg/L	0.000142	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	212.1	0.01038	mg/L	0.000163	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	486704.0	10.11	mg/L	0.215	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	662505.8	10.12	mg/L	0.225	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	269160.5	9.407	mg/L	0.2044	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	300.6	0.9357	mg/L	0.00710	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	180.4	0.9347	mg/L	0.00583	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	197.9	0.9263	mg/L	0.01520	0.000	mg/kg	0.0000	0.00%
Na 588.995†	-331.1	-0.02255	mg/L	0.072089	0.00000	mg/kg	0.000000	0.00%
Na 589.592†	636.5	0.07826	mg/L	0.009541	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	2142.4	1.926	mg/L	0.0153	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	4724.9	1.929	mg/L	0.0144	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	2614.8	1.844	mg/L	0.0118	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	378.7	4.948	mg/L	0.0656	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	1908.4	4.983	mg/L	0.0184	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	0.7	-0.06823	mg/L	0.018484	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	-0.2	-0.00169	mg/L	0.022341	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	27.3	0.8612	mg/L	0.06177	0.000	mg/kg	0.0000	0.00%
Se 203.985†	72.0	0.7961	mg/L	0.13724	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	179.4	0.2891	mg/L	0.00403	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	64.5	0.9711	mg/L	0.03119	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	5593.3	0.9905	mg/L	0.02953	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	1453346.9	0.9953	mg/L	0.02020	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	481760.0	0.9938	mg/L	0.02026	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	-10.0	-0.00017	mg/L	0.001315	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	146.4	0.00029	mg/L	0.000212	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	36.6	0.00056	mg/L	0.000323	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	-29.4	-0.05953	mg/L	0.030097	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	1.2	0.03809	mg/L	0.104596	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	67.2	0.03219	mg/L	0.016950	0.000	mg/kg	0.0000	0.00%
V 310.230†	17935.4	0.4830	mg/L	0.00052	0.000	mg/kg	0.0000	0.00%
V 292.402†	6847.5	0.5037	mg/L	0.00438	0.000	mg/kg	0.0000	0.00%
V 311.071†	11254.7	0.5023	mg/L	0.00531	0.000	mg/kg	0.0000	0.00%

Zn 206.200†	8804.5	9.344	mg/L	0.0599	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	32670.9	10.02	mg/L	0.030	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	16352.7	10.01	mg/L	0.057	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 15
Sample ID: B909037-SRM1

Initial Sample Wt: 0.4708 g
Dilution: 1X

Autosampler Location: 204
Date Collected: 10/26/2009 11:37:55 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165443.1	104.1	%	4.00				3.84%
Ag 328.068†	35.0	0.00991	mg/L	0.001830	1.053	mg/kg	0.1943	18.46%
Ag 338.289†	133.6	0.00966	mg/L	0.003313	1.026	mg/kg	0.3519	34.30%
Al 308.215†	142401.7	80.61	mg/L	0.891	8561	mg/kg	94.7	1.11%
Al 394.401†	240194.9	83.47	mg/L	3.435	8864	mg/kg	364.8	4.12%
Al 396.153†	574151.3	80.20	mg/L	3.261	8518	mg/kg	346.3	4.07%
As 188.979†	9.7	0.7385	mg/L	0.12479	78.43	mg/kg	13.253	16.90%
As 193.696†	68.6	1.483	mg/L	0.0540	157.5	mg/kg	5.73	3.64%
As 197.197†	19.8	1.216	mg/L	0.0636	129.2	mg/kg	6.75	5.23%
B 208.889†	138.9	0.5068	mg/L	0.03601	53.82	mg/kg	3.825	7.11%
B 249.677†	1567.0	0.5005	mg/L	0.00516	53.15	mg/kg	0.548	1.03%
B 249.772†	5676.1	0.5132	mg/L	0.00955	54.50	mg/kg	1.015	1.86%
Ba 233.527†	13255.6	2.029	mg/L	0.0192	215.5	mg/kg	2.04	0.95%
Ba 455.403†	786259.5	2.165	mg/L	0.0897	229.9	mg/kg	9.53	4.14%
Ba 493.408†	827292.5	2.175	mg/L	0.0899	231.0	mg/kg	9.54	4.13%
Be 234.861†	2747.0	0.02371	mg/L	0.000649	2.518	mg/kg	0.0690	2.74%
Be 313.042†	14272.6	0.02461	mg/L	0.000232	2.613	mg/kg	0.0247	0.94%
Be 313.107†	6920.5	0.02485	mg/L	0.000239	2.639	mg/kg	0.0254	0.96%
Ca 315.887†	976666.0	132.7	mg/L	5.51	14100	mg/kg	584.8	4.15%
Ca 317.933†	1619267.8	124.8	mg/L	5.35	13250	mg/kg	568.1	4.29%
Cd 214.440†	3322.7	0.8209	mg/L	0.01486	87.18	mg/kg	1.579	1.81%
Cd 226.502†	3183.5	0.8391	mg/L	0.01179	89.12	mg/kg	1.252	1.41%
Cd 228.802†	3082.8	0.7852	mg/L	0.01236	83.39	mg/kg	1.313	1.57%
Ce 413.380†	1340.4	0.2619	mg/L	0.00650	27.81	mg/kg	0.691	2.48%
Ce 413.764†	1167.1	0.2622	mg/L	0.00855	27.85	mg/kg	0.908	3.26%
Ce 418.660†	1366.1	0.2601	mg/L	0.02069	27.62	mg/kg	2.197	7.95%
Co 228.616†	2024.8	0.8801	mg/L	0.01220	93.46	mg/kg	1.296	1.39%
Co 230.786†	1947.4	0.8656	mg/L	0.02360	91.93	mg/kg	2.506	2.73%
Co 238.892†	5007.5	0.8279	mg/L	0.00918	87.92	mg/kg	0.975	1.11%
Cr 205.560†	565.0	0.9706	mg/L	0.00827	103.1	mg/kg	0.88	0.85%
Cr 267.716†	6701.3	1.078	mg/L	0.0147	114.5	mg/kg	1.56	1.36%
Cr 283.563†	23799.7	0.9792	mg/L	0.00748	104.0	mg/kg	0.79	0.76%
Cu 224.700†	1042.3	-1.379	mg/L	0.0228	-146.5	mg/kg	2.42	1.65%
Cu 324.752†	31935.9	0.8811	mg/L	0.00872	93.57	mg/kg	0.927	0.99%
Cu 327.393†	13912.7	0.8937	mg/L	0.00909	94.91	mg/kg	0.965	1.02%
Fe 238.204†	1004833.8	108.5	mg/L	4.47	11530	mg/kg	474.9	4.12%
Fe 239.562†	667275.2	109.1	mg/L	4.64	11590	mg/kg	493.0	4.25%
Fe 259.939†	1244412.5	108.6	mg/L	4.49	11530	mg/kg	477.0	4.14%
Fe 273.955†	194034.6	115.1	mg/L	1.03	12230	mg/kg	109.3	0.89%
K 766.490†	114345.3	25.59	mg/L	1.068	2717	mg/kg	113.4	4.17%
Li 610.362†	520.5	-0.2058	mg/L	0.15955	-21.86	mg/kg	16.945	77.51%
Li 670.784†	9004.6	0.08410	mg/L	0.001054	8.932	mg/kg	0.1120	1.25%
Mg 279.077†	45402.1	40.08	mg/L	0.299	4256	mg/kg	31.7	0.75%
Mg 280.271†	9968787.0	38.49	mg/L	1.215	4087	mg/kg	129.1	3.16%
Mg 285.213†	1092803.4	38.70	mg/L	1.648	4110	mg/kg	175.1	4.26%
Mn 257.610†	123915.0	2.572	mg/L	0.0161	273.2	mg/kg	1.71	0.62%
Mn 259.372†	171918.5	2.499	mg/L	0.1068	265.4	mg/kg	11.34	4.27%
Mn 260.568†	67919.3	2.367	mg/L	0.0210	251.4	mg/kg	2.24	0.89%
Mo 202.031†	187.3	0.5885	mg/L	0.01108	62.50	mg/kg	1.176	1.88%
Mo 203.845†	141.8	0.6996	mg/L	0.03086	74.30	mg/kg	3.277	4.41%
Mo 204.597†	111.7	0.5452	mg/L	0.01905	57.90	mg/kg	2.023	3.49%
Na 588.995†	14381.0	0.9791	mg/L	0.18884	104.0	mg/kg	20.06	19.29%
Na 589.592†	8893.2	1.127	mg/L	0.0097	119.6	mg/kg	1.03	0.86%
Ni 221.648†	585.0	0.5182	mg/L	0.00449	55.03	mg/kg	0.476	0.87%
Ni 231.604†	1305.3	0.5280	mg/L	0.00899	56.07	mg/kg	0.954	1.70%
Ni 232.003†	580.9	0.5055	mg/L	0.00465	53.68	mg/kg	0.493	0.92%

Pb 217.000†	67.0	0.5465	mg/L	0.04141	58.04	mg/kg	4.398	7.58%
Pb 220.353†	234.9	0.6234	mg/L	0.01485	66.21	mg/kg	1.577	2.38%
Sb 206.836†	77.5	0.9403	mg/L	0.04212	99.86	mg/kg	4.473	4.48%
Sb 217.582†	143.8	1.053	mg/L	0.0205	111.8	mg/kg	2.17	1.94%
Se 196.026†	25.3	0.7979	mg/L	0.16396	84.74	mg/kg	17.413	20.55%
Se 203.985†	-38.6	-1.154	mg/L	0.0812	-122.6	mg/kg	8.63	7.04%
Sn 235.485†	11232.8	-0.5704	mg/L	0.10393	-60.58	mg/kg	11.038	18.22%
Sn 189.927†	246.5	3.803	mg/L	0.0331	403.9	mg/kg	3.52	0.87%
Sr 460.733†	2251.3	0.4016	mg/L	0.01250	42.65	mg/kg	1.327	3.11%
Sr 407.771†	552225.9	0.3766	mg/L	0.01538	39.99	mg/kg	1.633	4.08%
Sr 421.552†	182881.8	0.3772	mg/L	0.01536	40.06	mg/kg	1.631	4.07%
Ti 337.279†	35745.2	0.8681	mg/L	0.00539	92.20	mg/kg	0.572	0.62%
Ti 334.940†	58085.6	0.8639	mg/L	0.00802	91.74	mg/kg	0.852	0.93%
Ti 336.121†	37389.2	0.8657	mg/L	0.00924	91.94	mg/kg	0.981	1.07%
Tl 351.924†	244.3	0.2751	mg/L	0.05433	29.22	mg/kg	5.770	19.75%
Tl 190.801†	24.7	0.6591	mg/L	0.09020	69.99	mg/kg	9.580	13.69%
Tl 276.787†	2132.4	2.282	mg/L	0.1294	242.3	mg/kg	13.74	5.67%
V 310.230†	37057.8	1.012	mg/L	0.0095	107.5	mg/kg	1.01	0.94%
V 292.402†	14561.2	1.027	mg/L	0.0077	109.1	mg/kg	0.82	0.75%
V 311.071†	22881.8	1.020	mg/L	0.0079	108.3	mg/kg	0.84	0.77%
Zn 206.200†	2010.8	2.123	mg/L	0.0335	225.5	mg/kg	3.56	1.58%
Zn 213.857†	7852.2	2.381	mg/L	0.0357	252.8	mg/kg	3.80	1.50%
Zn 202.548†	3718.0	2.272	mg/L	0.0321	241.3	mg/kg	3.41	1.41%

==========

Sequence No.: 16
Sample ID: 0909005-01

Initial Sample Wt: 0.4776 g
Dilution: 1X

Autosampler Location: 205
Date Collected: 10/26/2009 11:39:05 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	151181.1	95.13	%	1.021				1.07%
Ag 328.068†	614.5	0.02566	mg/L	0.003526	2.687	mg/kg	0.3692	13.74%
Ag 338.289†	-82.8	0.01142	mg/L	0.003576	1.196	mg/kg	0.3743	31.31%
Al 308.215†	86894.5	49.21	mg/L	0.076	5152	mg/kg	7.9	0.15%
Al 394.401†	159145.6	54.41	mg/L	0.042	5696	mg/kg	4.4	0.08%
Al 396.153†	360704.5	49.53	mg/L	0.884	5185	mg/kg	92.6	1.79%
As 188.979†	-145.0	2.462	mg/L	0.3168	257.8	mg/kg	33.17	12.87%
As 193.696†	76.5	-1.603	mg/L	0.0810	-167.8	mg/kg	8.48	5.05%
As 197.197†	-58.7	4.565	mg/L	0.7280	477.9	mg/kg	76.22	15.95%
B 208.889†	197.6	0.4607	mg/L	0.03629	48.23	mg/kg	3.799	7.88%
B 249.677†	698.0	0.2242	mg/L	0.01609	23.47	mg/kg	1.685	7.18%
B 249.772†	2572.7	0.2442	mg/L	0.02422	25.56	mg/kg	2.536	9.92%
Ba 233.527†	4382.3	0.6702	mg/L	0.04164	70.16	mg/kg	4.359	6.21%
Ba 455.403†	257174.7	0.7081	mg/L	0.01434	74.13	mg/kg	1.501	2.03%
Ba 493.408†	267009.4	0.7019	mg/L	0.01359	73.48	mg/kg	1.422	1.94%
Be 234.861†	707.5	0.00309	mg/L	0.000297	0.3233	mg/kg	0.03114	9.63%
Be 313.042†	2654.5	0.00467	mg/L	0.000387	0.4890	mg/kg	0.04050	8.28%
Be 313.107†	1423.2	0.00474	mg/L	0.000330	0.4965	mg/kg	0.03453	6.96%
Ca 315.887†	17869113.2	2428	mg/L	92.7	254200	mg/kg	9701.4	3.82%
Ca 317.933†	28870304.3	2224	mg/L	78.8	232900	mg/kg	8254.6	3.54%
Cd 214.440†	163.8	-0.06727	mg/L	0.012798	-7.042	mg/kg	1.3398	19.02%
Cd 226.502†	19.6	0.00316	mg/L	0.002829	0.3311	mg/kg	0.29621	89.47%
Cd 228.802†	14.3	-0.04635	mg/L	0.002016	-4.852	mg/kg	0.2111	4.35%
Ce 413.380†	435.0	0.08283	mg/L	0.012349	8.671	mg/kg	1.2928	14.91%
Ce 413.764†	524.4	0.1206	mg/L	0.02081	12.63	mg/kg	2.178	17.24%
Ce 418.660†	199.7	0.2000	mg/L	0.00794	20.94	mg/kg	0.831	3.97%
Co 228.616†	66.0	0.02552	mg/L	0.001903	2.672	mg/kg	0.1993	7.46%
Co 230.786†	781.4	-0.07694	mg/L	0.015255	-8.055	mg/kg	1.5971	19.83%
Co 238.892†	1005.5	0.00297	mg/L	0.004264	0.3105	mg/kg	0.44642	143.76%
Cr 205.560†	6.0	0.1108	mg/L	0.00146	11.60	mg/kg	0.153	1.32%
Cr 267.716†	1108.3	0.1059	mg/L	0.00837	11.08	mg/kg	0.876	7.91%
Cr 283.563†	1265.8	0.06746	mg/L	0.003910	7.062	mg/kg	0.4093	5.80%
Cu 224.700†	162.9	-1.022	mg/L	0.0169	-107.0	mg/kg	1.77	1.66%
Cu 324.752†	3446.5	0.09444	mg/L	0.001443	9.887	mg/kg	0.1510	1.53%
Cu 327.393†	1689.5	0.1080	mg/L	0.00141	11.30	mg/kg	0.147	1.30%
Fe 238.204†	438876.1	47.40	mg/L	0.101	4962	mg/kg	10.6	0.21%

Fe 239.562†	291604.8	47.76 mg/L	0.021	5000 mg/kg	2.2	0.04%
Fe 259.939†	525070.5	45.82 mg/L	0.888	4797 mg/kg	92.9	1.94%
Fe 273.955†	81308.3	48.25 mg/L	0.137	5052 mg/kg	14.4	0.28%
K 766.490†	11737.8	2.626 mg/L	0.0071	275.0 mg/kg	0.75	0.27%
Li 610.362†	11814.2	-1.234 mg/L	0.0541	-129.2 mg/kg	5.66	4.38%
Li 670.784†	4469.8	0.04175 mg/L	0.000648	4.370 mg/kg	0.0678	1.55%
Mg 279.077†	662947.9	586.5 mg/L	11.40	61400 mg/kg	1193.8	1.94%
Mg 280.271†	Saturated3					
Mg 285.213†	13966975.8	494.5 mg/L	14.42	51770 mg/kg	1510.0	2.92%
Mn 257.610†	172904.0	3.576 mg/L	0.0058	374.4 mg/kg	0.60	0.16%
Mn 259.372†	239581.3	3.597 mg/L	0.0056	376.5 mg/kg	0.59	0.16%
Mn 260.568†	95003.0	3.303 mg/L	0.0091	345.8 mg/kg	0.95	0.27%
Mo 202.031†	36.4	-0.07814 mg/L	0.034397	-8.180 mg/kg	3.6010	44.02%
Mo 203.845†	188.4	0.4671 mg/L	0.01861	48.90 mg/kg	1.948	3.98%
Mo 204.597†	-63.6	0.1663 mg/L	0.04901	17.41 mg/kg	5.131	29.47%
Na 588.995†	67759.9	4.613 mg/L	0.0823	483.0 mg/kg	8.61	1.78%
Na 589.592†	36853.6	4.675 mg/L	0.0057	489.5 mg/kg	0.60	0.12%
Ni 221.648†	-9.4	-0.01156 mg/L	0.007695	-1.210 mg/kg	0.8056	66.59%
Ni 231.604†	245.3	0.03026 mg/L	0.005441	3.167 mg/kg	0.5696	17.98%
Ni 232.003†	-80.6	0.1296 mg/L	0.00374	13.57 mg/kg	0.392	2.89%
Pb 217.000†	-10.3	0.4521 mg/L	0.10155	47.33 mg/kg	10.631	22.46%
Pb 220.353†	146.4	0.04888 mg/L	0.014176	5.117 mg/kg	1.4841	29.00%
Sb 206.836†	-2.0	-0.03170 mg/L	0.034558	-3.319 mg/kg	3.6179	109.00%
Sb 217.582†	-38.6	-0.2827 mg/L	0.04124	-29.60 mg/kg	4.318	14.59%
Se 196.026†	10.9	0.3429 mg/L	0.06012	35.90 mg/kg	6.294	17.53%
Se 203.985†	-256.7	7.836 mg/L	0.8159	820.3 mg/kg	85.42	10.41%
Sn 235.485†	4735.9	-0.1903 mg/L	0.41968	-19.93 mg/kg	43.936	220.49%
Sn 189.927†	-64.5	0.7189 mg/L	0.09709	75.26 mg/kg	10.164	13.50%
Sr 460.733†	31163.6	5.482 mg/L	0.0155	573.9 mg/kg	1.62	0.28%
Sr 407.771†	7213845.2	4.913 mg/L	0.1885	514.3 mg/kg	19.74	3.84%
Sr 421.552†	2481954.0	5.120 mg/L	0.1018	536.0 mg/kg	10.66	1.99%
Ti 337.279†	77616.9	1.884 mg/L	0.0060	197.2 mg/kg	0.62	0.32%
Ti 334.940†	111969.7	1.908 mg/L	0.0130	199.8 mg/kg	1.36	0.68%
Ti 336.121†	79059.4	1.880 mg/L	0.0026	196.8 mg/kg	0.27	0.14%
Tl 351.924†	-0.7	-0.04158 mg/L	0.015755	-4.353 mg/kg	1.6494	37.89%
Tl 190.801†	106.5	-1.226 mg/L	0.2372	-128.3 mg/kg	24.83	19.35%
Tl 276.787†	20379.9	8.634 mg/L	1.0168	903.9 mg/kg	106.45	11.78%
V 310.230†	4656.2	0.1193 mg/L	0.00134	12.49 mg/kg	0.140	1.12%
V 292.402†	2527.2	0.1702 mg/L	0.01259	17.82 mg/kg	1.318	7.40%
V 311.071†	2074.3	0.08229 mg/L	0.001365	8.615 mg/kg	0.1429	1.66%
Zn 206.200†	357.4	0.1798 mg/L	0.00604	18.82 mg/kg	0.633	3.36%
Zn 213.857†	1726.7	0.2132 mg/L	0.01059	22.32 mg/kg	1.109	4.97%
Zn 202.548†	668.1	0.3229 mg/L	0.01679	33.81 mg/kg	1.758	5.20%

==========

Sequence No.: 17
Sample ID: 0909005-02

Initial Sample Wt: 0.4877 g
Dilution: 1X

Autosampler Location: 206
Date Collected: 10/26/2009 11:40:23 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	151485.7	95.32	%	2.942				3.09%
Ag 328.068†	709.9	0.02881	mg/L	0.002505	2.954	mg/kg	0.2568	8.69%
Ag 338.289†	-124.1	0.01154	mg/L	0.006198	1.183	mg/kg	0.6354	53.70%
Al 308.215†	96946.6	54.90	mg/L	0.349	5629	mg/kg	35.8	0.64%
Al 394.401†	177486.1	60.79	mg/L	0.279	6232	mg/kg	28.6	0.46%
Al 396.153†	403866.5	55.55	mg/L	0.180	5695	mg/kg	18.5	0.32%
As 188.979†	-145.0	2.560	mg/L	0.1639	262.4	mg/kg	16.80	6.40%
As 193.696†	73.9	-1.670	mg/L	0.0341	-171.2	mg/kg	3.50	2.04%
As 197.197†	-52.8	4.782	mg/L	0.1442	490.3	mg/kg	14.78	3.01%
B 208.889†	199.5	0.4368	mg/L	0.01900	44.78	mg/kg	1.948	4.35%
B 249.677†	669.3	0.2153	mg/L	0.00256	22.07	mg/kg	0.263	1.19%
B 249.772†	2435.4	0.2350	mg/L	0.00203	24.09	mg/kg	0.208	0.86%
Ba 233.527†	5537.9	0.8475	mg/L	0.00776	86.89	mg/kg	0.796	0.92%
Ba 455.403†	328196.3	0.9036	mg/L	0.00139	92.64	mg/kg	0.143	0.15%
Ba 493.408†	341125.1	0.8968	mg/L	0.00121	91.94	mg/kg	0.124	0.13%
Be 234.861†	736.2	0.00411	mg/L	0.000742	0.4218	mg/kg	0.07607	18.03%

Be 313.042†	3344.1	0.00594	mg/L	0.000068	0.6085	mg/kg	0.00692	1.14%
Be 313.107†	1798.0	0.00603	mg/L	0.000048	0.6177	mg/kg	0.00490	0.79%
Ca 315.887†	18146701.9	2466	mg/L	44.0	252800	mg/kg	4516.0	1.79%
Ca 317.933†	29281993.8	2256	mg/L	36.6	231300	mg/kg	3756.6	1.62%
Cd 214.440†	58.2	-0.09723	mg/L	0.014791	-9.969	mg/kg	1.5164	15.21%
Cd 226.502†	16.7	0.00294	mg/L	0.004399	0.3018	mg/kg	0.45102	149.43%
Cd 228.802†	9.2	-0.04602	mg/L	0.000973	-4.718	mg/kg	0.0998	2.11%
Ce 413.380†	491.9	0.09568	mg/L	0.011049	9.809	mg/kg	1.1327	11.55%
Ce 413.764†	380.5	0.09231	mg/L	0.028900	9.464	mg/kg	2.9629	31.31%
Ce 418.660†	228.9	0.2079	mg/L	0.01573	21.31	mg/kg	1.612	7.57%
Co 228.616†	71.0	0.02753	mg/L	0.001269	2.823	mg/kg	0.1301	4.61%
Co 230.786†	791.6	-0.08696	mg/L	0.011481	-8.916	mg/kg	1.1771	13.20%
Co 238.892†	927.0	-0.00402	mg/L	0.014563	-0.4119	mg/kg	1.49304	362.48%
Cr·205.560†	0.7	0.1034	mg/L	0.01129	10.60	mg/kg	1.158	10.92%
Cr 267.716†	1132.2	0.1018	mg/L	0.00214	10.44	mg/kg	0.219	2.10%
Cr 283.563†	1024.2	0.06886	mg/L	0.001617	7.059	mg/kg	0.1658	2.35%
Cu 224.700†	157.5	-0.9759	mg/L	0.02174	-100.0	mg/kg	2.23	2.23%
Cu 324.752†	3636.9	0.09990	mg/L	0.001176	10.24	mg/kg	0.121	1.18%
Cu 327.393†	1692.9	0.1081	mg/L	0.00143	11.09	mg/kg	0.147	1.33%
Fe 238.204†	403254.9	43.55	mg/L	0.133	4465	mg/kg	13.7	0.31%
Fe 239.562†	267502.3	43.82	mg/L	0.019	4492	mg/kg	1.9	0.04%
Fe 259.939†	487157.7	42.52	mg/L	0.074	4359	mg/kg	7.6	0.17%
Fe 273.955†	74802.8	44.39	mg/L	0.125	4551	mg/kg	12.8	0.28%
K 766.490†	17449.5	3.904	mg/L	0.0338	400.3	mg/kg	3.47	0.87%
Li 610.362†	11634.0	-1.274	mg/L	0.1287	-130.6	mg/kg	13.19	10.10%
Li 670.784†	4290.0	0.04007	mg/L	0.000840	4.108	mg/kg	0.0861	2.10%
Mg 279.077†	731169.3	646.8	mg/L	1.78	66310	mg/kg	182.7	0.28%
Mg 280.271†	Saturated3							
Mg 285.213†	15153411.4	536.6	mg/L	9.57	55010	mg/kg	981.2	1.78%
Mn 257.610†	145720.6	3.010	mg/L	0.0094	308.6	mg/kg	0.96	0.31%
Mn 259.372†	202110.3	3.027	mg/L	0.0065	310.3	mg/kg	0.67	0.22%
Mn 260.568†	80271.7	2.787	mg/L	0.0100	285.7	mg/kg	1.03	0.36%
Mo 202.031†	37.1	-0.07964	mg/L	0.016201	-8.165	mg/kg	1.6610	20.34%
Mo 203.845†	194.8	0.4481	mg/L	0.05141	45.94	mg/kg	5.270	11.47%
Mo 204.597†	-64.4	0.1698	mg/L	0.00366	17.41	mg/kg	0.375	2.16%
Na 588.995†	108127.0	7.362	mg/L	0.1639	754.7	mg/kg	16.80	2.23%
Na 589.592†	58930.0	7.475	mg/L	0.0625	766.4	mg/kg	6.41	0.84%
Ni 221.648†	76.7	0.06604	mg/L	0.003516	6.771	mg/kg	0.3604	5.32%
Ni 231.604†	239.8	0.02695	mg/L	0.001856	2.763	mg/kg	0.1903	6.89%
Ni 232.003†	-70.7	0.1369	mg/L	0.00606	14.04	mg/kg	0.621	4.42%
Pb 217.000†	-20.4	0.3240	mg/L	0.05255	33.22	mg/kg	5.388	16.22%
Pb 220.353†	111.7	-0.04499	mg/L	0.005641	-4.613	mg/kg	0.5783	12.54%
Sb 206.836†	-4.9	-0.06875	mg/L	0.027223	-7.049	mg/kg	2.7910	39.59%
Sb 217.582†	-37.6	-0.2752	mg/L	0.02610	-28.22	mg/kg	2.676	9.48%
Se 196.026†	5.9	0.1860	mg/L	0.04236	19.07	mg/kg	4.343	22.77%
Se 203.985†	-252.8	8.241	mg/L	0.6705	844.9	mg/kg	68.74	8.14%
Sn 235.485†	4329.7	-0.2111	mg/L	0.06744	-21.65	mg/kg	6.914	31.94%
Sn 189.927†	-64.2	0.7497	mg/L	0.15079	76.86	mg/kg	15.459	20.11%
Sr 460.733†	38447.7	6.764	mg/L	0.0499	693.4	mg/kg	5.11	0.74%
Sr 407.771†	8955835.5	6.105	mg/L	0.1200	625.9	mg/kg	12.30	1.96%
Sr 421.552†	3090621.7	6.375	mg/L	0.0076	653.6	mg/kg	0.78	0.12%
Ti 337.279†	91980.3	2.233	mg/L	0.0105	228.9	mg/kg	1.07	0.47%
Ti 334.940†	135951.0	2.263	mg/L	0.0121	232.0	mg/kg	1.24	0.53%
Ti 336.121†	94278.4	2.232	mg/L	0.0057	228.8	mg/kg	0.59	0.26%
Tl 351.924†	5.8	-0.02723	mg/L	0.048270	-2.792	mg/kg	4.9488	177.26%
Tl 190.801†	101.2	-1.486	mg/L	0.2321	-152.3	mg/kg	23.80	15.62%
Tl 276.787†	21642.5	7.523	mg/L	0.7964	771.3	mg/kg	81.65	10.59%
V 310.230†	5148.5	0.1314	mg/L	0.00173	13.47	mg/kg	0.177	1.32%
V 292.402†	2688.9	0.1827	mg/L	0.00333	18.73	mg/kg	0.341	1.82%
V 311.071†	2454.7	0.09562	mg/L	0.002033	9.803	mg/kg	0.2084	2.13%
Zn 206.200†	359.1	0.1784	mg/L	0.00138	18.29	mg/kg	0.141	0.77%
Zn 213.857†	1728.6	0.2094	mg/L	0.00648	21.47	mg/kg	0.664	3.09%
Zn 202.548†	686.9	0.3331	mg/L	0.01308	34.15	mg/kg	1.341	3.93%

Sequence No.: 18
Sample ID: 0909005-03

Autosampler Location: 207
Date Collected: 10/26/2009 11:41:40 AM
Data Type: Original

Initial Sample Wt: 0.4916 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909005-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155725.1	97.99	%	3.635				3.71%
Ag 328.068†	99.1	0.01212	mg/L	0.002472	1.233	mg/kg	0.2515	20.40%
Ag 338.289†	-40.0	0.00334	mg/L	0.005588	0.3398	mg/kg	0.56838	167.26%
Al 308.215†	70512.3	39.93	mg/L	0.280	4062	mg/kg	28.5	0.70%
Al 394.401†	129197.2	44.46	mg/L	0.227	4522	mg/kg	23.1	0.51%
Al 396.153†	279902.2	38.68	mg/L	0.509	3934	mg/kg	51.7	1.31%
As 188.979†	-111.6	-0.02227	mg/L	0.053056	-2.265	mg/kg	5.3963	238.20%
As 193.696†	71.1	-0.1214	mg/L	0.03066	-12.35	mg/kg	3.118	25.26%
As 197.197†	-66.1	1.150	mg/L	0.1840	117.0	mg/kg	18.71	16.00%
B 208.889†	75.1	0.1855	mg/L	0.01947	18.87	mg/kg	1.981	10.50%
B 249.677†	317.6	0.08309	mg/L	0.005228	8.451	mg/kg	0.5317	6.29%
B 249.772†	3479.4	0.1189	mg/L	0.00876	12.09	mg/kg	0.891	7.37%
Ba 233.527†	2357.3	0.3563	mg/L	0.00218	36.24	mg/kg	0.221	0.61%
Ba 455.403†	130492.6	0.3593	mg/L	0.00572	36.54	mg/kg	0.582	1.59%
Ba 493.408†	135509.0	0.3556	mg/L	0.00620	36.17	mg/kg	0.631	1.74%
Be 234.861†	1539.8	0.00207	mg/L	0.001237	0.2110	mg/kg	0.12576	59.60%
Be 313.042†	1831.2	0.00320	mg/L	0.000062	0.3251	mg/kg	0.00630	1.94%
Be 313.107†	886.6	0.00304	mg/L	0.000127	0.3091	mg/kg	0.01296	4.19%
Ca 315.887†	9031083.4	1227	mg/L	5.7	124800	mg/kg	577.9	0.46%
Ca 317.933†	14815259.8	1141	mg/L	6.4	116100	mg/kg	651.5	0.56%
Cd 214.440†	147.0	-0.02641	mg/L	0.019035	-2.686	mg/kg	1.9360	72.07%
Cd 226.502†	55.6	0.00281	mg/L	0.000830	0.2862	mg/kg	0.08440	29.49%
Cd 228.802†	16.6	-0.04216	mg/L	0.002073	-4.288	mg/kg	0.2108	4.92%
Ce 413.380†	830.5	0.1494	mg/L	0.01053	15.20	mg/kg	1.071	7.05%
Ce 413.764†	444.5	0.1248	mg/L	0.02456	12.69	mg/kg	2.498	19.69%
Ce 418.660†	468.5	0.1679	mg/L	0.01260	17.08	mg/kg	1.281	7.50%
Co 228.616†	117.0	0.04523	mg/L	0.000580	4.601	mg/kg	0.0590	1.28%
Co 230.786†	641.8	0.02528	mg/L	0.012687	2.571	mg/kg	1.2904	50.19%
Co 238.892†	2230.0	0.03500	mg/L	0.013390	3.560	mg/kg	1.3619	38.25%
Cr 205.560†	18.4	0.08239	mg/L	0.015215	8.380	mg/kg	1.5475	18.47%
Cr 267.716†	703.3	0.1037	mg/L	0.00067	10.55	mg/kg	0.068	0.65%
Cr 283.563†	5143.7	0.07671	mg/L	0.000722	7.802	mg/kg	0.0734	0.94%
Cu 224.700†	391.9	-1.677	mg/L	0.0118	-170.5	mg/kg	1.20	0.70%
Cu 324.752†	6562.2	0.1777	mg/L	0.00244	18.08	mg/kg	0.248	1.37%
Cu 327.393†	2955.9	0.1895	mg/L	0.00343	19.28	mg/kg	0.349	1.81%
Fe 238.204†	1183158.9	127.8	mg/L	2.07	13000	mg/kg	210.7	1.62%
Fe 239.562†	785574.3	128.5	mg/L	1.94	13070	mg/kg	197.4	1.51%
Fe 259.939†	1477726.7	129.0	mg/L	2.02	13120	mg/kg	205.6	1.57%
Fe 273.955†	229260.3	136.0	mg/L	3.02	13840	mg/kg	307.1	2.22%
K 766.490†	33695.3	7.540	mg/L	0.0370	766.8	mg/kg	3.76	0.49%
Li 610.362†	7210.0	-0.6710	mg/L	0.18788	-68.25	mg/kg	19.109	28.00%
Li 670.784†	7487.7	0.06993	mg/L	0.000329	7.113	mg/kg	0.0335	0.47%
Mg 279.077†	168202.9	148.7	mg/L	0.72	15120	mg/kg	73.3	0.48%
Mg 280.271†	32540189.4	125.6	mg/L	0.38	12780	mg/kg	38.2	0.30%
Mg 285.213†	3813822.0	135.0	mg/L	1.81	13730	mg/kg	184.6	1.34%
Mn 257.610†	324637.1	6.739	mg/L	0.1072	685.4	mg/kg	10.90	1.59%
Mn 259.372†	450331.7	6.733	mg/L	0.1109	684.8	mg/kg	11.28	1.65%
Mn 260.568†	196239.7	6.850	mg/L	0.0510	696.7	mg/kg	5.19	0.74%
Mo 202.031†	32.3	0.01972	mg/L	0.010749	2.006	mg/kg	1.0932	54.51%
Mo 203.845†	84.5	0.3087	mg/L	0.01417	31.40	mg/kg	1.442	4.59%
Mo 204.597†	-52.8	-0.01178	mg/L	0.051211	-1.198	mg/kg	5.2086	434.80%
Na 588.995†	292469.4	19.91	mg/L	0.133	2025	mg/kg	13.6	0.67%
Na 589.592†	157879.4	20.03	mg/L	0.287	2037	mg/kg	29.2	1.43%
Ni 221.648†	125.6	0.1041	mg/L	0.01190	10.59	mg/kg	1.211	11.43%
Ni 231.604†	367.2	0.1146	mg/L	0.00403	11.66	mg/kg	0.410	3.52%
Ni 232.003†	-65.2	0.1304	mg/L	0.00582	13.26	mg/kg	0.592	4.46%
Pb 217.000†	10.8	0.2310	mg/L	0.05478	23.49	mg/kg	5.571	23.71%
Pb 220.353†	144.9	0.2145	mg/L	0.00221	21.82	mg/kg	0.225	1.03%
Sb 206.836†	-1.9	-0.02730	mg/L	0.018975	-2.777	mg/kg	1.9299	69.51%
Sb 217.582†	-25.0	-0.1833	mg/L	0.03030	-18.65	mg/kg	3.082	16.53%
Se 196.026†	1.5	0.04676	mg/L	0.096682	4.755	mg/kg	9.8335	206.78%
Se 203.985†	-228.1	-0.1458	mg/L	0.25473	-14.83	mg/kg	25.908	174.68%
Sn 235.485†	13008.1	-1.093	mg/L	0.5873	-111.1	mg/kg	59.74	53.75%
Sn 189.927†	-55.4	0.01941	mg/L	0.092615	1.974	mg/kg	9.4198	477.22%
Sr 460.733†	6899.0	1.215	mg/L	0.0160	123.6	mg/kg	1.63	1.32%
Sr 407.771†	1635986.1	1.107	mg/L	0.0193	112.5	mg/kg	1.97	1.75%
Sr 421.552†	543613.1	1.121	mg/L	0.0202	114.1	mg/kg	2.06	1.80%

Ti 337.279†	31281.8	0.7598 mg/L	0.00455	77.28 mg/kg	0.463	0.60%
Ti 334.940†	42995.0	0.7656 mg/L	0.00627	77.87 mg/kg	0.637	0.82%
Ti 336.121†	31554.2	0.7569 mg/L	0.00502	76.99 mg/kg	0.511	0.66%
Tl 351.924†	4.0	-0.05398 mg/L	0.036048	-5.490 mg/kg	3.6664	66.78%
Tl 190.801†	81.8	0.3839 mg/L	0.01451	39.04 mg/kg	1.476	3.78%
Tl 276.787†	6703.4	5.743 mg/L	0.0934	584.1 mg/kg	9.50	1.63%
V 310.230†	3736.9	0.09811 mg/L	0.002851	9.978 mg/kg	0.2900	2.91%
V 292.402†	2340.4	0.1372 mg/L	0.00176	13.95 mg/kg	0.179	1.28%
V 311.071†	2646.8	0.1116 mg/L	0.00044	11.36 mg/kg	0.045	0.40%
Zn 206.200†	523.9	0.4553 mg/L	0.00810	46.31 mg/kg	0.824	1.78%
Zn 213.857†	2341.1	0.5487 mg/L	0.00794	55.81 mg/kg	0.807	1.45%
Zn 202.548†	907.7	0.5124 mg/L	0.00090	52.12 mg/kg	0.092	0.18%

Sequence No.: 19
Sample ID: 0909005-04

Autosampler Location: 208
Date Collected: 10/26/2009 11:42:56 AM
Data Type: Original

Initial Sample Wt: 0.5145 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909005-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155989.2	98.16	%	1.450				1.48%
Ag 328.068†	316.0	0.01985	mg/L	0.003988	1.929	mg/kg	0.3876	20.09%
Ag 338.289†	-182.5	0.00653	mg/L	0.009267	0.6348	mg/kg	0.90059	141.87%
Al 308.215†	103759.9	58.76	mg/L	0.288	5710	mg/kg	28.0	0.49%
Al 394.401†	187866.3	64.71	mg/L	0.370	6289	mg/kg	35.9	0.57%
Al 396.153†	425527.3	58.89	mg/L	1.131	5723	mg/kg	109.9	1.92%
As 188.979†	-131.6	0.6004	mg/L	0.26289	58.35	mg/kg	25.548	43.79%
As 193.696†	84.1	-0.5546	mg/L	0.11425	-53.89	mg/kg	11.103	20.60%
As 197.197†	-87.6	1.879	mg/L	0.2918	182.6	mg/kg	28.36	15.53%
B 208.889†	73.7	0.2148	mg/L	0.02357	20.87	mg/kg	2.290	10.97%
B 249.677†	332.4	0.09017	mg/L	0.004321	8.762	mg/kg	0.4199	4.79%
B 249.772†	3183.6	0.1127	mg/L	0.00949	10.95	mg/kg	0.922	8.42%
Ba 233.527†	4294.1	0.6531	mg/L	0.01434	63.47	mg/kg	1.393	2.20%
Ba 455.403†	247576.4	0.6816	mg/L	0.00420	66.24	mg/kg	0.408	0.62%
Saturated within auto integration window (code 4)								
Ba 493.408†	262650.1	0.6900	mg/L	0.00406	67.06	mg/kg	0.394	0.59%
Saturated within auto integration window (code 4)								
Be 234.861†	1550.5	0.00420	mg/L	0.000614	0.4085	mg/kg	0.05964	14.60%
Be 313.042†	3933.6	0.00714	mg/L	0.000198	0.6938	mg/kg	0.01923	2.77%
Be 313.107†	2056.7	0.00695	mg/L	0.000168	0.6753	mg/kg	0.01634	2.42%
Ca 315.887†	12049059.1	1637	mg/L	68.7	159100	mg/kg	6677.5	4.20%
Ca 317.933†	19695400.6	1517	mg/L	59.9	147500	mg/kg	5821.4	3.95%
Cd 214.440†	168.3	-0.03331	mg/L	0.019477	-3.237	mg/kg	1.8928	58.47%
Cd 226.502†	59.8	0.00435	mg/L	0.002238	0.4227	mg/kg	0.21752	51.47%
Cd 228.802†	17.9	-0.05032	mg/L	0.002394	-4.891	mg/kg	0.2327	4.76%
Ce 413.380†	739.8	0.1327	mg/L	0.00679	12.90	mg/kg	0.660	5.12%
Ce 413.764†	548.6	0.1459	mg/L	0.02382	14.17	mg/kg	2.315	16.33%
Ce 418.660†	348.5	0.1738	mg/L	0.02015	16.89	mg/kg	1.958	11.60%
Co 228.616†	84.8	0.03011	mg/L	0.001496	2.926	mg/kg	0.1454	4.97%
Co 230.786†	589.9	-0.02888	mg/L	0.006683	-2.807	mg/kg	0.6495	23.14%
Co 238.892†	1989.8	0.00823	mg/L	0.012585	0.7998	mg/kg	1.22301	152.91%
Cr 205.560†	44.7	0.1442	mg/L	0.00353	14.01	mg/kg	0.343	2.45%
Cr 267.716†	921.1	0.1462	mg/L	0.00731	14.21	mg/kg	0.711	5.00%
Cr 283.563†	6420.4	0.1478	mg/L	0.00597	14.36	mg/kg	0.580	4.04%
Saturated within auto integration window (code 4)								
Cu 224.700†	685.2	-1.398	mg/L	0.0248	-135.8	mg/kg	2.41	1.78%
Cu 324.752†	17877.0	0.4917	mg/L	0.00238	47.78	mg/kg	0.231	0.48%
Cu 327.393†	7979.2	0.5120	mg/L	0.00696	49.76	mg/kg	0.676	1.36%
Fe 238.204†	1047301.6	113.1	mg/L	2.18	10990	mg/kg	211.7	1.93%
Fe 239.562†	695128.6	113.7	mg/L	2.47	11050	mg/kg	239.9	2.17%
Fe 259.939†	1311666.4	114.5	mg/L	2.35	11120	mg/kg	228.5	2.05%
Fe 273.955†	207573.3	123.2	mg/L	0.41	11970	mg/kg	39.4	0.33%
K 766.490†	40415.5	9.043	mg/L	0.0568	878.8	mg/kg	5.52	0.63%
Li 610.362†	8263.3	-0.8990	mg/L	0.01821	-87.36	mg/kg	1.770	2.03%
Saturated within auto integration window (code 4)								
Li 670.784†	7599.0	0.07097	mg/L	0.001748	6.897	mg/kg	0.1699	2.46%
Mg 279.077†	102560.7	90.63	mg/L	0.408	8808	mg/kg	39.6	0.45%

Mg 280.271†	20739855.7	80.07	mg/L	3.181	7782	mg/kg	309.1	3.97%
Mg 285.213†	2443707.8	86.53	mg/L	1.853	8409	mg/kg	180.1	2.14%
Mn 257.610†	123628.0	2.565	mg/L	0.0142	249.3	mg/kg	1.38	0.55%
Mn 259.372†	177380.9	2.577	mg/L	0.0130	250.4	mg/kg	1.27	0.51%
Mn 260.568†	68048.3	2.371	mg/L	0.0120	230.4	mg/kg	1.17	0.51%
Mo 202.031†	35.0	-0.00748	mg/L	0.025676	-0.7266	mg/kg	2.49528	343.44%
Mo 203.845†	62.0	0.2425	mg/L	0.04212	23.56	mg/kg	4.093	17.37%
Mo 204.597†	-54.3	0.05924	mg/L	0.020870	5.757	mg/kg	2.0282	35.23%
Na 588.995†	277207.8	18.87	mg/L	0.417	1834	mg/kg	40.5	2.21%
Na 589.592†	153304.9	19.45	mg/L	0.087	1890	mg/kg	8.4	0.45%
Ni 221.648†	10.3	0.00128	mg/L	0.008584	0.1248	mg/kg	0.83419	668.56%
Ni 231.604†	388.0	0.1113	mg/L	0.00397	10.82	mg/kg	0.386	3.56%
Ni 232.003†	-32.8	0.1726	mg/L	0.01014	16.77	mg/kg	0.985	5.87%
Pb 217.000†	33.8	0.6354	mg/L	0.02499	61.75	mg/kg	2.429	3.93%
Pb 220.353†	269.7	0.4881	mg/L	0.01906	47.44	mg/kg	1.852	3.91%
Sb 206.836†	-1.9	-0.03121	mg/L	0.048796	-3.033	mg/kg	4.7420	156.34%
Sb 217.582†	-22.8	-0.1672	mg/L	0.03221	-16.24	mg/kg	3.130	19.27%
Se 196.026†	-0.6	-0.01842	mg/L	0.079615	-1.790	mg/kg	7.7372	432.24%
Se 203.985†	-253.3	2.305	mg/L	0.4856	224.0	mg/kg	47.19	21.07%
Sn 235.485†	11275.6	-1.725	mg/L	0.1932	-167.6	mg/kg	18.78	11.20%
Saturated within auto integration window (code 4)								
Sn 189.927†	-57.0	0.2810	mg/L	0.06883	27.31	mg/kg	6.689	24.49%
Sr 460.733†	10585.4	1.865	mg/L	0.0108	181.2	mg/kg	1.05	0.58%
Sr 407.771†	2599650.5	1.762	mg/L	0.0337	171.2	mg/kg	3.28	1.91%
Sr 421.552†	863207.4	1.781	mg/L	0.0357	173.0	mg/kg	3.47	2.01%
Ti 337.279†	92126.8	2.236	mg/L	0.0105	217.3	mg/kg	1.02	0.47%
Ti 334.940†	141374.6	2.250	mg/L	0.0158	218.7	mg/kg	1.54	0.70%
Ti 336.121†	95113.7	2.233	mg/L	0.0119	217.1	mg/kg	1.16	0.53%
Tl 351.924†	5.4	-0.05004	mg/L	0.034363	-4.863	mg/kg	3.3394	68.68%
Tl 190.801†	92.8	-0.1924	mg/L	0.28102	-18.69	mg/kg	27.310	146.10%
Tl 276.787†	4334.5	4.090	mg/L	0.0631	397.5	mg/kg	6.13	1.54%
V 310.230†	3306.0	0.08702	mg/L	0.000267	8.456	mg/kg	0.0260	0.31%
V 292.402†	2152.9	0.1239	mg/L	0.00395	12.04	mg/kg	0.384	3.19%
V 311.071†	3006.5	0.1140	mg/L	0.00385	11.08	mg/kg	0.374	3.38%
Zn 206.200†	1167.6	1.105	mg/L	0.0210	107.4	mg/kg	2.04	1.90%
Zn 213.857†	4983.6	1.308	mg/L	0.0351	127.1	mg/kg	3.41	2.68%
Zn 202.548†	2076.7	1.214	mg/L	0.0303	117.9	mg/kg	2.95	2.50%

Sequence No.: 20
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 11:44:11 AM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158205.4	99.55	%	0.481				0.48%
Ag 328.068†	16.1	0.00064	mg/L	0.000696				109.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-2.3	-0.00022	mg/L	0.001145				515.64%
Al 308.215†	22.1	0.01260	mg/L	0.010961				87.01%
Al 394.401†	67.4	0.01965	mg/L	0.012506				63.64%
Al 396.153†	278.9	0.03909	mg/L	0.006230				15.94%
As 188.979†	-0.1	-0.00415	mg/L	0.064333				>999.9%
As 193.696†	0.4	0.00920	mg/L	0.022380				243.23%
As 197.197†	0.7	0.03095	mg/L	0.029531				95.42%
B 208.889†	1.9	0.00753	mg/L	0.011479				152.41%
B 249.677†	2.6	0.00086	mg/L	0.003902				454.93%
B 249.772†	4.8	0.00066	mg/L	0.000819				123.16%
Ba 233.527†	-4.2	-0.00066	mg/L	0.000386				58.85%
Ba 455.403†	21.0	0.00006	mg/L	0.000123				212.07%
Ba 493.408†	89.5	0.00024	mg/L	0.000141				59.92%
Be 234.861†	7.3	0.00011	mg/L	0.000063				58.75%
Be 313.042†	8.7	0.00002	mg/L	0.000006				37.77%
Be 313.107†	2.9	0.00001	mg/L	0.000023				261.90%
Ca 315.887†	1856.5	0.2523	mg/L	0.09584				37.98%
Ca 317.933†	3251.9	0.2505	mg/L	0.10982				43.83%
Cd 214.440†	18.1	0.00456	mg/L	0.002406				52.76%
Cd 226.502†	-0.4	-0.00012	mg/L	0.001069				921.95%
Cd 228.802†	1.3	0.00008	mg/L	0.000962				>999.9%

Ce 413.380†	39.5	0.00839	mg/L	0.007871			93.77%
Ce 413.764†	46.9	0.00922	mg/L	0.006333			68.70%
Ce 418.660†	12.4	0.00227	mg/L	0.004981			219.55%
Co 228.616†	0.2	0.00007	mg/L	0.001151			>999.9%
Co 230.786†	5.2	0.00266	mg/L	0.002053			77.02%
Co 238.892†	-2.5	-0.00072	mg/L	0.000729			101.94%
Cr 205.560†	0.4	0.00064	mg/L	0.000897			140.73%
Cr 267.716†	1.5	0.00023	mg/L	0.001163			495.62%
Cr 283.563†	-7.5	-0.00040	mg/L	0.000360			90.54%
Cu 224.700†	0.4	-0.03506	mg/L	0.039995			114.08%
Cu 324.752†	-20.5	-0.00057	mg/L	0.000899			158.65%
Cu 327.393†	10.4	0.00066	mg/L	0.001413			212.61%
Fe 238.204†	153.8	0.01661	mg/L	0.006331			38.12%
Fe 239.562†	102.8	0.01681	mg/L	0.006182			36.78%
Fe 259.939†	188.5	0.01645	mg/L	0.006663			40.51%
Fe 273.955†	36.7	0.02176	mg/L	0.007138			32.80%
K 766.490†	163.6	0.03660	mg/L	0.043683			119.36%
Li 610.362†	1423.7	0.1118	mg/L	0.01845			16.51%
Li 670.784†	143.1	0.00134	mg/L	0.001414			105.76%
Mg 279.077†	20.6	0.01816	mg/L	0.007235			39.85%
Mg 280.271†	4836.4	0.01867	mg/L	0.006450			34.54%
Mg 285.213†	486.4	0.01722	mg/L	0.005026			29.19%
Mn 257.610†	20.5	0.00043	mg/L	0.000163			38.18%
Mn 259.372†	38.7	0.00059	mg/L	0.000029			4.87%
Mn 260.568†	7.3	0.00025	mg/L	0.000054			21.27%
Mo 202.031†	0.2	0.00052	mg/L	0.007237			>999.9%
Mo 203.845†	0.7	0.00344	mg/L	0.007310			212.34%
Mo 204.597†	-1.2	-0.00557	mg/L	0.009146			164.10%
Na 588.995†	1140.8	0.07767	mg/L	0.016795			21.62%
Na 589.592†	11.2	0.00144	mg/L	0.008713			605.63%
Ni 221.648†	-2.1	-0.00192	mg/L	0.003972			206.88%
Ni 231.604†	0.2	0.00009	mg/L	0.002835			>999.9%
Ni 232.003†	7.5	0.00596	mg/L	0.002278			38.20%
Pb 217.000†	-0.1	-0.00191	mg/L	0.011596			608.51%
Pb 220.353†	4.3	0.01132	mg/L	0.009725			85.93%
Sb 206.836†	-2.1	-0.02548	mg/L	0.009900			38.85%
Sb 217.582†	3.3	0.02417	mg/L	0.006077			25.14%
Se 196.026†	-4.0	-0.1273	mg/L	0.04337			34.07%
Se 203.985†	-0.3	-0.00909	mg/L	0.171361			>999.9%
Sn 235.485†	6.1	0.00580	mg/L	0.002362			40.75%
Sn 189.927†	0.9	0.01311	mg/L	0.033131			252.62%
Sr 460.733†	25.0	0.00434	mg/L	0.016519			380.47%
Sr 407.771†	861.5	0.00058	mg/L	0.000154			26.41%
Sr 421.552†	186.6	0.00038	mg/L	0.000268			69.64%
Ti 337.279†	-42.4	-0.00103	mg/L	0.000326			31.62%
Ti 334.940†	29.4	0.00046	mg/L	0.000065			14.11%
Ti 336.121†	16.3	0.00038	mg/L	0.000194			50.85%
Tl 351.924†	10.3	0.01327	mg/L	0.020923			157.65%
Tl 190.801†	2.3	0.09016	mg/L	0.061995			68.76%
Tl 276.787†	19.3	0.04554	mg/L	0.020389			44.77%
V 310.230†	-20.6	-0.00057	mg/L	0.000704			123.68%
V 292.402†	-11.3	-0.00090	mg/L	0.001465			162.25%
V 311.071†	-4.9	-0.00020	mg/L	0.000336			168.56%
Zn 206.200†	2.1	0.00223	mg/L	0.000464			20.77%
Zn 213.857†	4.6	0.00137	mg/L	0.000351			25.61%
Zn 202.548†	-0.2	-0.00012	mg/L	0.002012			>999.9%

All analyte(s) passed QC.

==========

Sequence No.: 21
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 11:45:14 AM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157174.1	98.90	%	0.693				0.70%
Ag 328.068†	-14.9	-0.00054	mg/L	0.001224				227.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	1.3	0.00014	mg/L	0.001292				950.92%

Al 308.215†	13.0	0.00724 mg/L	0.003900	53.87%
QC value within limits for Al 308.215 Recovery = Not calculated				
Al 394.401†	6.4	0.00181 mg/L	0.006632	366.01%
Al 396.153†	58.2	0.00795 mg/L	0.011781	148.19%
As 188.979†	0.2	0.00763 mg/L	0.028606	375.10%
As 193.696†	1.7	0.03978 mg/L	0.018159	45.64%
QC value within limits for As 193.696 Recovery = Not calculated				
As 197.197†	1.2	0.05367 mg/L	0.046398	86.45%
B 208.889†	2.0	0.00790 mg/L	0.008175	103.51%
B 249.677†	-0.1	-0.00002 mg/L	0.003440	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated				
B 249.772†	1.1	0.00016 mg/L	0.001425	900.86%
Ba 233.527†	-4.6	-0.00070 mg/L	0.000686	98.62%
QC value within limits for Ba 233.527 Recovery = Not calculated				
Ba 455.403†	-27.6	-0.00008 mg/L	0.000308	405.98%
Ba 493.408†	47.7	0.00013 mg/L	0.000120	95.46%
Be 234.861†	-4.6	-0.00007 mg/L	0.000093	132.10%
Be 313.042†	-8.9	-0.00002 mg/L	0.000049	275.00%
QC value within limits for Be 313.042 Recovery = Not calculated				
Be 313.107†	0.9	0.00000 mg/L	0.000059	>999.9%
Ca 315.887†	302.4	0.04110 mg/L	0.002625	6.39%
QC value within limits for Ca 315.887 Recovery = Not calculated				
Ca 317.933†	484.2	0.03730 mg/L	0.002255	6.04%
Cd 214.440†	24.1	0.00610 mg/L	0.002241	36.75%
QC value within limits for Cd 214.440 Recovery = Not calculated				
Cd 226.502†	0.3	0.00009 mg/L	0.000994	>999.9%
Cd 228.802†	0.4	-0.00103 mg/L	0.000725	70.32%
Ce 413.380†	-10.5	-0.00223 mg/L	0.009531	427.38%
QC value within limits for Ce 413.380 Recovery = Not calculated				
Ce 413.764†	5.1	0.00100 mg/L	0.006266	626.19%
Ce 418.660†	19.5	0.00358 mg/L	0.009194	256.51%
Co 228.616†	-2.1	-0.00090 mg/L	0.001850	204.46%
Co 230.786†	11.1	0.00570 mg/L	0.002686	47.14%
Co 238.892†	-3.7	-0.00091 mg/L	0.000784	86.31%
QC value within limits for Co 238.892 Recovery = Not calculated				
Cr 205.560†	0.5	0.00083 mg/L	0.000645	78.01%
QC value within limits for Cr 205.560 Recovery = Not calculated				
Cr 267.716†	-4.7	-0.00075 mg/L	0.000653	87.11%
Cr 283.563†	-1.2	-0.00006 mg/L	0.000878	>999.9%
Cu 224.700†	-3.7	-0.05443 mg/L	0.018595	34.16%
QC value within limits for Cu 224.700 Recovery = Not calculated				
Cu 324.752†	-32.0	-0.00089 mg/L	0.000197	22.13%
Cu 327.393†	-7.8	-0.00050 mg/L	0.001124	226.24%
Fe 238.204†	17.5	0.00189 mg/L	0.000706	37.35%
Fe 239.562†	13.7	0.00224 mg/L	0.000721	32.19%
Fe 259.939†	33.6	0.00293 mg/L	0.001277	43.55%
Fe 273.955†	4.4	0.00262 mg/L	0.004569	174.28%
QC value within limits for Fe 273.955 Recovery = Not calculated				
K 766.490†	86.9	0.01945 mg/L	0.020131	103.49%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	1944.4	0.1529 mg/L	0.03776	24.69%
Li 670.784†	205.0	0.00191 mg/L	0.000574	29.98%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	3.6	0.00318 mg/L	0.017541	551.96%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	1160.5	0.00448 mg/L	0.000147	3.27%
Mg 285.213†	122.2	0.00433 mg/L	0.000502	11.61%
Mn 257.610†	1.5	0.00003 mg/L	0.000087	272.48%
Mn 259.372†	5.0	0.00005 mg/L	0.000116	243.72%
Mn 260.568†	-4.4	-0.00015 mg/L	0.000094	60.96%
QC value within limits for Mn 260.568 Recovery = Not calculated				
Mo 202.031†	2.1	0.00659 mg/L	0.001509	22.92%
Mo 203.845†	1.7	0.00887 mg/L	0.006944	78.34%
QC value within limits for Mo 203.845 Recovery = Not calculated				
Mo 204.597†	1.2	0.00537 mg/L	0.001347	25.09%
Na 588.995†	1703.1	0.1160 mg/L	0.02972	25.63%
QC value within limits for Na 588.995 Recovery = Not calculated				
Na 589.592†	39.1	0.00495 mg/L	0.015592	315.27%
Ni 221.648†	-8.3	-0.00746 mg/L	0.000549	7.36%
QC value within limits for Ni 221.648 Recovery = Not calculated				
Ni 231.604†	-6.9	-0.00283 mg/L	0.001281	45.21%

Ni 232.003†	3.2	0.00254 mg/L	0.004715		185.83%
Pb 217.000†	-3.1	-0.04039 mg/L	0.044221		109.49%
Pb 220.353†	2.9	0.00752 mg/L	0.002594		34.49%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.8	-0.01043 mg/L	0.024220		232.26%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	0.2	0.00154 mg/L	0.008815		573.30%
Se 196.026†	-1.5	-0.04659 mg/L	0.057135		122.62%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	-1.3	-0.05525 mg/L	0.035311		63.92%
Sn 235.485†	1.5	0.00186 mg/L	0.004200		225.88%
Sn 189.927†	0.9	0.01382 mg/L	0.034145		247.02%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 460.733†	3.8	0.00067 mg/L	0.013897		>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Sr 407.771†	148.8	0.00010 mg/L	0.000042		41.20%
Sr 421.552†	51.4	0.00011 mg/L	0.000059		55.34%
Ti 337.279†	8.4	0.00020 mg/L	0.000814		398.65%
QC value within limits for Ti 337.279 Recovery = Not calculated					
Ti 334.940†	19.3	0.00029 mg/L	0.000125		43.64%
Ti 336.121†	16.2	0.00038 mg/L	0.000153		40.54%
Tl 351.924†	5.7	0.00793 mg/L	0.016317		205.73%
Tl 190.801†	1.9	0.07528 mg/L	0.098554		130.91%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	17.6	0.04219 mg/L	0.033134		78.53%
V 310.230†	12.6	0.00035 mg/L	0.001472		424.83%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	-16.1	-0.00107 mg/L	0.000668		62.36%
V 311.071†	8.6	0.00038 mg/L	0.000392		104.54%
Zn 206.200†	3.7	0.00397 mg/L	0.005043		127.11%
Zn 213.857†	-1.7	-0.00053 mg/L	0.000456		86.88%
QC value within limits for Zn 213.857 Recovery = Not calculated					
Zn 202.548†	-6.8	-0.00418 mg/L	0.001058		25.31%

All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 11:46:17 AM**
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163040.7	102.6	%	1.28				1.25%
Ag 328.068†	6905.5	0.2569	mg/L	0.00367				1.43%
QC value within limits for Ag 328.068 Recovery = 102.78%								
Ag 338.289†	2864.5	0.2650	mg/L	0.00461				1.74%
Al 308.215†	1757.3	0.9732	mg/L	0.02647				2.72%
QC value within limits for Al 308.215 Recovery = 97.32%								
Al 394.401†	3953.8	0.9834	mg/L	0.04244				4.32%
Al 396.153†	6770.8	0.9462	mg/L	0.01405				1.48%
As 188.979†	55.8	1.911	mg/L	0.0261				1.37%
As 193.696†	82.5	1.890	mg/L	0.0923				4.89%
QC value within limits for As 193.696 Recovery = 94.49%								
As 197.197†	42.4	1.832	mg/L	0.1331				7.26%
B 208.889†	237.4	0.9531	mg/L	0.00582				0.61%
B 249.677†	3122.6	1.037	mg/L	0.0250				2.41%
B 249.772†	6915.7	1.041	mg/L	0.0228				2.19%
QC value within limits for B 249.772 Recovery = 104.07%								
Ba 233.527†	6838.9	1.049	mg/L	0.0215				2.05%
QC value within limits for Ba 233.527 Recovery = 104.90%								
Ba 455.403†	365395.5	1.006	mg/L	0.0504				5.01%
Ba 493.408†	379152.1	0.9970	mg/L	0.05050				5.07%
Be 234.861†	63965.0	0.9724	mg/L	0.01777				1.83%
Be 313.042†	525806.8	0.9836	mg/L	0.05051				5.14%
QC value within limits for Be 313.042 Recovery = 98.36%								
Be 313.107†	272853.2	0.9855	mg/L	0.05044				5.12%
Ca 315.887†	7293.5	0.9881	mg/L	0.01198				1.21%
QC value within limits for Ca 315.887 Recovery = 98.81%								
Ca 317.933†	12075.9	0.9298	mg/L	0.01964				2.11%

Cd 214.440†	3775.0	0.9551 mg/L	0.01986	2.08%
QC value within limits for Cd 214.440 Recovery = 95.51%				
Cd 226.502†	3549.6	0.9481 mg/L	0.02204	2.32%
Cd 228.802†	3445.8	0.8739 mg/L	0.01888	2.16%
Ce 413.380†	4704.1	0.9991 mg/L	0.02308	2.31%
Ce 413.764†	4959.1	0.9756 mg/L	0.01028	1.05%
Ce 418.660†	5338.0	0.9750 mg/L	0.02698	2.77%
Co 228.616†	2178.2	0.9503 mg/L	0.01719	1.81%
Co 230.786†	1844.3	0.9388 mg/L	0.02466	2.63%
Co 238.892†	3866.1	0.9489 mg/L	0.01857	1.96%
QC value within limits for Co 238.892 Recovery = 94.89%				
Cr 205.560†	561.2	0.9589 mg/L	0.02662	2.78%
QC value within limits for Cr 205.560 Recovery = 95.89%				
Cr 267.716†	6619.9	1.061 mg/L	0.0244	2.30%
Cr 283.563†	20553.6	0.9754 mg/L	0.02044	2.10%
Cu 224.700†	994.9	-24.83 mg/L	1.230	4.95%
QC value less than the lower limit for Cu 224.700 Recovery = -2483.48%				
Cu 324.752†	35202.3	0.9751 mg/L	0.01879	1.93%
Cu 327.393†	15352.4	0.9858 mg/L	0.01935	1.96%
Fe 238.204†	9508.1	1.029 mg/L	0.0180	1.75%
Saturated within auto integration window (code 4)				
Fe 239.562†	6524.0	1.064 mg/L	0.0221	2.08%
Fe 259.939†	11217.5	0.9790 mg/L	0.01888	1.93%
QC value within limits for Fe 259.939 Recovery = 97.90%				
Fe 273.955†	1835.1	1.081 mg/L	0.0235	2.17%
K 766.490†	21193.1	4.742 mg/L	0.0870	1.83%
QC value within limits for K 766.490 Recovery = 94.84%				
Li 610.362†	12268.1	0.9547 mg/L	0.08494	8.90%
QC value within limits for Li 610.362 Recovery = 95.47%				
Li 670.784†	104435.1	0.9754 mg/L	0.04693	4.81%
Mg 279.077†	1191.3	1.056 mg/L	0.0218	2.07%
QC value within limits for Mg 279.077 Recovery = 105.56%				
Mg 280.271†	247238.7	0.9537 mg/L	0.04833	5.07%
Mg 285.213†	26383.2	0.9359 mg/L	0.02258	2.41%
Mn 257.610†	49480.0	1.028 mg/L	0.0199	1.94%
Mn 259.372†	67444.4	1.029 mg/L	0.0182	1.77%
Mn 260.568†	27262.1	0.9520 mg/L	0.01899	2.00%
QC value within limits for Mn 260.568 Recovery = 95.20%				
Mo 202.031†	0.0	0.00022 mg/L	0.005357	>999.9%
Mo 203.845†	3.9	0.01919 mg/L	0.012002	62.54%
Mo 204.597†	0.0	0.00129 mg/L	0.006190	480.77%
Na 588.995†	13740.2	0.9355 mg/L	0.06748	7.21%
Na 589.592†	7844.7	0.9950 mg/L	0.01522	1.53%
Ni 221.648†	1061.4	0.9537 mg/L	0.02322	2.44%
QC value within limits for Ni 221.648 Recovery = 95.37%				
Ni 231.604†	2354.8	0.9608 mg/L	0.02020	2.10%
Ni 232.003†	1229.4	0.9232 mg/L	0.02253	2.44%
Pb 217.000†	150.3	1.953 mg/L	0.0805	4.12%
Pb 220.353†	745.8	1.947 mg/L	0.0394	2.03%
QC value within limits for Pb 220.353 Recovery = 97.35%				
Sb 206.836†	-2.2	-0.04250 mg/L	0.034385	80.91%
Sb 217.582†	0.6	0.00416 mg/L	0.020820	500.39%
Se 196.026†	29.0	0.9151 mg/L	0.07928	8.66%
QC value within limits for Se 196.026 Recovery = 91.51%				
Se 203.985†	29.1	0.8080 mg/L	0.05260	6.51%
Sn 235.485†	93.4	-0.01232 mg/L	0.002776	22.53%
Sn 189.927†	0.4	0.00705 mg/L	0.025887	367.06%
Sr 460.733†	5604.9	0.9816 mg/L	0.01938	1.97%
QC value within limits for Sr 460.733 Recovery = 98.16%				
Sr 407.771†	1458961.7	0.9987 mg/L	0.05055	5.06%
Sr 421.552†	483406.3	0.9972 mg/L	0.05144	5.16%
Ti 337.279†	4.6	0.00026 mg/L	0.001643	622.38%
Ti 334.940†	12.7	-0.00004 mg/L	0.000183	484.73%
Ti 336.121†	35.1	0.00045 mg/L	0.000091	20.44%
Tl 351.924†	3320.2	4.570 mg/L	0.0976	2.13%
QC value within limits for Tl 351.924 Recovery = 91.40%				
Tl 190.801†	124.6	4.844 mg/L	0.1488	3.07%
QC value within limits for Tl 190.801 Recovery = 96.89%				
Tl 276.787†	1501.4	3.568 mg/L	0.0471	1.32%
V 310.230†	35091.0	0.9577 mg/L	0.01851	1.93%
QC value within limits for V 310.230 Recovery = 95.77%				

V 292.402†	13422.7	0.9611	mg/L	0.01831			1.90%
V 311.071†	21359.3	0.9668	mg/L	0.01819			1.88%
Zn 206.200†	879.3	0.9325	mg/L	0.02702			2.90%
Zn 213.857†	3284.5	1.002	mg/L	0.0199			1.99%
QC value within limits for Zn 213.857 Recovery = 100.25%							
Zn 202.548†	1645.2	1.002	mg/L	0.0202			2.01%

QC Failed. Continue with analysis.

==========

Sequence No.: 23 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 11:47:23 AM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	154942.8	97.50	%	5.427				5.57%
Ag 328.068†	-30.7	-0.00117	mg/L	0.000827				70.55%
Ag 338.289†	-205.7	-0.00835	mg/L	0.007575				90.72%
Al 308.215†	61.7	0.01282	mg/L	0.013633				106.35%
Al 394.401†	44.0	0.01428	mg/L	0.015335				107.38%
Al 396.153†	306.9	0.00991	mg/L	0.006002				60.57%
As 188.979†	0.3	0.01359	mg/L	0.065981				485.64%
As 193.696†	2.6	0.05973	mg/L	0.041000				68.65%
As 197.197†	-0.4	-0.01781	mg/L	0.103713				582.32%
B 208.889†	8.2	0.03274	mg/L	0.031226				95.38%
B 249.677†	59.6	0.02048	mg/L	0.002470				12.06%
B 249.772†	128.5	0.01971	mg/L	0.000729				3.70%
Ba 233.527†	-105.6	-0.01436	mg/L	0.000820				5.71%
Ba 455.403†	121.0	0.00033	mg/L	0.000160				48.10%
Ba 493.408†	23.2	0.00006	mg/L	0.000321				526.66%
Be 234.861†	1.9	0.00016	mg/L	0.000119				75.13%
Be 313.042†	147.5	0.00026	mg/L	0.000159				62.34%
Be 313.107†	132.0	0.00027	mg/L	0.000158				58.22%
Ca 315.887†	359.5	0.04775	mg/L	0.031554				66.09%
Ca 317.933†	625.5	0.04819	mg/L	0.023928				49.66%
Cd 214.440†	-1.8	0.00146	mg/L	0.007723				528.92%
Cd 226.502†	0.3	-0.00011	mg/L	0.000939				840.86%
Cd 228.802†	7.3	0.00024	mg/L	0.001570				648.26%
Ce 413.380†	9.1	0.00194	mg/L	0.020567				>999.9%
Ce 413.764†	7.0	0.00397	mg/L	0.003017				75.93%
Ce 418.660†	-39.2	-0.00408	mg/L	0.007416				181.56%
Co 228.616†	-5.9	-0.00393	mg/L	0.001640				41.77%
Co 230.786†	34.3	0.01245	mg/L	0.019531				156.92%
Co 238.892†	-10.2	-0.00112	mg/L	0.001153				103.10%
Cr 205.560†	0.6	0.00015	mg/L	0.004216				>999.9%
Cr 267.716†	6.2	0.00060	mg/L	0.002084				349.99%
Cr 283.563†	21.8	0.00119	mg/L	0.001281				107.47%
Cu 224.700†	-1.4	-0.04732	mg/L	0.036391				76.90%
Cu 324.752†	26.6	0.00037	mg/L	0.000367				98.53%
Cu 327.393†	-14.8	-0.00012	mg/L	0.000983				816.82%
Fe 238.204†	56.9	0.00614	mg/L	0.002922				47.62%
Fe 239.562†	25.9	0.00469	mg/L	0.002943				62.75%
Fe 259.939†	71.1	0.00621	mg/L	0.001902				30.66%
Fe 273.955†	6.1	0.00642	mg/L	0.006168				96.06%
K 766.490†	273.6	0.06122	mg/L	0.034421				56.23%
Li 610.362†	2956.0	0.2281	mg/L	0.27443				120.29%
Li 670.784†	178.1	0.00166	mg/L	0.001203				72.32%
Mg 279.077†	1.8	0.00579	mg/L	0.007998				138.25%
Mg 280.271†	1421.3	0.00548	mg/L	0.002813				51.29%
Mg 285.213†	137.9	0.00489	mg/L	0.003929				80.40%
Mn 257.610†	16.8	0.00035	mg/L	0.000214				61.34%
Mn 259.372†	393.7	0.00098	mg/L	0.000113				11.45%
Mn 260.568†	15.9	0.00056	mg/L	0.000126				22.70%
Mo 202.031†	320.1	0.9963	mg/L	0.05868				5.89%
Mo 203.845†	198.3	1.028	mg/L	0.0739				7.19%
QC value within limits for Mo 203.845 Recovery = 102.76%								
Mo 204.597†	216.9	1.008	mg/L	0.0678				6.73%
Na 588.995†	3256.5	0.2217	mg/L	0.25755				116.17%
Na 589.592†	304.7	0.03594	mg/L	0.017486				48.65%

Ni 221.648†	-15.7	-0.01410	mg/L	0.003800			26.94%
Ni 231.604†	4.3	0.00097	mg/L	0.000963			99.11%
Ni 232.003†	8.5	0.00074	mg/L	0.007285			988.94%
Pb 217.000†	0.4	0.00556	mg/L	0.024360			437.93%
Pb 220.353†	-3.9	-0.01024	mg/L	0.012797			125.02%
Sb 206.836†	156.8	1.937	mg/L	0.1097			5.66%
QC value within limits for Sb 206.836 Recovery = 96.85%							
Sb 217.582†	278.6	2.040	mg/L	0.1396			6.84%
Se 196.026†	-2.3	-0.07131	mg/L	0.041214			57.80%
Se 203.985†	1.8	-0.04899	mg/L	0.066166			135.06%
Sn 235.485†	1020.4	1.542	mg/L	0.1048			6.80%
Sn 189.927†	348.5	5.246	mg/L	0.3324			6.34%
QC value within limits for Sn 189.927 Recovery = 104.92%							
Sr 460.733†	-14.7	-0.00237	mg/L	0.007144			300.87%
Sr 407.771†	317.3	0.00022	mg/L	0.000201			93.07%
Sr 421.552†	59.2	0.00012	mg/L	0.000243			198.76%
Ti 337.279†	39088.2	0.9487	mg/L	0.04303			4.54%
QC value within limits for Ti 337.279 Recovery = 94.87%							
Ti 334.940†	64797.9	0.9476	mg/L	0.04346			4.59%
Ti 336.121†	41306.3	0.9532	mg/L	0.04301			4.51%
Tl 351.924†	22.3	0.02715	mg/L	0.054762			201.71%
Tl 190.801†	0.3	0.01051	mg/L	0.053861			512.27%
Tl 276.787†	23.2	0.05593	mg/L	0.045413			81.19%
V 310.230†	129.3	0.00313	mg/L	0.006644			212.50%
V 292.402†	-255.6	-0.00345	mg/L	0.000412			11.94%
V 311.071†	365.0	0.00282	mg/L	0.001242			44.07%
Zn 206.200†	3.5	0.00375	mg/L	0.001236			32.91%
Zn 213.857†	4.8	0.00184	mg/L	0.000947			51.51%
Zn 202.548†	0.2	0.00014	mg/L	0.000975			692.46%

All analyte(s) passed QC.

==========

Sequence No.: 24 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 11:48:23 AM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160510.3	101.0	%	1.32				1.31%
Ag 328.068†	-29.0	0.00564	mg/L	0.001465				25.98%
Ag 338.289†	27.9	0.00265	mg/L	0.000584				22.03%
Al 308.215†	171925.7	97.37	mg/L	0.532				0.55%
QC value within limits for Al 308.215 Recovery = 97.37%								
Al 394.401†	279708.1	97.33	mg/L	0.925				0.95%
Al 396.153†	672408.3	93.97	mg/L	0.794				0.84%
As 188.979†	-19.3	-0.3730	mg/L	0.09076				24.33%
As 193.696†	6.0	0.1160	mg/L	0.01066				9.19%
As 197.197†	-1.7	0.1065	mg/L	0.07603				71.40%
B 208.889†	29.6	0.05978	mg/L	0.004569				7.64%
B 249.677†	66.6	0.00519	mg/L	0.001022				19.71%
B 249.772†	2072.7	0.00468	mg/L	0.004950				105.77%
Ba 233.527†	25.2	-0.00098	mg/L	0.000531				54.34%
Ba 455.403†	-101.7	-0.00028	mg/L	0.000349				124.83%
Ba 493.408†	138.2	-0.00021	mg/L	0.000247				117.83%
Be 234.861†	1031.5	-0.00061	mg/L	0.000224				36.46%
Be 313.042†	-15.7	0.00001	mg/L	0.000027				203.47%
Be 313.107†	-3.6	-0.00001	mg/L	0.000019				174.57%
Ca 315.887†	716852.0	97.42	mg/L	0.845				0.87%
QC value within limits for Ca 315.887 Recovery = 97.42%								
Ca 317.933†	1192931.7	91.91	mg/L	0.879				0.96%
Cd 214.440†	72.5	-0.00278	mg/L	0.006240				224.17%
Cd 226.502†	25.2	-0.00333	mg/L	0.001870				56.17%
Cd 228.802†	3.0	-0.00314	mg/L	0.000970				30.84%
Ce 413.380†	150.1	0.01137	mg/L	0.021533				189.34%
Ce 413.764†	-59.6	0.01508	mg/L	0.000163				1.08%
Ce 418.660†	-98.8	-0.01158	mg/L	0.006476				55.95%
Co 228.616†	0.7	-0.00056	mg/L	0.000244				43.18%
Co 230.786†	228.9	0.00352	mg/L	0.006379				181.04%
Co 238.892†	1432.9	-0.01103	mg/L	0.005961				54.05%

Cr 205.560†	-2.5	-0.00014	mg/L	0.007109	>999.9%
Cr 267.716†	12.3	0.00342	mg/L	0.000329	9.63%
Cr 283.563†	2855.0	0.00179	mg/L	0.002782	155.76%
Cu 224.700†	146.8	-0.07606	mg/L	0.007383	9.71%
Cu 324.752†	87.1	-0.00080	mg/L	0.000054	6.67%
Cu 327.393†	18.7	0.00116	mg/L	0.000726	62.36%
Fe 238.204†	871052.0	94.07	mg/L	0.814	0.87%
Fe 239.562†	577576.7	94.44	mg/L	0.845	0.89%
Fe 259.939†	1080112.4	94.26	mg/L	0.846	0.90%
Fe 273.955†	173911.6	103.2	mg/L	0.53	0.51%
QC value within limits for Fe 273.955 Recovery = 103.20%					
K 766.490†	416751.0	93.25	mg/L	1.079	1.16%
QC value within limits for K 766.490 Recovery = 93.25%					
Li 610.362†	1483.5	-0.06308	mg/L	0.058714	93.08%
Li 670.784†	246.8	0.00230	mg/L	0.000383	16.61%
Mg 279.077†	67138.0	59.31	mg/L	0.299	0.50%
QC value within limits for Mg 279.077 Recovery = 98.85%					
Mg 280.271†	14381440.2	55.52	mg/L	0.273	0.49%
Mg 285.213†	1535377.5	54.36	mg/L	0.532	0.98%
Mn 257.610†	102.6	0.00017	mg/L	0.000461	270.25%
Mn 259.372†	7300.2	-0.00092	mg/L	0.000606	65.61%
Saturated within auto integration window (code 4)					
Mn 260.568†	139.1	-0.00107	mg/L	0.000373	34.84%
Mo 202.031†	-0.7	0.00454	mg/L	0.006028	132.92%
Mo 203.845†	39.6	0.1535	mg/L	0.01583	10.31%
Mo 204.597†	-8.5	-0.02092	mg/L	0.017323	82.80%
Na 588.995†	1401926.2	95.45	mg/L	0.890	0.93%
Na 589.592†	757742.9	96.11	mg/L	0.927	0.96%
QC value within limits for Na 589.592 Recovery = 96.11%					
Ni 221.648†	5.4	-0.00183	mg/L	0.004353	237.79%
Ni 231.604†	10.6	0.00153	mg/L	0.002478	161.53%
Ni 232.003†	-105.2	0.00193	mg/L	0.008832	458.30%
Pb 217.000†	21.2	-0.07831	mg/L	0.040468	51.68%
Pb 220.353†	6.8	0.03770	mg/L	0.000989	2.62%
Sb 206.836†	-4.6	-0.05655	mg/L	0.025774	45.58%
Sb 217.582†	2.1	0.01513	mg/L	0.036694	242.52%
Se 196.026†	0.8	0.02598	mg/L	0.133487	513.72%
Se 203.985†	-53.6	-1.550	mg/L	0.0466	3.01%
Sn 235.485†	9757.7	-0.9983	mg/L	0.21281	21.32%
Saturated within auto integration window (code 4)					
Sn 189.927†	-15.1	-0.1598	mg/L	0.01200	7.51%
Sr 460.733†	128.5	0.02718	mg/L	0.011458	42.15%
Sr 407.771†	1850.9	0.00018	mg/L	0.000107	58.80%
Sr 421.552†	613.7	0.00127	mg/L	0.000090	7.08%
Ti 337.279†	12.1	0.00069	mg/L	0.000435	63.06%
Ti 334.940†	-806.2	-0.00092	mg/L	0.000305	33.15%
Ti 336.121†	-91.5	0.00007	mg/L	0.000343	473.87%
Tl 351.924†	13.7	-0.00188	mg/L	0.009855	524.85%
Tl 190.801†	12.9	0.3093	mg/L	0.01875	6.06%
Tl 276.787†	2920.5	2.880	mg/L	0.1687	5.86%
V 310.230†	-701.6	-0.01921	mg/L	0.000839	4.37%
V 292.402†	238.3	-0.00440	mg/L	0.000376	8.54%
V 311.071†	-332.1	-0.01701	mg/L	0.000467	2.74%
Zn 206.200†	19.5	0.01275	mg/L	0.002520	19.77%
Zn 213.857†	142.6	0.02277	mg/L	0.001457	6.40%
Zn 202.548†	34.0	0.01740	mg/L	0.001207	6.94%

All analyte(s) passed QC.

==========

Sequence No.: 25 **Autosampler Location: 10**
Sample ID: blank **Date Collected: 10/26/2009 11:49:34 AM**
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	154271.4	97.07	%	3.935				4.05%
Ag 328.068†	-17.7	-0.00064	mg/L	0.001483				230.20%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	9.9	0.00095	mg/L	0.000823				86.62%

Al 308.215†	66.0	0.03742 mg/L	0.017886	47.79%
Al 394.401†	76.5	0.02670 mg/L	0.005819	21.80%
Al 396.153†	320.4	0.04498 mg/L	0.010553	23.46%
As 188.979†	-0.6	-0.01965 mg/L	0.020375	103.68%
As 193.696†	1.2	0.02792 mg/L	0.029730	106.50%
As 197.197†	-1.1	-0.04893 mg/L	0.040818	83.43%
B 208.889†	0.3	0.00104 mg/L	0.024657	>999.9%
B 249.677†	10.7	0.00356 mg/L	0.002551	71.66%
B 249.772†	2.9	0.00039 mg/L	0.000288	74.31%
Ba 233.527†	0.7	0.00009 mg/L	0.000788	866.59%
Ba 455.403†	-23.0	-0.00006 mg/L	0.000447	705.65%
Ba 493.408†	30.9	0.00008 mg/L	0.000036	44.48%
Be 234.861†	-8.0	-0.00013 mg/L	0.000120	95.34%
Be 313.042†	45.7	0.00008 mg/L	0.000102	128.39%
Be 313.107†	28.9	0.00010 mg/L	0.000115	109.87%
Ca 315.887†	417.7	0.05678 mg/L	0.008326	14.67%
Ca 317.933†	739.1	0.05694 mg/L	0.006390	11.22%
Cd 214.440†	40.9	0.01037 mg/L	0.008740	84.28%
Cd 226.502†	-1.2	-0.00033 mg/L	0.000651	199.49%
Cd 228.802†	0.5	-0.00068 mg/L	0.000901	133.05%
Ce 413.380†	-24.6	-0.00524 mg/L	0.007218	137.77%
Ce 413.764†	-1.4	-0.00027 mg/L	0.018932	>999.9%
Ce 418.660†	21.4	0.00390 mg/L	0.003732	95.64%
Co 228.616†	1.5	0.00065 mg/L	0.002321	356.18%
Co 230.786†	27.0	0.01385 mg/L	0.013746	99.23%
Co 238.892†	-8.5	-0.00217 mg/L	0.000513	23.60%
Cr 205.560†	-0.3	-0.00056 mg/L	0.003413	604.98%
Cr 267.716†	5.0	0.00081 mg/L	0.001222	151.46%
Cr 283.563†	8.3	0.00037 mg/L	0.000696	186.93%
Cu 224.700†	-0.0	-0.03442 mg/L	0.034559	100.41%
Cu 324.752†	-2.9	-0.00008 mg/L	0.000840	>999.9%
Cu 327.393†	-12.4	-0.00080 mg/L	0.002677	333.03%
Fe 238.204†	137.2	0.01482 mg/L	0.006609	44.58%
Fe 239.562†	85.5	0.01397 mg/L	0.008131	58.20%
Fe 259.939†	175.2	0.01529 mg/L	0.006850	44.80%
Fe 273.955†	28.5	0.01690 mg/L	0.009662	57.17%
K 766.490†	86.1	0.01927 mg/L	0.005062	26.27%
Li 610.362†	3263.2	0.2567 mg/L	0.19055	74.24%
Li 670.784†	139.0	0.00130 mg/L	0.001217	93.75%
Mg 279.077†	22.3	0.01968 mg/L	0.009008	45.78%
Mg 280.271†	3071.9	0.01186 mg/L	0.006030	50.85%
Mg 285.213†	296.8	0.01051 mg/L	0.004207	40.02%
Mn 257.610†	5.5	0.00011 mg/L	0.000271	239.26%
Mn 259.372†	16.4	0.00026 mg/L	0.000272	103.13%
Mn 260.568†	5.3	0.00018 mg/L	0.000292	158.55%
Mo 202.031†	-1.4	-0.00451 mg/L	0.001111	24.61%
Mo 203.845†	3.8	0.01966 mg/L	0.000578	2.94%
Mo 204.597†	-1.4	-0.00629 mg/L	0.009358	148.69%
Na 588.995†	3461.6	0.2357 mg/L	0.19074	80.93%
Na 589.592†	156.2	0.01983 mg/L	0.022612	114.03%
Ni 221.648†	-3.9	-0.00353 mg/L	0.000534	15.11%
Ni 231.604†	-4.2	-0.00172 mg/L	0.001520	88.34%
Ni 232.003†	4.0	0.00318 mg/L	0.004026	126.63%
Pb 217.000†	-2.8	-0.03625 mg/L	0.007430	20.49%
Pb 220.353†	1.6	0.00426 mg/L	0.013057	306.62%
Sb 206.836†	-3.4	-0.04225 mg/L	0.044168	104.54%
Sb 217.582†	1.0	0.00762 mg/L	0.015494	203.42%
Se 196.026†	-0.6	-0.01829 mg/L	0.033570	183.55%
Se 203.985†	-0.6	-0.02114 mg/L	0.068582	324.46%
Sn 235.485†	-2.1	-0.00571 mg/L	0.013777	241.21%
Sn 189.927†	0.8	0.01196 mg/L	0.030436	254.40%
Sr 460.733†	-46.3	-0.00814 mg/L	0.002199	27.01%
Sr 407.771†	442.9	0.00030 mg/L	0.000069	22.85%
Sr 421.552†	165.1	0.00034 mg/L	0.000147	43.27%
Ti 337.279†	-38.7	-0.00094 mg/L	0.001225	130.53%
Ti 334.940†	1.7	0.00003 mg/L	0.000136	452.99%
Ti 336.121†	14.0	0.00033 mg/L	0.000125	38.24%
Tl 351.924†	3.0	0.00426 mg/L	0.069260	>999.9%
Tl 190.801†	0.6	0.02371 mg/L	0.042634	179.81%
Tl 276.787†	22.0	0.05185 mg/L	0.028554	55.08%
V 310.230†	112.6	0.00310 mg/L	0.005515	177.97%

V 292.402†	-3.4	-0.00034	mg/L	0.001040	303.25%
V 311.071†	5.0	0.00023	mg/L	0.000994	429.03%
Zn 206.200†	1.7	0.00180	mg/L	0.000652	36.31%
Zn 213.857†	3.9	0.00120	mg/L	0.000713	59.25%
Zn 202.548†	0.9	0.00056	mg/L	0.000789	140.45%

All analyte(s) passed QC.

==========

Sequence No.: 26
Sample ID: 0909005-05

Initial Sample Wt: 0.4607 g
Dilution: 1X

Autosampler Location: 209
Date Collected: 10/26/2009 11:50:34 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	154445.4	97.18	%	2.460				2.53%
Ag 328.068†	189.0	0.02266	mg/L	0.002727	2.459	mg/kg	0.2960	12.04%
Ag 338.289†	-55.8	0.01465	mg/L	0.001326	1.589	mg/kg	0.1439	9.05%
Al 308.215†	118465.9	67.09	mg/L	0.117	7281	mg/kg	12.7	0.17%
Al 394.401†	213970.5	73.90	mg/L	0.170	8020	mg/kg	18.4	0.23%
Al 396.153†	483077.4	67.01	mg/L	1.229	7273	mg/kg	133.4	1.83%
As 188.979†	-124.4	0.1882	mg/L	0.07109	20.42	mg/kg	7.715	37.78%
As 193.696†	73.0	-0.3173	mg/L	0.20825	-34.44	mg/kg	22.602	65.63%
As 197.197†	-78.3	1.331	mg/L	0.0385	144.4	mg/kg	4.17	2.89%
B 208.889†	115.3	0.3124	mg/L	0.03538	33.90	mg/kg	3.840	11.33%
B 249.677†	654.7	0.1775	mg/L	0.00210	19.26	mg/kg	0.228	1.18%
B 249.772†	6198.8	0.2055	mg/L	0.01420	22.31	mg/kg	1.541	6.91%
Ba 233.527†	5720.2	0.8667	mg/L	0.01217	94.06	mg/kg	1.321	1.40%
Ba 455.403†	318313.2	0.8764	mg/L	0.01579	95.11	mg/kg	1.714	1.80%
Ba 493.408†	330525.3	0.8678	mg/L	0.01563	94.18	mg/kg	1.697	1.80%
Be 234.861†	2888.6	0.00560	mg/L	0.000600	0.6081	mg/kg	0.06513	10.71%
Be 313.042†	4315.8	0.00783	mg/L	0.000193	0.8500	mg/kg	0.02095	2.46%
Be 313.107†	2191.2	0.00747	mg/L	0.000101	0.8110	mg/kg	0.01095	1.35%
Ca 315.887†	10554179.2	1434	mg/L	43.1	155700	mg/kg	4672.8	3.00%
Ca 317.933†	17264378.2	1330	mg/L	39.7	144400	mg/kg	4311.1	2.99%
Cd 214.440†	305.3	-0.00564	mg/L	0.016007	-0.6124	mg/kg	1.73729	283.67%
Cd 226.502†	171.2	0.02343	mg/L	0.002513	2.543	mg/kg	0.2727	10.73%
Cd 228.802†	110.7	-0.01807	mg/L	0.003837	-1.962	mg/kg	0.4164	21.23%
Ce 413.380†	869.5	0.1361	mg/L	0.00592	14.77	mg/kg	0.643	4.35%
Ce 413.764†	313.5	0.1310	mg/L	0.01404	14.22	mg/kg	1.524	10.72%
Ce 418.660†	380.0	0.1657	mg/L	0.00570	17.98	mg/kg	0.619	3.44%
Co 228.616†	121.7	0.04106	mg/L	0.000532	4.457	mg/kg	0.0578	1.30%
Co 230.786†	829.1	0.00271	mg/L	0.013198	0.2944	mg/kg	1.43243	486.63%
Co 238.892†	3681.1	0.00701	mg/L	0.007518	0.7609	mg/kg	0.81590	107.23%
Cr 205.560†	195.3	0.3932	mg/L	0.00197	42.67	mg/kg	0.213	0.50%
Cr 267.716†	2596.1	0.4159	mg/L	0.00726	45.13	mg/kg	0.788	1.75%
Cr 283.563†	13655.7	0.3345	mg/L	0.00232	36.31	mg/kg	0.252	0.69%
Cu 224.700†	962.7	-1.581	mg/L	0.0323	-171.6	mg/kg	3.51	2.05%
Cu 324.752†	20994.8	0.5742	mg/L	0.00183	62.32	mg/kg	0.199	0.32%
Cu 327.393†	9268.0	0.5948	mg/L	0.00329	64.55	mg/kg	0.357	0.55%
Fe 238.204†	2045578.2	220.9	mg/L	3.65	23980	mg/kg	395.8	1.65%
Fe 239.562†	1362822.3	222.9	mg/L	3.78	24190	mg/kg	410.1	1.70%
Fe 259.939†	2561148.6	223.5	mg/L	3.74	24260	mg/kg	406.3	1.67%
Fe 273.955†	411990.3	244.5	mg/L	0.48	26530	mg/kg	51.7	0.19%
K 766.490†	37633.2	8.421	mg/L	0.0408	913.9	mg/kg	4.43	0.48%
Li 610.362†	9206.6	-0.7803	mg/L	0.08696	-84.69	mg/kg	9.438	11.14%
Li 670.784†	8661.3	0.08089	mg/L	0.000912	8.779	mg/kg	0.0990	1.13%
Mg 279.077†	181802.7	160.6	mg/L	0.35	17430	mg/kg	38.1	0.22%
Mg 280.271†	35464849.8	136.9	mg/L	3.95	14860	mg/kg	429.2	2.89%
Mg 285.213†	4234301.0	149.9	mg/L	2.64	16270	mg/kg	286.1	1.76%
Mn 257.610†	218623.1	4.536	mg/L	0.0039	492.3	mg/kg	0.42	0.09%
Mn 259.372†	316387.9	4.569	mg/L	0.0078	495.8	mg/kg	0.85	0.17%
Mn 260.568†	120258.4	4.189	mg/L	0.0061	454.7	mg/kg	0.66	0.15%
Mo 202.031†	35.2	0.02721	mg/L	0.010061	2.953	mg/kg	1.0919	36.97%
Mo 203.845†	88.0	0.3164	mg/L	0.02572	34.34	mg/kg	2.791	8.13%
Mo 204.597†	-58.9	-0.00062	mg/L	0.031307	-0.06776	mg/kg	3.397779	>999.9%
Na 588.995†	72507.5	4.937	mg/L	0.1784	535.8	mg/kg	19.36	3.61%
Na 589.592†	39244.3	4.978	mg/L	0.0191	540.3	mg/kg	2.08	0.38%

Ni 221.648†	242.0	0.2018 mg/L	0.00691	21.90 mg/kg	0.750	3.42%
Ni 231.604†	666.9	0.2311 mg/L	0.00428	25.08 mg/kg	0.465	1.85%
Ni 232.003†	-1.5	0.2644 mg/L	0.00745	28.70 mg/kg	0.809	2.82%
Pb 217.000†	106.5	1.307 mg/L	0.0228	141.9 mg/kg	2.48	1.75%
Pb 220.353†	552.7	1.259 mg/L	0.0387	136.7 mg/kg	4.20	3.07%
Sb 206.836†	-1.8	-0.03372 mg/L	0.048711	-3.659 mg/kg	5.2867	144.48%
Sb 217.582†	-13.0	-0.09508 mg/L	0.001891	-10.32 mg/kg	0.205	1.99%
Se 196.026†	1.8	0.05569 mg/L	0.063500	6.045 mg/kg	6.8917	114.01%
Se 203.985†	-242.3	0.8685 mg/L	0.29410	94.26 mg/kg	31.919	33.86%
Sn 235.485†	22352.0	-3.485 mg/L	0.1637	-378.2 mg/kg	17.76	4.70%
Sn 189.927†	-57.1	0.1388 mg/L	0.07113	15.07 mg/kg	7.720	51.24%
Sr 460.733†	13054.0	2.300 mg/L	0.0225	249.6 mg/kg	2.44	0.98%
Sr 407.771†	3194185.0	2.171 mg/L	0.0372	235.7 mg/kg	4.04	1.71%
Sr 421.552†	1062632.2	2.192 mg/L	0.0379	237.9 mg/kg	4.11	1.73%
Ti 337.279†	89208.7	2.166 mg/L	0.0069	235.1 mg/kg	0.74	0.32%
Ti 334.940†	137904.1	2.176 mg/L	0.0077	236.2 mg/kg	0.84	0.36%
Ti 336.121†	92309.5	2.164 mg/L	0.0055	234.8 mg/kg	0.60	0.26%
Tl 351.924†	8.1	-0.06970 mg/L	0.005978	-7.565 mg/kg	0.6488	8.58%
Tl 190.801†	92.7	0.3247 mg/L	0.11053	35.24 mg/kg	11.995	34.04%
Tl 276.787†	7280.1	6.255 mg/L	0.2024	678.9 mg/kg	21.96	3.24%
V 310.230†	4066.5	0.1064 mg/L	0.00087	11.55 mg/kg	0.094	0.82%
V 292.402†	2905.3	0.1532 mg/L	0.00295	16.63 mg/kg	0.320	1.93%
V 311.071†	2887.3	0.1044 mg/L	0.00337	11.33 mg/kg	0.366	3.23%
Zn 206.200†	2129.5	2.143 mg/L	0.0292	232.6 mg/kg	3.17	1.36%
Zn 213.857†	9044.2	2.570 mg/L	0.0390	279.0 mg/kg	4.23	1.52%
Zn 202.548†	3882.9	2.330 mg/L	0.0347	252.9 mg/kg	3.76	1.49%

Sequence No.: 27
Sample ID: B909037-DUP1

Initial Sample Wt: 0.4604 g
Dilution: 1X

Autosampler Location: 210
Date Collected: 10/26/2009 11:51:55 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156280.5	98.34	%	1.936				1.97%
Ag 328.068†	121.0	0.01934	mg/L	0.000393	2.101	mg/kg	0.0427	2.03%
Ag 338.289†	-82.3	0.01275	mg/L	0.000687	1.385	mg/kg	0.0747	5.39%
Al 308.215†	115552.6	65.44	mg/L	0.287	7107	mg/kg	31.2	0.44%
Al 394.401†	209053.0	72.22	mg/L	0.227	7843	mg/kg	24.6	0.31%
Al 396.153†	461780.5	64.06	mg/L	0.828	6957	mg/kg	90.0	1.29%
As 188.979†	-118.3	0.1686	mg/L	0.22425	18.31	mg/kg	24.354	132.99%
As 193.696†	77.9	-0.1033	mg/L	0.07473	-11.22	mg/kg	8.116	72.33%
As 197.197†	-72.1	1.357	mg/L	0.2462	147.3	mg/kg	26.74	18.15%
B 208.889†	109.2	0.2959	mg/L	0.02196	32.14	mg/kg	2.385	7.42%
B 249.677†	615.6	0.1666	mg/L	0.00266	18.09	mg/kg	0.289	1.60%
B 249.772†	5824.9	0.1869	mg/L	0.02158	20.30	mg/kg	2.344	11.55%
Ba 233.527†	5227.0	0.7916	mg/L	0.01311	85.97	mg/kg	1.424	1.66%
Ba 455.403†	290676.9	0.8003	mg/L	0.01092	86.91	mg/kg	1.186	1.36%
Ba 493.408†	302159.2	0.7933	mg/L	0.01074	86.15	mg/kg	1.166	1.35%
Be 234.861†	2715.8	0.00496	mg/L	0.000532	0.5384	mg/kg	0.05782	10.74%
Be 313.042†	4268.4	0.00775	mg/L	0.000160	0.8416	mg/kg	0.01741	2.07%
Be 313.107†	2197.2	0.00749	mg/L	0.000093	0.8129	mg/kg	0.01010	1.24%
Ca 315.887†	10005411.9	1360	mg/L	47.0	147700	mg/kg	5101.1	3.45%
Ca 317.933†	16358365.4	1260	mg/L	45.3	136900	mg/kg	4919.6	3.59%
Cd 214.440†	328.5	0.00472	mg/L	0.009674	0.5121	mg/kg	1.05063	205.18%
Cd 226.502†	157.4	0.02087	mg/L	0.000558	2.267	mg/kg	0.0606	2.67%
Cd 228.802†	107.2	-0.02217	mg/L	0.001995	-2.408	mg/kg	0.2167	9.00%
Ce 413.380†	920.1	0.1494	mg/L	0.01694	16.22	mg/kg	1.840	11.34%
Ce 413.764†	279.0	0.1210	mg/L	0.00508	13.14	mg/kg	0.552	4.20%
Ce 418.660†	460.0	0.1753	mg/L	0.02629	19.03	mg/kg	2.855	15.00%
Co 228.616†	118.4	0.04004	mg/L	0.001729	4.349	mg/kg	0.1878	4.32%
Co 230.786†	780.3	-0.00045	mg/L	0.003174	-0.04908	mg/kg	0.344732	702.35%
Co 238.892†	3456.7	-0.00166	mg/L	0.008146	-0.1807	mg/kg	0.88471	489.48%
Cr 205.560†	183.4	0.3699	mg/L	0.01795	40.17	mg/kg	1.949	4.85%
Cr 267.716†	2505.4	0.4013	mg/L	0.00885	43.59	mg/kg	0.962	2.21%
Cr 283.563†	13221.2	0.3302	mg/L	0.00346	35.86	mg/kg	0.376	1.05%
Cu 224.700†	969.2	-1.570	mg/L	0.0190	-170.5	mg/kg	2.06	1.21%

Cu 324.752†	22589.1	0.6187 mg/L	0.00366	67.20 mg/kg	0.397	0.59%
Cu 327.393†	9951.2	0.6387 mg/L	0.00356	69.36 mg/kg	0.386	0.56%
Fe 238.204†	1899415.9	205.1 mg/L	3.08	22280 mg/kg	334.4	1.50%
Fe 239.562†	1269008.0	207.5 mg/L	3.03	22540 mg/kg	329.2	1.46%
Fe 259.939†	2379754.5	207.7 mg/L	2.98	22550 mg/kg	323.5	1.43%
Fe 273.955†	390653.8	231.8 mg/L	0.94	25180 mg/kg	102.1	0.41%
K 766.490†	42937.5	9.608 mg/L	0.0551	1043 mg/kg	6.0	0.57%
Li 610.362†	8169.5	-0.7846 mg/L	0.10092	-85.21 mg/kg	10.960	12.86%
Li 670.784†	8716.6	0.08141 mg/L	0.000124	8.841 mg/kg	0.0135	0.15%
Mg 279.077†	172409.3	152.3 mg/L	0.45	16540 mg/kg	49.2	0.30%
Mg 280.271†	33074493.6	127.7 mg/L	3.99	13870 mg/kg	433.7	3.13%
Mg 285.213†	3952242.2	139.9 mg/L	2.13	15200 mg/kg	231.7	1.52%
Mn 257.610†	208456.0	4.325 mg/L	0.0165	469.8 mg/kg	1.79	0.38%
Mn 259.372†	301863.5	4.360 mg/L	0.0126	473.5 mg/kg	1.37	0.29%
Mn 260.568†	114800.6	3.999 mg/L	0.0120	434.3 mg/kg	1.30	0.30%
Mo 202.031†	29.0	0.01209 mg/L	0.012989	1.314 mg/kg	1.4107	107.40%
Mo 203.845†	89.6	0.3320 mg/L	0.05221	36.06 mg/kg	5.670	15.72%
Mo 204.597†	-57.0	-0.00573 mg/L	0.006761	-0.6223 mg/kg	0.73427	118.00%
Na 588.995†	71989.0	4.901 mg/L	0.1058	532.3 mg/kg	11.49	2.16%
Na 589.592†	40235.4	5.104 mg/L	0.0198	554.3 mg/kg	2.15	0.39%
Ni 221.648†	230.2	0.1920 mg/L	0.00984	20.85 mg/kg	1.069	5.13%
Ni 231.604†	620.7	0.2144 mg/L	0.00320	23.28 mg/kg	0.348	1.49%
Ni 232.003†	-4.8	0.2479 mg/L	0.00804	26.93 mg/kg	0.873	3.24%
Pb 217.000†	108.1	1.331 mg/L	0.0748	144.5 mg/kg	8.12	5.62%
Pb 220.353†	577.2	1.333 mg/L	0.0261	144.7 mg/kg	2.84	1.96%
Sb 206.836†	-1.1	-0.02458 mg/L	0.006647	-2.669 mg/kg	0.7218	27.05%
Sb 217.582†	-20.3	-0.1486 mg/L	0.03837	-16.14 mg/kg	4.167	25.83%
Se 196.026†	0.4	0.01356 mg/L	0.079961	1.473 mg/kg	8.6838	589.70%
Se 203.985†	-239.0	0.4250 mg/L	0.15556	46.16 mg/kg	16.894	36.60%
Sn 235.485†	21279.3	-3.176 mg/L	0.0605	-344.9 mg/kg	6.57	1.90%
Sn 189.927†	-56.3	0.09791 mg/L	0.042425	10.63 mg/kg	4.607	43.33%
Sr 460.733†	12805.4	2.256 mg/L	0.0048	245.0 mg/kg	0.52	0.21%
Sr 407.771†	3061412.8	2.081 mg/L	0.0276	226.0 mg/kg	3.00	1.33%
Sr 421.552†	1018251.5	2.100 mg/L	0.0280	228.1 mg/kg	3.04	1.33%
Ti 337.279†	90785.0	2.204 mg/L	0.0067	239.4 mg/kg	0.72	0.30%
Ti 334.940†	140811.2	2.211 mg/L	0.0032	240.1 mg/kg	0.35	0.15%
Ti 336.121†	94130.4	2.204 mg/L	0.0067	239.3 mg/kg	0.73	0.30%
Tl 351.924†	0.1	-0.07688 mg/L	0.024310	-8.349 mg/kg	2.6401	31.62%
Tl 190.801†	86.3	0.2471 mg/L	0.12614	26.83 mg/kg	13.699	51.06%
Tl 276.787†	6903.7	5.931 mg/L	0.1613	644.1 mg/kg	17.51	2.72%
V 310.230†	3956.3	0.1035 mg/L	0.00169	11.24 mg/kg	0.183	1.63%
V 292.402†	2740.7	0.1440 mg/L	0.00463	15.64 mg/kg	0.503	3.21%
V 311.071†	2875.6	0.1033 mg/L	0.00128	11.22 mg/kg	0.139	1.24%
Zn 206.200†	1963.0	1.972 mg/L	0.0390	214.2 mg/kg	4.23	1.97%
Zn 213.857†	8312.4	2.356 mg/L	0.0319	255.9 mg/kg	3.47	1.36%
Zn 202.548†	3569.4	2.139 mg/L	0.0394	232.4 mg/kg	4.28	1.84%

==========

Sequence No.: 28
Sample ID: B909037-MS1

Initial Sample Wt: 0.4668 g
Dilution: 1X

Autosampler Location: 211
Date Collected: 10/26/2009 11:53:13 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	153528.3	96.61	%	1.118				1.16%
Ag 328.068†	2970.6	0.1189	mg/L	0.00387	12.74	mg/kg	0.415	3.26%
Ag 338.289†	1443.0	0.09995	mg/L	0.004624	10.71	mg/kg	0.495	4.63%
Al 308.215†	109522.5	62.00	mg/L	0.374	6641	mg/kg	40.1	0.60%
Al 394.401†	197882.6	68.31	mg/L	0.420	7317	mg/kg	45.0	0.61%
Al 396.153†	442791.6	61.36	mg/L	0.837	6573	mg/kg	89.6	1.36%
As 188.979†	-92.5	1.146	mg/L	0.1240	122.7	mg/kg	13.28	10.82%
As 193.696†	127.4	0.9435	mg/L	0.11423	101.1	mg/kg	12.24	12.11%
As 197.197†	-55.3	2.169	mg/L	0.1837	232.3	mg/kg	19.68	8.47%
B 208.889†	347.6	1.269	mg/L	0.0189	136.0	mg/kg	2.02	1.49%
B 249.677†	3775.0	1.226	mg/L	0.0154	131.3	mg/kg	1.65	1.26%
Saturated within auto integration window (code 4)								
B 249.772†	12201.6	1.293	mg/L	0.0179	138.5	mg/kg	1.92	1.39%

Saturated within auto integration window (code 4)

Ba 233.527†	36069.6	5.528	mg/L	0.0547	592.2	mg/kg	5.86	0.99%
Ba 455.403†	2149206.8	5.917	mg/L	0.0872	633.8	mg/kg	9.34	1.47%
Ba 493.408†	2253774.5	5.926	mg/L	0.0906	634.7	mg/kg	9.70	1.53%
Be 234.861†	5445.2	0.05405	mg/L	0.000764	5.789	mg/kg	0.0818	1.41%
Be 313.042†	29826.9	0.05488	mg/L	0.000466	5.878	mg/kg	0.0499	0.85%
Be 313.107†	15239.8	0.05493	mg/L	0.000454	5.884	mg/kg	0.0486	0.83%
Ca 315.887†	10229927.8	1390	mg/L	25.9	148900	mg/kg	2774.8	1.86%
Ca 317.933†	16729386.4	1289	mg/L	25.2	138100	mg/kg	2699.1	1.96%
Cd 214.440†	3761.7	0.8773	mg/L	0.01693	93.97	mg/kg	1.814	1.93%
Cd 226.502†	3496.2	0.9170	mg/L	0.00994	98.22	mg/kg	1.065	1.08%
Cd 228.802†	3494.8	0.8579	mg/L	0.00687	91.90	mg/kg	0.735	0.80%
Ce 413.380†	797.2	0.1328	mg/L	0.01361	14.22	mg/kg	1.457	10.25%
Ce 413.764†	360.2	0.1244	mg/L	0.00948	13.32	mg/kg	1.015	7.62%
Ce 418.660†	415.2	0.1720	mg/L	0.01424	18.42	mg/kg	1.525	8.28%
Co 228.616†	1129.9	0.4818	mg/L	0.00450	51.61	mg/kg	0.482	0.93%
Co 230.786†	1645.5	0.4491	mg/L	0.01633	48.10	mg/kg	1.750	3.64%
Co 238.892†	4530.0	0.4314	mg/L	0.01346	46.21	mg/kg	1.442	3.12%
Cr 205.560†	3012.2	5.205	mg/L	0.0585	557.5	mg/kg	6.27	1.12%
Cr 267.716†	31375.2	5.024	mg/L	0.0465	538.1	mg/kg	4.98	0.93%
Cr 283.563†	110902.3	5.043	mg/L	0.0450	540.2	mg/kg	4.82	0.89%
Cu 224.700†	5749.9	-10.75	mg/L	0.167	-1152	mg/kg	17.9	1.56%
Cu 324.752†	192752.5	5.331	mg/L	0.0401	571.0	mg/kg	4.30	0.75%
Cu 327.393†	83629.8	5.372	mg/L	0.0323	575.5	mg/kg	3.46	0.60%
Fe 238.204†	1531390.0	165.4	mg/L	2.34	17710	mg/kg	250.2	1.41%
Fe 239.562†	1018469.1	166.6	mg/L	2.20	17840	mg/kg	236.0	1.32%
Fe 259.939†	1917571.7	167.4	mg/L	2.34	17930	mg/kg	250.6	1.40%
Fe 273.955†	310080.8	184.0	mg/L	1.56	19710	mg/kg	167.5	0.85%
K 766.490†	35864.1	8.025	mg/L	0.0754	859.6	mg/kg	8.08	0.94%
Li 610.362†	14625.7	-0.3342	mg/L	0.05055	-35.79	mg/kg	5.414	15.13%
Saturated within auto integration window (code 4)								
Li 670.784†	65115.6	0.6082	mg/L	0.00499	65.14	mg/kg	0.534	0.82%
Mg 279.077†	171899.1	151.9	mg/L	1.08	16270	mg/kg	115.4	0.71%
Mg 280.271†	34018774.0	131.3	mg/L	2.30	14070	mg/kg	246.8	1.75%
Mg 285.213†	3970041.8	140.6	mg/L	1.62	15060	mg/kg	173.3	1.15%
Mn 257.610†	647250.5	13.44	mg/L	0.189	1440	mg/kg	20.2	1.40%
Mn 259.372†	892196.2	13.43	mg/L	0.181	1438	mg/kg	19.3	1.34%
Mn 260.568†	385574.3	13.46	mg/L	0.107	1442	mg/kg	11.4	0.79%
Mo 202.031†	332.9	0.9487	mg/L	0.01971	101.6	mg/kg	2.11	2.08%
Mo 203.845†	268.2	1.258	mg/L	0.0154	134.7	mg/kg	1.65	1.22%
Mo 204.597†	143.5	0.9376	mg/L	0.01130	100.4	mg/kg	1.21	1.20%
Na 588.995†	71217.2	4.849	mg/L	0.0288	519.4	mg/kg	3.09	0.59%
Na 589.592†	38837.6	4.924	mg/L	0.0524	527.5	mg/kg	5.61	1.06%
Ni 221.648†	2139.6	1.911	mg/L	0.0226	204.7	mg/kg	2.42	1.18%
Ni 231.604†	5049.2	2.022	mg/L	0.0257	216.6	mg/kg	2.76	1.27%
Ni 232.003†	2628.6	2.093	mg/L	0.0184	224.2	mg/kg	1.98	0.88%
Pb 217.000†	538.9	7.047	mg/L	0.1153	754.8	mg/kg	12.35	1.64%
Pb 220.353†	2588.5	6.578	mg/L	0.0438	704.6	mg/kg	4.70	0.67%
Sb 206.836†	1.8	-0.05675	mg/L	0.018599	-6.078	mg/kg	1.9922	32.77%
Sb 217.582†	-20.9	-0.1527	mg/L	0.02696	-16.36	mg/kg	2.888	17.65%
Se 196.026†	31.6	0.9958	mg/L	0.23469	106.7	mg/kg	25.14	23.57%
Se 203.985†	-162.8	1.870	mg/L	0.4022	200.3	mg/kg	43.08	21.51%
Sn 235.485†	17058.9	-2.242	mg/L	0.0391	-240.2	mg/kg	4.19	1.74%
Sn 189.927†	3.6	1.021	mg/L	0.0778	109.3	mg/kg	8.33	7.62%
Sr 460.733†	18817.5	3.320	mg/L	0.0246	355.6	mg/kg	2.64	0.74%
Sr 407.771†	4525772.7	3.084	mg/L	0.0546	330.3	mg/kg	5.85	1.77%
Sr 421.552†	1516902.0	3.129	mg/L	0.0471	335.2	mg/kg	5.05	1.51%
Ti 337.279†	84427.3	2.050	mg/L	0.0163	219.6	mg/kg	1.75	0.80%
Ti 334.940†	130486.0	2.061	mg/L	0.0148	220.8	mg/kg	1.59	0.72%
Ti 336.121†	87499.3	2.051	mg/L	0.0162	219.7	mg/kg	1.74	0.79%
Tl 351.924†	24.1	-0.05212	mg/L	0.021318	-5.583	mg/kg	2.2834	40.90%
Tl 190.801†	82.9	0.03640	mg/L	0.319511	3.899	mg/kg	34.2236	877.77%
Tl 276.787†	6934.3	5.951	mg/L	0.1840	637.4	mg/kg	19.71	3.09%
V 310.230†	20901.6	0.5597	mg/L	0.00441	59.95	mg/kg	0.473	0.79%
V 292.402†	8659.2	0.5915	mg/L	0.00532	63.36	mg/kg	0.570	0.90%
V 311.071†	13210.8	0.5678	mg/L	0.00410	60.82	mg/kg	0.439	0.72%
Zn 206.200†	9584.1	10.06	mg/L	0.148	1077	mg/kg	15.8	1.47%
Zn 213.857†	39099.8	11.79	mg/L	0.092	1263	mg/kg	9.8	0.78%
Zn 202.548†	17706.9	10.78	mg/L	0.147	1155	mg/kg	15.8	1.36%

Sequence No.: 29
Sample ID: 0909005-06

Initial Sample Wt: 0.4999 g
Dilution: 1X

Autosampler Location: 212
Date Collected: 10/26/2009 11:54:32 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	153076.2	96.32	%	1.521				1.58%
Ag 328.068†	753.1	0.03038	mg/L	0.004391	3.039	mg/kg	0.4392	14.45%
Ag 338.289†	-83.0	0.00965	mg/L	0.005903	0.9653	mg/kg	0.59041	61.16%
Al 308.215†	80106.2	45.37	mg/L	0.210	4537	mg/kg	21.0	0.46%
Al 394.401†	147131.8	50.26	mg/L	0.362	5027	mg/kg	36.2	0.72%
Al 396.153†	330625.9	45.35	mg/L	0.353	4536	mg/kg	35.3	0.78%
As 188.979†	-133.9	2.581	mg/L	0.1168	258.2	mg/kg	11.68	4.53%
As 193.696†	74.8	-1.393	mg/L	0.0339	-139.3	mg/kg	3.39	2.43%
As 197.197†	-44.2	4.522	mg/L	0.1569	452.3	mg/kg	15.69	3.47%
B 208.889†	226.3	0.4958	mg/L	0.01812	49.59	mg/kg	1.812	3.65%
B 249.677†	895.4	0.2894	mg/L	0.00526	28.95	mg/kg	0.526	1.82%
B 249.772†	3056.6	0.3073	mg/L	0.00376	30.73	mg/kg	0.376	1.22%
Ba 233.527†	2658.7	0.4064	mg/L	0.00300	40.65	mg/kg	0.300	0.74%
Ba 455.403†	158943.3	0.4376	mg/L	0.00252	43.77	mg/kg	0.252	0.58%
Ba 493.408†	168416.8	0.4426	mg/L	0.00174	44.27	mg/kg	0.174	0.39%
Be 234.861†	803.4	0.00404	mg/L	0.000564	0.4037	mg/kg	0.05638	13.97%
Be 313.042†	3190.0	0.00574	mg/L	0.000074	0.5741	mg/kg	0.00739	1.29%
Be 313.107†	1676.6	0.00569	mg/L	0.000132	0.5692	mg/kg	0.01316	2.31%
Ca 315.887†	17367480.9	2360	mg/L	25.5	236100	mg/kg	2548.3	1.08%
Ca 317.933†	27945841.8	2153	mg/L	20.2	215300	mg/kg	2022.2	0.94%
Cd 214.440†	75.8	-0.08623	mg/L	0.021754	-8.625	mg/kg	2.1759	25.23%
Cd 226.502†	18.6	0.00344	mg/L	0.002961	0.3444	mg/kg	0.29612	85.98%
Cd 228.802†	12.7	-0.04562	mg/L	0.000807	-4.563	mg/kg	0.0807	1.77%
Ce 413.380†	384.2	0.07137	mg/L	0.015598	7.138	mg/kg	1.5601	21.86%
Ce 413.764†	376.8	0.09214	mg/L	0.021050	9.216	mg/kg	2.1054	22.84%
Ce 418.660†	77.3	0.1731	mg/L	0.01973	17.31	mg/kg	1.973	11.40%
Co 228.616†	56.8	0.02138	mg/L	0.001074	2.139	mg/kg	0.1074	5.02%
Co 230.786†	810.8	-0.08944	mg/L	0.008622	-8.946	mg/kg	0.8624	9.64%
Co 238.892†	984.5	-0.01176	mg/L	0.006945	-1.177	mg/kg	0.6946	59.04%
Cr 205.560†	5.9	0.1079	mg/L	0.01121	10.79	mg/kg	1.121	10.39%
Cr 267.716†	1228.7	0.1060	mg/L	0.00239	10.61	mg/kg	0.239	2.25%
Cr 283.563†	1199.2	0.07796	mg/L	0.005330	7.798	mg/kg	0.5331	6.84%
Cu 224.700†	235.9	-0.8492	mg/L	0.03979	-84.94	mg/kg	3.980	4.69%
Cu 324.752†	6252.8	0.1720	mg/L	0.00262	17.20	mg/kg	0.262	1.53%
Cu 327.393†	2901.7	0.1859	mg/L	0.00088	18.59	mg/kg	0.088	0.47%
Fe 238.204†	470191.8	50.78	mg/L	0.174	5079	mg/kg	17.4	0.34%
Fe 239.562†	312878.0	51.24	mg/L	0.174	5125	mg/kg	17.4	0.34%
Fe 259.939†	524940.6	45.81	mg/L	0.529	4582	mg/kg	52.9	1.16%
Saturated within auto integration window (code 4)								
Fe 273.955†	86931.1	51.59	mg/L	0.127	5160	mg/kg	12.7	0.25%
K 766.490†	11592.1	2.594	mg/L	0.0517	259.4	mg/kg	5.17	1.99%
Li 610.362†	10676.5	-1.292	mg/L	0.0698	-129.2	mg/kg	6.98	5.40%
Li 670.784†	4045.8	0.03779	mg/L	0.001458	3.779	mg/kg	0.1458	3.86%
Mg 279.077†	827108.4	731.7	mg/L	7.37	73180	mg/kg	736.8	1.01%
Mg 280.271†	Saturated3							
Mg 285.213†	16700987.9	591.3	mg/L	4.31	59150	mg/kg	431.1	0.73%
Mn 257.610†	309412.8	6.408	mg/L	0.0255	640.9	mg/kg	2.55	0.40%
Mn 259.372†	427615.5	6.463	mg/L	0.0274	646.4	mg/kg	2.74	0.42%
Mn 260.568†	169842.6	5.915	mg/L	0.0248	591.6	mg/kg	2.48	0.42%
Mo 202.031†	37.3	-0.06954	mg/L	0.015840	-6.955	mg/kg	1.5843	22.78%
Mo 203.845†	200.5	0.4036	mg/L	0.02156	40.37	mg/kg	2.157	5.34%
Mo 204.597†	-61.6	0.1626	mg/L	0.03600	16.26	mg/kg	3.601	22.14%
Na 588.995†	3018553.7	205.5	mg/L	1.45	20560	mg/kg	145.3	0.71%
Na 589.592†	1642796.7	208.4	mg/L	1.61	20840	mg/kg	160.7	0.77%
Ni 221.648†	-133.2	-0.1231	mg/L	0.01446	-12.31	mg/kg	1.446	11.75%
Ni 231.604†	230.8	0.02631	mg/L	0.007022	2.632	mg/kg	0.7024	26.69%
Ni 232.003†	-73.5	0.1325	mg/L	0.00525	13.25	mg/kg	0.525	3.96%
Pb 217.000†	-15.8	0.3630	mg/L	0.05878	36.30	mg/kg	5.879	16.20%
Pb 220.353†	119.8	-0.01219	mg/L	0.029643	-1.219	mg/kg	2.9649	243.13%
Sb 206.836†	-6.0	-0.08092	mg/L	0.032624	-8.094	mg/kg	3.2631	40.31%
Sb 217.582†	-45.1	-0.3301	mg/L	0.07129	-33.02	mg/kg	7.130	21.59%

Se 196.026†	9.2	0.2891	mg/L	0.19565	28.91	mg/kg	19.569	67.68%
Se 203.985†	-246.1	7.438	mg/L	0.2131	743.9	mg/kg	21.32	2.87%
Sn 235.485†	5095.7	-0.1578	mg/L	0.05659	-15.78	mg/kg	5.660	35.87%
Sn 189.927†	-69.1	0.6010	mg/L	0.03812	60.11	mg/kg	3.813	6.34%
Sr 460.733†	19467.2	3.425	mg/L	0.0220	342.6	mg/kg	2.20	0.64%
Sr 407.771†	4565011.8	3.100	mg/L	0.0295	310.0	mg/kg	2.95	0.95%
Sr 421.552†	1525763.2	3.147	mg/L	0.0301	314.8	mg/kg	3.01	0.96%
Ti 337.279†	72399.6	1.757	mg/L	0.0068	175.8	mg/kg	0.68	0.39%
Ti 334.940†	103571.0	1.778	mg/L	0.0109	177.8	mg/kg	1.09	0.61%
Ti 336.121†	73611.1	1.753	mg/L	0.0081	175.3	mg/kg	0.81	0.46%
Tl 351.924†	-7.7	-0.05236	mg/L	0.023806	-5.237	mg/kg	2.3811	45.47%
Tl 190.801†	97.2	-1.337	mg/L	0.1450	-133.7	mg/kg	14.50	10.85%
Tl 276.787†	23530.5	6.177	mg/L	1.1033	617.8	mg/kg	110.35	17.86%
V 310.230†	3665.9	0.09359	mg/L	0.002086	9.361	mg/kg	0.2086	2.23%
V 292.402†	2107.9	0.1413	mg/L	0.00090	14.14	mg/kg	0.090	0.64%
V 311.071†	1616.0	0.06144	mg/L	0.000601	6.145	mg/kg	0.0602	0.98%
Saturated within auto integration window (code 4)								
Zn 206.200†	471.0	0.3060	mg/L	0.00658	30.60	mg/kg	0.658	2.15%
Zn 213.857†	2220.6	0.3733	mg/L	0.00486	37.34	mg/kg	0.487	1.30%
Zn 202.548†	962.2	0.5054	mg/L	0.02066	50.55	mg/kg	2.067	4.09%

==========

Sequence No.: 30
Sample ID: 0909005-07

Autosampler Location: 213
Date Collected: 10/26/2009 11:55:47 AM
Data Type: Original

Initial Sample Wt: 0.4835 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909005-07

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	154144.9	96.99	%	1.105				1.14%
Ag 328.068†	606.1	0.02523	mg/L	0.001772	2.609	mg/kg	0.1833	7.02%
Ag 338.289†	-57.7	0.01086	mg/L	0.008148	1.123	mg/kg	0.8426	75.05%
Al 308.215†	78381.0	44.39	mg/L	0.323	4590	mg/kg	33.4	0.73%
Al 394.401†	144106.5	49.24	mg/L	0.341	5092	mg/kg	35.3	0.69%
Al 396.153†	324002.6	44.45	mg/L	0.383	4597	mg/kg	39.6	0.86%
As 188.979†	-138.5	2.234	mg/L	0.2535	231.0	mg/kg	26.22	11.35%
As 193.696†	68.9	-1.443	mg/L	0.1780	-149.2	mg/kg	18.41	12.34%
As 197.197†	-58.3	3.743	mg/L	0.3829	387.1	mg/kg	39.60	10.23%
B 208.889†	221.9	0.4899	mg/L	0.02784	50.66	mg/kg	2.879	5.68%
B 249.677†	859.9	0.2771	mg/L	0.01068	28.66	mg/kg	1.104	3.85%
B 249.772†	3038.2	0.2958	mg/L	0.00373	30.59	mg/kg	0.386	1.26%
Ba 233.527†	2620.0	0.4002	mg/L	0.00326	41.39	mg/kg	0.337	0.82%
Ba 455.403†	156939.7	0.4321	mg/L	0.00256	44.68	mg/kg	0.264	0.59%
Ba 493.408†	166128.6	0.4366	mg/L	0.00295	45.15	mg/kg	0.305	0.68%
Be 234.861†	820.0	0.00384	mg/L	0.000108	0.3966	mg/kg	0.01120	2.82%
Be 313.042†	3117.5	0.00560	mg/L	0.000066	0.5795	mg/kg	0.00687	1.19%
Be 313.107†	1621.1	0.00551	mg/L	0.000055	0.5702	mg/kg	0.00567	0.99%
Ca 315.887†	16904807.9	2297	mg/L	46.8	237600	mg/kg	4841.8	2.04%
Ca 317.933†	27299432.1	2103	mg/L	41.8	217500	mg/kg	4324.7	1.99%
Cd 214.440†	92.4	-0.07984	mg/L	0.022744	-8.256	mg/kg	2.3520	28.49%
Cd 226.502†	13.7	0.00180	mg/L	0.002988	0.1857	mg/kg	0.30897	166.35%
Cd 228.802†	21.2	-0.03949	mg/L	0.005915	-4.083	mg/kg	0.6117	14.98%
Ce 413.380†	483.7	0.09194	mg/L	0.015652	9.508	mg/kg	1.6187	17.02%
Ce 413.764†	365.0	0.09028	mg/L	0.020887	9.336	mg/kg	2.1600	23.13%
Ce 418.660†	-2.2	0.1542	mg/L	0.01883	15.94	mg/kg	1.948	12.22%
Co 228.616†	67.2	0.02592	mg/L	0.000610	2.680	mg/kg	0.0630	2.35%
Co 230.786†	794.3	-0.08714	mg/L	0.002178	-9.011	mg/kg	0.2252	2.50%
Co 238.892†	1030.4	-0.00865	mg/L	0.004151	-0.8948	mg/kg	0.42929	47.97%
Cr 205.560†	6.3	0.1060	mg/L	0.01384	10.96	mg/kg	1.431	13.06%
Cr 267.716†	1218.8	0.1076	mg/L	0.00141	11.13	mg/kg	0.146	1.31%
Cr 283.563†	1379.3	0.07978	mg/L	0.004146	8.250	mg/kg	0.4288	5.20%
Cu 224.700†	238.4	-0.8675	mg/L	0.00433	-89.71	mg/kg	0.448	0.50%
Cu 324.752†	6022.6	0.1655	mg/L	0.00179	17.12	mg/kg	0.185	1.08%
Cu 327.393†	2781.7	0.1781	mg/L	0.00199	18.42	mg/kg	0.205	1.12%
Fe 238.204†	495453.9	53.51	mg/L	0.303	5533	mg/kg	31.4	0.57%
Fe 239.562†	329217.0	53.90	mg/L	0.270	5574	mg/kg	27.9	0.50%
Fe 259.939†	585911.1	51.13	mg/L	0.436	5288	mg/kg	45.1	0.85%
Fe 273.955†	91801.0	54.48	mg/L	0.237	5634	mg/kg	24.5	0.43%

K 766.490†	12408.8	2.777 mg/L	0.0328	287.1 mg/kg	3.40	1.18%
Li 610.362†	10083.7	-1.285 mg/L	0.0224	-132.9 mg/kg	2.31	1.74%
Li 670.784†	4110.5	0.03839 mg/L	0.000130	3.970 mg/kg	0.0134	0.34%
Mg 279.077†	801976.5	709.5 mg/L	7.33	73370 mg/kg	757.6	1.03%
Mg 280.271†	Saturated3					
Mg 285.213†	16467208.3	583.1 mg/L	9.90	60300 mg/kg	1023.7	1.70%
Mn 257.610†	300863.0	6.231 mg/L	0.0347	644.3 mg/kg	3.59	0.56%
Mn 259.372†	415943.2	6.282 mg/L	0.0366	649.7 mg/kg	3.78	0.58%
Mn 260.568†	165155.3	5.752 mg/L	0.0324	594.8 mg/kg	3.35	0.56%
Mo 202.031†	28.7	-0.09076 mg/L	0.008118	-9.386 mg/kg	0.8395	8.94%
Mo 203.845†	196.6	0.4028 mg/L	0.03296	41.66 mg/kg	3.409	8.18%
Mo 204.597†	-69.1	0.1157 mg/L	0.01217	11.96 mg/kg	1.258	10.52%
Na 588.995†	3180929.2	216.6 mg/L	1.91	22400 mg/kg	197.8	0.88%
Na 589.592†	1732204.8	219.7 mg/L	1.82	22720 mg/kg	188.1	0.83%
Ni 221.648†	-49.5	-0.04802 mg/L	0.009143	-4.966 mg/kg	0.9455	19.04%
Ni 231.604†	262.2	0.04095 mg/L	0.005496	4.234 mg/kg	0.5684	13.42%
Ni 232.003†	-64.1	0.1381 mg/L	0.00500	14.28 mg/kg	0.517	3.62%
Pb 217.000†	-15.3	0.3478 mg/L	0.09047	35.96 mg/kg	9.356	26.02%
Pb 220.353†	133.6	0.03245 mg/L	0.016776	3.356 mg/kg	1.7348	51.70%
Sb 206.836†	-4.5	-0.06294 mg/L	0.046331	-6.509 mg/kg	4.7912	73.61%
Sb 217.582†	-31.2	-0.2286 mg/L	0.08358	-23.64 mg/kg	8.643	36.56%
Se 196.026†	0.2	0.00634 mg/L	0.138201	0.6555 mg/kg	14.29175	>999.9%
Se 203.985†	-247.8	6.893 mg/L	0.6275	712.8 mg/kg	64.89	9.10%
Sn 235.485†	5364.5	-0.1936 mg/L	0.04690	-20.02 mg/kg	4.850	24.22%
Sn 189.927†	-68.5	0.5672 mg/L	0.08475	58.65 mg/kg	8.765	14.94%
Sr 460.733†	19183.4	3.375 mg/L	0.0278	349.1 mg/kg	2.88	0.82%
Sr 407.771†	4480572.4	3.043 mg/L	0.0635	314.6 mg/kg	6.57	2.09%
Sr 421.552†	1504440.5	3.103 mg/L	0.0267	320.9 mg/kg	2.76	0.86%
Ti 337.279†	67972.7	1.650 mg/L	0.0116	170.6 mg/kg	1.20	0.70%
Ti 334.940†	96638.8	1.669 mg/L	0.0114	172.6 mg/kg	1.18	0.69%
Ti 336.121†	68960.4	1.644 mg/L	0.0110	170.0 mg/kg	1.14	0.67%
Tl 351.924†	-27.5	-0.08013 mg/L	0.021602	-8.287 mg/kg	2.2339	26.96%
Tl 190.801†	99.3	-1.123 mg/L	0.2172	-116.1 mg/kg	22.46	19.34%
Tl 276.787†	23106.5	6.688 mg/L	0.0720	691.7 mg/kg	7.45	1.08%
V 310.230†	3698.7	0.09461 mg/L	0.003681	9.784 mg/kg	0.3807	3.89%
V 292.402†	2103.4	0.1397 mg/L	0.00188	14.45 mg/kg	0.194	1.34%
V 311.071†	1409.9	0.05317 mg/L	0.001851	5.498 mg/kg	0.1914	3.48%
Zn 206.200†	475.8	0.3163 mg/L	0.00204	32.71 mg/kg	0.211	0.64%
Zn 213.857†	2205.0	0.3763 mg/L	0.00318	38.91 mg/kg	0.329	0.85%
Zn 202.548†	945.3	0.4974 mg/L	0.01517	51.44 mg/kg	1.569	3.05%

Sequence No.: 31
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 11:57:04 AM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157720.7	99.24	%	0.582				0.59%
Ag 328.068†	-20.8	-0.00072	mg/L	0.000831				115.31%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	15.2	0.00150	mg/L	0.002095				139.64%
Al 308.215†	211.0	0.1195	mg/L	0.12382				103.60%
Al 394.401†	395.0	0.1349	mg/L	0.12857				95.29%
Al 396.153†	745.0	0.1033	mg/L	0.12985				125.72%
As 188.979†	0.6	0.02965	mg/L	0.043099				145.36%
As 193.696†	2.2	0.04696	mg/L	0.063022				134.21%
As 197.197†	-0.4	-0.01104	mg/L	0.050853				460.74%
B 208.889†	2.9	0.01100	mg/L	0.010100				91.85%
B 249.677†	21.3	0.00704	mg/L	0.004506				64.02%
B 249.772†	20.0	0.00217	mg/L	0.001446				66.78%
Ba 233.527†	9.0	0.00136	mg/L	0.003734				274.60%
Ba 455.403†	873.2	0.00240	mg/L	0.003626				150.83%
Ba 493.408†	844.6	0.00222	mg/L	0.003763				169.54%
Be 234.861†	6.6	0.00005	mg/L	0.000191				347.53%
Be 313.042†	25.3	0.00005	mg/L	0.000098				204.94%
Be 313.107†	23.5	0.00008	mg/L	0.000092				110.11%
Ca 315.887†	19694.5	2.677	mg/L	3.8098				142.34%
Ca 317.933†	32911.0	2.536	mg/L	3.6101				142.38%

Cd 214.440†	-2.1	-0.00068	mg/L	0.007183	>999.9%
Cd 226.502†	5.5	0.00146	mg/L	0.001505	103.37%
Cd 228.802†	-0.0	-0.00145	mg/L	0.001582	109.44%
Ce 413.380†	35.4	0.00746	mg/L	0.024710	331.02%
Ce 413.764†	19.4	0.00390	mg/L	0.012587	322.37%
Ce 418.660†	-1.3	-0.00007	mg/L	0.004183	>999.9%
Co 228.616†	-0.4	-0.00018	mg/L	0.000682	384.40%
Co 230.786†	8.2	0.00344	mg/L	0.003319	96.48%
Co 238.892†	6.9	0.00060	mg/L	0.001357	226.09%
Cr 205.560†	-1.3	-0.00212	mg/L	0.005213	246.02%
Cr 267.716†	12.1	0.00187	mg/L	0.002252	120.37%
Cr 283.563†	56.1	0.00237	mg/L	0.002959	124.89%
Cu 224.700†	6.0	-0.02832	mg/L	0.006446	22.77%
Cu 324.752†	42.7	0.00118	mg/L	0.002782	236.77%
Cu 327.393†	60.8	0.00390	mg/L	0.002526	64.80%
Fe 238.204†	2553.3	0.2757	mg/L	0.32074	116.32%
Fe 239.562†	1697.0	0.2776	mg/L	0.32293	116.34%
Fe 259.939†	3168.1	0.2765	mg/L	0.32090	116.07%
Fe 273.955†	482.4	0.2863	mg/L	0.32748	114.40%
K 766.490†	152.6	0.03415	mg/L	0.047802	139.96%
Li 610.362†	1639.7	0.1263	mg/L	0.01512	11.97%
Li 670.784†	136.9	0.00128	mg/L	0.000313	24.46%
Mg 279.077†	882.1	0.7801	mg/L	0.78745	100.94%
Mg 280.271†	153604.8	0.5930	mg/L	0.79594	134.21%
Mg 285.213†	9073.4	0.3213	mg/L	0.16273	50.65%
Saturated within auto integration window (code 4)					
Mn 257.610†	648.6	0.01345	mg/L	0.014725	109.47%
Mn 259.372†	927.7	0.01387	mg/L	0.015185	109.50%
Mn 260.568†	365.8	0.01275	mg/L	0.013973	109.56%
Mo 202.031†	-0.1	-0.00051	mg/L	0.005284	>999.9%
Mo 203.845†	2.8	0.01405	mg/L	0.014594	103.89%
Mo 204.597†	-0.8	-0.00330	mg/L	0.012205	370.15%
Na 588.995†	3155.3	0.2148	mg/L	0.16084	74.87%
Na 589.592†	1087.5	0.1380	mg/L	0.17113	124.05%
Ni 221.648†	-4.4	-0.00398	mg/L	0.001765	44.34%
Ni 231.604†	3.5	0.00138	mg/L	0.005747	417.49%
Ni 232.003†	3.4	0.00301	mg/L	0.003055	101.63%
Pb 217.000†	1.0	0.01290	mg/L	0.053538	415.16%
Pb 220.353†	-1.2	-0.00357	mg/L	0.006453	180.53%
Sb 206.836†	-2.5	-0.03060	mg/L	0.029084	95.05%
Sb 217.582†	-0.3	-0.00235	mg/L	0.016951	721.31%
Se 196.026†	-0.7	-0.02155	mg/L	0.051225	237.75%
Se 203.985†	-2.9	-0.1026	mg/L	0.13116	127.88%
Sn 235.485†	27.9	-0.00158	mg/L	0.010293	651.44%
Sn 189.927†	0.2	0.00470	mg/L	0.025985	552.57%
Sr 460.733†	69.2	0.01215	mg/L	0.007875	64.80%
Sr 407.771†	6010.8	0.00408	mg/L	0.005662	138.61%
Sr 421.552†	1985.3	0.00410	mg/L	0.005663	138.29%
Ti 337.279†	139.7	0.00339	mg/L	0.003872	114.18%
Ti 334.940†	217.3	0.00348	mg/L	0.003993	114.90%
Ti 336.121†	176.0	0.00412	mg/L	0.004014	97.43%
Tl 351.924†	-0.7	-0.00164	mg/L	0.038010	>999.9%
Tl 190.801†	1.6	0.05547	mg/L	0.045303	81.68%
Tl 276.787†	57.8	0.08545	mg/L	0.025009	29.27%
V 310.230†	-15.6	-0.00044	mg/L	0.001435	326.23%
V 292.402†	-4.1	-0.00041	mg/L	0.001577	383.41%
V 311.071†	-6.8	-0.00034	mg/L	0.000995	292.62%
Zn 206.200†	7.9	0.00820	mg/L	0.007223	88.12%
Zn 213.857†	28.2	0.00829	mg/L	0.007609	91.80%
Zn 202.548†	11.8	0.00716	mg/L	0.008597	120.13%

All analyte(s) passed QC.

==========

Sequence No.: 32
Sample ID: B910044-BLK1

Initial Sample Wt: 0 g

Autosampler Location: 214
Date Collected: 10/26/2009 11:58:08 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B910044-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158678.0	99.85	%	0.641				0.64%
Ag 328.068†	6.8	0.00022	mg/L	0.000432	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	1.9	0.00018	mg/L	0.001587	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	-4.1	-0.00220	mg/L	0.013711	0.00000	mg/kg	0.000000	0.00%
Al 394.401†	12.5	0.00628	mg/L	0.010598	0.00000	mg/kg	0.000000	0.00%
Al 396.153†	88.6	0.01243	mg/L	0.008301	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.1	-0.03838	mg/L	0.062966	0.00000	mg/kg	0.000000	0.00%
As 193.696†	1.2	0.02787	mg/L	0.024255	0.000	mg/kg	0.0000	0.00%
As 197.197†	-0.7	-0.03138	mg/L	0.103384	0.00000	mg/kg	0.000000	0.00%
B 208.889†	1.0	0.00393	mg/L	0.003990	0.000	mg/kg	0.0000	0.00%
B 249.677†	0.9	0.00029	mg/L	0.000753	0.00000	mg/kg	0.000000	0.00%
B 249.772†	-13.2	-0.00205	mg/L	0.000319	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	-2.2	-0.00034	mg/L	0.000586	0.00000	mg/kg	0.000000	0.00%
Ba 455.403†	34.4	0.00009	mg/L	0.000014	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	-70.2	-0.00018	mg/L	0.000096	0.000	mg/kg	0.0000	0.00%
Be 234.861†	0.1	0.00000	mg/L	0.000091	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-8.7	-0.00001	mg/L	0.000028	0.00000	mg/kg	0.000000	0.00%
Be 313.107†	-5.5	-0.00002	mg/L	0.000040	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	900.1	0.1223	mg/L	0.02243	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	1478.4	0.1139	mg/L	0.02091	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	4.2	0.00104	mg/L	0.011162	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	-1.0	-0.00028	mg/L	0.000362	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	-2.3	-0.00142	mg/L	0.001662	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	73.5	0.01561	mg/L	0.012061	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	-25.0	-0.00491	mg/L	0.012086	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	72.9	0.01332	mg/L	0.029064	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-1.0	-0.00044	mg/L	0.001153	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	3.0	0.00150	mg/L	0.002100	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	3.9	0.00090	mg/L	0.001224	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	-1.5	-0.00255	mg/L	0.003988	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-0.4	-0.00007	mg/L	0.000785	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	-1.2	-0.00007	mg/L	0.000367	0.00000	mg/kg	0.000000	0.00%
Cu 224.700†	1.5	-0.03114	mg/L	0.020343	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	20.1	0.00056	mg/L	0.000527	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	31.6	0.00203	mg/L	0.000867	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	168.4	0.01818	mg/L	0.002047	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	112.2	0.01835	mg/L	0.002236	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	217.9	0.01901	mg/L	0.000967	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	31.4	0.01864	mg/L	0.001565	0.000	mg/kg	0.0000	0.00%
K 766.490†	-9.2	-0.00207	mg/L	0.025440	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1519.0	0.1194	mg/L	0.01899	0.000	mg/kg	0.0000	0.00%
Li 670.784†	131.9	0.00123	mg/L	0.000813	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	28.1	0.02480	mg/L	0.007543	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	6150.4	0.02375	mg/L	0.005783	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	726.9	0.02574	mg/L	0.005485	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	58.5	0.00121	mg/L	0.000042	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	92.8	0.00141	mg/L	0.000249	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	19.5	0.00068	mg/L	0.000267	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.1	-0.00030	mg/L	0.004591	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	2.6	0.01322	mg/L	0.012538	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-0.6	-0.00272	mg/L	0.006984	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	1457.2	0.09921	mg/L	0.012854	0.000	mg/kg	0.0000	0.00%
Na 589.592†	210.0	0.02665	mg/L	0.007196	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	-2.9	-0.00260	mg/L	0.003049	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	-2.5	-0.00100	mg/L	0.003501	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	-1.7	-0.00129	mg/L	0.003912	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	-3.6	-0.04619	mg/L	0.030265	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	1.8	0.00478	mg/L	0.013230	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-2.6	-0.03234	mg/L	0.022764	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	0.4	0.00301	mg/L	0.034796	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-4.2	-0.1338	mg/L	0.05591	0.000	mg/kg	0.0000	0.00%
Se 203.985†	-1.6	-0.06276	mg/L	0.047550	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	2.6	0.00107	mg/L	0.005128	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	0.9	0.01380	mg/L	0.015296	0.00000	mg/kg	0.000000	0.00%
Sr 460.733†	60.0	0.01058	mg/L	0.008735	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	301.6	0.00021	mg/L	0.000077	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	41.0	0.00008	mg/L	0.000074	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	14.4	0.00035	mg/L	0.000670	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	9.1	0.00015	mg/L	0.000043	0.000	mg/kg	0.0000	0.00%

Ti 336.121†	12.9	0.00030	mg/L	0.000370	0.00000	mg/kg	0.000000	0.00%
Tl 351.924†	-2.7	-0.00299	mg/L	0.006461	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	2.2	0.08515	mg/L	0.075788	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	23.1	0.05395	mg/L	0.002193	0.000	mg/kg	0.0000	0.00%
V 310.230†	-76.7	-0.00211	mg/L	0.001153	0.000	mg/kg	0.0000	0.00%
V 292.402†	-5.2	-0.00042	mg/L	0.000774	0.00000	mg/kg	0.000000	0.00%
V 311.071†	-26.8	-0.00122	mg/L	0.000837	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	4.3	0.00456	mg/L	0.001050	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	14.0	0.00428	mg/L	0.000361	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	5.8	0.00357	mg/L	0.002461	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 33
Sample ID: B910044-BS1

Initial Sample Wt: 0 g

Autosampler Location: 215
Date Collected: 10/26/2009 11:59:12 AM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B910044-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163884.0	103.1	%	2.04				1.98%
Ag 328.068†	2721.8	0.09775	mg/L	0.002212	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	1764.5	0.1081	mg/L	0.00233	0.000	mg/kg	0.0000	0.00%
Al 308.215†	50.1	0.00184	mg/L	0.002929	0.00000	mg/kg	0.000000	0.00%
Al 394.401†	42.7	0.02122	mg/L	0.011825	0.000	mg/kg	0.0000	0.00%
Al 396.153†	390.6	0.02436	mg/L	0.016950	0.000	mg/kg	0.0000	0.00%
As 188.979†	28.3	0.9688	mg/L	0.12866	0.000	mg/kg	0.0000	0.00%
As 193.696†	41.5	0.9501	mg/L	0.01213	0.000	mg/kg	0.0000	0.00%
As 197.197†	20.7	0.8744	mg/L	0.15889	0.000	mg/kg	0.0000	0.00%
B 208.889†	230.2	0.9285	mg/L	0.02193	0.000	mg/kg	0.0000	0.00%
B 249.677†	3007.0	1.000	mg/L	0.0238	0.000	mg/kg	0.0000	0.00%
B 249.772†	6677.3	1.008	mg/L	0.0245	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	32229.8	4.948	mg/L	0.0723	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1812124.0	4.989	mg/L	0.2429	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	1907182.1	5.015	mg/L	0.2450	0.000	mg/kg	0.0000	0.00%
Be 234.861†	3137.1	0.04781	mg/L	0.000989	0.000	mg/kg	0.0000	0.00%
Be 313.042†	26616.4	0.04911	mg/L	0.000490	0.000	mg/kg	0.0000	0.00%
Be 313.107†	13517.2	0.04915	mg/L	0.000490	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	526.4	0.06902	mg/L	0.011306	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	816.8	0.06263	mg/L	0.011722	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	3667.8	0.9285	mg/L	0.02115	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	3469.9	0.9267	mg/L	0.02264	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	3266.7	0.8528	mg/L	0.01872	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	38.9	0.00825	mg/L	0.002140	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	-109.9	-0.02134	mg/L	0.008116	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	-13.0	0.00044	mg/L	0.009797	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	1060.2	0.4606	mg/L	0.01118	0.000	mg/kg	0.0000	0.00%
Co 230.786†	920.5	0.4417	mg/L	0.01238	0.000	mg/kg	0.0000	0.00%
Co 238.892†	1861.1	0.4609	mg/L	0.01245	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	2836.7	4.848	mg/L	0.1094	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	30912.6	4.954	mg/L	0.0779	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	106823.0	5.082	mg/L	0.0747	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	4898.1	-8.526	mg/L	0.2527	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	168369.6	4.661	mg/L	0.1879	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	78256.1	5.028	mg/L	0.0502	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	95.9	0.01130	mg/L	0.001165	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	86.1	0.01323	mg/L	0.000427	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	176.0	0.01536	mg/L	0.001355	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	57.8	0.00683	mg/L	0.004071	0.000	mg/kg	0.0000	0.00%
K 766.490†	192.7	0.04312	mg/L	0.032301	0.000	mg/kg	0.0000	0.00%
Li 610.362†	5992.5	0.3877	mg/L	0.08525	0.000	mg/kg	0.0000	0.00%
Li 670.784†	53926.7	0.5037	mg/L	0.00738	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	-10.8	-0.01010	mg/L	0.009381	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	3981.0	0.01494	mg/L	0.002550	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	343.2	0.01492	mg/L	0.001797	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	478990.6	9.949	mg/L	0.4891	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	651874.3	9.957	mg/L	0.4865	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	265239.5	9.270	mg/L	0.4410	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	298.9	0.9302	mg/L	0.02223	0.000	mg/kg	0.0000	0.00%

Mo 203.845†	183.4	0.9501	mg/L	0.03277	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	198.8	0.9304	mg/L	0.02536	0.000	mg/kg	0.0000	0.00%
Na 588.995†	-340.9	-0.02321	mg/L	0.060891	0.00000	mg/kg	0.000000	0.00%
Na 589.592†	359.2	0.04308	mg/L	0.008607	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	2112.6	1.899	mg/L	0.0453	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	4650.2	1.899	mg/L	0.0479	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	2557.6	1.807	mg/L	0.0469	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	376.9	4.923	mg/L	0.1434	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	1870.7	4.884	mg/L	0.1225	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	2.7	-0.03999	mg/L	0.012447	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	4.7	0.03474	mg/L	0.024111	0.000	mg/kg	0.0000	0.00%
Se 196.026†	28.2	0.8902	mg/L	0.08657	0.000	mg/kg	0.0000	0.00%
Se 203.985†	71.3	0.8454	mg/L	0.07533	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	180.8	0.2899	mg/L	0.00843	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	65.1	0.9806	mg/L	0.02718	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	5526.4	0.9787	mg/L	0.02942	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	1436591.6	0.9838	mg/L	0.04828	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	475947.0	0.9818	mg/L	0.04883	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	-9.3	-0.00015	mg/L	0.000974	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	131.0	0.00014	mg/L	0.000142	0.00000	mg/kg	0.000000	0.00%
Ti 336.121†	29.7	0.00040	mg/L	0.000185	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	-20.0	-0.04476	mg/L	0.020094	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	-0.3	-0.02037	mg/L	0.042460	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	76.4	0.05663	mg/L	0.053590	0.000	mg/kg	0.0000	0.00%
V 310.230†	17285.9	0.4654	mg/L	0.00680	0.000	mg/kg	0.0000	0.00%
V 292.402†	7125.2	0.5237	mg/L	0.01372	0.000	mg/kg	0.0000	0.00%
Saturated within auto integration window (code 4)								
V 311.071†	10860.2	0.4845	mg/L	0.00635	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	8633.1	9.162	mg/L	0.1642	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	31834.6	9.759	mg/L	0.1602	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	16107.4	9.857	mg/L	0.1403	0.000	mg/kg	0.0000	0.00%

Sequence No.: 34
Sample ID: B910044-SRM1

Autosampler Location: 216
Date Collected: 10/26/2009 12:00:18 PM
Data Type: Original

Initial Sample Wt: 0.4811 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: B910044-SRM1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	170443.4	107.3	%	1.28				1.20%
Ag 328.068†	133.7	0.01376	mg/L	0.001084	1.430	mg/kg	0.1127	7.88%
Ag 338.289†	85.6	0.00240	mg/L	0.000900	0.2494	mg/kg	0.09349	37.49%
Al 308.215†	155392.7	87.97	mg/L	1.077	9143	mg/kg	111.9	1.22%
Al 394.401†	255925.4	88.95	mg/L	1.262	9245	mg/kg	131.2	1.42%
Al 396.153†	611431.8	85.42	mg/L	1.255	8877	mg/kg	130.4	1.47%
As 188.979†	10.1	0.7272	mg/L	0.07833	75.58	mg/kg	8.141	10.77%
As 193.696†	62.5	1.359	mg/L	0.0686	141.2	mg/kg	7.13	5.05%
As 197.197†	15.8	1.014	mg/L	0.0940	105.4	mg/kg	9.77	9.27%
B 208.889†	126.0	0.4535	mg/L	0.00738	47.13	mg/kg	0.767	1.63%
B 249.677†	1406.3	0.4461	mg/L	0.01543	46.37	mg/kg	1.604	3.46%
B 249.772†	5443.3	0.4612	mg/L	0.02417	47.93	mg/kg	2.512	5.24%
Ba 233.527†	12904.0	1.975	mg/L	0.0193	205.2	mg/kg	2.01	0.98%
Ba 455.403†	745871.0	2.054	mg/L	0.0303	213.4	mg/kg	3.15	1.47%
Ba 493.408†	785934.0	2.066	mg/L	0.0304	214.7	mg/kg	3.16	1.47%
Be 234.861†	2783.9	0.02338	mg/L	0.000862	2.430	mg/kg	0.0896	3.69%
Be 313.042†	13902.0	0.02397	mg/L	0.000273	2.491	mg/kg	0.0284	1.14%
Be 313.107†	6716.2	0.02416	mg/L	0.000208	2.511	mg/kg	0.0217	0.86%
Ca 315.887†	923229.4	125.5	mg/L	1.95	13040	mg/kg	203.1	1.56%
Ca 317.933†	1534410.0	118.2	mg/L	1.67	12290	mg/kg	173.8	1.41%
Cd 214.440†	3261.2	0.8041	mg/L	0.03016	83.57	mg/kg	3.134	3.75%
Cd 226.502†	3062.7	0.8063	mg/L	0.03025	83.80	mg/kg	3.144	3.75%
Cd 228.802†	2983.4	0.7625	mg/L	0.02318	79.24	mg/kg	2.409	3.04%
Ce 413.380†	1343.5	0.2614	mg/L	0.01095	27.17	mg/kg	1.138	4.19%
Ce 413.764†	1057.2	0.2414	mg/L	0.00855	25.09	mg/kg	0.888	3.54%
Ce 418.660†	1381.8	0.2624	mg/L	0.01982	27.27	mg/kg	2.060	7.55%
Co 228.616†	1943.0	0.8447	mg/L	0.03287	87.79	mg/kg	3.416	3.89%
Co 230.786†	1860.5	0.8174	mg/L	0.03621	84.95	mg/kg	3.763	4.43%

Co 238.892†	4996.9	0.8057 mg/L	0.01041	83.74 mg/kg	1.082	1.29%
Cr 205.560†	553.3	0.9503 mg/L	0.04355	98.77 mg/kg	4.526	4.58%
Cr 267.716†	6479.9	1.043 mg/L	0.0374	108.4 mg/kg	3.89	3.59%
Cr 283.563†	23697.1	0.9667 mg/L	0.01273	100.5 mg/kg	1.32	1.32%
Cu 224.700†	1020.0	-1.557 mg/L	0.0579	-161.8 mg/kg	6.02	3.72%
Cu 324.752†	31171.0	0.8597 mg/L	0.00735	89.34 mg/kg	0.764	0.85%
Cu 327.393†	13515.6	0.8682 mg/L	0.00887	90.23 mg/kg	0.922	1.02%
Fe 238.204†	1041284.5	112.5 mg/L	1.92	11690 mg/kg	199.6	1.71%
Fe 239.562†	692623.1	113.3 mg/L	1.70	11770 mg/kg	176.5	1.50%
Fe 259.939†	1288425.5	112.4 mg/L	1.75	11690 mg/kg	181.6	1.55%
Fe 273.955†	203517.3	120.8 mg/L	1.39	12550 mg/kg	144.1	1.15%
K 766.490†	118508.6	26.52 mg/L	0.353	2756 mg/kg	36.7	1.33%
Li 610.362†	-955.2	-0.3194 mg/L	0.05561	-33.20 mg/kg	5.779	17.41%
Li 670.784†	9600.1	0.08966 mg/L	0.001671	9.318 mg/kg	0.1736	1.86%
Mg 279.077†	45884.7	40.50 mg/L	0.379	4209 mg/kg	39.4	0.94%
Mg 280.271†	9857399.5	38.06 mg/L	1.112	3955 mg/kg	115.6	2.92%
Mg 285.213†	1082440.5	38.33 mg/L	0.491	3983 mg/kg	51.0	1.28%
Mn 257.610†	121716.9	2.527 mg/L	0.0303	262.6 mg/kg	3.15	1.20%
Mn 259.372†	164537.4	2.381 mg/L	0.0352	247.4 mg/kg	3.66	1.48%
Mn 260.568†	66646.7	2.323 mg/L	0.0265	241.4 mg/kg	2.75	1.14%
Mo 202.031†	181.8	0.5729 mg/L	0.02667	59.54 mg/kg	2.771	4.65%
Mo 203.845†	136.0	0.6693 mg/L	0.01775	69.56 mg/kg	1.845	2.65%
Mo 204.597†	108.6	0.5296 mg/L	0.01427	55.04 mg/kg	1.483	2.69%
Na 588.995†	11511.0	0.7837 mg/L	0.07295	81.45 mg/kg	7.582	9.31%
Na 589.592†	8424.0	1.067 mg/L	0.0152	110.9 mg/kg	1.58	1.43%
Ni 221.648†	575.1	0.5089 mg/L	0.02229	52.89 mg/kg	2.317	4.38%
Ni 231.604†	1259.1	0.5093 mg/L	0.01770	52.94 mg/kg	1.839	3.47%
Ni 232.003†	553.7	0.4894 mg/L	0.01553	50.86 mg/kg	1.614	3.17%
Pb 217.000†	68.8	0.5471 mg/L	0.09482	56.86 mg/kg	9.854	17.33%
Pb 220.353†	223.2	0.5957 mg/L	0.02197	61.91 mg/kg	2.283	3.69%
Sb 206.836†	87.6	1.066 mg/L	0.0716	110.8 mg/kg	7.45	6.72%
Sb 217.582†	160.3	1.174 mg/L	0.0579	122.0 mg/kg	6.02	4.93%
Se 196.026†	22.6	0.7108 mg/L	0.10612	73.87 mg/kg	11.029	14.93%
Se 203.985†	-33.5	-0.9891 mg/L	0.08506	-102.8 mg/kg	8.84	8.60%
Sn 235.485†	11847.0	-0.5050 mg/L	0.08293	-52.48 mg/kg	8.619	16.42%
Sn 189.927†	208.4	3.224 mg/L	0.0939	335.1 mg/kg	9.76	2.91%
Sr 460.733†	2096.2	0.3745 mg/L	0.00695	38.92 mg/kg	0.722	1.85%
Sr 407.771†	526630.8	0.3591 mg/L	0.00529	37.33 mg/kg	0.549	1.47%
Sr 421.552†	174360.5	0.3597 mg/L	0.00536	37.38 mg/kg	0.557	1.49%
Ti 337.279†	25124.2	0.6104 mg/L	0.00575	63.44 mg/kg	0.598	0.94%
Ti 334.940†	40394.2	0.6044 mg/L	0.00495	62.81 mg/kg	0.514	0.82%
Ti 336.121†	26266.5	0.6089 mg/L	0.00684	63.28 mg/kg	0.711	1.12%
Tl 351.924†	216.2	0.2383 mg/L	0.01253	24.77 mg/kg	1.302	5.26%
Tl 190.801†	24.4	0.6665 mg/L	0.04118	69.27 mg/kg	4.279	6.18%
Tl 276.787†	2146.9	2.283 mg/L	0.1044	237.3 mg/kg	10.85	4.57%
V 310.230†	36147.3	0.9871 mg/L	0.01083	102.6 mg/kg	1.13	1.10%
V 292.402†	14231.9	1.002 mg/L	0.0105	104.2 mg/kg	1.09	1.05%
V 311.071†	22328.6	0.9978 mg/L	0.01204	103.7 mg/kg	1.25	1.21%
Zn 206.200†	1963.9	2.074 mg/L	0.0786	215.5 mg/kg	8.17	3.79%
Zn 213.857†	7661.5	2.323 mg/L	0.0819	241.4 mg/kg	8.51	3.53%
Zn 202.548†	3647.0	2.229 mg/L	0.0863	231.6 mg/kg	8.97	3.87%

==========

Sequence No.: 35
Sample ID: 0909006-01

Initial Sample Wt: 0.4513 g
Dilution: 1X

Autosampler Location: 217
Date Collected: 10/26/2009 12:01:28 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909006-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156028.3	98.18	%	4.646				4.73%
Ag 328.068†	319.0	0.02160	mg/L	0.003202	2.393	mg/kg	0.3547	14.82%
Ag 338.289†	-10.6	0.01130	mg/L	0.003673	1.252	mg/kg	0.4069	32.51%
Al 308.215†	105597.9	59.80	mg/L	0.611	6626	mg/kg	67.7	1.02%
Al 394.401†	190686.1	65.88	mg/L	0.644	7299	mg/kg	71.4	0.98%
Al 396.153†	432515.2	60.03	mg/L	1.797	6651	mg/kg	199.0	2.99%
As 188.979†	-117.1	-0.3378	mg/L	0.09034	-37.42	mg/kg	10.009	26.75%
As 193.696†	77.5	0.09257	mg/L	0.039065	10.26	mg/kg	4.328	42.20%

As 197.197†	-73.5	0.7132	mg/L	0.23011	79.02	mg/kg	25.494	32.27%
B 208.889†	87.0	0.2373	mg/L	0.04742	26.29	mg/kg	5.254	19.99%
B 249.677†	418.8	0.1143	mg/L	0.00084	12.66	mg/kg	0.094	0.74%
B 249.772†	3887.9	0.1341	mg/L	0.01605	14.86	mg/kg	1.779	11.97%
Ba 233.527†	4352.2	0.6608	mg/L	0.01415	73.21	mg/kg	1.568	2.14%
Ba 455.403†	247593.5	0.6817	mg/L	0.00718	75.52	mg/kg	0.796	1.05%
Saturated within auto integration window (code 4)								
Ba 493.408†	255317.4	0.6706	mg/L	0.01959	74.29	mg/kg	2.170	2.92%
Be 234.861†	1781.2	0.00327	mg/L	0.000455	0.3627	mg/kg	0.05047	13.91%
Be 313.042†	3000.3	0.00540	mg/L	0.000209	0.5984	mg/kg	0.02312	3.86%
Be 313.107†	1523.5	0.00523	mg/L	0.000191	0.5799	mg/kg	0.02120	3.66%
Ca 315.887†	8715148.5	1184	mg/L	12.0	131200	mg/kg	1324.2	1.01%
Ca 317.933†	14297041.5	1101	mg/L	12.4	122000	mg/kg	1369.2	1.12%
Cd 214.440†	199.5	-0.01443	mg/L	0.025577	-1.599	mg/kg	2.8337	177.23%
Cd 226.502†	77.8	0.00694	mg/L	0.002539	0.7684	mg/kg	0.28133	36.61%
Cd 228.802†	31.5	-0.04231	mg/L	0.001723	-4.688	mg/kg	0.1909	4.07%
Ce 413.380†	714.6	0.1217	mg/L	0.01345	13.48	mg/kg	1.491	11.06%
Ce 413.764†	432.9	0.1279	mg/L	0.01322	14.17	mg/kg	1.465	10.34%
Ce 418.660†	422.7	0.1566	mg/L	0.00713	17.35	mg/kg	0.790	4.55%
Co 228.616†	96.3	0.03544	mg/L	0.002075	3.927	mg/kg	0.2298	5.85%
Co 230.786†	629.8	0.01535	mg/L	0.021000	1.700	mg/kg	2.3267	136.84%
Co 238.892†	2388.0	0.02094	mg/L	0.016914	2.320	mg/kg	1.8739	80.78%
Cr 205.560†	75.8	0.1787	mg/L	0.00129	19.79	mg/kg	0.143	0.72%
Cr 267.716†	1204.9	0.1884	mg/L	0.00350	20.88	mg/kg	0.387	1.86%
Cr 283.563†	7063.4	0.1448	mg/L	0.00373	16.05	mg/kg	0.413	2.58%
Cu 224.700†	984.1	-1.523	mg/L	0.0209	-168.8	mg/kg	2.31	1.37%
Cu 324.752†	27210.6	0.7490	mg/L	0.00889	82.98	mg/kg	0.984	1.19%
Cu 327.393†	11951.3	0.7673	mg/L	0.00430	85.01	mg/kg	0.476	0.56%
Fe 238.204†	1285149.5	138.8	mg/L	3.87	15380	mg/kg	428.8	2.79%
Fe 239.562†	853408.7	139.6	mg/L	3.85	15460	mg/kg	426.5	2.76%
Fe 259.939†	1606062.4	140.2	mg/L	3.95	15530	mg/kg	437.5	2.82%
Fe 273.955†	255475.0	151.6	mg/L	1.80	16800	mg/kg	199.0	1.19%
K 766.490†	39988.2	8.948	mg/L	0.0279	991.3	mg/kg	3.09	0.31%
Li 610.362†	7155.9	-0.6263	mg/L	0.22635	-69.39	mg/kg	25.078	36.14%
Saturated within auto integration window (code 4)								
Li 670.784†	9121.6	0.08519	mg/L	0.000470	9.439	mg/kg	0.0520	0.55%
Mg 279.077†	151401.9	133.8	mg/L	1.38	14830	mg/kg	153.3	1.03%
Mg 280.271†	30132921.0	116.3	mg/L	1.40	12890	mg/kg	154.9	1.20%
Mg 285.213†	3552217.7	125.8	mg/L	3.49	13930	mg/kg	387.0	2.78%
Mn 257.610†	158213.7	3.282	mg/L	0.0310	363.7	mg/kg	3.43	0.94%
Mn 259.372†	226754.0	3.300	mg/L	0.0320	365.6	mg/kg	3.55	0.97%
Mn 260.568†	87129.5	3.036	mg/L	0.0281	336.3	mg/kg	3.11	0.92%
Mo 202.031†	23.4	-0.00224	mg/L	0.016615	-0.2480	mg/kg	1.84078	742.36%
Mo 203.845†	77.0	0.2826	mg/L	0.04518	31.31	mg/kg	5.006	15.99%
Mo 204.597†	-53.4	-0.02280	mg/L	0.028482	-2.526	mg/kg	3.1555	124.90%
Na 588.995†	153557.6	10.45	mg/L	0.500	1158	mg/kg	55.4	4.78%
Na 589.592†	84088.8	10.67	mg/L	0.111	1182	mg/kg	12.3	1.04%
Ni 221.648†	179.5	0.1516	mg/L	0.00425	16.80	mg/kg	0.471	2.80%
Ni 231.604†	440.3	0.1457	mg/L	0.00393	16.14	mg/kg	0.435	2.70%
Ni 232.003†	-31.5	0.1634	mg/L	0.00516	18.11	mg/kg	0.572	3.16%
Pb 217.000†	52.8	0.6915	mg/L	0.03741	76.61	mg/kg	4.145	5.41%
Pb 220.353†	329.5	0.7097	mg/L	0.02524	78.63	mg/kg	2.796	3.56%
Sb 206.836†	-0.3	-0.00966	mg/L	0.030769	-1.070	mg/kg	3.4089	318.58%
Sb 217.582†	-15.3	-0.1121	mg/L	0.06554	-12.42	mg/kg	7.261	58.47%
Se 196.026†	3.5	0.1117	mg/L	0.14271	12.38	mg/kg	15.811	127.76%
Se 203.985†	-234.2	-0.6545	mg/L	0.09967	-72.52	mg/kg	11.043	15.23%
Sn 235.485†	13989.1	-1.970	mg/L	0.0455	-218.3	mg/kg	5.04	2.31%
Sn 189.927†	-57.8	-0.04577	mg/L	0.095382	-5.071	mg/kg	10.5675	208.41%
Sr 460.733†	11837.3	2.085	mg/L	0.0355	231.0	mg/kg	3.93	1.70%
Sr 407.771†	2890921.4	1.966	mg/L	0.0561	217.9	mg/kg	6.22	2.85%
Sr 421.552†	960670.9	1.982	mg/L	0.0554	219.5	mg/kg	6.14	2.80%
Ti 337.279†	52363.1	1.271	mg/L	0.0134	140.9	mg/kg	1.48	1.05%
Ti 334.940†	78092.4	1.274	mg/L	0.0118	141.1	mg/kg	1.30	0.92%
Ti 336.121†	53812.4	1.269	mg/L	0.0140	140.6	mg/kg	1.55	1.10%
Tl 351.924†	-11.8	-0.07524	mg/L	0.048019	-8.336	mg/kg	5.3201	63.82%
Tl 190.801†	80.3	0.4165	mg/L	0.24490	46.14	mg/kg	27.132	58.80%
Tl 276.787†	6141.9	5.442	mg/L	0.2537	602.9	mg/kg	28.11	4.66%
V 310.230†	3449.7	0.09028	mg/L	0.003296	10.00	mg/kg	0.365	3.65%
V 292.402†	2331.1	0.1322	mg/L	0.00481	14.64	mg/kg	0.533	3.64%
V 311.071†	2728.0	0.1097	mg/L	0.00350	12.16	mg/kg	0.388	3.19%
Zn 206.200†	1617.5	1.620	mg/L	0.0300	179.5	mg/kg	3.32	1.85%

Zn 213.857†	6828.7	1.930 mg/L	0.0427	213.8 mg/kg	4.73	2.21%
Zn 202.548†	2945.6	1.762 mg/L	0.0327	195.2 mg/kg	3.63	1.86%

Sequence No.: 36
Sample ID: B910044-DUP1

Autosampler Location: 218
Date Collected: 10/26/2009 12:02:44 PM
Data Type: Original

Initial Sample Wt: 0.5078 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: B910044-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	153854.2	96.81	%	1.969				2.03%
Ag 328.068†	212.4	0.01870	mg/L	0.002279	1.842	mg/kg	0.2244	12.19%
Ag 338.289†	-10.7	0.01352	mg/L	0.007187	1.331	mg/kg	0.7077	53.16%
Al 308.215†	116878.0	66.19	mg/L	0.367	6517	mg/kg	36.1	0.55%
Al 394.401†	211502.0	73.04	mg/L	0.320	7192	mg/kg	31.5	0.44%
Al 396.153†	480878.8	66.72	mg/L	0.414	6570	mg/kg	40.7	0.62%
As 188.979†	-124.0	0.06329	mg/L	0.163351	6.232	mg/kg	16.0841	258.11%
As 193.696†	76.9	-0.2311	mg/L	0.06758	-22.76	mg/kg	6.654	29.24%
As 197.197†	-74.0	1.405	mg/L	0.3455	138.3	mg/kg	34.02	24.60%
B 208.889†	95.9	0.2639	mg/L	0.01833	25.98	mg/kg	1.805	6.95%
B 249.677†	449.0	0.1219	mg/L	0.00164	12.00	mg/kg	0.162	1.35%
B 249.772†	4241.6	0.1441	mg/L	0.01673	14.19	mg/kg	1.647	11.61%
Ba 233.527†	4745.1	0.7204	mg/L	0.01593	70.93	mg/kg	1.568	2.21%
Ba 455.403†	269178.9	0.7411	mg/L	0.00442	72.97	mg/kg	0.436	0.60%
Ba 493.408†	279807.6	0.7349	mg/L	0.00447	72.36	mg/kg	0.440	0.61%
Be 234.861†	1994.7	0.00424	mg/L	0.000011	0.4172	mg/kg	0.00105	0.25%
Be 313.042†	3319.9	0.00597	mg/L	0.000158	0.5876	mg/kg	0.01557	2.65%
Be 313.107†	1689.1	0.00579	mg/L	0.000244	0.5699	mg/kg	0.02401	4.21%
Ca 315.887†	10218176.0	1389	mg/L	8.7	136700	mg/kg	853.9	0.62%
Ca 317.933†	16783238.3	1293	mg/L	2.6	127300	mg/kg	252.1	0.20%
Cd 214.440†	218.2	-0.01902	mg/L	0.017832	-1.873	mg/kg	1.7558	93.73%
Cd 226.502†	79.1	0.00593	mg/L	0.000231	0.5835	mg/kg	0.02273	3.90%
Cd 228.802†	37.4	-0.04039	mg/L	0.002003	-3.977	mg/kg	0.1973	4.96%
Ce 413.380†	801.6	0.1373	mg/L	0.00431	13.52	mg/kg	0.424	3.14%
Ce 413.764†	499.4	0.1453	mg/L	0.00996	14.31	mg/kg	0.980	6.85%
Ce 418.660†	430.8	0.1718	mg/L	0.01513	16.92	mg/kg	1.490	8.81%
Co 228.616†	105.8	0.03888	mg/L	0.002713	3.828	mg/kg	0.2672	6.98%
Co 230.786†	691.3	0.00678	mg/L	0.008668	0.6677	mg/kg	0.85350	127.83%
Co 238.892†	2583.4	0.01192	mg/L	0.009082	1.174	mg/kg	0.8943	76.18%
Cr 205.560†	77.2	0.1896	mg/L	0.00859	18.67	mg/kg	0.846	4.53%
Cr 267.716†	1289.0	0.2019	mg/L	0.00435	19.88	mg/kg	0.429	2.16%
Cr 283.563†	7580.8	0.1507	mg/L	0.00076	14.84	mg/kg	0.075	0.51%
Cu 224.700†	1087.6	-1.642	mg/L	0.0683	-161.7	mg/kg	6.73	4.16%
Cu 324.752†	29762.6	0.8193	mg/L	0.00460	80.67	mg/kg	0.453	0.56%
Cu 327.393†	13029.7	0.8365	mg/L	0.00669	82.37	mg/kg	0.659	0.80%
Fe 238.204†	1414134.2	152.7	mg/L	1.00	15040	mg/kg	98.4	0.65%
Fe 239.562†	941129.8	153.9	mg/L	1.07	15160	mg/kg	105.7	0.70%
Fe 259.939†	1768861.2	154.4	mg/L	0.97	15200	mg/kg	95.8	0.63%
Fe 273.955†	279934.0	166.1	mg/L	1.08	16360	mg/kg	106.3	0.65%
K 766.490†	46278.0	10.36	mg/L	0.046	1020	mg/kg	4.5	0.45%
Li 610.362†	9555.5	-0.6295	mg/L	0.10813	-61.98	mg/kg	10.647	17.18%
Li 670.784†	9919.1	0.09264	mg/L	0.001981	9.122	mg/kg	0.1951	2.14%
Mg 279.077†	162305.0	143.5	mg/L	0.53	14120	mg/kg	52.5	0.37%
Mg 280.271†	32771837.6	126.5	mg/L	0.49	12460	mg/kg	48.3	0.39%
Mg 285.213†	3845224.0	136.2	mg/L	1.30	13410	mg/kg	127.9	0.95%
Mn 257.610†	173241.0	3.594	mg/L	0.0196	353.9	mg/kg	1.93	0.55%
Mn 259.372†	248093.3	3.610	mg/L	0.0186	355.5	mg/kg	1.83	0.52%
Mn 260.568†	95312.3	3.321	mg/L	0.0187	327.0	mg/kg	1.84	0.56%
Mo 202.031†	22.8	-0.01890	mg/L	0.013986	-1.861	mg/kg	1.3771	73.98%
Mo 203.845†	86.4	0.3229	mg/L	0.02151	31.79	mg/kg	2.118	6.66%
Mo 204.597†	-61.7	-0.02250	mg/L	0.028468	-2.215	mg/kg	2.8031	126.54%
Na 588.995†	168845.5	11.50	mg/L	0.146	1132	mg/kg	14.4	1.27%
Na 589.592†	91606.0	11.62	mg/L	0.070	1144	mg/kg	6.9	0.60%
Ni 221.648†	197.2	0.1666	mg/L	0.00965	16.40	mg/kg	0.951	5.80%
Ni 231.604†	475.1	0.1540	mg/L	0.00327	15.17	mg/kg	0.322	2.12%
Ni 232.003†	-39.7	0.1814	mg/L	0.00809	17.86	mg/kg	0.796	4.46%
Pb 217.000†	70.3	0.9469	mg/L	0.03908	93.23	mg/kg	3.848	4.13%

Pb 220.353†	384.5	0.8262 mg/L	0.00685	81.35 mg/kg	0.674	0.83%
Sb 206.836†	2.0	0.01758 mg/L	0.037454	1.731 mg/kg	3.6878	213.03%
Sb 217.582†	-16.2	-0.1183 mg/L	0.05432	-11.65 mg/kg	5.349	45.90%
Se 196.026†	-5.5	-0.1743 mg/L	0.06235	-17.16 mg/kg	6.140	35.78%
Se 203.985†	-237.1	0.8455 mg/L	0.31838	83.26 mg/kg	31.349	37.65%
Sn 235.485†	15320.9	-2.169 mg/L	0.0484	-213.6 mg/kg	4.77	2.23%
Sn 189.927†	-53.2	0.1649 mg/L	0.01907	16.24 mg/kg	1.878	11.56%
Sr 460.733†	12602.5	2.220 mg/L	0.0299	218.6 mg/kg	2.94	1.35%
Sr 407.771†	3091055.7	2.101 mg/L	0.0124	206.9 mg/kg	1.22	0.59%
Sr 421.552†	1027677.1	2.120 mg/L	0.0118	208.7 mg/kg	1.16	0.56%
Ti 337.279†	60535.9	1.470 mg/L	0.0099	144.7 mg/kg	0.98	0.67%
Ti 334.940†	90800.1	1.483 mg/L	0.0081	146.0 mg/kg	0.80	0.55%
Ti 336.121†	62505.1	1.475 mg/L	0.0103	145.2 mg/kg	1.02	0.70%
Tl 351.924†	6.2	-0.05623 mg/L	0.017290	-5.537 mg/kg	1.7024	30.75%
Tl 190.801†	86.3	0.1734 mg/L	0.05151	17.07 mg/kg	5.072	29.71%
Tl 276.787†	6597.6	5.863 mg/L	0.0822	577.3 mg/kg	8.09	1.40%
V 310.230†	3928.7	0.1031 mg/L	0.00273	10.15 mg/kg	0.269	2.65%
V 292.402†	2589.8	0.1470 mg/L	0.00229	14.48 mg/kg	0.226	1.56%
V 311.071†	2683.6	0.1059 mg/L	0.00142	10.43 mg/kg	0.139	1.34%
Zn 206.200†	1808.8	1.806 mg/L	0.0354	177.9 mg/kg	3.49	1.96%
Zn 213.857†	7647.7	2.154 mg/L	0.0443	212.1 mg/kg	4.36	2.06%
Zn 202.548†	3288.7	1.965 mg/L	0.0408	193.4 mg/kg	4.01	2.07%

Sequence No.: 37
Sample ID: B910044-MS1

Autosampler Location: 219
Date Collected: 10/26/2009 12:04:01 PM
Data Type: Original

Initial Sample Wt: 0.4618 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: B910044-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160353.3	100.9	%	1.11				1.10%
Ag 328.068†	2881.5	0.1125	mg/L	0.00216	12.18	mg/kg	0.233	1.92%
Ag 338.289†	1364.4	0.09272	mg/L	0.006959	10.04	mg/kg	0.753	7.51%
Al 308.215†	110149.9	62.35	mg/L	0.268	6751	mg/kg	29.0	0.43%
Al 394.401†	182856.6	63.16	mg/L	0.186	6839	mg/kg	20.1	0.29%
Al 396.153†	439805.9	61.03	mg/L	0.150	6608	mg/kg	16.2	0.25%
As 188.979†	-89.2	0.5391	mg/L	0.29385	58.37	mg/kg	31.816	54.50%
As 193.696†	116.1	1.008	mg/L	0.0177	109.2	mg/kg	1.92	1.76%
As 197.197†	-41.8	1.959	mg/L	0.1846	212.1	mg/kg	19.98	9.42%
B 208.889†	320.6	1.181	mg/L	0.0344	127.9	mg/kg	3.72	2.91%
B 249.677†	3409.9	1.113	mg/L	0.0044	120.5	mg/kg	0.48	0.40%
B 249.772†	10366.6	1.171	mg/L	0.0073	126.8	mg/kg	0.79	0.62%
Ba 233.527†	33774.0	5.178	mg/L	0.0315	560.7	mg/kg	3.41	0.61%
Ba 455.403†	2004588.1	5.519	mg/L	0.0219	597.6	mg/kg	2.37	0.40%
Ba 493.408†	2117750.3	5.568	mg/L	0.0206	602.9	mg/kg	2.23	0.37%
Be 234.861†	4804.1	0.05244	mg/L	0.000568	5.678	mg/kg	0.0615	1.08%
Be 313.042†	28447.0	0.05229	mg/L	0.000228	5.662	mg/kg	0.0246	0.44%
Be 313.107†	14501.5	0.05231	mg/L	0.000341	5.663	mg/kg	0.0369	0.65%
Ca 315.887†	8529547.4	1159	mg/L	8.3	125500	mg/kg	903.6	0.72%
Ca 317.933†	14003051.8	1079	mg/L	10.1	116800	mg/kg	1091.6	0.93%
Cd 214.440†	3433.3	0.8079	mg/L	0.01817	87.47	mg/kg	1.967	2.25%
Cd 226.502†	3255.5	0.8573	mg/L	0.00558	92.83	mg/kg	0.604	0.65%
Cd 228.802†	3221.4	0.7917	mg/L	0.00410	85.72	mg/kg	0.444	0.52%
Ce 413.380†	797.0	0.1431	mg/L	0.01102	15.50	mg/kg	1.193	7.70%
Ce 413.764†	410.7	0.1200	mg/L	0.02210	12.99	mg/kg	2.393	18.42%
Ce 418.660†	450.9	0.1629	mg/L	0.00589	17.63	mg/kg	0.638	3.62%
Co 228.616†	1079.4	0.4627	mg/L	0.00151	50.10	mg/kg	0.163	0.33%
Co 230.786†	1457.2	0.4288	mg/L	0.00710	46.43	mg/kg	0.769	1.66%
Co 238.892†	3812.9	0.4444	mg/L	0.00631	48.11	mg/kg	0.683	1.42%
Cr 205.560†	2757.1	4.760	mg/L	0.0232	515.3	mg/kg	2.51	0.49%
Cr 267.716†	29447.0	4.712	mg/L	0.0209	510.2	mg/kg	2.27	0.44%
Cr 283.563†	104810.4	4.823	mg/L	0.0183	522.2	mg/kg	1.98	0.38%
Cu 224.700†	5536.7	-10.63	mg/L	0.040	-1151	mg/kg	4.3	0.38%
Cu 324.752†	182998.5	5.063	mg/L	0.0243	548.2	mg/kg	2.63	0.48%
Cu 327.393†	85365.4	5.484	mg/L	0.0079	593.8	mg/kg	0.86	0.14%
Fe 238.204†	1170577.5	126.4	mg/L	0.47	13690	mg/kg	51.1	0.37%
Fe 239.562†	777128.6	127.1	mg/L	0.60	13760	mg/kg	65.2	0.47%

Fe 259.939†	1460675.4	127.5	mg/L	0.53	13800	mg/kg	56.9	0.41%
Fe 273.955†	222147.9	131.8	mg/L	0.75	14270	mg/kg	81.0	0.57%
K 766.490†	39154.3	8.761	mg/L	0.0522	948.6	mg/kg	5.65	0.60%
Li 610.362†	11532.2	-0.3199	mg/L	0.05741	-34.64	mg/kg	6.216	17.95%
Li 670.784†	64160.2	0.5992	mg/L	0.00248	64.88	mg/kg	0.268	0.41%
Mg 279.077†	157650.5	139.4	mg/L	0.44	15090	mg/kg	48.1	0.32%
Mg 280.271†	30519030.9	117.8	mg/L	0.80	12760	mg/kg	86.4	0.68%
Mg 285.213†	3647419.6	129.2	mg/L	0.87	13980	mg/kg	94.7	0.68%
Mn 257.610†	591949.7	12.29	mg/L	0.047	1331	mg/kg	5.1	0.38%
Mn 259.372†	815373.0	12.31	mg/L	0.060	1333	mg/kg	6.5	0.48%
Mn 260.568†	327632.9	11.44	mg/L	0.049	1239	mg/kg	5.4	0.43%
Mo 202.031†	307.1	0.8800	mg/L	0.01717	95.27	mg/kg	1.859	1.95%
Mo 203.845†	248.1	1.165	mg/L	0.0349	126.1	mg/kg	3.78	3.00%
Mo 204.597†	143.6	0.8938	mg/L	0.00754	96.77	mg/kg	0.816	0.84%
Na 588.995†	149112.2	10.15	mg/L	0.045	1099	mg/kg	4.9	0.45%
Na 589.592†	84184.4	10.68	mg/L	0.040	1156	mg/kg	4.3	0.37%
Ni 221.648†	2011.9	1.800	mg/L	0.0077	194.9	mg/kg	0.84	0.43%
Ni 231.604†	4725.7	1.896	mg/L	0.0171	205.3	mg/kg	1.85	0.90%
Ni 232.003†	2495.8	1.947	mg/L	0.0088	210.8	mg/kg	0.95	0.45%
Pb 217.000†	429.4	5.629	mg/L	0.0324	609.4	mg/kg	3.51	0.58%
Pb 220.353†	2060.4	5.233	mg/L	0.0078	566.6	mg/kg	0.84	0.15%
Sb 206.836†	4.7	-0.01631	mg/L	0.032383	-1.765	mg/kg	3.5062	198.60%
Sb 217.582†	-13.6	-0.09987	mg/L	0.022386	-10.81	mg/kg	2.424	22.42%
Se 196.026†	30.2	0.9513	mg/L	0.06826	103.0	mg/kg	7.39	7.17%
Se 203.985†	-161.6	0.2185	mg/L	0.14862	23.66	mg/kg	16.091	68.00%
Sn 235.485†	12843.8	-0.6680	mg/L	0.16400	-72.32	mg/kg	17.757	24.55%
Sn 189.927†	10.2	0.9604	mg/L	0.10318	104.0	mg/kg	11.17	10.74%
Sr 460.733†	17197.7	3.034	mg/L	0.0179	328.5	mg/kg	1.93	0.59%
Sr 407.771†	4104653.3	2.798	mg/L	0.0208	302.9	mg/kg	2.25	0.74%
Sr 421.552†	1403808.7	2.896	mg/L	0.0123	313.5	mg/kg	1.34	0.43%
Ti 337.279†	72418.5	1.758	mg/L	0.0078	190.4	mg/kg	0.84	0.44%
Ti 334.940†	111269.5	1.755	mg/L	0.0056	190.0	mg/kg	0.61	0.32%
Ti 336.121†	74581.9	1.748	mg/L	0.0121	189.2	mg/kg	1.31	0.69%
Tl 351.924†	-14.0	-0.09302	mg/L	0.018283	-10.07	mg/kg	1.980	19.66%
Tl 190.801†	79.3	0.4316	mg/L	0.09608	46.73	mg/kg	10.403	22.26%
Tl 276.787†	6261.5	5.247	mg/L	0.1550	568.1	mg/kg	16.78	2.95%
V 310.230†	20754.5	0.5568	mg/L	0.00292	60.28	mg/kg	0.316	0.52%
V 292.402†	8445.2	0.5871	mg/L	0.00389	63.57	mg/kg	0.421	0.66%
V 311.071†	13002.9	0.5627	mg/L	0.00266	60.92	mg/kg	0.288	0.47%
Zn 206.200†	8887.6	9.337	mg/L	0.0529	1011	mg/kg	5.7	0.57%
Zn 213.857†	36184.8	10.93	mg/L	0.025	1184	mg/kg	2.7	0.23%
Zn 202.548†	16533.2	10.07	mg/L	0.077	1091	mg/kg	8.3	0.76%

Sequence No.: 38
Sample ID: 0909006-02

Autosampler Location: 220
Date Collected: 10/26/2009 12:05:18 PM
Data Type: Original

Initial Sample Wt: 0.4753 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909006-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	153710.1	96.72	%	1.247				1.29%
Ag 328.068†	600.1	0.02451	mg/L	0.005959	2.579	mg/kg	0.6268	24.31%
Ag 338.289†	-37.7	0.00940	mg/L	0.002293	0.9886	mg/kg	0.24120	24.40%
Al 308.215†	60827.0	34.45	mg/L	0.465	3624	mg/kg	48.9	1.35%
Al 394.401†	111668.6	38.12	mg/L	0.416	4010	mg/kg	43.7	1.09%
Al 396.153†	255357.3	35.02	mg/L	0.608	3684	mg/kg	64.0	1.74%
As 188.979†	-129.5	1.127	mg/L	0.2308	118.5	mg/kg	24.28	20.48%
As 193.696†	60.5	-0.8488	mg/L	0.12710	-89.29	mg/kg	13.371	14.97%
As 197.197†	-34.8	2.905	mg/L	0.0558	305.6	mg/kg	5.87	1.92%
B 208.889†	223.0	0.4533	mg/L	0.03089	47.68	mg/kg	3.250	6.82%
B 249.677†	726.7	0.2351	mg/L	0.00514	24.73	mg/kg	0.541	2.19%
B 249.772†	2450.1	0.2494	mg/L	0.00306	26.23	mg/kg	0.322	1.23%
Ba 233.527†	2213.7	0.3379	mg/L	0.00307	35.55	mg/kg	0.323	0.91%
Ba 455.403†	129964.6	0.3578	mg/L	0.00347	37.64	mg/kg	0.365	0.97%
Ba 493.408†	137517.0	0.3614	mg/L	0.00431	38.02	mg/kg	0.454	1.19%
Be 234.861†	528.1	0.00163	mg/L	0.001081	0.1716	mg/kg	0.11372	66.28%
Be 313.042†	2179.4	0.00384	mg/L	0.000120	0.4044	mg/kg	0.01261	3.12%

Be 313.107†	1154.8	0.00389	mg/L	0.000075	0.4092	mg/kg	0.00787	1.92%
Ca 315.887†	13638991.7	1854	mg/L	43.8	195000	mg/kg	4608.9	2.36%
Ca 317.933†	22169698.4	1708	mg/L	43.4	179700	mg/kg	4567.4	2.54%
Cd 214.440†	164.6	-0.04279	mg/L	0.016039	-4.501	mg/kg	1.6873	37.49%
Cd 226.502†	17.0	0.00454	mg/L	0.001385	0.4775	mg/kg	0.14565	30.50%
Cd 228.802†	12.5	-0.03631	mg/L	0.002605	-3.819	mg/kg	0.2740	7.17%
Ce 413.380†	407.5	0.07856	mg/L	0.018955	8.264	mg/kg	1.9940	24.13%
Ce 413.764†	372.9	0.08741	mg/L	0.014350	9.195	mg/kg	1.5096	16.42%
Ce 418.660†	142.9	0.1508	mg/L	0.01850	15.86	mg/kg	1.946	12.27%
Co 228.616†	49.2	0.01877	mg/L	0.002432	1.975	mg/kg	0.2558	12.95%
Co 230.786†	750.3	-0.05780	mg/L	0.004863	-6.080	mg/kg	0.5116	8.41%
Co 238.892†	797.1	-0.00272	mg/L	0.007845	-0.2867	mg/kg	0.82531	287.91%
Cr 205.560†	8.1	0.09063	mg/L	0.003717	9.534	mg/kg	0.3910	4.10%
Cr 267.716†	1261.1	0.1036	mg/L	0.00270	10.89	mg/kg	0.284	2.61%
Cr 283.563†	772.2	0.08058	mg/L	0.003716	8.477	mg/kg	0.3909	4.61%
Cu 224.700†	182.4	-0.7032	mg/L	0.06320	-73.98	mg/kg	6.649	8.99%
Cu 324.752†	5013.2	0.1380	mg/L	0.00413	14.51	mg/kg	0.435	2.99%
Cu 327.393†	2363.1	0.1513	mg/L	0.00522	15.92	mg/kg	0.549	3.45%
Fe 238.204†	366474.6	39.58	mg/L	0.428	4163	mg/kg	45.0	1.08%
Fe 239.562†	242828.9	39.77	mg/L	0.307	4183	mg/kg	32.3	0.77%
Fe 259.939†	458175.5	39.99	mg/L	0.391	4206	mg/kg	41.2	0.98%
Saturated within auto integration window (code 4)								
Fe 273.955†	67951.7	40.33	mg/L	0.479	4242	mg/kg	50.4	1.19%
K 766.490†	13852.0	3.099	mg/L	0.0269	326.1	mg/kg	2.83	0.87%
Li 610.362†	8943.7	-0.9539	mg/L	0.03336	-100.3	mg/kg	3.51	3.50%
Li 670.784†	3308.0	0.03090	mg/L	0.002202	3.250	mg/kg	0.2316	7.13%
Mg 279.077†	894571.5	791.4	mg/L	14.43	83250	mg/kg	1518.2	1.82%
Mg 280.271†	Saturated3							
Mg 285.213†	17784523.0	629.7	mg/L	13.62	66240	mg/kg	1432.9	2.16%
Mn 257.610†	150816.3	3.112	mg/L	0.0330	327.4	mg/kg	3.48	1.06%
Mn 259.372†	208575.8	3.127	mg/L	0.0246	328.9	mg/kg	2.58	0.79%
Mn 260.568†	83015.5	2.879	mg/L	0.0279	302.9	mg/kg	2.93	0.97%
Mo 202.031†	37.1	-0.03039	mg/L	0.010270	-3.197	mg/kg	1.0804	33.80%
Mo 203.845†	202.9	0.3642	mg/L	0.01792	38.31	mg/kg	1.885	4.92%
Mo 204.597†	-58.8	0.07912	mg/L	0.005614	8.323	mg/kg	0.5905	7.09%
Na 588.995†	3668792.7	249.8	mg/L	4.29	26280	mg/kg	451.7	1.72%
Na 589.592†	2000966.1	253.8	mg/L	4.45	26700	mg/kg	468.0	1.75%
Ni 221.648†	66.3	0.05696	mg/L	0.003241	5.992	mg/kg	0.3409	5.69%
Ni 231.604†	221.7	0.03720	mg/L	0.001955	3.914	mg/kg	0.2056	5.25%
Ni 232.003†	-65.9	0.09581	mg/L	0.004346	10.08	mg/kg	0.457	4.54%
Pb 217.000†	-11.4	0.2999	mg/L	0.06878	31.54	mg/kg	7.236	22.94%
Pb 220.353†	151.6	0.1404	mg/L	0.00890	14.77	mg/kg	0.936	6.34%
Sb 206.836†	-5.7	-0.07663	mg/L	0.013908	-8.061	mg/kg	1.4631	18.15%
Sb 217.582†	-28.8	-0.2108	mg/L	0.09540	-22.17	mg/kg	10.035	45.26%
Se 196.026†	12.0	0.3787	mg/L	0.28581	39.84	mg/kg	30.066	75.48%
Se 203.985†	-229.9	4.043	mg/L	0.3851	425.4	mg/kg	40.51	9.52%
Sn 235.485†	3993.2	-0.1085	mg/L	0.01888	-11.41	mg/kg	1.986	17.41%
Sn 189.927†	-61.6	0.3614	mg/L	0.10448	38.02	mg/kg	10.991	28.91%
Sr 460.733†	11369.3	2.001	mg/L	0.0144	210.5	mg/kg	1.51	0.72%
Sr 407.771†	2705989.8	1.832	mg/L	0.0341	192.8	mg/kg	3.59	1.86%
Sr 421.552†	898395.5	1.853	mg/L	0.0344	194.9	mg/kg	3.62	1.86%
Ti 337.279†	55911.3	1.357	mg/L	0.0101	142.8	mg/kg	1.06	0.74%
Ti 334.940†	79721.4	1.373	mg/L	0.0183	144.4	mg/kg	1.92	1.33%
Ti 336.121†	56911.4	1.355	mg/L	0.0187	142.6	mg/kg	1.96	1.38%
Tl 351.924†	-19.8	-0.05948	mg/L	0.031337	-6.257	mg/kg	3.2966	52.68%
Tl 190.801†	85.5	-0.5626	mg/L	0.22926	-59.18	mg/kg	24.117	40.75%
Tl 276.787†	24590.7	4.661	mg/L	1.5073	490.3	mg/kg	158.56	32.34%
V 310.230†	3769.8	0.09947	mg/L	0.002198	10.46	mg/kg	0.231	2.21%
V 292.402†	2111.1	0.1445	mg/L	0.00174	15.20	mg/kg	0.183	1.21%
V 311.071†	1510.0	0.06030	mg/L	0.000922	6.344	mg/kg	0.0970	1.53%
Saturated within auto integration window (code 4)								
Zn 206.200†	350.7	0.2199	mg/L	0.00324	23.13	mg/kg	0.341	1.47%
Zn 213.857†	1695.2	0.2781	mg/L	0.00133	29.26	mg/kg	0.140	0.48%
Zn 202.548†	731.1	0.3818	mg/L	0.02336	40.17	mg/kg	2.458	6.12%

Sequence No.: 39
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 12:06:33 PM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	432767.9	272.3	%	74.79				27.47%
Ag 328.068†	120.3	0.00432	mg/L	0.000890				20.58%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-129.0	-0.01242	mg/L	0.002058				16.58%
Al 308.215†	-308.4	-0.1731	mg/L	0.03145				18.17%
Al 394.401†	94.0	0.03569	mg/L	0.006419				17.98%
Al 396.153†	151.8	0.02097	mg/L	0.002207				10.53%
As 188.979†	-0.3	-0.00798	mg/L	0.023084				289.26%
As 193.696†	-0.1	-0.00239	mg/L	0.033975				>999.9%
As 197.197†	-3.3	-0.1426	mg/L	0.00851				5.97%
B 208.889†	-29.8	-0.1193	mg/L	0.02709				22.70%
B 249.677†	5.9	0.00199	mg/L	0.000392				19.73%
B 249.772†	-22.4	-0.00347	mg/L	0.000713				20.55%
Ba 233.527†	13.3	0.00208	mg/L	0.000160				7.66%
Ba 455.403†	-940.2	-0.00259	mg/L	0.000526				20.31%
Ba 493.408†	5.6	0.00001	mg/L	0.000065				442.36%
Be 234.861†	22.5	0.00034	mg/L	0.000063				18.71%
Be 313.042†	-1133.6	-0.00195	mg/L	0.000173				8.85%
Be 313.107†	-445.4	-0.00161	mg/L	0.000171				10.61%
Ca 315.887†	2110.2	0.2868	mg/L	0.19173				66.85%
Saturated within auto integration window (code 4)								
Ca 317.933†	2640.9	0.2035	mg/L	0.06761				33.22%
Cd 214.440†	8.3	0.00208	mg/L	0.002412				116.09%
Cd 226.502†	7.3	0.00194	mg/L	0.000429				22.11%
Cd 228.802†	-22.3	-0.00595	mg/L	0.001000				16.81%
Ce 413.380†	34.7	0.00736	mg/L	0.002643				35.90%
Ce 413.764†	-38.9	-0.00769	mg/L	0.002588				33.68%
Ce 418.660†	173.4	0.03170	mg/L	0.007764				24.49%
Co 228.616†	-21.7	-0.00948	mg/L	0.000671				7.07%
Co 230.786†	-382.1	-0.1963	mg/L	0.03076				15.67%
Co 238.892†	28.1	0.00684	mg/L	0.000920				13.46%
Cr 205.560†	-3.2	-0.00553	mg/L	0.001001				18.09%
Cr 267.716†	-66.2	-0.01061	mg/L	0.002028				19.11%
Cr 283.563†	-104.0	-0.00496	mg/L	0.000799				16.10%
Cu 224.700†	-5.9	-0.1038	mg/L	0.01373				13.23%
Cu 324.752†	-245.4	-0.00684	mg/L	0.001257				18.36%
Cu 327.393†	55.5	0.00357	mg/L	0.000450				12.61%
Fe 238.204†	85.8	0.00925	mg/L	0.016667				180.16%
Fe 239.562†	54.6	0.00896	mg/L	0.016514				184.27%
Fe 259.939†	78.6	0.00686	mg/L	0.017173				250.44%
Fe 273.955†	50.5	0.03021	mg/L	0.015642				51.77%
K 766.490†	327.8	0.07334	mg/L	0.013494				18.40%
Li 610.362†	-31227.3	-2.457	mg/L	0.4282				17.43%
Li 670.784†	396.5	0.00370	mg/L	0.000498				13.46%
Mg 279.077†	98.7	0.08727	mg/L	0.081559				93.45%
Mg 280.271†	20722.8	0.08008	mg/L	0.026769				33.43%
Mg 285.213†	3157.7	0.1117	mg/L	0.06838				61.22%
Saturated within auto integration window (code 4)								
Mn 257.610†	51.2	0.00105	mg/L	0.001004				95.30%
Mn 259.372†	27.8	0.00037	mg/L	0.001071				288.98%
Mn 260.568†	29.4	0.00103	mg/L	0.000858				83.10%
Mo 202.031†	0.2	0.00063	mg/L	0.001230				193.89%
Mo 203.845†	2.3	0.01168	mg/L	0.001824				15.62%
Mo 204.597†	0.9	0.00439	mg/L	0.003514				80.00%
Na 588.995†	-33969.9	-2.313	mg/L	0.4041				17.47%
Na 589.592†	140.8	0.01785	mg/L	0.003465				19.41%
Ni 221.648†	0.8	0.00075	mg/L	0.000861				115.34%
Ni 231.604†	-28.2	-0.01150	mg/L	0.002263				19.68%
Ni 232.003†	-2.8	-0.00174	mg/L	0.001423				81.92%
Pb 217.000†	1.5	0.01902	mg/L	0.018575				97.64%
Pb 220.353†	-1.0	-0.00268	mg/L	0.003182				118.91%
Sb 206.836†	-1.2	-0.01523	mg/L	0.005986				39.30%
Sb 217.582†	2.2	0.01585	mg/L	0.010587				66.79%
Se 196.026†	-1.8	-0.05555	mg/L	0.003251				5.85%
Se 203.985†	-0.0	0.00549	mg/L	0.012226				222.50%
Sn 235.485†	30.9	0.04085	mg/L	0.006534				15.99%
Sn 189.927†	0.6	0.00919	mg/L	0.017955				195.32%
Sr 460.733†	9.8	0.00179	mg/L	0.003413				190.67%

Sr 407.771†	-163.9	-0.00011	mg/L	0.000135			120.61%
Sr 421.552†	-223.1	-0.00046	mg/L	0.000218			47.48%
Ti 337.279†	63.9	0.00155	mg/L	0.000049			3.17%
Ti 334.940†	-101.3	-0.00145	mg/L	0.000832			57.54%
Ti 336.121†	-21.5	-0.00049	mg/L	0.000425			87.24%
Tl 351.924†	-369.3	-0.5247	mg/L	0.07776			14.82%
Tl 190.801†	2.6	0.1032	mg/L	0.05349			51.80%
Tl 276.787†	-25.4	-0.06843	mg/L	0.010699			15.63%
V 310.230†	-2963.0	-0.08109	mg/L	0.009000			11.10%
V 292.402†	13.8	0.00106	mg/L	0.000152			14.35%
V 311.071†	-198.7	-0.00900	mg/L	0.001714			19.06%
Zn 206.200†	0.6	0.00067	mg/L	0.001121			167.11%
Zn 213.857†	-3.3	-0.00100	mg/L	0.001599			159.16%
Zn 202.548†	-3.8	-0.00231	mg/L	0.001114			48.32%

All analyte(s) passed QC.

==========

Sequence No.: 40
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 12:07:37 PM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157448.3	99.07	%	2.622				2.65%
Ag 328.068†	-37.2	-0.00127	mg/L	0.001323				104.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-0.1	-0.00001	mg/L	0.001085				>999.9%
Al 308.215†	2.8	0.00155	mg/L	0.012417				801.43%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	21.0	0.00063	mg/L	0.010449				>999.9%
Al 396.153†	126.1	0.01764	mg/L	0.012600				71.41%
As 188.979†	-2.0	-0.06791	mg/L	0.042167				62.09%
As 193.696†	-0.3	-0.00593	mg/L	0.056444				952.25%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-0.9	-0.03792	mg/L	0.107422				283.26%
B 208.889†	5.7	0.02287	mg/L	0.012407				54.24%
B 249.677†	4.0	0.00132	mg/L	0.001210				91.36%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	8.0	0.00117	mg/L	0.001144				97.74%
Ba 233.527†	-1.4	-0.00022	mg/L	0.000645				297.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	-76.6	-0.00021	mg/L	0.000083				39.28%
Ba 493.408†	25.9	0.00007	mg/L	0.000308				452.85%
Be 234.861†	-5.1	-0.00008	mg/L	0.000124				154.94%
Be 313.042†	-16.8	-0.00003	mg/L	0.000098				310.83%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-3.3	-0.00001	mg/L	0.000054				371.50%
Ca 315.887†	1051.1	0.1429	mg/L	0.14852				103.96%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	1767.9	0.1362	mg/L	0.14223				104.43%
Cd 214.440†	29.8	0.00754	mg/L	0.009216				122.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	-3.8	-0.00101	mg/L	0.001410				139.95%
Cd 228.802†	2.1	0.00074	mg/L	0.002539				342.97%
Ce 413.380†	43.4	0.00922	mg/L	0.007453				80.86%
QC value within limits for Ce 413.380 Recovery = Not calculated								
Ce 413.764†	84.1	0.01653	mg/L	0.001967				11.90%
Ce 418.660†	55.9	0.01021	mg/L	0.006927				67.88%
Co 228.616†	-2.9	-0.00125	mg/L	0.001445				115.78%
Co 230.786†	8.7	0.00446	mg/L	0.008939				200.54%
Co 238.892†	-4.2	-0.00110	mg/L	0.000703				64.09%
QC value within limits for Co 238.892 Recovery = Not calculated								
Cr 205.560†	-1.1	-0.00185	mg/L	0.002684				144.77%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cr 267.716†	-1.9	-0.00031	mg/L	0.002103				671.90%
Cr 283.563†	13.2	0.00060	mg/L	0.001411				236.50%
Cu 224.700†	4.3	-0.08442	mg/L	0.022774				26.98%
QC value within limits for Cu 224.700 Recovery = Not calculated								
Cu 324.752†	-6.9	-0.00019	mg/L	0.000251				130.71%

Cu 327.393†	19.0	0.00122 mg/L	0.000723	59.21%
Fe 238.204†	96.6	0.01042 mg/L	0.012581	120.69%
Fe 239.562†	68.0	0.01112 mg/L	0.010764	96.82%
Fe 259.939†	115.7	0.01010 mg/L	0.013436	133.05%
Fe 273.955†	23.3	0.01380 mg/L	0.013380	96.96%
QC value within limits for Fe 273.955 Recovery = Not calculated				
K 766.490†	134.0	0.02998 mg/L	0.021507	71.73%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	1676.3	0.1317 mg/L	0.10792	81.92%
Li 670.784†	358.8	0.00335 mg/L	0.000888	26.50%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	41.1	0.03635 mg/L	0.029956	82.42%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	3684.2	0.01423 mg/L	0.001391	9.78%
Mg 285.213†	1018.7	0.03607 mg/L	0.029239	81.06%
Mn 257.610†	35.4	0.00073 mg/L	0.000654	89.19%
Mn 259.372†	51.9	0.00079 mg/L	0.000756	96.05%
Mn 260.568†	10.0	0.00035 mg/L	0.000395	113.49%
QC value within limits for Mn 260.568 Recovery = Not calculated				
Mo 202.031†	0.7	0.00214 mg/L	0.008572	400.86%
Mo 203.845†	3.0	0.01574 mg/L	0.010892	69.21%
QC value within limits for Mo 203.845 Recovery = Not calculated				
Mo 204.597†	-0.4	-0.00193 mg/L	0.007532	390.26%
Na 588.995†	1059.7	0.07215 mg/L	0.105030	145.58%
QC value within limits for Na 588.995 Recovery = Not calculated				
Na 589.592†	-31.2	-0.00395 mg/L	0.015716	397.43%
Ni 221.648†	-4.2	-0.00374 mg/L	0.005387	144.08%
QC value within limits for Ni 221.648 Recovery = Not calculated				
Ni 231.604†	0.8	0.00034 mg/L	0.002204	639.50%
Ni 232.003†	9.3	0.00731 mg/L	0.003477	47.55%
Pb 217.000†	-0.8	-0.01020 mg/L	0.041133	403.31%
Pb 220.353†	2.0	0.00519 mg/L	0.009671	186.51%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	-3.9	-0.04847 mg/L	0.020975	43.28%
QC value within limits for Sb 206.836 Recovery = Not calculated				
Sb 217.582†	1.3	0.00934 mg/L	0.011843	126.82%
Se 196.026†	-2.8	-0.08889 mg/L	0.103260	116.17%
QC value within limits for Se 196.026 Recovery = Not calculated				
Se 203.985†	-0.1	0.00036 mg/L	0.025810	>999.9%
Sn 235.485†	6.3	0.00723 mg/L	0.006053	83.70%
Sn 189.927†	1.3	0.01911 mg/L	0.020071	105.00%
QC value within limits for Sn 189.927 Recovery = Not calculated				
Sr 460.733†	14.3	0.00242 mg/L	0.009305	383.98%
QC value within limits for Sr 460.733 Recovery = Not calculated				
Sr 407.771†	105.0	0.00006 mg/L	0.000079	125.05%
Sr 421.552†	-23.8	-0.00005 mg/L	0.000098	199.63%
Ti 337.279†	-27.7	-0.00067 mg/L	0.000542	80.61%
QC value within limits for Ti 337.279 Recovery = Not calculated				
Ti 334.940†	27.8	0.00042 mg/L	0.000098	23.11%
Ti 336.121†	9.2	0.00021 mg/L	0.000162	75.54%
Tl 351.924†	-7.1	-0.01271 mg/L	0.032851	258.45%
Tl 190.801†	0.1	0.00541 mg/L	0.105125	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated				
Tl 276.787†	18.6	0.04261 mg/L	0.018707	43.91%
V 310.230†	-46.7	-0.00128 mg/L	0.002893	225.29%
QC value within limits for V 310.230 Recovery = Not calculated				
V 292.402†	-3.2	-0.00027 mg/L	0.001313	488.84%
V 311.071†	-4.7	-0.00018 mg/L	0.000386	212.96%
Zn 206.200†	2.1	0.00227 mg/L	0.000414	18.24%
Zn 213.857†	-2.0	-0.00062 mg/L	0.001766	283.95%
QC value within limits for Zn 213.857 Recovery = Not calculated				
Zn 202.548†	-2.7	-0.00169 mg/L	0.000886	52.34%

All analyte(s) passed QC.

==========

Sequence No.: 41 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 12:08:38 PM**
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163694.7	103.0	%	0.78				0.76%
Ag 328.068†	6889.6	0.2564	mg/L	0.00346				1.35%
QC value within limits for Ag 328.068 Recovery = 102.56%								
Ag 338.289†	2845.7	0.2635	mg/L	0.00500				1.90%
Al 308.215†	1719.2	0.9517	mg/L	0.01998				2.10%
QC value within limits for Al 308.215 Recovery = 95.17%								
Al 394.401†	3974.8	0.9883	mg/L	0.01677				1.70%
Al 396.153†	6808.5	0.9517	mg/L	0.02154				2.26%
As 188.979†	57.1	1.953	mg/L	0.0505				2.58%
As 193.696†	83.2	1.905	mg/L	0.0576				3.02%
QC value within limits for As 193.696 Recovery = 95.27%								
As 197.197†	40.2	1.736	mg/L	0.1292				7.44%
B 208.889†	233.5	0.9374	mg/L	0.02321				2.48%
B 249.677†	3055.6	1.014	mg/L	0.0190				1.88%
B 249.772†	6782.3	1.021	mg/L	0.0150				1.47%
QC value within limits for B 249.772 Recovery = 102.07%								
Ba 233.527†	6701.2	1.028	mg/L	0.0174				1.69%
QC value within limits for Ba 233.527 Recovery = 102.78%								
Ba 455.403†	360282.0	0.9919	mg/L	0.03893				3.92%
Ba 493.408†	374503.5	0.9848	mg/L	0.03769				3.83%
Be 234.861†	63951.1	0.9722	mg/L	0.01912				1.97%
Be 313.042†	510082.6	0.9541	mg/L	0.03733				3.91%
QC value within limits for Be 313.042 Recovery = 95.41%								
Be 313.107†	265003.0	0.9571	mg/L	0.03655				3.82%
Ca 315.887†	7279.1	0.9862	mg/L	0.02322				2.35%
QC value within limits for Ca 315.887 Recovery = 98.62%								
Ca 317.933†	12021.1	0.9255	mg/L	0.01235				1.33%
Cd 214.440†	3689.2	0.9333	mg/L	0.02204				2.36%
QC value within limits for Cd 214.440 Recovery = 93.33%								
Cd 226.502†	3488.1	0.9316	mg/L	0.01577				1.69%
Cd 228.802†	3391.0	0.8587	mg/L	0.01215				1.41%
Ce 413.380†	4722.8	1.003	mg/L	0.0155				1.54%
Ce 413.764†	4988.9	0.9815	mg/L	0.03356				3.42%
Ce 418.660†	5435.2	0.9927	mg/L	0.01271				1.28%
Co 228.616†	2133.9	0.9310	mg/L	0.01663				1.79%
Co 230.786†	1803.7	0.9181	mg/L	0.01502				1.64%
Co 238.892†	3788.9	0.9300	mg/L	0.01537				1.65%
QC value within limits for Co 238.892 Recovery = 93.00%								
Cr 205.560†	554.8	0.9480	mg/L	0.01837				1.94%
QC value within limits for Cr 205.560 Recovery = 94.80%								
Cr 267.716†	6478.5	1.038	mg/L	0.0184				1.77%
Cr 283.563†	20453.5	0.9706	mg/L	0.01605				1.65%
Cu 224.700†	971.3	-24.59	mg/L	0.921				3.74%
QC value less than the lower limit for Cu 224.700 Recovery = -2459.27%								
Cu 324.752†	35152.3	0.9738	mg/L	0.01372				1.41%
Cu 327.393†	15305.4	0.9828	mg/L	0.01678				1.71%
Fe 238.204†	9340.9	1.011	mg/L	0.0141				1.39%
Saturated within auto integration window (code 4)								
Fe 239.562†	6366.6	1.038	mg/L	0.0168				1.62%
Fe 259.939†	11154.5	0.9735	mg/L	0.01631				1.67%
QC value within limits for Fe 259.939 Recovery = 97.35%								
Fe 273.955†	1795.6	1.057	mg/L	0.0155				1.46%
K 766.490†	21239.7	4.753	mg/L	0.0549				1.16%
QC value within limits for K 766.490 Recovery = 95.05%								
Li 610.362†	11942.5	0.9291	mg/L	0.04568				4.92%
QC value within limits for Li 610.362 Recovery = 92.91%								
Li 670.784†	103361.5	0.9654	mg/L	0.03500				3.63%
Mg 279.077†	1176.5	1.042	mg/L	0.0069				0.66%
QC value within limits for Mg 279.077 Recovery = 104.24%								
Mg 280.271†	243287.8	0.9384	mg/L	0.04016				4.28%
Mg 285.213†	26535.7	0.9413	mg/L	0.01072				1.14%
Mn 257.610†	49304.0	1.024	mg/L	0.0162				1.58%
Mn 259.372†	67298.7	1.027	mg/L	0.0170				1.65%
Mn 260.568†	27140.5	0.9478	mg/L	0.01468				1.55%
QC value within limits for Mn 260.568 Recovery = 94.78%								
Mo 202.031†	0.3	0.00103	mg/L	0.003780				365.79%
Mo 203.845†	4.1	0.02059	mg/L	0.020469				99.42%
Mo 204.597†	-1.3	-0.00503	mg/L	0.006253				124.21%
Na 588.995†	13186.0	0.8978	mg/L	0.04752				5.29%

Na 589.592†	7934.4	1.006	mg/L	0.0190		1.89%
Ni 221.648†	1040.2	0.9347	mg/L	0.01742		1.86%
QC value within limits for Ni 221.648 Recovery = 93.47%						
Ni 231.604†	2307.0	0.9413	mg/L	0.01367		1.45%
Ni 232.003†	1199.3	0.9005	mg/L	0.00899		1.00%
Pb 217.000†	149.2	1.939	mg/L	0.0611		3.15%
Pb 220.353†	735.0	1.919	mg/L	0.0321		1.67%
QC value within limits for Pb 220.353 Recovery = 95.94%						
Sb 206.836†	-2.0	-0.03961	mg/L	0.023777		60.02%
Sb 217.582†	0.8	0.00613	mg/L	0.012111		197.50%
Se 196.026†	29.8	0.9404	mg/L	0.02365		2.51%
QC value within limits for Se 196.026 Recovery = 94.04%						
Se 203.985†	30.4	0.8715	mg/L	0.00783		0.90%
Sn 235.485†	92.5	-0.01040	mg/L	0.007387		71.01%
Sn 189.927†	0.3	0.00512	mg/L	0.022092		431.82%
Sr 460.733†	5588.9	0.9787	mg/L	0.02222		2.27%
QC value within limits for Sr 460.733 Recovery = 97.87%						
Sr 407.771†	1437597.0	0.9840	mg/L	0.03741		3.80%
Sr 421.552†	476072.5	0.9820	mg/L	0.03795		3.86%
Ti 337.279†	-66.9	-0.00148	mg/L	0.001145		77.60%
Ti 334.940†	-7.9	-0.00033	mg/L	0.000272		81.31%
Ti 336.121†	16.2	0.00001	mg/L	0.000499		>999.9%
Tl 351.924†	3263.5	4.488	mg/L	0.1438		3.20%
QC value less than the lower limit for Tl 351.924 Recovery = 89.77%						
Tl 190.801†	126.7	4.928	mg/L	0.0998		2.02%
QC value within limits for Tl 190.801 Recovery = 98.55%						
Tl 276.787†	1446.2	3.436	mg/L	0.0571		1.66%
V 310.230†	34907.8	0.9527	mg/L	0.01673		1.76%
QC value within limits for V 310.230 Recovery = 95.27%						
V 292.402†	13450.7	0.9630	mg/L	0.01063		1.10%
V 311.071†	21285.3	0.9635	mg/L	0.01823		1.89%
Zn 206.200†	865.6	0.9180	mg/L	0.01759		1.92%
Zn 213.857†	3239.0	0.9886	mg/L	0.01725		1.74%
QC value within limits for Zn 213.857 Recovery = 98.86%						
Zn 202.548†	1623.8	0.9890	mg/L	0.01708		1.73%

QC Failed. Continue with analysis.

==========

Sequence No.: 42 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 12:09:43 PM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157535.3	99.13	%	1.738				1.75%
Ag 328.068†	22.7	0.00074	mg/L	0.001285				172.50%
Ag 338.289†	-188.4	-0.00650	mg/L	0.002839				43.67%
Al 308.215†	48.2	0.00578	mg/L	0.009141				158.27%
Al 394.401†	31.2	0.01204	mg/L	0.008769				72.81%
Al 396.153†	428.8	0.02783	mg/L	0.007433				26.71%
As 188.979†	1.0	0.03758	mg/L	0.028901				76.90%
As 193.696†	0.7	0.01607	mg/L	0.016097				100.15%
As 197.197†	-1.0	-0.04326	mg/L	0.124356				287.49%
B 208.889†	10.1	0.04055	mg/L	0.004953				12.21%
B 249.677†	54.4	0.01874	mg/L	0.001883				10.05%
B 249.772†	121.0	0.01857	mg/L	0.001119				6.03%
Ba 233.527†	-107.1	-0.01463	mg/L	0.000340				2.32%
Ba 455.403†	56.3	0.00016	mg/L	0.000082				52.99%
Ba 493.408†	153.2	0.00040	mg/L	0.000566				140.45%
Be 234.861†	7.0	0.00023	mg/L	0.000062				26.56%
Be 313.042†	101.9	0.00018	mg/L	0.000090				49.52%
Be 313.107†	119.2	0.00022	mg/L	0.000104				46.92%
Ca 315.887†	296.5	0.03922	mg/L	0.015604				39.79%
Ca 317.933†	457.5	0.03525	mg/L	0.015930				45.20%
Cd 214.440†	-16.2	-0.00214	mg/L	0.010450				489.06%
Cd 226.502†	-0.4	-0.00029	mg/L	0.000230				78.72%
Cd 228.802†	1.6	-0.00002	mg/L	0.001073				>999.9%
Ce 413.380†	10.8	0.00229	mg/L	0.004095				179.05%
Ce 413.764†	-20.6	-0.00143	mg/L	0.017984				>999.9%

Ce 418.660†	-114.8	-0.01798	mg/L	0.021449		119.29%
Co 228.616†	-7.4	-0.00460	mg/L	0.001040		22.59%
Co 230.786†	15.7	0.00298	mg/L	0.004989		167.54%
Co 238.892†	-10.1	-0.00113	mg/L	0.000381		33.85%
Cr 205.560†	1.4	0.00148	mg/L	0.006904		466.04%
Cr 267.716†	8.8	0.00102	mg/L	0.001166		114.04%
Cr 283.563†	9.8	0.00063	mg/L	0.000675		107.25%
Cu 224.700†	6.2	-0.02828	mg/L	0.023184		81.98%
Cu 324.752†	3.1	-0.00027	mg/L	0.000479		180.11%
Cu 327.393†	-3.4	0.00058	mg/L	0.000373		63.89%
Fe 238.204†	48.2	0.00520	mg/L	0.001414		27.18%
Fe 239.562†	27.9	0.00499	mg/L	0.002572		51.50%
Fe 259.939†	53.3	0.00465	mg/L	0.000807		17.36%
Fe 273.955†	2.6	0.00436	mg/L	0.001912		43.85%
K 766.490†	266.3	0.05959	mg/L	0.045428		76.24%
Li 610.362†	1515.8	0.1148	mg/L	0.09008		78.49%
Li 670.784†	131.0	0.00122	mg/L	0.000798		65.21%
Mg 279.077†	10.9	0.01370	mg/L	0.001564		11.42%
Mg 280.271†	2123.4	0.00820	mg/L	0.005115		62.39%
Mg 285.213†	233.0	0.00825	mg/L	0.004583		55.55%
Mn 257.610†	27.8	0.00058	mg/L	0.000206		35.67%
Mn 259.372†	370.9	0.00077	mg/L	0.000280		36.56%
Mn 260.568†	5.6	0.00020	mg/L	0.000366		185.62%
Mo 202.031†	312.1	0.9715	mg/L	0.03935		4.05%
Mo 203.845†	193.2	1.001	mg/L	0.0278		2.77%
QC value within limits for Mo 203.845 Recovery = 100.10%						
Mo 204.597†	211.2	0.9815	mg/L	0.03865		3.94%
Na 588.995†	1417.9	0.09654	mg/L	0.082918		85.89%
Na 589.592†	343.1	0.04088	mg/L	0.012472		30.51%
Ni 221.648†	-18.0	-0.01622	mg/L	0.002607		16.07%
Ni 231.604†	-5.0	-0.00281	mg/L	0.002953		105.02%
Ni 232.003†	15.3	0.00618	mg/L	0.001276		20.65%
Pb 217.000†	0.6	0.00766	mg/L	0.034541		451.05%
Pb 220.353†	1.8	0.00478	mg/L	0.003101		64.84%
Sb 206.836†	151.1	1.867	mg/L	0.0802		4.30%
QC value within limits for Sb 206.836 Recovery = 93.36%						
Sb 217.582†	271.2	1.986	mg/L	0.1041		5.24%
Se 196.026†	-3.1	-0.09675	mg/L	0.031175		32.22%
Se 203.985†	4.5	0.06863	mg/L	0.078869		114.91%
Sn 235.485†	980.7	1.483	mg/L	0.0567		3.83%
Sn 189.927†	338.3	5.092	mg/L	0.2067		4.06%
QC value within limits for Sn 189.927 Recovery = 101.84%						
Sr 460.733†	-32.2	-0.00540	mg/L	0.015222		281.86%
Sr 407.771†	425.0	0.00029	mg/L	0.000123		42.14%
Sr 421.552†	100.6	0.00021	mg/L	0.000088		42.18%
Ti 337.279†	39692.5	0.9634	mg/L	0.02459		2.55%
QC value within limits for Ti 337.279 Recovery = 96.34%						
Ti 334.940†	65853.4	0.9630	mg/L	0.02442		2.54%
Ti 336.121†	41991.6	0.9690	mg/L	0.02512		2.59%
Tl 351.924†	1.3	-0.00189	mg/L	0.034608		>999.9%
Tl 190.801†	0.2	0.00859	mg/L	0.064145		746.53%
Tl 276.787†	12.9	0.03024	mg/L	0.008249		27.28%
V 310.230†	-54.7	-0.00189	mg/L	0.003041		160.62%
V 292.402†	-243.9	-0.00303	mg/L	0.000609		20.09%
V 311.071†	343.4	0.00168	mg/L	0.001030		61.19%
Zn 206.200†	4.3	0.00458	mg/L	0.003402		74.35%
Zn 213.857†	1.8	0.00094	mg/L	0.000152		16.12%
Zn 202.548†	-1.6	-0.00100	mg/L	0.002185		218.34%

All analyte(s) passed QC.

==========

Sequence No.: 43
Sample ID: HiLCM

Autosampler Location: 9
Date Collected: 10/26/2009 12:10:43 PM
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	446160.6	280.7	%	53.93				19.21%
Ag 328.068†	137.1	0.00502	mg/L	0.000195				3.89%

Ag 338.289†	-133.5	-0.01285 mg/L	0.001128	8.78%
Al 308.215†	1985.3	1.126 mg/L	1.4559	129.30%
Saturated within auto integration window (code 4)				
QC value less than the lower limit for Al 308.215 Recovery = 1.13%				
Al 394.401†	1654.4	0.5796 mg/L	0.34382	59.32%
Saturated within auto integration window (code 4)				
Al 396.153†	36864.3	5.154 mg/L	8.4226	163.43%
As 188.979†	-0.9	-0.03032 mg/L	0.017609	58.08%
As 193.696†	-0.9	-0.01982 mg/L	0.026344	132.92%
As 197.197†	-3.9	-0.1717 mg/L	0.06700	39.01%
B 208.889†	-30.4	-0.1228 mg/L	0.01967	16.01%
B 249.677†	10.6	0.00331 mg/L	0.000851	25.74%
B 249.772†	33.9	0.00060 mg/L	0.007915	>999.9%
Ba 233.527†	12.7	0.00192 mg/L	0.000460	23.94%
Ba 455.403†	-1040.7	-0.00287 mg/L	0.000276	9.64%
Ba 493.408†	-47.2	-0.00013 mg/L	0.000144	108.78%
Be 234.861†	59.9	0.00066 mg/L	0.000387	58.36%
Saturated within auto integration window (code 4)				
Be 313.042†	-1142.5	-0.00196 mg/L	0.000150	7.67%
Be 313.107†	-438.4	-0.00158 mg/L	0.000161	10.17%
Ca 315.887†	3255.6	0.4425 mg/L	0.23824	53.84%
Saturated within auto integration window (code 4)				
QC value less than the lower limit for Ca 315.887 Recovery = 0.44%				
Ca 317.933†	64185.2	4.945 mg/L	8.1354	164.52%
Cd 214.440†	10.3	0.00208 mg/L	0.002388	114.74%
Cd 226.502†	8.9	0.00219 mg/L	0.000380	17.41%
Cd 228.802†	-22.6	-0.00545 mg/L	0.000868	15.92%
Ce 413.380†	34.2	0.00696 mg/L	0.002085	29.97%
Ce 413.764†	-49.4	-0.00937 mg/L	0.000351	3.74%
Ce 418.660†	162.5	0.02970 mg/L	0.002580	8.68%
Co 228.616†	-22.5	-0.00966 mg/L	0.001332	13.79%
Co 230.786†	-390.6	-0.2024 mg/L	0.02357	11.64%
Co 238.892†	70.4	0.01205 mg/L	0.008534	70.83%
Saturated within auto integration window (code 4)				
Cr 205.560†	-3.5	-0.00600 mg/L	0.002732	45.57%
Cr 267.716†	-71.4	-0.01148 mg/L	0.000655	5.71%
Cr 283.563†	-34.7	-0.00353 mg/L	0.003752	106.36%
Cu 224.700†	-1.8	-0.1168 mg/L	0.01299	11.12%
Cu 324.752†	-256.9	-0.00721 mg/L	0.000723	10.03%
Cu 327.393†	62.5	0.00402 mg/L	0.000436	10.84%
Fe 238.204†	4159.5	0.4492 mg/L	0.28903	64.35%
Saturated within auto integration window (code 4)				
Fe 239.562†	3999.7	0.6540 mg/L	0.50142	76.67%
Saturated within auto integration window (code 4)				
Fe 259.939†	4364.9	0.3809 mg/L	0.21411	56.21%
Saturated within auto integration window (code 4)				
Fe 273.955†	2551.1	1.514 mg/L	1.7176	113.44%
Saturated within auto integration window (code 4)				
QC value less than the lower limit for Fe 273.955 Recovery = 1.51%				
K 766.490†	22821.2	5.106 mg/L	8.2666	161.89%
QC value less than the lower limit for K 766.490 Recovery = 5.11%				
Li 610.362†	-32569.4	-2.564 mg/L	0.2898	11.30%
Li 670.784†	456.6	0.00426 mg/L	0.000524	12.30%
Mg 279.077†	1638.5	1.448 mg/L	2.0379	140.71%
Saturated within auto integration window (code 4)				
QC value less than the lower limit for Mg 279.077 Recovery = 2.41%				
Mg 280.271†	2427.2	0.00945 mg/L	0.011505	121.77%
Saturated within auto integration window (code 4)				
Mg 285.213†	4521.3	0.1600 mg/L	0.04263	26.65%
Saturated within auto integration window (code 4)				
Mn 257.610†	20.4	0.00035 mg/L	0.000167	46.98%
Mn 259.372†	183.7	0.00115 mg/L	0.002981	259.69%
Mn 260.568†	13.0	0.00034 mg/L	0.000296	86.33%
Mo 202.031†	0.3	0.00105 mg/L	0.001310	125.29%
Mo 203.845†	3.7	0.01785 mg/L	0.007631	42.76%
Mo 204.597†	-0.2	-0.00083 mg/L	0.001202	144.69%
Na 588.995†	40622.0	2.766 mg/L	8.7799	317.46%
Saturated within auto integration window (code 4)				
Na 589.592†	41299.0	5.238 mg/L	8.6125	164.41%
QC value less than the lower limit for Na 589.592 Recovery = 5.24%				
Ni 221.648†	0.7	0.00052 mg/L	0.000956	184.15%

Ni 231.604†	-29.1	-0.01187	mg/L	0.001942				16.36%
Ni 232.003†	-5.7	-0.00280	mg/L	0.001531				54.60%
Pb 217.000†	1.6	0.00664	mg/L	0.010887				164.06%
Pb 220.353†	-2.6	-0.00488	mg/L	0.005767				118.17%
Sb 206.836†	-1.4	-0.01698	mg/L	0.008223				48.42%
Sb 217.582†	2.1	0.01529	mg/L	0.017069				111.62%
Se 196.026†	-0.7	-0.02176	mg/L	0.021086				96.90%
Se 203.985†	-1.5	-0.05518	mg/L	0.096570				175.02%
Sn 235.485†	307.7	0.2303	mg/L	0.32725				142.12%
Sn 189.927†	-0.4	-0.00618	mg/L	0.003391				54.84%
Sr 460.733†	-7.8	-0.00105	mg/L	0.006265				597.20%
Sr 407.771†	-428.0	-0.00029	mg/L	0.000189				64.32%
Sr 421.552†	-317.3	-0.00065	mg/L	0.000232				35.48%
Ti 337.279†	46.7	0.00114	mg/L	0.000446				39.25%
Ti 334.940†	-151.8	-0.00217	mg/L	0.000353				16.28%
Ti 336.121†	-30.6	-0.00070	mg/L	0.000137				19.66%
Tl 351.924†	-377.1	-0.5358	mg/L	0.05290				9.87%
Tl 190.801†	2.3	0.09059	mg/L	0.022840				25.21%
Tl 276.787†	58.7	0.03942	mg/L	0.184661				468.39%
V 310.230†	-3101.9	-0.08488	mg/L	0.006931				8.17%
V 292.402†	18.2	0.00100	mg/L	0.000583				58.50%
V 311.071†	-211.6	-0.00961	mg/L	0.000775				8.07%
Zn 206.200†	-0.8	-0.00092	mg/L	0.000852				92.60%
Zn 213.857†	-1.7	-0.00064	mg/L	0.002207				346.93%
Zn 202.548†	-3.0	-0.00180	mg/L	0.001254				69.79%

QC Failed. Continue with analysis.

==========

Sequence No.: 44 **Autosampler Location: 10**
Sample ID: blank **Date Collected: 10/26/2009 12:12:03 PM**
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	492266.7	309.8	%	6.53				2.11%
Ag 328.068†	145.5	0.00524	mg/L	0.000624				11.90%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-143.6	-0.01383	mg/L	0.000358				2.59%
Al 308.215†	-304.0	-0.1705	mg/L	0.02929				17.18%
Al 394.401†	174.8	0.06402	mg/L	0.034675				54.17%
Al 396.153†	176.1	0.02457	mg/L	0.009337				38.00%
As 188.979†	-0.1	-0.00242	mg/L	0.015430				637.68%
As 193.696†	-1.1	-0.02434	mg/L	0.007932				32.59%
As 197.197†	-3.0	-0.1298	mg/L	0.02491				19.19%
B 208.889†	-32.8	-0.1314	mg/L	0.00171				1.30%
B 249.677†	4.2	0.00141	mg/L	0.000696				49.39%
B 249.772†	-28.8	-0.00449	mg/L	0.000322				7.17%
Ba 233.527†	11.8	0.00185	mg/L	0.000516				27.89%
Ba 455.403†	-1095.9	-0.00302	mg/L	0.000021				0.69%
Ba 493.408†	-2.9	-0.00001	mg/L	0.000043				537.38%
Be 234.861†	25.3	0.00038	mg/L	0.000012				3.26%
Be 313.042†	-1202.9	-0.00207	mg/L	0.000030				1.44%
Be 313.107†	-465.4	-0.00168	mg/L	0.000012				0.69%
Ca 315.887†	271.9	0.03698	mg/L	0.030871				83.48%
Ca 317.933†	21.3	0.00170	mg/L	0.011894				699.35%
Cd 214.440†	3.8	0.00096	mg/L	0.001145				119.81%
Cd 226.502†	9.6	0.00257	mg/L	0.000288				11.22%
Cd 228.802†	-24.6	-0.00592	mg/L	0.000325				5.50%
Ce 413.380†	52.7	0.01118	mg/L	0.002299				20.56%
Ce 413.764†	-40.2	-0.00795	mg/L	0.006012				75.62%
Ce 418.660†	201.9	0.03689	mg/L	0.001205				3.27%
Co 228.616†	-22.1	-0.00966	mg/L	0.000241				2.49%
Co 230.786†	-422.6	-0.2170	mg/L	0.00212				0.98%
Co 238.892†	29.1	0.00702	mg/L	0.000600				8.55%
Cr 205.560†	-3.5	-0.00600	mg/L	0.000176				2.94%
Cr 267.716†	-76.1	-0.01219	mg/L	0.000483				3.97%
Cr 283.563†	-116.1	-0.00557	mg/L	0.000145				2.61%
Cu 224.700†	-7.6	-0.1158	mg/L	0.00442				3.82%
Cu 324.752†	-286.6	-0.00799	mg/L	0.000306				3.83%

Cu 327.393†	68.4	0.00440	mg/L	0.000298	6.76%
Fe 238.204†	221.3	0.02387	mg/L	0.030555	127.98%
Fe 239.562†	144.0	0.02358	mg/L	0.030682	130.13%
Fe 259.939†	243.6	0.02126	mg/L	0.030427	143.15%
Fe 273.955†	79.3	0.04733	mg/L	0.033042	69.82%
K 766.490†	380.1	0.08504	mg/L	0.009684	11.39%
Li 610.362†	-34706.4	-2.731	mg/L	0.0301	1.10%
Li 670.784†	438.6	0.00410	mg/L	0.000203	4.96%
Mg 279.077†	-7.2	-0.00646	mg/L	0.018807	290.92%
Mg 280.271†	1920.6	0.00750	mg/L	0.006052	80.75%
Saturated within auto integration window (code 4)					
Mg 285.213†	800.9	0.02823	mg/L	0.019008	67.32%
Mn 257.610†	7.6	0.00015	mg/L	0.000047	31.43%
Mn 259.372†	-38.0	-0.00064	mg/L	0.000039	6.13%
Mn 260.568†	2.8	0.00010	mg/L	0.000076	72.52%
Mo 202.031†	0.4	0.00123	mg/L	0.001432	116.34%
Mo 203.845†	2.7	0.01407	mg/L	0.002046	14.54%
Mo 204.597†	0.3	0.00117	mg/L	0.005254	450.12%
Na 588.995†	-38000.7	-2.587	mg/L	0.0251	0.97%
Na 589.592†	-54.6	-0.00693	mg/L	0.007196	103.82%
Ni 221.648†	2.4	0.00216	mg/L	0.000490	22.72%
Ni 231.604†	-33.3	-0.01358	mg/L	0.000662	4.87%
Ni 232.003†	-4.8	-0.00325	mg/L	0.001486	45.70%
Pb 217.000†	0.2	0.00184	mg/L	0.007463	405.00%
Pb 220.353†	-2.4	-0.00630	mg/L	0.002584	41.04%
Sb 206.836†	-1.9	-0.02324	mg/L	0.003870	16.66%
Sb 217.582†	4.3	0.03153	mg/L	0.010381	32.92%
Se 196.026†	-2.7	-0.08439	mg/L	0.001748	2.07%
Se 203.985†	0.6	0.03108	mg/L	0.006720	21.62%
Sn 235.485†	35.7	0.04534	mg/L	0.001037	2.29%
Sn 189.927†	-0.3	-0.00521	mg/L	0.009015	173.04%
Sr 460.733†	-2.2	-0.00032	mg/L	0.004523	>999.9%
Sr 407.771†	-614.7	-0.00042	mg/L	0.000022	5.27%
Sr 421.552†	-407.2	-0.00084	mg/L	0.000030	3.59%
Ti 337.279†	39.2	0.00095	mg/L	0.000328	34.46%
Ti 334.940†	-149.1	-0.00217	mg/L	0.000082	3.76%
Ti 336.121†	-39.7	-0.00091	mg/L	0.000021	2.30%
Tl 351.924†	-408.8	-0.5809	mg/L	0.00485	0.83%
Tl 190.801†	1.9	0.07512	mg/L	0.018327	24.40%
Tl 276.787†	-31.1	-0.07594	mg/L	0.003961	5.22%
V 310.230†	-3233.1	-0.08847	mg/L	0.001619	1.83%
V 292.402†	15.1	0.00110	mg/L	0.000498	45.31%
V 311.071†	-217.5	-0.00984	mg/L	0.000088	0.90%
Zn 206.200†	-0.6	-0.00062	mg/L	0.000769	124.32%
Zn 213.857†	-5.7	-0.00169	mg/L	0.000300	17.70%
Zn 202.548†	-3.9	-0.00231	mg/L	0.000488	21.18%

All analyte(s) passed QC.

==========

Sequence No.: 45
Sample ID: 0909006-03

Initial Sample Wt: 0.4808 g
Dilution: 1X

Autosampler Location: 221
Date Collected: 10/26/2009 12:13:03 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909006-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155535.1	97.87	%	3.397				3.47%
Ag 328.068†	535.6	0.02160	mg/L	0.003861	2.246	mg/kg	0.4016	17.88%
Ag 338.289†	-37.2	0.00792	mg/L	0.008179	0.8241	mg/kg	0.85055	103.21%
Al 308.215†	56912.5	32.23	mg/L	0.261	3352	mg/kg	27.2	0.81%
Al 394.401†	105127.3	35.84	mg/L	0.347	3727	mg/kg	36.1	0.97%
Al 396.153†	233663.2	31.98	mg/L	0.141	3326	mg/kg	14.7	0.44%
As 188.979†	-131.1	1.079	mg/L	0.2193	112.2	mg/kg	22.80	20.32%
As 193.696†	64.5	-0.7462	mg/L	0.09790	-77.60	mg/kg	10.181	13.12%
As 197.197†	-38.7	2.677	mg/L	0.7284	278.4	mg/kg	75.75	27.21%
B 208.889†	215.3	0.4109	mg/L	0.00400	42.73	mg/kg	0.416	0.97%
B 249.677†	708.8	0.2306	mg/L	0.01035	23.98	mg/kg	1.076	4.49%
B 249.772†	2236.4	0.2428	mg/L	0.00560	25.25	mg/kg	0.582	2.31%

Ba 233.527†	2105.5	0.3217	mg/L	0.00685	33.45	mg/kg	0.712	2.13%
Ba 455.403†	127416.9	0.3508	mg/L	0.00279	36.48	mg/kg	0.290	0.80%
Ba 493.408†	134966.0	0.3547	mg/L	0.00215	36.89	mg/kg	0.224	0.61%
Be 234.861†	442.1	0.00167	mg/L	0.000443	0.1732	mg/kg	0.04611	26.62%
Be 313.042†	1997.8	0.00352	mg/L	0.000144	0.3664	mg/kg	0.01494	4.08%
Be 313.107†	1064.9	0.00359	mg/L	0.000153	0.3737	mg/kg	0.01587	4.25%
Ca 315.887†	13672357.2	1858	mg/L	42.6	193200	mg/kg	4432.4	2.29%
Ca 317.933†	22183082.3	1709	mg/L	36.5	177700	mg/kg	3791.6	2.13%
Cd 214.440†	133.8	-0.05032	mg/L	0.016733	-5.233	mg/kg	1.7401	33.25%
Cd 226.502†	7.9	0.00307	mg/L	0.000984	0.3189	mg/kg	0.10237	32.10%
Cd 228.802†	10.0	-0.03963	mg/L	0.003181	-4.121	mg/kg	0.3308	8.03%
Ce 413.380†	419.0	0.08271	mg/L	0.002269	8.602	mg/kg	0.2360	2.74%
Ce 413.764†	371.1	0.08444	mg/L	0.017064	8.781	mg/kg	1.7745	20.21%
Ce 418.660†	103.9	0.1438	mg/L	0.00321	14.96	mg/kg	0.334	2.23%
Co 228.616†	42.4	0.01627	mg/L	0.003702	1.692	mg/kg	0.3850	22.76%
Co 230.786†	726.4	-0.06868	mg/L	0.019509	-7.142	mg/kg	2.0288	28.41%
Co 238.892†	684.8	-0.00051	mg/L	0.010087	-0.05310	mg/kg	1.048960	>999.9%
Cr 205.560†	-6.4	0.06615	mg/L	0.007970	6.879	mg/kg	0.8289	12.05%
Cr 267.716†	1228.7	0.09439	mg/L	0.007585	9.815	mg/kg	0.7888	8.04%
Cr 283.563†	340.8	0.07504	mg/L	0.007852	7.803	mg/kg	0.8166	10.46%
Cu 224.700†	134.9	-0.5793	mg/L	0.03970	-60.25	mg/kg	4.128	6.85%
Cu 324.752†	3988.5	0.1099	mg/L	0.00114	11.42	mg/kg	0.118	1.04%
Cu 327.393†	1907.4	0.1220	mg/L	0.00188	12.69	mg/kg	0.196	1.54%
Fe 238.204†	288132.2	31.12	mg/L	0.199	3236	mg/kg	20.7	0.64%
Fe 239.562†	190684.7	31.24	mg/L	0.209	3249	mg/kg	21.8	0.67%
Fe 259.939†	360322.7	31.45	mg/L	0.210	3270	mg/kg	21.9	0.67%
Fe 273.955†	53445.9	31.72	mg/L	0.178	3298	mg/kg	18.5	0.56%
K 766.490†	12492.8	2.795	mg/L	0.0797	290.7	mg/kg	8.28	2.85%
Li 610.362†	7913.5	-1.030	mg/L	0.1404	-107.1	mg/kg	14.60	13.63%
Li 670.784†	2675.8	0.02499	mg/L	0.001692	2.599	mg/kg	0.1759	6.77%
Mg 279.077†	923286.6	816.8	mg/L	5.25	84940	mg/kg	546.2	0.64%
Mg 280.271†	Saturated3							
Mg 285.213†	18204398.2	644.6	mg/L	12.82	67030	mg/kg	1333.1	1.99%
Mn 257.610†	150363.0	3.102	mg/L	0.0178	322.6	mg/kg	1.85	0.57%
Mn 259.372†	207106.8	3.113	mg/L	0.0216	323.7	mg/kg	2.25	0.69%
Mn 260.568†	82771.8	2.870	mg/L	0.0137	298.5	mg/kg	1.42	0.48%
Mo 202.031†	37.7	-0.03000	mg/L	0.006607	-3.120	mg/kg	0.6871	22.02%
Mo 203.845†	206.7	0.3620	mg/L	0.05200	37.64	mg/kg	5.407	14.37%
Mo 204.597†	-68.5	0.03512	mg/L	0.034652	3.652	mg/kg	3.6036	98.67%
Na 588.995†	4000800.1	272.4	mg/L	0.92	28330	mg/kg	95.3	0.34%
Na 589.592†	2185706.1	277.2	mg/L	1.18	28830	mg/kg	122.6	0.43%
Ni 221.648†	53.5	0.04607	mg/L	0.008900	4.791	mg/kg	0.9255	19.32%
Ni 231.604†	194.6	0.02600	mg/L	0.004991	2.704	mg/kg	0.5191	19.20%
Ni 232.003†	-72.3	0.08506	mg/L	0.015537	8.846	mg/kg	1.6157	18.27%
Pb 217.000†	-13.0	0.3010	mg/L	0.07358	31.30	mg/kg	7.652	24.45%
Pb 220.353†	105.8	0.01911	mg/L	0.027775	1.987	mg/kg	2.8884	145.33%
Sb 206.836†	-8.3	-0.1088	mg/L	0.06557	-11.31	mg/kg	6.819	60.28%
Sb 217.582†	-34.2	-0.2503	mg/L	0.02952	-26.03	mg/kg	3.070	11.79%
Se 196.026†	11.0	0.3452	mg/L	0.21575	35.90	mg/kg	22.437	62.51%
Se 203.985†	-229.2	4.080	mg/L	0.2397	424.3	mg/kg	24.92	5.87%
Sn 235.485†	3092.5	-0.1567	mg/L	0.05571	-16.30	mg/kg	5.793	35.54%
Sn 189.927†	-65.8	0.3020	mg/L	0.13290	31.41	mg/kg	13.820	44.00%
Sr 460.733†	11618.3	2.045	mg/L	0.0219	212.6	mg/kg	2.28	1.07%
Sr 407.771†	2699867.2	1.828	mg/L	0.0118	190.1	mg/kg	1.23	0.65%
Sr 421.552†	897315.2	1.851	mg/L	0.0132	192.5	mg/kg	1.37	0.71%
Ti 337.279†	50648.8	1.229	mg/L	0.0085	127.9	mg/kg	0.88	0.69%
Ti 334.940†	70383.5	1.237	mg/L	0.0085	128.6	mg/kg	0.88	0.69%
Ti 336.121†	51173.7	1.223	mg/L	0.0070	127.2	mg/kg	0.72	0.57%
Tl 351.924†	-32.0	-0.07427	mg/L	0.039759	-7.723	mg/kg	4.1346	53.53%
Tl 190.801†	86.6	-0.5159	mg/L	0.03401	-53.65	mg/kg	3.537	6.59%
Tl 276.787†	25100.7	4.144	mg/L	1.9336	430.9	mg/kg	201.08	46.66%
V 310.230†	3470.3	0.09127	mg/L	0.002995	9.492	mg/kg	0.3115	3.28%
V 292.402†	1983.3	0.1367	mg/L	0.00268	14.22	mg/kg	0.278	1.96%
V 311.071†	1058.6	0.04187	mg/L	0.004520	4.354	mg/kg	0.4700	10.79%
Zn 206.200†	310.9	0.1772	mg/L	0.00632	18.43	mg/kg	0.657	3.57%
Zn 213.857†	1489.0	0.2150	mg/L	0.01016	22.36	mg/kg	1.056	4.73%
Zn 202.548†	674.6	0.3472	mg/L	0.00740	36.10	mg/kg	0.769	2.13%

Data Type: Original

Initial Sample Wt: 0.5889 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909006-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	151748.6	95.49	%	6.201				6.49%
Ag 328.068†	-21.3	0.01416	mg/L	0.001210	1.203	mg/kg	0.1027	8.54%
Ag 338.289†	-85.8	-0.00141	mg/L	0.002128	-0.1195	mg/kg	0.18068	151.24%
Al 308.215†	86303.0	48.88	mg/L	0.555	4150	mg/kg	47.1	1.14%
Al 394.401†	156887.3	54.14	mg/L	0.618	4597	mg/kg	52.4	1.14%
Al 396.153†	354830.7	49.19	mg/L	1.175	4176	mg/kg	99.8	2.39%
As 188.979†	-106.1	-0.1812	mg/L	0.16529	-15.38	mg/kg	14.034	91.22%
As 193.696†	61.3	0.06489	mg/L	0.167422	5.509	mg/kg	14.2148	258.02%
As 197.197†	-52.1	0.8331	mg/L	0.13972	70.73	mg/kg	11.863	16.77%
B 208.889†	135.0	0.2933	mg/L	0.04896	24.90	mg/kg	4.157	16.69%
B 249.677†	453.7	0.1127	mg/L	0.00715	9.572	mg/kg	0.6072	6.34%
B 249.772†	5518.7	0.1428	mg/L	0.01723	12.13	mg/kg	1.463	12.06%
Ba 233.527†	3501.2	0.5269	mg/L	0.01503	44.74	mg/kg	1.276	2.85%
Ba 455.403†	197760.3	0.5445	mg/L	0.00592	46.23	mg/kg	0.503	1.09%
Ba 493.408†	209876.7	0.5506	mg/L	0.00552	46.75	mg/kg	0.468	1.00%
Be 234.861†	2569.8	0.00288	mg/L	0.000721	0.2448	mg/kg	0.06118	25.00%
Be 313.042†	2992.3	0.00537	mg/L	0.000293	0.4561	mg/kg	0.02488	5.46%
Be 313.107†	1475.5	0.00515	mg/L	0.000244	0.4370	mg/kg	0.02071	4.74%
Ca 315.887†	8358136.4	1136	mg/L	35.9	96440	mg/kg	3051.7	3.16%
Ca 317.933†	13696861.0	1055	mg/L	36.0	89590	mg/kg	3056.2	3.41%
Cd 214.440†	221.2	-0.01707	mg/L	0.007785	-1.449	mg/kg	0.6610	45.61%
Cd 226.502†	104.7	0.00827	mg/L	0.000441	0.7023	mg/kg	0.03746	5.33%
Cd 228.802†	55.7	-0.02518	mg/L	0.004570	-2.138	mg/kg	0.3880	18.15%
Ce 413.380†	778.0	0.1194	mg/L	0.01242	10.13	mg/kg	1.055	10.41%
Ce 413.764†	356.1	0.1325	mg/L	0.00952	11.25	mg/kg	0.808	7.19%
Ce 418.660†	392.5	0.1479	mg/L	0.00501	12.56	mg/kg	0.426	3.39%
Co 228.616†	148.0	0.05457	mg/L	0.002738	4.633	mg/kg	0.2325	5.02%
Co 230.786†	911.2	0.05385	mg/L	0.030151	4.572	mg/kg	2.5600	55.99%
Co 238.892†	3533.2	0.02649	mg/L	0.001840	2.249	mg/kg	0.1562	6.94%
Cr 205.560†	100.6	0.2191	mg/L	0.00228	18.60	mg/kg	0.194	1.04%
Cr 267.716†	1732.5	0.2522	mg/L	0.00802	21.41	mg/kg	0.681	3.18%
Cr 283.563†	9624.9	0.1846	mg/L	0.00359	15.67	mg/kg	0.305	1.95%
Cu 224.700†	624.9	-1.889	mg/L	0.0330	-160.4	mg/kg	2.81	1.75%
Cu 324.752†	10003.6	0.2701	mg/L	0.00475	22.93	mg/kg	0.403	1.76%
Cu 327.393†	4397.7	0.2821	mg/L	0.00540	23.95	mg/kg	0.458	1.91%
Fe 238.204†	1929442.8	208.4	mg/L	6.03	17690	mg/kg	512.1	2.89%
Fe 239.562†	1286468.1	210.4	mg/L	6.16	17860	mg/kg	523.0	2.93%
Fe 259.939†	2413912.8	210.7	mg/L	6.30	17890	mg/kg	535.3	2.99%
Fe 273.955†	389467.7	231.1	mg/L	1.66	19620	mg/kg	140.9	0.72%
K 766.490†	41602.7	9.309	mg/L	0.1534	790.4	mg/kg	13.02	1.65%
Li 610.362†	7938.9	-0.6062	mg/L	0.26766	-51.47	mg/kg	22.726	44.15%
Li 670.784†	8647.6	0.08077	mg/L	0.001414	6.857	mg/kg	0.1201	1.75%
Mg 279.077†	393903.0	348.3	mg/L	3.02	29570	mg/kg	256.7	0.87%
Mg 280.271†	67324248.4	259.9	mg/L	9.61	22070	mg/kg	815.8	3.70%
Mg 285.213†	8755265.1	310.0	mg/L	6.26	26320	mg/kg	531.3	2.02%
Mn 257.610†	218524.5	4.530	mg/L	0.0316	384.6	mg/kg	2.68	0.70%
Mn 259.372†	314896.5	4.556	mg/L	0.0349	386.8	mg/kg	2.97	0.77%
Mn 260.568†	120163.0	4.182	mg/L	0.0252	355.0	mg/kg	2.14	0.60%
Mo 202.031†	39.4	0.06268	mg/L	0.021272	5.322	mg/kg	1.8061	33.94%
Mo 203.845†	151.2	0.4809	mg/L	0.02577	40.83	mg/kg	2.188	5.36%
Mo 204.597†	-49.5	-0.01358	mg/L	0.021957	-1.153	mg/kg	1.8643	161.74%
Na 588.995†	425596.4	28.98	mg/L	0.474	2460	mg/kg	40.2	1.63%
Na 589.592†	236863.5	30.04	mg/L	0.374	2551	mg/kg	31.7	1.24%
Ni 221.648†	347.6	0.2976	mg/L	0.01319	25.26	mg/kg	1.120	4.43%
Ni 231.604†	783.0	0.2871	mg/L	0.00983	24.37	mg/kg	0.835	3.43%
Ni 232.003†	80.8	0.3039	mg/L	0.01610	25.80	mg/kg	1.367	5.30%
Pb 217.000†	90.5	1.065	mg/L	0.0275	90.41	mg/kg	2.335	2.58%
Pb 220.353†	462.7	1.061	mg/L	0.0373	90.10	mg/kg	3.165	3.51%
Sb 206.836†	-0.6	-0.01397	mg/L	0.016136	-1.186	mg/kg	1.3700	115.54%
Sb 217.582†	-16.4	-0.1204	mg/L	0.03544	-10.22	mg/kg	3.009	29.44%
Se 196.026†	0.9	0.02944	mg/L	0.246084	2.500	mg/kg	20.8935	835.80%
Se 203.985†	-219.9	-0.8076	mg/L	0.24741	-68.57	mg/kg	21.006	30.64%
Sn 235.485†	21258.1	-3.114	mg/L	0.1440	-264.4	mg/kg	12.23	4.63%

Sn 189.927†	-57.7	-0.07918 mg/L	0.141158	-6.723 mg/kg	11.9849	178.27%
Sr 460.733†	7994.8	1.409 mg/L	0.0296	119.6 mg/kg	2.51	2.10%
Sr 407.771†	1912901.4	1.297 mg/L	0.0418	110.1 mg/kg	3.55	3.22%
Sr 421.552†	634037.8	1.308 mg/L	0.0429	111.0 mg/kg	3.64	3.28%
Ti 337.279†	37409.3	0.9089 mg/L	0.01021	77.17 mg/kg	0.867	1.12%
Ti 334.940†	53523.1	0.9093 mg/L	0.00820	77.21 mg/kg	0.696	0.90%
Ti 336.121†	38161.2	0.9066 mg/L	0.00822	76.98 mg/kg	0.698	0.91%
Tl 351.924†	21.4	-0.04441 mg/L	0.043606	-3.771 mg/kg	3.7023	98.19%
Tl 190.801†	71.5	0.3165 mg/L	0.27951	26.87 mg/kg	23.731	88.31%
Tl 276.787†	13584.3	8.528 mg/L	0.4798	724.1 mg/kg	40.74	5.63%
V 310.230†	3878.5	0.1024 mg/L	0.00804	8.697 mg/kg	0.6828	7.85%
V 292.402†	2747.9	0.1481 mg/L	0.00435	12.58 mg/kg	0.369	2.93%
V 311.071†	2316.4	0.09275 mg/L	0.001642	7.875 mg/kg	0.1394	1.77%
Zn 206.200†	1365.6	1.356 mg/L	0.0459	115.2 mg/kg	3.89	3.38%
Zn 213.857†	5858.6	1.632 mg/L	0.0503	138.5 mg/kg	4.27	3.08%
Zn 202.548†	2402.1	1.433 mg/L	0.0179	121.7 mg/kg	1.52	1.25%

Sequence No.: 47
Sample ID: 0909014-01

Initial Sample Wt: 0.5494 g
Dilution: 1X

Autosampler Location: 406
Date Collected: 10/26/2009 12:15:45 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165027.8	103.8	%	6.23				6.00%
Ag 328.068†	-185.3	0.00569	mg/L	0.003706	0.5175	mg/kg	0.33730	65.18%
Ag 338.289†	-131.3	-0.00058	mg/L	0.004286	-0.05261	mg/kg	0.390067	741.42%
Al 308.215†	60301.2	34.15	mg/L	0.516	3108	mg/kg	47.0	1.51%
Al 394.401†	109742.3	37.88	mg/L	0.514	3447	mg/kg	46.8	1.36%
Al 396.153†	249117.2	34.65	mg/L	2.100	3153	mg/kg	191.1	6.06%
As 188.979†	-68.8	-0.8260	mg/L	0.15347	-75.18	mg/kg	13.967	18.58%
As 193.696†	42.8	0.3707	mg/L	0.04082	33.74	mg/kg	3.715	11.01%
As 197.197†	-44.7	-0.3512	mg/L	0.20862	-31.96	mg/kg	18.986	59.40%
B 208.889†	49.4	0.1190	mg/L	0.02003	10.83	mg/kg	1.823	16.84%
B 249.677†	238.8	0.05192	mg/L	0.005126	4.725	mg/kg	0.4665	9.87%
B 249.772†	3839.1	0.08223	mg/L	0.009345	7.483	mg/kg	0.8505	11.37%
Ba 233.527†	1483.5	0.2201	mg/L	0.00851	20.03	mg/kg	0.774	3.87%
Ba 455.403†	82910.2	0.2283	mg/L	0.01397	20.77	mg/kg	1.271	6.12%
Ba 493.408†	86000.8	0.2252	mg/L	0.01323	20.50	mg/kg	1.204	5.88%
Be 234.861†	1848.0	0.00203	mg/L	0.001973	0.1847	mg/kg	0.17955	97.23%
Be 313.042†	1639.6	0.00279	mg/L	0.000244	0.2542	mg/kg	0.02222	8.74%
Be 313.107†	849.8	0.00278	mg/L	0.000253	0.2528	mg/kg	0.02305	9.12%
Ca 315.887†	3632651.7	493.7	mg/L	29.87	44930	mg/kg	2718.3	6.05%
Ca 317.933†	5688436.0	438.3	mg/L	30.36	39880	mg/kg	2762.8	6.93%
Cd 214.440†	129.5	-0.00413	mg/L	0.002516	-0.3755	mg/kg	0.22902	60.99%
Cd 226.502†	68.7	0.00312	mg/L	0.001032	0.2842	mg/kg	0.09389	33.04%
Cd 228.802†	18.3	-0.02315	mg/L	0.002282	-2.107	mg/kg	0.2077	9.85%
Ce 413.380†	1984.3	0.3885	mg/L	0.01290	35.35	mg/kg	1.174	3.32%
Ce 413.764†	1678.8	0.3764	mg/L	0.01880	34.26	mg/kg	1.711	4.99%
Ce 418.660†	1968.4	0.3925	mg/L	0.02267	35.72	mg/kg	2.063	5.78%
Co 228.616†	108.3	0.03921	mg/L	0.001871	3.569	mg/kg	0.1703	4.77%
Co 230.786†	480.9	0.03052	mg/L	0.015810	2.778	mg/kg	1.4388	51.79%
Co 238.892†	2637.1	0.05187	mg/L	0.027916	4.720	mg/kg	2.5406	53.82%
Cr 205.560†	52.8	0.1107	mg/L	0.01198	10.08	mg/kg	1.090	10.82%
Cr 267.716†	729.5	0.1223	mg/L	0.00411	11.13	mg/kg	0.374	3.36%
Cr 283.563†	6736.8	0.1003	mg/L	0.01196	9.129	mg/kg	1.0887	11.93%
Cu 224.700†	386.7	-1.297	mg/L	0.0235	-118.0	mg/kg	2.14	1.81%
Cu 324.752†	4758.4	0.1269	mg/L	0.00373	11.55	mg/kg	0.339	2.94%
Cu 327.393†	2151.4	0.1379	mg/L	0.00273	12.55	mg/kg	0.249	1.98%
Fe 238.204†	1488697.4	160.8	mg/L	9.82	14630	mg/kg	893.4	6.11%
Fe 239.562†	988968.6	161.7	mg/L	9.68	14720	mg/kg	880.9	5.99%
Fe 259.939†	1847076.9	161.2	mg/L	9.75	14670	mg/kg	887.8	6.05%
Fe 273.955†	280591.9	166.5	mg/L	10.12	15150	mg/kg	921.3	6.08%
K 766.490†	16518.5	3.696	mg/L	0.0721	336.4	mg/kg	6.56	1.95%
Li 610.362†	1676.4	-0.4686	mg/L	0.23058	-42.64	mg/kg	20.985	49.21%
Li 670.784†	5741.3	0.05362	mg/L	0.000956	4.880	mg/kg	0.0870	1.78%
Mg 279.077†	76459.3	67.50	mg/L	0.858	6143	mg/kg	78.1	1.27%

Mg 280.271†	16401846.5	63.32 mg/L	4.199	5763 mg/kg	382.1	6.63%
Mg 285.213†	1825933.8	64.65 mg/L	3.841	5884 mg/kg	349.5	5.94%
Mn 257.610†	96832.7	2.009 mg/L	0.0209	182.9 mg/kg	1.91	1.04%
Mn 259.372†	144775.4	2.032 mg/L	0.0152	184.9 mg/kg	1.38	0.75%
Mn 260.568†	53252.9	1.853 mg/L	0.0163	168.6 mg/kg	1.49	0.88%
Mo 202.031†	17.7	0.03850 mg/L	0.026582	3.503 mg/kg	2.4192	69.05%
Mo 203.845†	49.8	0.1995 mg/L	0.03377	18.15 mg/kg	3.073	16.93%
Mo 204.597†	-32.3	-0.05617 mg/L	0.020852	-5.112 mg/kg	1.8977	37.12%
Na 588.995†	23395.6	1.593 mg/L	0.3365	145.0 mg/kg	30.62	21.13%
Na 589.592†	13909.0	1.765 mg/L	0.0133	160.6 mg/kg	1.21	0.75%
Ni 221.648†	221.6	0.1885 mg/L	0.00901	17.15 mg/kg	0.820	4.78%
Ni 231.604†	500.4	0.1901 mg/L	0.01103	17.31 mg/kg	1.004	5.80%
Ni 232.003†	31.1	0.1792 mg/L	0.00619	16.31 mg/kg	0.563	3.45%
Pb 217.000†	20.5	0.08415 mg/L	0.010493	7.658 mg/kg	0.9549	12.47%
Pb 220.353†	107.8	0.2224 mg/L	0.01355	20.24 mg/kg	1.233	6.09%
Sb 206.836†	-5.3	-0.06994 mg/L	0.033744	-6.365 mg/kg	3.0709	48.25%
Sb 217.582†	-6.0	-0.04427 mg/L	0.014088	-4.029 mg/kg	1.2821	31.82%
Se 196.026†	-1.0	-0.03271 mg/L	0.222161	-2.977 mg/kg	20.2185	679.15%
Se 203.985†	-157.9	-2.857 mg/L	0.4158	-260.0 mg/kg	37.84	14.55%
Sn 235.485†	15763.6	-1.569 mg/L	1.2612	-142.8 mg/kg	114.78	80.41%
Sn 189.927†	-39.0	-0.2441 mg/L	0.08827	-22.22 mg/kg	8.034	36.16%
Sr 460.733†	3886.3	0.6838 mg/L	0.00034	62.23 mg/kg	0.031	0.05%
Sr 407.771†	989556.2	0.6720 mg/L	0.04057	61.16 mg/kg	3.692	6.04%
Sr 421.552†	327380.0	0.6753 mg/L	0.04087	61.46 mg/kg	3.720	6.05%
Ti 337.279†	47988.2	1.165 mg/L	0.0134	106.1 mg/kg	1.22	1.15%
Ti 334.940†	75702.3	1.162 mg/L	0.0145	105.8 mg/kg	1.32	1.25%
Ti 336.121†	49764.3	1.160 mg/L	0.0157	105.6 mg/kg	1.43	1.35%
Tl 351.924†	13.0	-0.07974 mg/L	0.043722	-7.257 mg/kg	3.9790	54.83%
Tl 190.801†	48.6	0.7685 mg/L	0.10831	69.94 mg/kg	9.857	14.09%
Tl 276.787†	3291.5	3.149 mg/L	0.1542	286.6 mg/kg	14.04	4.90%
V 310.230†	3644.6	0.09796 mg/L	0.006591	8.915 mg/kg	0.5998	6.73%
V 292.402†	2444.8	0.1381 mg/L	0.00521	12.57 mg/kg	0.475	3.78%
V 311.071†	3148.0	0.1266 mg/L	0.00612	11.52 mg/kg	0.557	4.83%
Zn 206.200†	653.8	0.6535 mg/L	0.01951	59.47 mg/kg	1.776	2.99%
Zn 213.857†	2754.7	0.7677 mg/L	0.03031	69.87 mg/kg	2.758	3.95%
Zn 202.548†	1167.2	0.6984 mg/L	0.02515	63.56 mg/kg	2.289	3.60%

==========

Sequence No.: 48
Sample ID: 0909014-02

Initial Sample Wt: 0.4546 g
Dilution: 1X

Autosampler Location: 407
Date Collected: 10/26/2009 12:16:56 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	150805.7	94.89	%	5.570				5.87%
Ag 328.068†	299.9	0.02063	mg/L	0.002758	2.269	mg/kg	0.3033	13.37%
Ag 338.289†	-82.3	0.00871	mg/L	0.006332	0.9575	mg/kg	0.69647	72.74%
Al 308.215†	107406.8	60.83	mg/L	0.455	6690	mg/kg	50.1	0.75%
Al 394.401†	195945.1	67.46	mg/L	0.425	7420	mg/kg	46.7	0.63%
Al 396.153†	447570.0	61.90	mg/L	1.574	6809	mg/kg	173.2	2.54%
As 188.979†	-136.7	0.9628	mg/L	0.30596	105.9	mg/kg	33.65	31.78%
As 193.696†	88.1	-0.6681	mg/L	0.11367	-73.48	mg/kg	12.502	17.01%
As 197.197†	-83.3	2.502	mg/L	0.0656	275.2	mg/kg	7.22	2.62%
B 208.889†	109.1	0.3105	mg/L	0.05893	34.15	mg/kg	6.481	18.98%
B 249.677†	498.2	0.1416	mg/L	0.00632	15.58	mg/kg	0.695	4.46%
B 249.772†	4033.7	0.1741	mg/L	0.01578	19.15	mg/kg	1.735	9.06%
Ba 233.527†	5766.5	0.8779	mg/L	0.02401	96.55	mg/kg	2.641	2.74%
Ba 455.403†	330587.5	0.9102	mg/L	0.02130	100.1	mg/kg	2.34	2.34%
Ba 493.408†	343661.3	0.9029	mg/L	0.02081	99.31	mg/kg	2.289	2.31%
Be 234.861†	1861.7	0.00543	mg/L	0.000816	0.5969	mg/kg	0.08978	15.04%
Be 313.042†	4549.3	0.00823	mg/L	0.000353	0.9049	mg/kg	0.03884	4.29%
Be 313.107†	2327.8	0.00804	mg/L	0.000394	0.8841	mg/kg	0.04337	4.91%
Ca 315.887†	13372327.7	1817	mg/L	80.8	199900	mg/kg	8884.0	4.44%
Ca 317.933†	21750478.5	1676	mg/L	80.1	184300	mg/kg	8815.2	4.78%
Cd 214.440†	217.0	-0.03241	mg/L	0.013597	-3.565	mg/kg	1.4955	41.95%
Cd 226.502†	103.7	0.01447	mg/L	0.002385	1.592	mg/kg	0.2624	16.48%
Cd 228.802†	63.5	-0.04065	mg/L	0.004674	-4.470	mg/kg	0.5141	11.50%

Ce 413.380†	678.7	0.1152 mg/L	0.01452	12.68 mg/kg	1.597	12.60%
Ce 413.764†	472.5	0.1355 mg/L	0.02336	14.90 mg/kg	2.570	17.24%
Ce 418.660†	326.5	0.1818 mg/L	0.01781	19.99 mg/kg	1.959	9.80%
Co 228.616†	108.9	0.04043 mg/L	0.005981	4.446 mg/kg	0.6578	14.79%
Co 230.786†	731.9	-0.01416 mg/L	0.026564	-1.557 mg/kg	2.9217	187.59%
Co 238.892†	2398.0	0.02473 mg/L	0.005509	2.720 mg/kg	0.6059	22.27%
Cr 205.560†	132.1	0.3011 mg/L	0.00268	33.11 mg/kg	0.295	0.89%
Cr 267.716†	1986.4	0.3093 mg/L	0.00766	34.02 mg/kg	0.842	2.48%
Cr 283.563†	8989.7	0.2487 mg/L	0.00374	27.36 mg/kg	0.411	1.50%
Cu 224.700†	1673.6	-0.7469 mg/L	0.03129	-82.15 mg/kg	3.441	4.19%
Cu 324.752†	52854.9	1.459 mg/L	0.0118	160.5 mg/kg	1.30	0.81%
Cu 327.393†	23114.4	1.484 mg/L	0.0072	163.3 mg/kg	0.80	0.49%
Fe 238.204†	1251158.9	135.1 mg/L	3.31	14860 mg/kg	364.3	2.45%
Fe 239.562†	832227.2	136.1 mg/L	3.21	14970 mg/kg	352.9	2.36%
Fe 259.939†	1565601.9	136.6 mg/L	3.25	15030 mg/kg	357.2	2.38%
Fe 273.955†	245314.9	145.6 mg/L	0.60	16010 mg/kg	65.5	0.41%
K 766.490†	38510.6	8.617 mg/L	0.0150	947.8 mg/kg	1.65	0.17%
Li 610.362†	11859.0	-0.7908 mg/L	0.27441	-86.98 mg/kg	30.182	34.70%
Li 670.784†	8776.6	0.08197 mg/L	0.001156	9.016 mg/kg	0.1271	1.41%
Mg 279.077†	187281.5	165.6 mg/L	1.03	18210 mg/kg	113.6	0.62%
Mg 280.271†	35935653.5	138.7 mg/L	6.15	15260 mg/kg	676.5	4.43%
Mg 285.213†	4449712.6	157.6 mg/L	3.85	17330 mg/kg	423.3	2.44%
Mn 257.610†	134314.2	2.785 mg/L	0.0112	306.3 mg/kg	1.23	0.40%
Mn 259.372†	193680.6	2.800 mg/L	0.0134	308.0 mg/kg	1.47	0.48%
Mn 260.568†	73948.2	2.574 mg/L	0.0134	283.1 mg/kg	1.48	0.52%
Mo 202.031†	32.7	-0.02614 mg/L	0.006121	-2.875 mg/kg	0.6732	23.42%
Mo 203.845†	96.4	0.3558 mg/L	0.02631	39.14 mg/kg	2.894	7.40%
Mo 204.597†	-65.8	0.04005 mg/L	0.010331	4.405 mg/kg	1.1363	25.79%
Na 588.995†	255849.0	17.42 mg/L	0.700	1916 mg/kg	76.9	4.02%
Na 589.592†	138969.9	17.63 mg/L	0.112	1939 mg/kg	12.4	0.64%
Ni 221.648†	254.8	0.2196 mg/L	0.00508	24.16 mg/kg	0.559	2.31%
Ni 231.604†	632.9	0.2062 mg/L	0.00874	22.68 mg/kg	0.961	4.24%
Ni 232.003†	58.0	0.2677 mg/L	0.01239	29.45 mg/kg	1.363	4.63%
Pb 217.000†	46.9	0.8273 mg/L	0.05954	90.99 mg/kg	6.549	7.20%
Pb 220.353†	343.8	0.6559 mg/L	0.06511	72.14 mg/kg	7.161	9.93%
Sb 206.836†	-1.4	-0.02685 mg/L	0.019712	-2.953 mg/kg	2.1680	73.42%
Sb 217.582†	-31.2	-0.2282 mg/L	0.06083	-25.10 mg/kg	6.690	26.65%
Se 196.026†	2.8	0.08916 mg/L	0.111600	9.806 mg/kg	12.2746	125.17%
Se 203.985†	-261.2	3.250 mg/L	0.8061	357.5 mg/kg	88.66	24.80%
Sn 235.485†	13514.3	-1.765 mg/L	0.0771	-194.1 mg/kg	8.48	4.37%
Sn 189.927†	-63.5	0.3080 mg/L	0.04009	33.87 mg/kg	4.410	13.02%
Sr 460.733†	13232.2	2.331 mg/L	0.0144	256.3 mg/kg	1.59	0.62%
Sr 407.771†	3230230.9	2.192 mg/L	0.0503	241.1 mg/kg	5.53	2.30%
Sr 421.552†	1074344.7	2.216 mg/L	0.0491	243.7 mg/kg	5.40	2.21%
Ti 337.279†	73417.9	1.782 mg/L	0.0068	196.0 mg/kg	0.75	0.38%
Ti 334.940†	109213.5	1.800 mg/L	0.0166	197.9 mg/kg	1.83	0.92%
Ti 336.121†	75547.9	1.786 mg/L	0.0117	196.4 mg/kg	1.28	0.65%
Tl 351.924†	22.1	-0.02780 mg/L	0.022872	-3.058 mg/kg	2.5157	82.28%
Tl 190.801†	98.4	-0.3555 mg/L	0.09824	-39.10 mg/kg	10.806	27.63%
Tl 276.787†	7486.0	6.505 mg/L	0.1767	715.5 mg/kg	19.44	2.72%
V 310.230†	4737.2	0.1252 mg/L	0.00268	13.77 mg/kg	0.295	2.14%
V 292.402†	2871.7	0.1709 mg/L	0.00553	18.80 mg/kg	0.608	3.23%
V 311.071†	3566.6	0.1453 mg/L	0.00425	15.98 mg/kg	0.468	2.93%
Saturated within auto integration window (code 4)						
Zn 206.200†	2287.1	2.279 mg/L	0.0726	250.7 mg/kg	7.98	3.18%
Zn 213.857†	9710.9	2.733 mg/L	0.0841	300.6 mg/kg	9.25	3.08%
Zn 202.548†	4169.6	2.486 mg/L	0.0642	273.4 mg/kg	7.07	2.58%

==========

Sequence No.: 49
Sample ID: 0909014-03

Autosampler Location: 408
Date Collected: 10/26/2009 12:18:13 PM
Data Type: Original

Initial Sample Wt: 0.5893 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909014-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	148204.2	93.26	%	8.084				8.67%
Ag 328.068†	258.9	0.01508	mg/L	0.002261	1.280	mg/kg	0.1918	14.99%

Ag 338.289†	-83.2	0.00509 mg/L	0.009692	0.4320 mg/kg	0.82234	190.35%
Al 308.215†	68727.1	38.92 mg/L	0.147	3302 mg/kg	12.5	0.38%
Al 394.401†	126827.1	43.53 mg/L	0.132	3694 mg/kg	11.2	0.30%
Al 396.153†	282665.5	38.98 mg/L	1.368	3307 mg/kg	116.0	3.51%
As 188.979†	-123.2	0.2778 mg/L	0.13805	23.57 mg/kg	11.713	49.70%
As 193.696†	71.2	-0.3370 mg/L	0.10719	-28.59 mg/kg	9.095	31.81%
As 197.197†	-56.4	1.777 mg/L	0.1077	150.8 mg/kg	9.14	6.06%
B 208.889†	150.7	0.3752 mg/L	0.05354	31.84 mg/kg	4.543	14.27%
B 249.677†	497.2	0.1516 mg/L	0.00435	12.86 mg/kg	0.369	2.87%
B 249.772†	2819.6	0.1772 mg/L	0.01990	15.04 mg/kg	1.689	11.23%
Ba 233.527†	2219.6	0.3367 mg/L	0.01473	28.57 mg/kg	1.250	4.37%
Ba 455.403†	125471.3	0.3454 mg/L	0.01242	29.31 mg/kg	1.054	3.60%
Ba 493.408†	130457.6	0.3426 mg/L	0.01294	29.07 mg/kg	1.098	3.78%
Be 234.861†	970.1	0.00166 mg/L	0.000282	0.1405 mg/kg	0.02397	17.06%
Be 313.042†	2180.0	0.00382 mg/L	0.000365	0.3240 mg/kg	0.03093	9.54%
Be 313.107†	1122.5	0.00377 mg/L	0.000376	0.3202 mg/kg	0.03194	9.97%
Ca 315.887†	10830178.4	1472 mg/L	25.6	124900 mg/kg	2168.3	1.74%
Ca 317.933†	17715137.6	1365 mg/L	22.8	115800 mg/kg	1934.5	1.67%
Cd 214.440†	137.3	-0.03473 mg/L	0.001107	-2.946 mg/kg	0.0939	3.19%
Cd 226.502†	33.7	0.00290 mg/L	0.002531	0.2460 mg/kg	0.21471	87.28%
Cd 228.802†	13.2	-0.04314 mg/L	0.003014	-3.661 mg/kg	0.2557	6.99%
Ce 413.380†	538.1	0.09779 mg/L	0.013801	8.297 mg/kg	1.1710	14.11%
Ce 413.764†	492.1	0.1219 mg/L	0.00442	10.34 mg/kg	0.375	3.63%
Ce 418.660†	312.1	0.1557 mg/L	0.02037	13.21 mg/kg	1.729	13.09%
Co 228.616†	80.9	0.03090 mg/L	0.003201	2.621 mg/kg	0.2716	10.36%
Co 230.786†	717.0	0.02839 mg/L	0.045698	2.409 mg/kg	3.8773	160.97%
Co 238.892†	1430.3	0.01534 mg/L	0.002859	1.302 mg/kg	0.2426	18.63%
Cr 205.560†	20.8	0.09672 mg/L	0.001797	8.206 mg/kg	0.1525	1.86%
Cr 267.716†	1009.1	0.1196 mg/L	0.00729	10.14 mg/kg	0.618	6.10%
Cr 283.563†	2869.8	0.07021 mg/L	0.002646	5.957 mg/kg	0.2245	3.77%
Cu 224.700†	291.9	-1.288 mg/L	0.0381	-109.3 mg/kg	3.23	2.96%
Cu 324.752†	5958.4	0.1628 mg/L	0.00185	13.81 mg/kg	0.157	1.14%
Cu 327.393†	2711.4	0.1737 mg/L	0.00146	14.73 mg/kg	0.124	0.84%
Fe 238.204†	711958.0	76.89 mg/L	2.887	6524 mg/kg	245.0	3.75%
Fe 239.562†	471238.6	77.10 mg/L	2.850	6542 mg/kg	241.8	3.70%
Fe 259.939†	889415.7	77.62 mg/L	2.944	6586 mg/kg	249.8	3.79%
Fe 273.955†	140122.1	83.15 mg/L	0.352	7055 mg/kg	29.8	0.42%
K 766.490†	22145.9	4.955 mg/L	0.0094	420.4 mg/kg	0.80	0.19%
Li 610.362†	10617.6	-0.5311 mg/L	0.41263	-45.06 mg/kg	35.010	77.70%
Li 670.784†	5845.4	0.05459 mg/L	0.001833	4.632 mg/kg	0.1555	3.36%
Mg 279.077†	431196.0	381.4 mg/L	14.32	32360 mg/kg	1214.8	3.75%
Mg 280.271†	75983099.6	293.4 mg/L	7.12	24890 mg/kg	603.8	2.43%
Mg 285.213†	9496241.2	336.2 mg/L	6.95	28530 mg/kg	589.6	2.07%
Mn 257.610†	128000.0	2.649 mg/L	0.0076	224.7 mg/kg	0.65	0.29%
Mn 259.372†	181478.8	2.676 mg/L	0.0138	227.1 mg/kg	1.17	0.51%
Saturated within auto integration window (code 4)						
Mn 260.568†	70398.7	2.447 mg/L	0.0106	207.6 mg/kg	0.90	0.43%
Mo 202.031†	33.5	-0.00430 mg/L	0.010422	-0.3651 mg/kg	0.88426	242.20%
Mo 203.845†	162.3	0.5098 mg/L	0.08185	43.25 mg/kg	6.945	16.06%
Mo 204.597†	-68.0	-0.03618 mg/L	0.026734	-3.070 mg/kg	2.2682	73.89%
Na 588.995†	151537.8	10.32 mg/L	0.501	875.4 mg/kg	42.52	4.86%
Na 589.592†	82412.8	10.45 mg/L	0.026	887.0 mg/kg	2.23	0.25%
Ni 221.648†	101.7	0.08604 mg/L	0.006454	7.300 mg/kg	0.5476	7.50%
Ni 231.604†	275.6	0.07018 mg/L	0.005668	5.954 mg/kg	0.4809	8.08%
Ni 232.003†	-75.3	0.09726 mg/L	0.006321	8.252 mg/kg	0.5363	6.50%
Pb 217.000†	-2.1	0.2235 mg/L	0.05825	18.97 mg/kg	4.942	26.06%
Pb 220.353†	159.3	0.2169 mg/L	0.03205	18.40 mg/kg	2.720	14.78%
Sb 206.836†	-4.3	-0.05909 mg/L	0.061443	-5.014 mg/kg	5.2132	103.98%
Sb 217.582†	-23.8	-0.1746 mg/L	0.05025	-14.82 mg/kg	4.263	28.77%
Se 196.026†	10.4	0.3282 mg/L	0.21733	27.85 mg/kg	18.440	66.22%
Se 203.985†	-239.5	1.145 mg/L	0.3997	97.13 mg/kg	33.915	34.92%
Sn 235.485†	8403.1	0.01556 mg/L	0.604780	1.321 mg/kg	51.3135	>999.9%
Sn 189.927†	-56.4	0.1749 mg/L	0.03707	14.84 mg/kg	3.145	21.19%
Sr 460.733†	8935.5	1.573 mg/L	0.0029	133.5 mg/kg	0.25	0.18%
Sr 407.771†	2129446.4	1.442 mg/L	0.0551	122.3 mg/kg	4.67	3.82%
Sr 421.552†	709467.0	1.463 mg/L	0.0564	124.2 mg/kg	4.79	3.86%
Ti 337.279†	54326.9	1.319 mg/L	0.0077	111.9 mg/kg	0.66	0.59%
Ti 334.940†	79103.3	1.321 mg/L	0.0047	112.1 mg/kg	0.40	0.36%
Ti 336.121†	55457.4	1.314 mg/L	0.0022	111.5 mg/kg	0.19	0.17%
Tl 351.924†	24.0	-0.00957 mg/L	0.063430	-0.8116 mg/kg	5.38180	663.07%
Tl 190.801†	87.3	0.1608 mg/L	0.15070	13.64 mg/kg	12.787	93.74%

Tl 276.787†	15457.7	10.89 mg/L	1.593	924.3 mg/kg	135.20	14.63%
V 310.230†	4138.4	0.1103 mg/L	0.00658	9.356 mg/kg	0.5580	5.96%
V 292.402†	2388.7	0.1514 mg/L	0.00847	12.84 mg/kg	0.719	5.60%
V 311.071†	2234.8	0.09066 mg/L	0.005793	7.692 mg/kg	0.4915	6.39%
Zn 206.200†	431.2	0.3368 mg/L	0.02484	28.57 mg/kg	2.108	7.38%
Zn 213.857†	1988.8	0.4138 mg/L	0.02757	35.11 mg/kg	2.339	6.66%
Zn 202.548†	772.3	0.4205 mg/L	0.00942	35.68 mg/kg	0.799	2.24%

Sequence No.: 50
Sample ID: 0909014-04

Initial Sample Wt: 0.4691 g
Dilution: 1X

Autosampler Location: 409
Date Collected: 10/26/2009 12:19:35 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159174.0	100.2	%	4.20				4.19%
Ag 328.068†	105.0	0.01239	mg/L	0.001136	1.320	mg/kg	0.1211	9.17%
Ag 338.289†	-29.4	0.00585	mg/L	0.004018	0.6238	mg/kg	0.42829	68.66%
Al 308.215†	83781.9	47.45	mg/L	0.188	5057	mg/kg	20.1	0.40%
Al 394.401†	153250.5	53.00	mg/L	0.246	5649	mg/kg	26.2	0.46%
Al 396.153†	341248.1	47.41	mg/L	1.686	5053	mg/kg	179.7	3.56%
As 188.979†	-98.6	-0.8065	mg/L	0.12022	-85.96	mg/kg	12.814	14.91%
As 193.696†	68.0	0.3795	mg/L	0.09469	40.45	mg/kg	10.093	24.95%
As 197.197†	-67.2	-0.1221	mg/L	0.27369	-13.01	mg/kg	29.172	224.17%
B 208.889†	48.6	0.1248	mg/L	0.02027	13.30	mg/kg	2.161	16.24%
B 249.677†	275.3	0.07002	mg/L	0.004698	7.463	mg/kg	0.5007	6.71%
B 249.772†	3226.0	0.09767	mg/L	0.001438	10.41	mg/kg	0.153	1.47%
Ba 233.527†	2840.0	0.4297	mg/L	0.00916	45.80	mg/kg	0.976	2.13%
Ba 455.403†	159580.7	0.4394	mg/L	0.01564	46.83	mg/kg	1.667	3.56%
Ba 493.408†	166154.4	0.4362	mg/L	0.01517	46.49	mg/kg	1.617	3.48%
Be 234.861†	1512.8	0.00254	mg/L	0.000197	0.2712	mg/kg	0.02096	7.73%
Be 313.042†	2314.6	0.00419	mg/L	0.000196	0.4461	mg/kg	0.02087	4.68%
Be 313.107†	1174.6	0.00406	mg/L	0.000211	0.4326	mg/kg	0.02253	5.21%
Ca 315.887†	6078255.4	826.0	mg/L	37.01	88050	mg/kg	3944.6	4.48%
Ca 317.933†	10022438.6	772.2	mg/L	34.64	82300	mg/kg	3692.4	4.49%
Cd 214.440†	203.2	0.00408	mg/L	0.018523	0.4351	mg/kg	1.97432	453.72%
Cd 226.502†	60.5	0.00410	mg/L	0.004392	0.4367	mg/kg	0.46818	107.21%
Cd 228.802†	21.1	-0.03894	mg/L	0.002327	-4.150	mg/kg	0.2480	5.98%
Ce 413.380†	490.5	0.07830	mg/L	0.015729	8.346	mg/kg	1.6765	20.09%
Ce 413.764†	261.5	0.08762	mg/L	0.023187	9.339	mg/kg	2.4715	26.46%
Ce 418.660†	304.3	0.1110	mg/L	0.01027	11.83	mg/kg	1.095	9.26%
Co 228.616†	87.4	0.03273	mg/L	0.002659	3.489	mg/kg	0.2834	8.12%
Co 230.786†	491.0	0.02296	mg/L	0.015721	2.448	mg/kg	1.6756	68.46%
Co 238.892†	2056.9	0.02496	mg/L	0.011242	2.660	mg/kg	1.1983	45.05%
Cr 205.560†	35.1	0.09426	mg/L	0.014602	10.05	mg/kg	1.556	15.49%
Cr 267.716†	698.9	0.1143	mg/L	0.00368	12.18	mg/kg	0.392	3.22%
Cr 283.563†	6147.8	0.1221	mg/L	0.00304	13.02	mg/kg	0.324	2.49%
Cu 224.700†	660.0	-1.054	mg/L	0.0433	-112.4	mg/kg	4.61	4.11%
Cu 324.752†	16470.0	0.4522	mg/L	0.00229	48.20	mg/kg	0.244	0.51%
Cu 327.393†	7267.3	0.4665	mg/L	0.00478	49.73	mg/kg	0.509	1.02%
Fe 238.204†	1145647.2	123.7	mg/L	4.45	13190	mg/kg	474.0	3.59%
Fe 239.562†	760124.0	124.3	mg/L	4.39	13250	mg/kg	468.4	3.53%
Fe 259.939†	1423532.7	124.2	mg/L	4.38	13240	mg/kg	467.0	3.53%
Fe 273.955†	219653.7	130.3	mg/L	2.22	13890	mg/kg	236.1	1.70%
K 766.490†	24399.7	5.460	mg/L	0.0899	581.9	mg/kg	9.59	1.65%
Li 610.362†	4984.7	-0.4581	mg/L	0.16534	-48.83	mg/kg	17.623	36.09%
Li 670.784†	6065.6	0.05665	mg/L	0.001275	6.038	mg/kg	0.1359	2.25%
Mg 279.077†	76278.9	67.37	mg/L	0.392	7181	mg/kg	41.8	0.58%
Mg 280.271†	16340136.7	63.09	mg/L	2.754	6724	mg/kg	293.5	4.36%
Mg 285.213†	1817947.8	64.37	mg/L	2.185	6861	mg/kg	232.9	3.39%
Mn 257.610†	98459.6	2.043	mg/L	0.0117	217.8	mg/kg	1.24	0.57%
Mn 259.372†	144315.3	2.064	mg/L	0.0109	220.0	mg/kg	1.16	0.53%
Mn 260.568†	54118.8	1.885	mg/L	0.0100	200.9	mg/kg	1.07	0.53%
Mo 202.031†	24.6	0.02764	mg/L	0.014492	2.946	mg/kg	1.5447	52.43%
Mo 203.845†	51.2	0.2069	mg/L	0.01498	22.06	mg/kg	1.597	7.24%
Mo 204.597†	-38.0	-0.01947	mg/L	0.017160	-2.075	mg/kg	1.8291	88.13%
Na 588.995†	44800.6	3.050	mg/L	0.2717	325.1	mg/kg	28.96	8.91%

Na 589.592†	24926.6	3.162	mg/L	0.0117	337.0	mg/kg	1.25	0.37%
Ni 221.648†	138.5	0.1161	mg/L	0.00524	12.37	mg/kg	0.558	4.51%
Ni 231.604†	326.8	0.1097	mg/L	0.00466	11.69	mg/kg	0.497	4.25%
Ni 232.003†	-55.8	0.1068	mg/L	0.00144	11.39	mg/kg	0.153	1.34%
Pb 217.000†	36.1	0.4212	mg/L	0.04930	44.90	mg/kg	5.254	11.70%
Pb 220.353†	248.1	0.5448	mg/L	0.01202	58.07	mg/kg	1.281	2.21%
Sb 206.836†	-4.7	-0.06243	mg/L	0.021588	-6.654	mg/kg	2.3010	34.58%
Sb 217.582†	-5.1	-0.03719	mg/L	0.017199	-3.964	mg/kg	1.8332	46.25%
Se 196.026†	-1.6	-0.05101	mg/L	0.119149	-5.437	mg/kg	12.6997	233.58%
Se 203.985†	-203.2	-2.079	mg/L	0.2342	-221.6	mg/kg	24.96	11.26%
Sn 235.485†	12247.0	-1.368	mg/L	0.3287	-145.8	mg/kg	35.04	24.03%
Sn 189.927†	-47.9	-0.1472	mg/L	0.04750	-15.69	mg/kg	5.063	32.27%
Sr 460.733†	6147.6	1.084	mg/L	0.0079	115.5	mg/kg	0.84	0.73%
Sr 407.771†	1528165.0	1.037	mg/L	0.0367	110.6	mg/kg	3.91	3.54%
Sr 421.552†	507424.5	1.047	mg/L	0.0370	111.6	mg/kg	3.95	3.54%
Ti 337.279†	35831.3	0.8702	mg/L	0.00456	92.75	mg/kg	0.486	0.52%
Ti 334.940†	53448.9	0.8737	mg/L	0.00642	93.13	mg/kg	0.685	0.74%
Ti 336.121†	36899.3	0.8709	mg/L	0.00343	92.82	mg/kg	0.365	0.39%
Tl 351.924†	-26.0	-0.08159	mg/L	0.010887	-8.696	mg/kg	1.1604	13.34%
Tl 190.801†	67.4	0.7202	mg/L	0.08490	76.77	mg/kg	9.050	11.79%
Tl 276.787†	3276.0	3.140	mg/L	0.0806	334.7	mg/kg	8.59	2.57%
V 310.230†	2381.5	0.06290	mg/L	0.002031	6.704	mg/kg	0.2165	3.23%
V 292.402†	1810.8	0.1001	mg/L	0.00328	10.67	mg/kg	0.350	3.28%
V 311.071†	2165.9	0.08809	mg/L	0.002671	9.389	mg/kg	0.2847	3.03%
Zn 206.200†	1229.1	1.237	mg/L	0.0239	131.9	mg/kg	2.55	1.94%
Zn 213.857†	5128.5	1.456	mg/L	0.0286	155.2	mg/kg	3.05	1.96%
Zn 202.548†	2232.6	1.339	mg/L	0.0349	142.7	mg/kg	3.72	2.61%

Sequence No.: 51
Sample ID: 0909014-05

Initial Sample Wt: 0.4802 g
Dilution: 1X

Autosampler Location: 410
Date Collected: 10/26/2009 12:20:47 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155352.3	97.75	%	3.444				3.52%
Ag 328.068†	58.3	0.01586	mg/L	0.002167	1.651	mg/kg	0.2257	13.67%
Ag 338.289†	-122.3	0.00093	mg/L	0.003126	0.09708	mg/kg	0.325449	335.22%
Al 308.215†	83019.9	47.02	mg/L	0.153	4895	mg/kg	16.0	0.33%
Al 394.401†	150049.0	51.80	mg/L	0.199	5393	mg/kg	20.7	0.38%
Al 396.153†	338761.4	46.97	mg/L	0.517	4891	mg/kg	53.8	1.10%
As 188.979†	-109.9	-0.4523	mg/L	0.04025	-47.09	mg/kg	4.190	8.90%
As 193.696†	72.7	0.1800	mg/L	0.04329	18.74	mg/kg	4.507	24.05%
As 197.197†	-73.1	0.4355	mg/L	0.09341	45.34	mg/kg	9.726	21.45%
B 208.889†	63.6	0.1548	mg/L	0.01597	16.12	mg/kg	1.663	10.31%
B 249.677†	337.3	0.07695	mg/L	0.005630	8.013	mg/kg	0.5862	7.32%
B 249.772†	4928.5	0.1067	mg/L	0.03076	11.11	mg/kg	3.203	28.82%
Ba 233.527†	3527.4	0.5317	mg/L	0.02070	55.36	mg/kg	2.156	3.89%
Ba 455.403†	198629.4	0.5469	mg/L	0.00177	56.94	mg/kg	0.184	0.32%
Ba 493.408†	210718.9	0.5529	mg/L	0.00177	57.57	mg/kg	0.185	0.32%
Be 234.861†	2430.1	0.00353	mg/L	0.000271	0.3678	mg/kg	0.02823	7.68%
Be 313.042†	3052.7	0.00551	mg/L	0.000340	0.5738	mg/kg	0.03545	6.18%
Be 313.107†	1528.2	0.00524	mg/L	0.000293	0.5454	mg/kg	0.03051	5.59%
Ca 315.887†	7829462.9	1064	mg/L	13.9	110800	mg/kg	1450.0	1.31%
Ca 317.933†	12277533.8	945.9	mg/L	39.03	98490	mg/kg	4063.5	4.13%
Cd 214.440†	240.3	-0.00359	mg/L	0.012019	-0.3741	mg/kg	1.25146	334.49%
Cd 226.502†	137.0	0.01705	mg/L	0.003153	1.776	mg/kg	0.3283	18.49%
Cd 228.802†	75.7	-0.02725	mg/L	0.000853	-2.838	mg/kg	0.0888	3.13%
Ce 413.380†	739.9	0.1148	mg/L	0.00703	11.95	mg/kg	0.732	6.12%
Ce 413.764†	250.6	0.1084	mg/L	0.01182	11.29	mg/kg	1.231	10.90%
Ce 418.660†	355.3	0.1362	mg/L	0.00565	14.18	mg/kg	0.588	4.15%
Co 228.616†	110.4	0.03813	mg/L	0.001829	3.970	mg/kg	0.1904	4.80%
Co 230.786†	678.5	0.01623	mg/L	0.023506	1.690	mg/kg	2.4475	144.83%
Co 238.892†	3246.4	0.02023	mg/L	0.011174	2.106	mg/kg	1.1635	55.25%
Cr 205.560†	113.4	0.2380	mg/L	0.00137	24.78	mg/kg	0.143	0.58%
Cr 267.716†	1578.1	0.2598	mg/L	0.00942	27.05	mg/kg	0.981	3.63%
Cr 283.563†	10181.1	0.2024	mg/L	0.00201	21.07	mg/kg	0.209	0.99%

Cu 224.700†	656.6	-1.379	mg/L	0.0341	-143.6	mg/kg	3.55	2.47%
Cu 324.752†	11858.2	0.3220	mg/L	0.00395	33.53	mg/kg	0.412	1.23%
Cu 327.393†	5278.6	0.3386	mg/L	0.00489	35.26	mg/kg	0.509	1.44%
Fe 238.204†	1782007.8	192.4	mg/L	2.54	20040	mg/kg	264.0	1.32%
Fe 239.562†	1184444.0	193.7	mg/L	2.38	20170	mg/kg	247.7	1.23%
Fe 259.939†	2218225.3	193.6	mg/L	2.32	20160	mg/kg	241.5	1.20%
Fe 273.955†	359546.9	213.4	mg/L	0.63	22220	mg/kg	65.5	0.29%
K 766.490†	22641.6	5.066	mg/L	0.0737	527.5	mg/kg	7.68	1.46%
Li 610.362†	6558.4	-0.6343	mg/L	0.14841	-66.05	mg/kg	15.453	23.40%
Li 670.784†	6834.8	0.06383	mg/L	0.000561	6.647	mg/kg	0.0584	0.88%
Mg 279.077†	95827.5	84.60	mg/L	0.200	8809	mg/kg	20.8	0.24%
Mg 280.271†	19768466.6	76.32	mg/L	3.240	7947	mg/kg	337.4	4.25%
Mg 285.213†	2243774.7	79.45	mg/L	0.763	8272	mg/kg	79.4	0.96%
Mn 257.610†	192480.0	3.995	mg/L	0.0153	416.0	mg/kg	1.60	0.38%
Mn 259.372†	277834.6	4.015	mg/L	0.0068	418.0	mg/kg	0.71	0.17%
Mn 260.568†	105823.4	3.688	mg/L	0.0120	384.0	mg/kg	1.25	0.32%
Mo 202.031†	28.2	0.03114	mg/L	0.011323	3.242	mg/kg	1.1790	36.36%
Mo 203.845†	59.0	0.2323	mg/L	0.04207	24.19	mg/kg	4.381	18.11%
Mo 204.597†	-51.6	-0.03711	mg/L	0.018192	-3.864	mg/kg	1.8942	49.02%
Na 588.995†	40714.1	2.772	mg/L	0.2027	288.6	mg/kg	21.10	7.31%
Na 589.592†	21889.6	2.777	mg/L	0.0123	289.2	mg/kg	1.28	0.44%
Ni 221.648†	263.1	0.2227	mg/L	0.01129	23.19	mg/kg	1.176	5.07%
Ni 231.604†	600.9	0.2148	mg/L	0.01019	22.36	mg/kg	1.061	4.74%
Ni 232.003†	9.3	0.2307	mg/L	0.00594	24.02	mg/kg	0.618	2.57%
Pb 217.000†	62.4	0.7103	mg/L	0.00705	73.96	mg/kg	0.734	0.99%
Pb 220.353†	338.4	0.7462	mg/L	0.05806	77.70	mg/kg	6.045	7.78%
Sb 206.836†	-4.6	-0.06373	mg/L	0.045223	-6.635	mg/kg	4.7088	70.96%
Sb 217.582†	-10.9	-0.08002	mg/L	0.054331	-8.332	mg/kg	5.6571	67.90%
Se 196.026†	-2.4	-0.07449	mg/L	0.281110	-7.756	mg/kg	29.2701	377.37%
Se 203.985†	-221.5	-1.064	mg/L	0.1719	-110.8	mg/kg	17.90	16.16%
Sn 235.485†	19710.3	-2.742	mg/L	0.0540	-285.5	mg/kg	5.63	1.97%
Sn 189.927†	-46.5	0.03971	mg/L	0.036775	4.135	mg/kg	3.8292	92.60%
Sr 460.733†	8673.0	1.528	mg/L	0.0257	159.1	mg/kg	2.68	1.68%
Sr 407.771†	2125491.5	1.444	mg/L	0.0173	150.3	mg/kg	1.80	1.20%
Sr 421.552†	704425.7	1.453	mg/L	0.0177	151.3	mg/kg	1.84	1.22%
Ti 337.279†	56540.6	1.373	mg/L	0.0040	143.0	mg/kg	0.42	0.29%
Ti 334.940†	86398.7	1.382	mg/L	0.0044	143.9	mg/kg	0.46	0.32%
Ti 336.121†	58420.0	1.373	mg/L	0.0051	143.0	mg/kg	0.53	0.37%
Tl 351.924†	4.5	-0.06188	mg/L	0.055623	-6.443	mg/kg	5.7916	89.89%
Tl 190.801†	74.7	0.4509	mg/L	0.07639	46.95	mg/kg	7.954	16.94%
Tl 276.787†	4103.8	3.866	mg/L	0.1953	402.6	mg/kg	20.34	5.05%
V 310.230†	3380.4	0.08894	mg/L	0.002083	9.260	mg/kg	0.2169	2.34%
V 292.402†	2463.8	0.1286	mg/L	0.00744	13.39	mg/kg	0.775	5.79%
V 311.071†	2990.3	0.1177	mg/L	0.00515	12.25	mg/kg	0.537	4.38%
Zn 206.200†	1548.7	1.557	mg/L	0.0612	162.1	mg/kg	6.37	3.93%
Zn 213.857†	6467.6	1.830	mg/L	0.0772	190.5	mg/kg	8.03	4.22%
Zn 202.548†	2811.7	1.687	mg/L	0.0629	175.6	mg/kg	6.55	3.73%

Sequence No.: 52
Sample ID: test 1

Initial Sample Wt: 0.4526 g
Dilution: 1X

Autosampler Location: 411
Date Collected: 10/26/2009 12:22:01 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: test 1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	152818.4	96.16	%	2.566				2.67%
Ag 328.068†	445.6	0.02584	mg/L	0.001493	2.854	mg/kg	0.1649	5.78%
Ag 338.289†	-77.6	0.01343	mg/L	0.000592	1.483	mg/kg	0.0654	4.41%
Al 308.215†	115431.4	65.37	mg/L	0.505	7222	mg/kg	55.8	0.77%
Al 394.401†	211045.6	72.67	mg/L	0.558	8028	mg/kg	61.6	0.77%
Al 396.153†	471920.9	65.26	mg/L	1.057	7209	mg/kg	116.8	1.62%
As 188.979†	-140.6	1.231	mg/L	0.2615	136.0	mg/kg	28.89	21.25%
As 193.696†	91.2	-0.7919	mg/L	0.19175	-87.48	mg/kg	21.184	24.22%
As 197.197†	-77.3	3.192	mg/L	0.4575	352.7	mg/kg	50.55	14.33%
B 208.889†	103.9	0.2813	mg/L	0.01345	31.07	mg/kg	1.486	4.78%
B 249.677†	471.6	0.1327	mg/L	0.00388	14.66	mg/kg	0.429	2.93%
B 249.772†	3893.9	0.1512	mg/L	0.00984	16.70	mg/kg	1.087	6.51%

Ba 233.527†	5387.9	0.8199	mg/L	0.00923	90.57	mg/kg	1.020	1.13%
Ba 455.403†	310280.3	0.8543	mg/L	0.01379	94.37	mg/kg	1.524	1.61%
Ba 493.408†	323068.2	0.8488	mg/L	0.01436	93.76	mg/kg	1.586	1.69%
Be 234.861†	1909.8	0.00606	mg/L	0.001230	0.6693	mg/kg	0.13585	20.30%
Be 313.042†	4815.9	0.00873	mg/L	0.000111	0.9645	mg/kg	0.01230	1.28%
Be 313.107†	2503.0	0.00859	mg/L	0.000019	0.9494	mg/kg	0.00211	0.22%
Ca 315.887†	14325398.0	1947	mg/L	57.1	215100	mg/kg	6311.1	2.93%
Ca 317.933†	23243355.5	1791	mg/L	51.3	197800	mg/kg	5665.2	2.86%
Cd 214.440†	241.1	-0.03078	mg/L	0.009412	-3.400	mg/kg	1.0398	30.58%
Cd 226.502†	84.6	0.00930	mg/L	0.003831	1.028	mg/kg	0.4232	41.18%
Cd 228.802†	31.2	-0.05141	mg/L	0.003058	-5.679	mg/kg	0.3378	5.95%
Ce 413.380†	705.4	0.1208	mg/L	0.01040	13.35	mg/kg	1.149	8.61%
Ce 413.764†	369.5	0.1164	mg/L	0.00846	12.86	mg/kg	0.934	7.26%
Ce 418.660†	352.5	0.1953	mg/L	0.02386	21.57	mg/kg	2.636	12.22%
Co 228.616†	103.4	0.03748	mg/L	0.001463	4.141	mg/kg	0.1616	3.90%
Co 230.786†	720.8	-0.03986	mg/L	0.015604	-4.404	mg/kg	1.7238	39.15%
Co 238.892†	2358.5	0.00892	mg/L	0.011021	0.9853	mg/kg	1.21757	123.57%
Cr 205.560†	139.7	0.3195	mg/L	0.01923	35.29	mg/kg	2.124	6.02%
Cr 267.716†	2109.2	0.3271	mg/L	0.00434	36.13	mg/kg	0.479	1.33%
Cr 283.563†	9438.8	0.2712	mg/L	0.00151	29.96	mg/kg	0.166	0.56%
Cu 224.700†	534.9	-2.233	mg/L	0.0515	-246.7	mg/kg	5.69	2.31%
Cu 324.752†	11264.8	0.3079	mg/L	0.00085	34.01	mg/kg	0.094	0.28%
Cu 327.393†	5063.5	0.3246	mg/L	0.00107	35.86	mg/kg	0.119	0.33%
Fe 238.204†	1234919.5	133.4	mg/L	2.25	14730	mg/kg	249.1	1.69%
Fe 239.562†	820249.1	134.2	mg/L	2.26	14820	mg/kg	249.3	1.68%
Fe 259.939†	1543707.3	134.7	mg/L	2.29	14880	mg/kg	253.4	1.70%
Fe 273.955†	246318.2	146.2	mg/L	0.90	16150	mg/kg	99.8	0.62%
K 766.490†	41917.7	9.379	mg/L	0.1047	1036	mg/kg	11.6	1.12%
Li 610.362†	11569.9	-0.9289	mg/L	0.16982	-102.6	mg/kg	18.76	18.28%
Li 670.784†	10229.8	0.09554	mg/L	0.001645	10.55	mg/kg	0.182	1.72%
Mg 279.077†	204386.9	180.7	mg/L	1.53	19960	mg/kg	169.3	0.85%
Mg 280.271†	38067462.8	147.0	mg/L	3.64	16240	mg/kg	402.2	2.48%
Mg 285.213†	4754150.8	168.3	mg/L	2.85	18600	mg/kg	314.7	1.69%
Mn 257.610†	146484.0	3.038	mg/L	0.0205	335.6	mg/kg	2.27	0.68%
Mn 259.372†	209990.8	3.048	mg/L	0.0217	336.8	mg/kg	2.39	0.71%
Mn 260.568†	80567.2	2.805	mg/L	0.0218	309.9	mg/kg	2.41	0.78%
Mo 202.031†	30.3	-0.04399	mg/L	0.002761	-4.860	mg/kg	0.3050	6.28%
Mo 203.845†	97.0	0.3455	mg/L	0.02108	38.17	mg/kg	2.329	6.10%
Mo 204.597†	-66.1	0.06329	mg/L	0.030904	6.992	mg/kg	3.4141	48.83%
Na 588.995†	245601.4	16.72	mg/L	0.341	1847	mg/kg	37.6	2.04%
Na 589.592†	136297.2	17.29	mg/L	0.112	1910	mg/kg	12.4	0.65%
Ni 221.648†	267.4	0.2309	mg/L	0.00742	25.51	mg/kg	0.819	3.21%
Ni 231.604†	627.4	0.2002	mg/L	0.00338	22.11	mg/kg	0.374	1.69%
Ni 232.003†	66.5	0.2807	mg/L	0.00648	31.01	mg/kg	0.716	2.31%
Pb 217.000†	36.9	0.7218	mg/L	0.06843	79.74	mg/kg	7.560	9.48%
Pb 220.353†	315.7	0.5660	mg/L	0.00901	62.53	mg/kg	0.996	1.59%
Sb 206.836†	-3.9	-0.05815	mg/L	0.033883	-6.424	mg/kg	3.7431	58.27%
Sb 217.582†	-27.4	-0.2005	mg/L	0.05154	-22.15	mg/kg	5.694	25.71%
Se 196.026†	-0.1	-0.00206	mg/L	0.193374	-0.2274	mg/kg	21.36261	>999.9%
Se 203.985†	-266.3	4.049	mg/L	0.7570	447.3	mg/kg	83.63	18.70%
Sn 235.485†	13537.0	-1.817	mg/L	0.1170	-200.7	mg/kg	12.93	6.44%
Sn 189.927†	-58.7	0.4710	mg/L	0.12080	52.03	mg/kg	13.346	25.65%
Sr 460.733†	12412.5	2.187	mg/L	0.0241	241.6	mg/kg	2.66	1.10%
Sr 407.771†	2949187.2	1.998	mg/L	0.0337	220.7	mg/kg	3.72	1.69%
Sr 421.552†	980458.9	2.022	mg/L	0.0327	223.4	mg/kg	3.62	1.62%
Ti 337.279†	89221.1	2.166	mg/L	0.0177	239.3	mg/kg	1.95	0.82%
Ti 334.940†	134652.1	2.186	mg/L	0.0224	241.5	mg/kg	2.48	1.03%
Ti 336.121†	91967.2	2.168	mg/L	0.0169	239.5	mg/kg	1.86	0.78%
Tl 351.924†	6.4	-0.04881	mg/L	0.011573	-5.393	mg/kg	1.2785	23.71%
Tl 190.801†	100.9	-0.5541	mg/L	0.19818	-61.21	mg/kg	21.893	35.77%
Tl 276.787†	8073.0	6.873	mg/L	0.1236	759.3	mg/kg	13.66	1.80%
V 310.230†	4655.3	0.1234	mg/L	0.00225	13.64	mg/kg	0.249	1.82%
V 292.402†	2808.8	0.1661	mg/L	0.00264	18.35	mg/kg	0.292	1.59%
V 311.071†	3186.0	0.1239	mg/L	0.00188	13.69	mg/kg	0.207	1.51%
Zn 206.200†	1337.9	1.260	mg/L	0.0226	139.2	mg/kg	2.50	1.79%
Zn 213.857†	5745.0	1.500	mg/L	0.0226	165.7	mg/kg	2.49	1.50%
Zn 202.548†	2399.9	1.402	mg/L	0.0159	154.9	mg/kg	1.76	1.14%

Saturated within auto integration window (code 4)

Sample ID: test 2

Date Collected: 10/26/2009 12:23:23 PM
Data Type: Original

Initial Sample Wt: 0.4618 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: test 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	153893.1	96.84	%	4.806				4.96%
Ag 328.068†	371.4	0.02195	mg/L	0.000492	2.376	mg/kg	0.0532	2.24%
Ag 338.289†	-106.7	0.00767	mg/L	0.006365	0.8302	mg/kg	0.68915	83.01%
Al 308.215†	103661.9	58.70	mg/L	0.240	6356	mg/kg	26.0	0.41%
Al 394.401†	189665.6	65.26	mg/L	0.374	7066	mg/kg	40.5	0.57%
Al 396.153†	418964.0	57.89	mg/L	1.023	6268	mg/kg	110.8	1.77%
As 188.979†	-133.5	1.208	mg/L	0.2358	130.8	mg/kg	25.53	19.53%
As 193.696†	83.7	-0.8510	mg/L	0.01344	-92.13	mg/kg	1.455	1.58%
As 197.197†	-83.7	2.635	mg/L	0.3849	285.3	mg/kg	41.67	14.61%
B 208.889†	106.4	0.3040	mg/L	0.05516	32.92	mg/kg	5.973	18.14%
B 249.677†	455.7	0.1305	mg/L	0.00831	14.13	mg/kg	0.900	6.37%
B 249.772†	3586.6	0.1613	mg/L	0.02377	17.46	mg/kg	2.574	14.74%
Ba 233.527†	7275.4	1.110	mg/L	0.0498	120.2	mg/kg	5.39	4.49%
Ba 455.403†	397044.8	1.093	mg/L	0.0223	118.4	mg/kg	2.41	2.04%
Ba 493.408†	413215.6	1.086	mg/L	0.0217	117.6	mg/kg	2.35	2.00%
Be 234.861†	1676.3	0.00548	mg/L	0.001085	0.5931	mg/kg	0.11752	19.82%
Be 313.042†	4482.0	0.00814	mg/L	0.000498	0.8816	mg/kg	0.05396	6.12%
Be 313.107†	2307.5	0.00794	mg/L	0.000548	0.8601	mg/kg	0.05934	6.90%
Ca 315.887†	13686695.8	1860	mg/L	44.9	201400	mg/kg	4857.6	2.41%
Ca 317.933†	22302120.3	1718	mg/L	39.4	186000	mg/kg	4260.7	2.29%
Cd 214.440†	197.1	-0.03642	mg/L	0.021126	-3.943	mg/kg	2.2873	58.01%
Cd 226.502†	79.8	0.00979	mg/L	0.002336	1.060	mg/kg	0.2529	23.86%
Cd 228.802†	38.0	-0.04465	mg/L	0.003399	-4.834	mg/kg	0.3680	7.61%
Ce 413.380†	661.2	0.1152	mg/L	0.02709	12.47	mg/kg	2.933	23.51%
Ce 413.764†	392.2	0.1153	mg/L	0.00875	12.48	mg/kg	0.948	7.60%
Ce 418.660†	411.8	0.2003	mg/L	0.02545	21.69	mg/kg	2.755	12.71%
Co 228.616†	99.0	0.03657	mg/L	0.001557	3.960	mg/kg	0.1686	4.26%
Co 230.786†	687.0	-0.02746	mg/L	0.032617	-2.973	mg/kg	3.5315	118.79%
Co 238.892†	2056.6	0.00339	mg/L	0.013446	0.3666	mg/kg	1.45586	397.12%
Cr 205.560†	133.0	0.3044	mg/L	0.01223	32.96	mg/kg	1.325	4.02%
Cr 267.716†	1963.1	0.3039	mg/L	0.01240	32.90	mg/kg	1.342	4.08%
Cr 283.563†	8300.0	0.2411	mg/L	0.00178	26.11	mg/kg	0.193	0.74%
Cu 224.700†	474.8	-1.876	mg/L	0.0262	-203.1	mg/kg	2.84	1.40%
Cu 324.752†	9568.1	0.2615	mg/L	0.00126	28.31	mg/kg	0.137	0.48%
Cu 327.393†	4377.0	0.2806	mg/L	0.00274	30.38	mg/kg	0.297	0.98%
Fe 238.204†	1063767.4	114.9	mg/L	2.14	12440	mg/kg	231.6	1.86%
Fe 239.562†	705972.1	115.5	mg/L	2.27	12500	mg/kg	246.0	1.97%
Fe 259.939†	1327541.3	115.9	mg/L	2.34	12540	mg/kg	253.5	2.02%
Fe 273.955†	214452.9	127.3	mg/L	0.24	13780	mg/kg	26.2	0.19%
K 766.490†	36294.4	8.121	mg/L	0.0444	879.3	mg/kg	4.80	0.55%
Li 610.362†	10737.2	-0.8989	mg/L	0.22752	-97.33	mg/kg	24.634	25.31%
Li 670.784†	8645.7	0.08075	mg/L	0.000048	8.743	mg/kg	0.0052	0.06%
Mg 279.077†	188126.6	166.3	mg/L	0.44	18010	mg/kg	48.1	0.27%
Mg 280.271†	36477773.9	140.8	mg/L	3.43	15250	mg/kg	371.6	2.44%
Mg 285.213†	4326056.4	153.2	mg/L	2.58	16580	mg/kg	278.8	1.68%
Mn 257.610†	133660.4	2.772	mg/L	0.0060	300.1	mg/kg	0.65	0.22%
Mn 259.372†	191331.6	2.784	mg/L	0.0049	301.4	mg/kg	0.53	0.17%
Mn 260.568†	73632.2	2.564	mg/L	0.0053	277.6	mg/kg	0.57	0.21%
Mo 202.031†	29.9	-0.04093	mg/L	0.028587	-4.432	mg/kg	3.0952	69.84%
Mo 203.845†	91.1	0.3273	mg/L	0.04287	35.44	mg/kg	4.642	13.10%
Mo 204.597†	-60.8	0.07140	mg/L	0.017944	7.730	mg/kg	1.9428	25.13%
Na 588.995†	223170.5	15.19	mg/L	0.261	1645	mg/kg	28.3	1.72%
Na 589.592†	125473.5	15.92	mg/L	0.099	1723	mg/kg	10.7	0.62%
Ni 221.648†	240.5	0.2080	mg/L	0.01063	22.52	mg/kg	1.151	5.11%
Ni 231.604†	573.6	0.1807	mg/L	0.00898	19.57	mg/kg	0.973	4.97%
Ni 232.003†	43.5	0.2434	mg/L	0.00877	26.35	mg/kg	0.950	3.61%
Pb 217.000†	77.8	1.273	mg/L	0.0949	137.8	mg/kg	10.28	7.46%
Pb 220.353†	464.8	0.9652	mg/L	0.04999	104.5	mg/kg	5.41	5.18%
Sb 206.836†	-6.1	-0.08430	mg/L	0.013236	-9.127	mg/kg	1.4331	15.70%
Sb 217.582†	-26.2	-0.1916	mg/L	0.04479	-20.75	mg/kg	4.850	23.38%
Se 196.026†	1.9	0.05961	mg/L	0.094128	6.454	mg/kg	10.1914	157.91%
Se 203.985†	-264.8	3.450	mg/L	0.4218	373.5	mg/kg	45.67	12.23%

Sn 235.485†	11750.2	-1.635 mg/L	0.0854	-177.0 mg/kg	9.24	5.22%
Sn 189.927†	-67.4	0.2795 mg/L	0.04447	30.27 mg/kg	4.814	15.91%
Sr 460.733†	11386.2	2.006 mg/L	0.0241	217.2 mg/kg	2.61	1.20%
Sr 407.771†	2660235.3	1.801 mg/L	0.0369	195.0 mg/kg	3.99	2.05%
Sr 421.552†	883302.6	1.822 mg/L	0.0367	197.3 mg/kg	3.98	2.02%
Ti 337.279†	78143.5	1.897 mg/L	0.0051	205.4 mg/kg	0.55	0.27%
Ti 334.940†	116631.4	1.913 mg/L	0.0090	207.1 mg/kg	0.98	0.47%
Ti 336.121†	80250.9	1.896 mg/L	0.0041	205.2 mg/kg	0.44	0.21%
Tl 351.924†	14.2	-0.03265 mg/L	0.073305	-3.535 mg/kg	7.9369	224.52%
Tl 190.801†	98.0	-0.4696 mg/L	0.16584	-50.85 mg/kg	17.956	35.31%
Tl 276.787†	7411.3	6.285 mg/L	0.2799	680.5 mg/kg	30.30	4.45%
V 310.230†	4034.2	0.1067 mg/L	0.00466	11.55 mg/kg	0.505	4.37%
V 292.402†	2587.9	0.1547 mg/L	0.00777	16.75 mg/kg	0.841	5.02%
V 311.071†	3235.2	0.1296 mg/L	0.00730	14.03 mg/kg	0.791	5.64%
Saturated within auto integration window (code 4)						
Zn 206.200†	1793.6	1.751 mg/L	0.0831	189.6 mg/kg	9.00	4.75%
Zn 213.857†	7573.0	2.074 mg/L	0.1019	224.5 mg/kg	11.03	4.91%
Zn 202.548†	3230.6	1.916 mg/L	0.0820	207.5 mg/kg	8.88	4.28%

Sequence No.: 54
Sample ID: test 3

Initial Sample Wt: 0.4755 g
Dilution: 1X

Autosampler Location: 413
Date Collected: 10/26/2009 12:24:40 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: test 3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156105.9	98.23	%	1.156				1.18%
Ag 328.068†	3155.5	0.1215	mg/L	0.00376	12.78	mg/kg	0.396	3.10%
Ag 338.289†	1413.1	0.1059	mg/L	0.00230	11.14	mg/kg	0.242	2.17%
Al 308.215†	115161.6	65.19	mg/L	0.471	6855	mg/kg	49.5	0.72%
Al 394.401†	210630.6	72.49	mg/L	0.575	7622	mg/kg	60.4	0.79%
Al 396.153†	471315.7	65.12	mg/L	0.449	6848	mg/kg	47.3	0.69%
As 188.979†	-106.1	2.616	mg/L	0.4221	275.1	mg/kg	44.39	16.14%
As 193.696†	130.3	-0.02262	mg/L	0.154145	-2.378	mg/kg	16.2087	681.51%
As 197.197†	-61.8	4.063	mg/L	0.2001	427.2	mg/kg	21.05	4.93%
B 208.889†	347.5	1.267	mg/L	0.0056	133.2	mg/kg	0.58	0.44%
B 249.677†	3546.0	1.161	mg/L	0.0095	122.1	mg/kg	1.00	0.82%
B 249.772†	10224.0	1.201	mg/L	0.0085	126.3	mg/kg	0.89	0.70%
Ba 233.527†	34941.7	5.358	mg/L	0.0296	563.4	mg/kg	3.11	0.55%
Ba 455.403†	2115063.0	5.823	mg/L	0.0422	612.3	mg/kg	4.44	0.72%
Ba 493.408†	2221886.3	5.842	mg/L	0.0440	614.3	mg/kg	4.63	0.75%
Be 234.861†	4861.7	0.05596	mg/L	0.000312	5.884	mg/kg	0.0328	0.56%
Be 313.042†	29596.8	0.05439	mg/L	0.000412	5.719	mg/kg	0.0434	0.76%
Be 313.107†	15242.2	0.05481	mg/L	0.000458	5.763	mg/kg	0.0482	0.84%
Ca 315.887†	14809207.3	2013	mg/L	29.8	211600	mg/kg	3132.2	1.48%
Ca 317.933†	24013220.1	1850	mg/L	29.9	194500	mg/kg	3147.8	1.62%
Cd 214.440†	3469.9	0.7878	mg/L	0.00891	82.84	mg/kg	0.937	1.13%
Cd 226.502†	3220.8	0.8497	mg/L	0.00416	89.35	mg/kg	0.437	0.49%
Cd 228.802†	3273.3	0.7964	mg/L	0.00959	83.74	mg/kg	1.008	1.20%
Ce 413.380†	699.7	0.1258	mg/L	0.02109	13.23	mg/kg	2.217	16.76%
Ce 413.764†	561.9	0.1475	mg/L	0.01088	15.51	mg/kg	1.144	7.38%
Ce 418.660†	333.6	0.1991	mg/L	0.00619	20.93	mg/kg	0.651	3.11%
Co 228.616†	1062.7	0.4550	mg/L	0.00521	47.84	mg/kg	0.547	1.14%
Co 230.786†	1536.7	0.3656	mg/L	0.00447	38.44	mg/kg	0.470	1.22%
Co 238.892†	3532.7	0.4083	mg/L	0.02062	42.94	mg/kg	2.168	5.05%
Cr 205.560†	2867.2	4.983	mg/L	0.0259	524.0	mg/kg	2.72	0.52%
Cr 267.716†	30116.3	4.812	mg/L	0.0584	506.0	mg/kg	6.14	1.21%
Cr 283.563†	104270.9	4.827	mg/L	0.0315	507.5	mg/kg	3.32	0.65%
Cu 224.700†	5104.7	-11.53	mg/L	0.087	-1212	mg/kg	9.1	0.75%
Cu 324.752†	179097.4	4.955	mg/L	0.0379	521.1	mg/kg	3.98	0.76%
Cu 327.393†	77691.1	4.991	mg/L	0.0340	524.8	mg/kg	3.58	0.68%
Fe 238.204†	975629.8	105.4	mg/L	0.80	11080	mg/kg	84.4	0.76%
Fe 239.562†	647873.6	106.0	mg/L	0.72	11150	mg/kg	75.9	0.68%
Fe 259.939†	1218136.2	106.3	mg/L	0.83	11180	mg/kg	87.5	0.78%
Fe 273.955†	193429.1	114.8	mg/L	0.84	12070	mg/kg	88.2	0.73%
K 766.490†	39615.3	8.864	mg/L	0.0985	932.1	mg/kg	10.36	1.11%
Li 610.362†	16152.7	-0.6730	mg/L	0.04279	-70.77	mg/kg	4.499	6.36%

Hi AQC not run

Sequence No.: 22
Sample ID: 0909006-04

Autosampler Location: 301
Date Collected: 10/26/2009 2:25:51 PM
Data Type: Original

Initial Sample Wt: 0.5889 g
Dilution: 12.5X

Sample Prep Vol: 50 mL

Mean Data: 0909006-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	460279.2	289.6	%	30.32				10.47%
Ag 328.068†	140.2	0.00506	mg/L	0.000667	5.371	mg/kg	0.7082	13.18%
Ag 338.289†	-139.1	-0.01339	mg/L	0.000214	-14.21	mg/kg	0.227	1.60%
Al 308.215†	-345.7	-0.1941	mg/L	0.00364	-206.0	mg/kg	3.86	1.87%
Al 394.401†	66.6	0.02516	mg/L	0.003332	26.70	mg/kg	3.536	13.24%
Al 396.153†	114.6	0.01599	mg/L	0.004732	16.97	mg/kg	5.022	29.59%
As 188.979†	-0.8	-0.02600	mg/L	0.015712	-27.59	mg/kg	16.675	60.43%
As 193.696†	-1.4	-0.03291	mg/L	0.005016	-34.93	mg/kg	5.324	15.24%
As 197.197†	-3.2	-0.1396	mg/L	0.01276	-148.1	mg/kg	13.54	9.14%
B 208.889†	-31.8	-0.1275	mg/L	0.00623	-135.3	mg/kg	6.61	4.89%
B 249.677†	3.5	0.00120	mg/L	0.000239	1.269	mg/kg	0.2533	19.96%
B 249.772†	-30.8	-0.00470	mg/L	0.000160	-4.989	mg/kg	0.1702	3.41%
Ba 233.527†	9.9	0.00156	mg/L	0.000263	1.655	mg/kg	0.2792	16.86%
Ba 455.403†	-1018.0	-0.00280	mg/L	0.000271	-2.974	mg/kg	0.2874	9.66%
Ba 493.408†	-13.8	-0.00004	mg/L	0.000038	-0.03857	mg/kg	0.040194	104.22%
Be 234.861†	26.9	0.00041	mg/L	0.000015	0.4317	mg/kg	0.01556	3.61%
Be 313.042†	-1183.9	-0.00204	mg/L	0.000039	-2.162	mg/kg	0.0414	1.91%
Be 313.107†	-457.9	-0.00165	mg/L	0.000092	-1.755	mg/kg	0.0978	5.57%
Ca 315.887†	344.7	0.04688	mg/L	0.028243	49.75	mg/kg	29.975	60.25%
Ca 317.933†	595.5	0.04593	mg/L	0.078953	48.75	mg/kg	83.793	171.89%
Cd 214.440†	9.2	0.00232	mg/L	0.003702	2.462	mg/kg	3.9286	159.55%
Cd 226.502†	8.4	0.00224	mg/L	0.000057	2.376	mg/kg	0.0605	2.55%
Cd 228.802†	-23.2	-0.00529	mg/L	0.000062	-5.611	mg/kg	0.0663	1.18%
Ce 413.380†	59.6	0.01265	mg/L	0.001473	13.43	mg/kg	1.563	11.64%
Ce 413.764†	-25.0	-0.00496	mg/L	0.003818	-5.259	mg/kg	4.0517	77.05%
Ce 418.660†	201.6	0.03682	mg/L	0.005392	39.08	mg/kg	5.722	14.64%
Co 228.616†	-21.6	-0.00941	mg/L	0.001017	-9.988	mg/kg	1.0791	10.80%
Co 230.786†	-403.9	-0.2074	mg/L	0.00915	-220.1	mg/kg	9.71	4.41%
Co 238.892†	27.3	0.00669	mg/L	0.000456	7.100	mg/kg	0.4834	6.81%
Cr 205.560†	-3.1	-0.00536	mg/L	0.001436	-5.684	mg/kg	1.5241	26.81%
Cr 267.716†	-74.3	-0.01190	mg/L	0.000766	-12.63	mg/kg	0.813	6.44%
Cr 283.563†	-113.9	-0.00543	mg/L	0.000086	-5.764	mg/kg	0.0916	1.59%
Cu 224.700†	-8.9	-0.1246	mg/L	0.00350	-132.3	mg/kg	3.72	2.81%
Cu 324.752†	-267.3	-0.00745	mg/L	0.000202	-7.909	mg/kg	0.2144	2.71%
Cu 327.393†	61.7	0.00397	mg/L	0.000603	4.210	mg/kg	0.6404	15.21%
Fe 238.204†	-38.6	-0.00419	mg/L	0.000810	-4.449	mg/kg	0.8595	19.32%
Fe 239.562†	-31.2	-0.00508	mg/L	0.000921	-5.393	mg/kg	0.9771	18.12%
Fe 259.939†	-82.6	-0.00721	mg/L	0.001140	-7.647	mg/kg	1.2102	15.82%
Fe 273.955†	30.3	0.01825	mg/L	0.002044	19.37	mg/kg	2.169	11.20%
K 766.490†	376.5	0.08424	mg/L	0.008138	89.40	mg/kg	8.637	9.66%
Li 610.362†	-33097.3	-2.604	mg/L	0.1413	-2764	mg/kg	150.0	5.43%
Li 670.784†	468.9	0.00438	mg/L	0.000120	4.647	mg/kg	0.1275	2.74%
Mg 279.077†	-5.6	-0.00504	mg/L	0.006692	-5.345	mg/kg	7.1020	132.87%
Mg 280.271†	2315.6	0.00902	mg/L	0.003985	9.571	mg/kg	4.2288	44.18%
Saturated within auto integration window (code 4)								
Mg 285.213†	782.0	0.02757	mg/L	0.011141	29.26	mg/kg	11.824	40.41%
Mn 257.610†	8.6	0.00017	mg/L	0.000090	0.1808	mg/kg	0.09566	52.91%
Mn 259.372†	-39.9	-0.00063	mg/L	0.000078	-0.6671	mg/kg	0.08310	12.46%
Mn 260.568†	4.0	0.00015	mg/L	0.000098	0.1585	mg/kg	0.10404	65.62%
Mo 202.031†	0.3	0.00097	mg/L	0.002180	1.028	mg/kg	2.3135	225.13%
Mo 203.845†	2.4	0.01250	mg/L	0.005001	13.27	mg/kg	5.308	40.00%
Mo 204.597†	0.1	0.00036	mg/L	0.002702	0.3809	mg/kg	2.86752	752.81%
Na 588.995†	-36379.4	-2.477	mg/L	0.1301	-2629	mg/kg	138.0	5.25%
Na 589.592†	-36.3	-0.00461	mg/L	0.011781	-4.892	mg/kg	12.5031	255.57%
Ni 221.648†	0.7	0.00066	mg/L	0.001315	0.6975	mg/kg	1.39589	200.12%
Ni 231.604†	-30.5	-0.01244	mg/L	0.001139	-13.20	mg/kg	1.209	9.16%
Ni 232.003†	-4.8	-0.00325	mg/L	0.001285	-3.450	mg/kg	1.3638	39.53%
Pb 217.000†	1.1	0.01456	mg/L	0.012271	15.45	mg/kg	13.023	84.26%
Pb 220.353†	-1.8	-0.00468	mg/L	0.001939	-4.962	mg/kg	2.0574	41.46%

tray on 4
[illegible] Tbar 3

Li 670.784†	66170.2	0.6180 mg/L	0.00452	64.98 mg/kg	0.475	0.73%
Mg 279.077†	211644.0	187.1 mg/L	1.59	19680 mg/kg	166.8	0.85%
Mg 280.271†	40406033.3	156.0 mg/L	2.23	16400 mg/kg	234.3	1.43%
Mg 285.213†	4910580.8	173.9 mg/L	0.85	18280 mg/kg	89.5	0.49%
Mn 257.610†	579368.2	12.03 mg/L	0.092	1265 mg/kg	9.7	0.77%
Mn 259.372†	795059.5	12.02 mg/L	0.087	1264 mg/kg	9.1	0.72%
Mn 260.568†	341728.6	11.93 mg/L	0.080	1255 mg/kg	8.4	0.67%
Mo 202.031†	328.9	0.8756 mg/L	0.02301	92.07 mg/kg	2.419	2.63%
Mo 203.845†	273.1	1.252 mg/L	0.0193	131.7 mg/kg	2.03	1.54%
Mo 204.597†	132.9	1.006 mg/L	0.0536	105.8 mg/kg	5.64	5.33%
Na 588.995†	251968.8	17.15 mg/L	0.159	1804 mg/kg	16.7	0.93%
Na 589.592†	140764.3	17.85 mg/L	0.152	1877 mg/kg	16.0	0.85%
Ni 221.648†	1691.8	1.513 mg/L	0.0199	159.1 mg/kg	2.10	1.32%
Ni 231.604†	4750.3	1.882 mg/L	0.0150	197.9 mg/kg	1.58	0.80%
Ni 232.003†	2546.2	2.026 mg/L	0.0045	213.0 mg/kg	0.48	0.22%
Pb 217.000†	428.4	5.906 mg/L	0.0839	621.1 mg/kg	8.82	1.42%
Pb 220.353†	2080.1	5.162 mg/L	0.0263	542.8 mg/kg	2.77	0.51%
Sb 206.836†	-0.9	-0.08811 mg/L	0.025370	-9.265 mg/kg	2.6677	28.79%
Sb 217.582†	-31.6	-0.2317 mg/L	0.05635	-24.36 mg/kg	5.926	24.32%
Se 196.026†	26.3	0.8302 mg/L	0.09249	87.30 mg/kg	9.725	11.14%
Se 203.985†	-188.4	5.896 mg/L	0.1326	620.0 mg/kg	13.95	2.25%
Sn 235.485†	10864.3	-1.045 mg/L	0.0543	-109.9 mg/kg	5.71	5.20%
Sn 189.927†	-2.3	1.366 mg/L	0.0486	143.6 mg/kg	5.11	3.56%
Sr 460.733†	19093.6	3.368 mg/L	0.0472	354.2 mg/kg	4.96	1.40%
Sr 407.771†	4496064.1	3.056 mg/L	0.0444	321.4 mg/kg	4.67	1.45%
Sr 421.552†	1537903.4	3.172 mg/L	0.0236	333.6 mg/kg	2.48	0.74%
Ti 337.279†	107053.1	2.599 mg/L	0.0212	273.3 mg/kg	2.23	0.82%
Ti 334.940†	163375.1	2.612 mg/L	0.0187	274.6 mg/kg	1.97	0.72%
Ti 336.121†	110474.1	2.596 mg/L	0.0179	273.0 mg/kg	1.88	0.69%
Tl 351.924†	-8.0	-0.08795 mg/L	0.029782	-9.248 mg/kg	3.1317	33.86%
Tl 190.801†	99.4	-0.7694 mg/L	0.03444	-80.90 mg/kg	3.621	4.48%
Tl 276.787†	8223.2	6.699 mg/L	0.0816	704.4 mg/kg	8.58	1.22%
V 310.230†	21517.0	0.5774 mg/L	0.00718	60.71 mg/kg	0.755	1.24%
V 292.402†	8805.8	0.6153 mg/L	0.00474	64.70 mg/kg	0.499	0.77%
V 311.071†	13533.0	0.5817 mg/L	0.00636	61.16 mg/kg	0.668	1.09%
Zn 206.200†	8438.9	8.791 mg/L	0.0394	924.3 mg/kg	4.14	0.45%
Zn 213.857†	34574.9	10.33 mg/L	0.044	1086 mg/kg	4.6	0.42%
Zn 202.548†	15609.1	9.476 mg/L	0.0266	996.5 mg/kg	2.80	0.28%

User canceled analysis.

==========

Analysis Begun

Start Time: 10/26/2009 12:53:44 PM **Plasma On Time: 10/26/2009 9:50:10 AM**
Logged In Analyst: Kswan2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF dils.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

==========

Sequence No.: 39 **Autosampler Location: 10**
Sample ID: blank **Date Collected: 10/26/2009 12:53:44 PM**
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160283.5	100.9	%	4.04				4.01%
Ag 328.068†	27.6	0.00105	mg/L	0.000725				68.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-14.3	-0.00133	mg/L	0.001411				105.74%
Al 308.215†	-3.9	-0.00214	mg/L	0.007582				354.55%
Al 394.401†	24.5	0.00470	mg/L	0.009075				193.12%
Al 396.153†	173.0	0.02420	mg/L	0.010324				42.66%
As 188.979†	-1.3	-0.04477	mg/L	0.022361				49.95%
As 193.696†	-0.0	-0.00067	mg/L	0.042564				>999.9%
As 197.197†	0.3	0.01186	mg/L	0.023664				199.50%

B 208.889†	1.4	0.00547 mg/L	0.022434	409.87%
B 249.677†	-7.4	-0.00247 mg/L	0.001566	63.38%
B 249.772†	-8.7	-0.00134 mg/L	0.000252	18.74%
Ba 233.527†	-0.7	-0.00012 mg/L	0.001164	>999.9%
Ba 455.403†	64.0	0.00018 mg/L	0.000115	65.41%
Ba 493.408†	85.1	0.00022 mg/L	0.000123	54.87%
Be 234.861†	-0.8	-0.00001 mg/L	0.000115	803.46%
Be 313.042†	-56.3	-0.00010 mg/L	0.000088	89.81%
Be 313.107†	-8.4	-0.00003 mg/L	0.000062	188.93%
Ca 315.887†	787.8	0.1071 mg/L	0.01011	9.45%
Ca 317.933†	1464.8	0.1129 mg/L	0.05349	47.40%
Cd 214.440†	-3.8	-0.00096 mg/L	0.005160	536.94%
Cd 226.502†	-0.2	-0.00005 mg/L	0.000709	>999.9%
Cd 228.802†	-3.6	-0.00095 mg/L	0.002211	233.69%
Ce 413.380†	-36.2	-0.00769 mg/L	0.010511	136.74%
Ce 413.764†	47.8	0.00941 mg/L	0.006781	72.02%
Ce 418.660†	0.2	0.00004 mg/L	0.005747	>999.9%
Co 228.616†	-3.6	-0.00158 mg/L	0.000986	62.26%
Co 230.786†	-4.7	-0.00240 mg/L	0.011547	481.67%
Co 238.892†	-4.9	-0.00125 mg/L	0.002194	175.80%
Cr 205.560†	0.1	0.00010 mg/L	0.004916	>999.9%
Cr 267.716†	-8.2	-0.00131 mg/L	0.000896	68.56%
Cr 283.563†	-7.8	-0.00040 mg/L	0.000948	238.95%
Cu 224.700†	2.6	-0.04656 mg/L	0.021934	47.11%
Cu 324.752†	2.5	0.00007 mg/L	0.000688	994.87%
Cu 327.393†	-13.6	-0.00088 mg/L	0.001155	131.75%
Fe 238.204†	87.0	0.00939 mg/L	0.002963	31.55%
Fe 239.562†	55.1	0.00902 mg/L	0.004794	53.17%
Fe 259.939†	107.8	0.00941 mg/L	0.002664	28.32%
Fe 273.955†	20.4	0.01215 mg/L	0.000938	7.71%
K 766.490†	-137.2	-0.03069 mg/L	0.035318	115.08%
Li 610.362†	819.3	0.06434 mg/L	0.184027	286.03%
Li 670.784†	198.8	0.00186 mg/L	0.000796	42.86%
Mg 279.077†	-0.7	-0.00061 mg/L	0.011328	>999.9%
Mg 280.271†	2658.7	0.01027 mg/L	0.004933	48.04%
Mg 285.213†	272.2	0.00963 mg/L	0.000975	10.12%
Mn 257.610†	32.3	0.00067 mg/L	0.000074	10.99%
Mn 259.372†	41.8	0.00064 mg/L	0.000198	31.12%
Mn 260.568†	12.2	0.00043 mg/L	0.000184	42.92%
Mo 202.031†	-0.3	-0.00107 mg/L	0.002468	230.44%
Mo 203.845†	3.4	0.01742 mg/L	0.020746	119.08%
Mo 204.597†	-0.4	-0.00189 mg/L	0.004540	240.25%
Na 588.995†	110.9	0.00755 mg/L	0.167815	>999.9%
Na 589.592†	-108.1	-0.01371 mg/L	0.014190	103.52%
Ni 221.648†	-3.2	-0.00285 mg/L	0.005122	179.51%
Ni 231.604†	-6.0	-0.00243 mg/L	0.001244	51.12%
Ni 232.003†	9.1	0.00726 mg/L	0.004712	64.93%
Pb 217.000†	-2.4	-0.03085 mg/L	0.057098	185.06%
Pb 220.353†	1.5	0.00395 mg/L	0.006104	154.52%
Sb 206.836†	-2.8	-0.03475 mg/L	0.046468	133.72%
Sb 217.582†	-2.8	-0.02059 mg/L	0.015975	77.60%
Se 196.026†	-0.5	-0.01624 mg/L	0.134071	825.69%
Se 203.985†	-1.7	-0.06741 mg/L	0.055415	82.21%
Sn 235.485†	7.2	0.00885 mg/L	0.008549	96.64%
Sn 189.927†	0.8	0.01177 mg/L	0.043544	370.06%
Sr 460.733†	22.9	0.00398 mg/L	0.015313	384.35%
Sr 407.771†	344.9	0.00023 mg/L	0.000064	27.88%
Sr 421.552†	40.0	0.00008 mg/L	0.000126	152.47%
Ti 337.279†	47.5	0.00115 mg/L	0.002342	202.96%
Ti 334.940†	221.6	0.00325 mg/L	0.002471	75.97%
Ti 336.121†	147.2	0.00340 mg/L	0.002553	75.13%
Tl 351.924†	-14.1	-0.02159 mg/L	0.036986	171.28%
Tl 190.801†	1.4	0.05403 mg/L	0.062061	114.87%
Tl 276.787†	12.9	0.03121 mg/L	0.036381	116.57%
V 310.230†	-163.0	-0.00446 mg/L	0.004050	90.70%
V 292.402†	-15.1	-0.00112 mg/L	0.000586	52.27%
V 311.071†	-5.6	-0.00028 mg/L	0.000876	318.15%
Zn 206.200†	1.2	0.00128 mg/L	0.001515	117.97%
Zn 213.857†	1.1	0.00034 mg/L	0.000957	284.15%
Zn 202.548†	-3.4	-0.00207 mg/L	0.000689	33.36%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 12:54:50 PM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157061.9	98.83	%	1.073				1.09%
Ag 328.068†	6.4	0.00020	mg/L	0.001233				609.96%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	1.6	0.00018	mg/L	0.001319				715.51%
Al 308.215†	-0.6	-0.00002	mg/L	0.007909				>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	8.7	0.00534	mg/L	0.009608				179.78%
Al 396.153†	146.3	0.02084	mg/L	0.001627				7.81%
As 188.979†	0.8	0.02587	mg/L	0.033368				128.97%
As 193.696†	0.9	0.01949	mg/L	0.006050				31.04%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-1.6	-0.07014	mg/L	0.020138				28.71%
B 208.889†	1.7	0.00683	mg/L	0.002346				34.33%
B 249.677†	7.0	0.00232	mg/L	0.002729				117.44%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-7.7	-0.00116	mg/L	0.000686				58.96%
Ba 233.527†	0.3	0.00003	mg/L	0.001119				>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	42.3	0.00012	mg/L	0.000141				120.81%
Ba 493.408†	-71.1	-0.00019	mg/L	0.000207				110.52%
Be 234.861†	4.0	0.00006	mg/L	0.000089				149.25%
Be 313.042†	-30.8	-0.00005	mg/L	0.000038				75.23%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-7.0	-0.00002	mg/L	0.000053				212.97%
Ca 315.887†	3.5	0.00049	mg/L	0.003736				758.00%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	7.8	0.00060	mg/L	0.001324				219.72%
Cd 214.440†	-5.4	-0.00139	mg/L	0.007477				537.14%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	-3.2	-0.00087	mg/L	0.002008				232.14%
Cd 228.802†	4.5	0.00066	mg/L	0.000161				24.52%
Ce 413.380†	34.7	0.00738	mg/L	0.010803				146.47%
QC value within limits for Ce 413.380 Recovery = Not calculated								
Ce 413.764†	-29.5	-0.00581	mg/L	0.013571				233.76%
Ce 418.660†	-25.2	-0.00464	mg/L	0.014267				307.14%
Co 228.616†	-0.8	-0.00036	mg/L	0.001892				530.55%
Co 230.786†	9.8	0.00507	mg/L	0.002383				47.03%
Co 238.892†	-1.0	-0.00027	mg/L	0.000908				333.86%
QC value within limits for Co 238.892 Recovery = Not calculated								
Cr 205.560†	0.9	0.00156	mg/L	0.002739				175.77%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cr 267.716†	-13.9	-0.00223	mg/L	0.000416				18.69%
Cr 283.563†	-9.9	-0.00047	mg/L	0.000782				167.84%
Cu 224.700†	1.9	-0.01780	mg/L	0.062857				353.10%
QC value within limits for Cu 224.700 Recovery = Not calculated								
Cu 324.752†	-2.1	-0.00005	mg/L	0.000457				845.09%
Cu 327.393†	11.0	0.00070	mg/L	0.000701				100.58%
Fe 238.204†	3.1	0.00033	mg/L	0.000571				173.04%
Fe 239.562†	-2.3	-0.00038	mg/L	0.001425				374.58%
Fe 259.939†	-3.4	-0.00030	mg/L	0.000244				81.90%
Fe 273.955†	1.0	0.00057	mg/L	0.002339				408.06%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	20.5	0.00459	mg/L	0.063279				>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	2031.5	0.1598	mg/L	0.05317				33.27%
Li 670.784†	79.8	0.00075	mg/L	0.002362				316.94%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-9.6	-0.00858	mg/L	0.005217				60.79%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mg 280.271†	-29.6	-0.00011	mg/L	0.000047				41.78%
Mg 285.213†	7.6	0.00026	mg/L	0.000270				102.46%

Mn 257.610†	7.9	0.00016	mg/L	0.000301	184.18%
Mn 259.372†	2.6	0.00010	mg/L	0.000123	125.90%
Mn 260.568†	-9.6	-0.00034	mg/L	0.000341	101.80%
QC value within limits for Mn 260.568 Recovery = Not calculated					
Mo 202.031†	-0.2	-0.00076	mg/L	0.008750	>999.9%
Mo 203.845†	0.6	0.00305	mg/L	0.010256	336.42%
QC value within limits for Mo 203.845 Recovery = Not calculated					
Mo 204.597†	-2.5	-0.01179	mg/L	0.011033	93.59%
Na 588.995†	1300.2	0.08852	mg/L	0.055469	62.66%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-29.9	-0.00376	mg/L	0.019191	510.98%
Ni 221.648†	-4.2	-0.00374	mg/L	0.000512	13.67%
QC value within limits for Ni 221.648 Recovery = Not calculated					
Ni 231.604†	0.6	0.00026	mg/L	0.001293	499.06%
Ni 232.003†	3.4	0.00281	mg/L	0.001995	71.07%
Pb 217.000†	-1.8	-0.02405	mg/L	0.037286	155.06%
Pb 220.353†	1.2	0.00318	mg/L	0.007331	230.43%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-1.4	-0.01785	mg/L	0.026840	150.40%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-1.5	-0.01071	mg/L	0.009314	86.96%
Se 196.026†	-2.0	-0.06433	mg/L	0.084074	130.69%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	0.9	0.03852	mg/L	0.119359	309.90%
Sn 235.485†	0.2	0.00004	mg/L	0.009368	>999.9%
Sn 189.927†	0.7	0.01012	mg/L	0.015388	152.06%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 460.733†	45.4	0.00801	mg/L	0.014926	186.43%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Sr 407.771†	-35.2	-0.00002	mg/L	0.000027	123.85%
Sr 421.552†	-5.8	-0.00001	mg/L	0.000020	172.38%
Ti 337.279†	18.5	0.00045	mg/L	0.000513	114.07%
QC value within limits for Ti 337.279 Recovery = Not calculated					
Ti 334.940†	52.6	0.00077	mg/L	0.000820	106.73%
Ti 336.121†	27.8	0.00064	mg/L	0.000647	101.37%
Tl 351.924†	2.3	0.00416	mg/L	0.024941	599.50%
Tl 190.801†	3.7	0.1431	mg/L	0.04147	28.97%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	7.7	0.01890	mg/L	0.011549	61.09%
V 310.230†	-104.2	-0.00285	mg/L	0.001509	52.88%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	-8.1	-0.00076	mg/L	0.001311	172.69%
V 311.071†	-11.5	-0.00052	mg/L	0.000184	35.44%
Zn 206.200†	1.4	0.00146	mg/L	0.001387	94.99%
Zn 213.857†	-2.7	-0.00085	mg/L	0.000387	45.81%
QC value within limits for Zn 213.857 Recovery = Not calculated					
Zn 202.548†	-3.9	-0.00237	mg/L	0.000883	37.19%

All analyte(s) passed QC.

==========

Sequence No.: 41 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 12:55:53 PM**
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155828.9	98.05	%	0.797				0.81%
Ag 328.068†	7219.9	0.2687	mg/L	0.00207				0.77%
QC value within limits for Ag 328.068 Recovery = 107.49%								
Ag 338.289†	2993.2	0.2770	mg/L	0.00234				0.84%
Al 308.215†	1851.0	1.025	mg/L	0.0064				0.62%
QC value within limits for Al 308.215 Recovery = 102.53%								
Al 394.401†	4136.4	1.022	mg/L	0.0204				1.99%
Al 396.153†	7096.1	0.9918	mg/L	0.01943				1.96%
As 188.979†	58.2	1.993	mg/L	0.0311				1.56%
As 193.696†	89.9	2.058	mg/L	0.0542				2.64%
QC value within limits for As 193.696 Recovery = 102.89%								
As 197.197†	45.2	1.953	mg/L	0.2141				10.96%
B 208.889†	256.8	1.031	mg/L	0.0237				2.30%

B 249.677†	3244.0	1.077 mg/L	0.0079	0.74%
B 249.772†	7207.3	1.085 mg/L	0.0078	0.72%
QC value within limits for B 249.772 Recovery = 108.46%				
Ba 233.527†	7179.4	1.101 mg/L	0.0073	0.66%
QC value greater than the upper limit for Ba 233.527 Recovery = 110.12%				
Ba 455.403†	380103.5	1.047 mg/L	0.0356	3.40%
Ba 493.408†	395510.2	1.040 mg/L	0.0341	3.28%
Be 234.861†	66915.2	1.017 mg/L	0.0178	1.75%
Be 313.042†	539113.5	1.008 mg/L	0.0330	3.27%
QC value within limits for Be 313.042 Recovery = 100.84%				
Be 313.107†	279972.9	1.011 mg/L	0.0329	3.25%
Ca 315.887†	7471.9	1.012 mg/L	0.0160	1.58%
QC value within limits for Ca 315.887 Recovery = 101.22%				
Ca 317.933†	12398.3	0.9546 mg/L	0.01315	1.38%
Cd 214.440†	3966.0	1.003 mg/L	0.0086	0.86%
QC value within limits for Cd 214.440 Recovery = 100.34%				
Cd 226.502†	3736.1	0.9978 mg/L	0.00633	0.63%
Cd 228.802†	3621.6	0.9164 mg/L	0.00337	0.37%
Ce 413.380†	4880.0	1.036 mg/L	0.0319	3.08%
Ce 413.764†	5272.4	1.037 mg/L	0.0074	0.71%
Ce 418.660†	5691.5	1.040 mg/L	0.0227	2.18%
Co 228.616†	2286.3	0.9975 mg/L	0.00854	0.86%
Co 230.786†	1964.8	1.000 mg/L	0.0078	0.78%
Co 238.892†	4031.8	0.9896 mg/L	0.00642	0.65%
QC value within limits for Co 238.892 Recovery = 98.96%				
Cr 205.560†	603.8	1.032 mg/L	0.0117	1.14%
QC value within limits for Cr 205.560 Recovery = 103.18%				
Cr 267.716†	6890.8	1.104 mg/L	0.0089	0.81%
Cr 283.563†	21367.6	1.014 mg/L	0.0154	1.52%
Cu 224.700†	1040.6	-25.96 mg/L	0.912	3.51%
QC value less than the lower limit for Cu 224.700 Recovery = -2595.97%				
Cu 324.752†	36446.5	1.010 mg/L	0.0114	1.13%
Cu 327.393†	15946.1	1.024 mg/L	0.0170	1.66%
Fe 238.204†	9915.1	1.073 mg/L	0.0074	0.69%
Saturated within auto integration window (code 4)				
Fe 239.562†	6799.0	1.109 mg/L	0.0084	0.76%
Fe 259.939†	11651.6	1.017 mg/L	0.0144	1.42%
QC value within limits for Fe 259.939 Recovery = 101.69%				
Fe 273.955†	1910.3	1.125 mg/L	0.0147	1.30%
K 766.490†	22086.7	4.942 mg/L	0.0138	0.28%
QC value within limits for K 766.490 Recovery = 98.84%				
Li 610.362†	15467.6	1.206 mg/L	0.0303	2.52%
QC value greater than the upper limit for Li 610.362 Recovery = 120.60%				
Li 670.784†	109166.7	1.020 mg/L	0.0344	3.37%
Mg 279.077†	1241.9	1.100 mg/L	0.0095	0.86%
QC value greater than the upper limit for Mg 279.077 Recovery = 110.04%				
Mg 280.271†	253830.8	0.9791 mg/L	0.03264	3.33%
Mg 285.213†	27442.9	0.9735 mg/L	0.01460	1.50%
Mn 257.610†	51394.4	1.068 mg/L	0.0172	1.62%
Mn 259.372†	70124.6	1.070 mg/L	0.0168	1.57%
Mn 260.568†	28212.0	0.9852 mg/L	0.01417	1.44%
QC value within limits for Mn 260.568 Recovery = 98.52%				
Mo 202.031†	-0.1	-0.00009 mg/L	0.003288	>999.9%
Mo 203.845†	5.7	0.02852 mg/L	0.007308	25.62%
Mo 204.597†	-0.9	-0.00325 mg/L	0.018125	558.45%
Na 588.995†	16822.7	1.145 mg/L	0.0289	2.52%
Na 589.592†	8162.9	1.035 mg/L	0.0251	2.43%
Ni 221.648†	1119.9	1.006 mg/L	0.0080	0.79%
QC value within limits for Ni 221.648 Recovery = 100.63%				
Ni 231.604†	2472.0	1.009 mg/L	0.0057	0.57%
Ni 232.003†	1276.8	0.9587 mg/L	0.00412	0.43%
Pb 217.000†	159.5	2.073 mg/L	0.0296	1.43%
Pb 220.353†	790.5	2.064 mg/L	0.0039	0.19%
QC value within limits for Pb 220.353 Recovery = 103.18%				
Sb 206.836†	-3.3	-0.05597 mg/L	0.007975	14.25%
Sb 217.582†	2.1	0.01552 mg/L	0.018215	117.36%
Se 196.026†	30.6	0.9647 mg/L	0.05135	5.32%
QC value within limits for Se 196.026 Recovery = 96.47%				
Se 203.985†	34.9	1.037 mg/L	0.0648	6.26%
Sn 235.485†	91.7	-0.02114 mg/L	0.006785	32.09%
Sn 189.927†	2.7	0.04165 mg/L	0.037476	89.99%

Sr 460.733†	5906.9	1.034	mg/L	0.0236		2.28%
QC value within limits for Sr 460.733 Recovery = 103.44%						
Sr 407.771†	1517414.9	1.039	mg/L	0.0346		3.33%
Sr 421.552†	502558.3	1.037	mg/L	0.0355		3.43%
Ti 337.279†	32.1	0.00094	mg/L	0.000372		39.66%
Ti 334.940†	47.3	0.00046	mg/L	0.000696		152.14%
Ti 336.121†	41.0	0.00056	mg/L	0.000324		57.65%
Tl 351.924†	3462.5	4.763	mg/L	0.0860		1.81%
QC value within limits for Tl 351.924 Recovery = 95.26%						
Tl 190.801†	135.2	5.258	mg/L	0.1676		3.19%
QC value within limits for Tl 190.801 Recovery = 105.16%						
Tl 276.787†	1549.9	3.683	mg/L	0.0279		0.76%
V 310.230†	36463.6	0.9951	mg/L	0.01976		1.99%
QC value within limits for V 310.230 Recovery = 99.51%						
V 292.402†	14048.7	1.006	mg/L	0.0185		1.84%
V 311.071†	22143.4	1.002	mg/L	0.0177		1.77%
Zn 206.200†	942.8	0.9999	mg/L	0.00605		0.61%
Zn 213.857†	3480.5	1.062	mg/L	0.0042		0.40%
QC value within limits for Zn 213.857 Recovery = 106.24%						
Zn 202.548†	1767.6	1.077	mg/L	0.0068		0.63%

QC Failed. Continue with analysis.

==========

Sequence No.: 42
Sample ID: LCM2

Autosampler Location: 8
Date Collected: 10/26/2009 12:56:59 PM
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156604.9	98.54	%	1.876				1.90%
Ag 328.068†	15.9	0.00053	mg/L	0.000550				104.02%
Ag 338.289†	-125.1	-0.00041	mg/L	0.003037				732.13%
Al 308.215†	62.4	0.01345	mg/L	0.004356				32.40%
Al 394.401†	45.2	0.01447	mg/L	0.007397				51.11%
Al 396.153†	350.3	0.01623	mg/L	0.007730				47.62%
As 188.979†	-1.7	-0.05631	mg/L	0.068874				122.30%
As 193.696†	5.4	0.1229	mg/L	0.03553				28.91%
As 197.197†	-0.8	-0.03608	mg/L	0.048485				134.40%
B 208.889†	4.7	0.01877	mg/L	0.016820				89.61%
B 249.677†	74.2	0.02533	mg/L	0.002994				11.82%
B 249.772†	141.0	0.02159	mg/L	0.000537				2.49%
Ba 233.527†	-106.0	-0.01444	mg/L	0.000038				0.26%
Ba 455.403†	106.4	0.00029	mg/L	0.000298				101.86%
Ba 493.408†	86.0	0.00023	mg/L	0.000197				86.99%
Be 234.861†	2.2	0.00016	mg/L	0.000034				20.99%
Be 313.042†	59.0	0.00010	mg/L	0.000032				31.82%
Be 313.107†	95.0	0.00014	mg/L	0.000016				11.97%
Ca 315.887†	113.2	0.01429	mg/L	0.001746				12.22%
Ca 317.933†	220.5	0.01699	mg/L	0.000709				4.17%
Cd 214.440†	23.5	0.00791	mg/L	0.007403				93.64%
Cd 226.502†	-0.2	-0.00025	mg/L	0.000930				371.10%
Cd 228.802†	1.8	-0.00303	mg/L	0.001960				64.75%
Ce 413.380†	6.2	0.00132	mg/L	0.006841				516.79%
Ce 413.764†	9.8	0.00454	mg/L	0.011405				251.33%
Ce 418.660†	33.8	0.00921	mg/L	0.009101				98.77%
Co 228.616†	-6.5	-0.00421	mg/L	0.001223				29.03%
Co 230.786†	24.6	0.00750	mg/L	0.007470				99.62%
Co 238.892†	-4.4	0.00031	mg/L	0.001714				551.66%
Cr 205.560†	-0.3	-0.00138	mg/L	0.006641				481.31%
Cr 267.716†	10.2	0.00123	mg/L	0.001550				125.63%
Cr 283.563†	-0.8	0.00012	mg/L	0.000679				582.22%
Cu 224.700†	3.9	-0.01511	mg/L	0.034567				228.81%
Cu 324.752†	3.7	-0.00026	mg/L	0.000429				165.39%
Cu 327.393†	-16.6	-0.00024	mg/L	0.000645				264.74%
Fe 238.204†	42.0	0.00453	mg/L	0.000585				12.90%
Fe 239.562†	24.7	0.00449	mg/L	0.000852				18.97%
Fe 259.939†	47.0	0.00410	mg/L	0.001598				38.94%
Fe 273.955†	5.8	0.00625	mg/L	0.001312				21.00%
K 766.490†	6.1	0.00135	mg/L	0.018071				>999.9%

Li 610.362†	2180.2	0.1671	mg/L	0.09118			54.57%
Li 670.784†	68.7	0.00064	mg/L	0.001292			201.25%
Mg 279.077†	-15.5	-0.00955	mg/L	0.003721			38.95%
Mg 280.271†	359.8	0.00139	mg/L	0.000038			2.74%
Mg 285.213†	62.8	0.00222	mg/L	0.000358			16.12%
Mn 257.610†	7.7	0.00016	mg/L	0.000265			165.84%
Mn 259.372†	362.5	0.00054	mg/L	0.000192			35.43%
Mn 260.568†	2.2	0.00008	mg/L	0.000193			244.92%
Mo 202.031†	320.9	0.9987	mg/L	0.02411			2.41%
Mo 203.845†	194.3	1.007	mg/L	0.0132			1.31%
QC value within limits for Mo 203.845 Recovery = 100.69%							
Mo 204.597†	215.4	1.001	mg/L	0.0362			3.62%
Na 588.995†	2044.9	0.1392	mg/L	0.09336			67.06%
Na 589.592†	366.9	0.04384	mg/L	0.000688			1.57%
Ni 221.648†	-13.3	-0.01199	mg/L	0.004238			35.33%
Ni 231.604†	-5.4	-0.00303	mg/L	0.000669			22.10%
Ni 232.003†	9.6	0.00155	mg/L	0.004461			288.12%
Pb 217.000†	-3.5	-0.04552	mg/L	0.050225			110.35%
Pb 220.353†	-0.2	-0.00042	mg/L	0.008876			>999.9%
Sb 206.836†	159.3	1.969	mg/L	0.0275			1.40%
QC value within limits for Sb 206.836 Recovery = 98.44%							
Sb 217.582†	278.0	2.036	mg/L	0.0466			2.29%
Se 196.026†	-2.1	-0.06576	mg/L	0.113283			172.27%
Se 203.985†	1.8	-0.05198	mg/L	0.034378			66.14%
Sn 235.485†	992.8	1.501	mg/L	0.0596			3.97%
Sn 189.927†	348.9	5.251	mg/L	0.1668			3.18%
QC value within limits for Sn 189.927 Recovery = 105.02%							
Sr 460.733†	-2.4	-0.00020	mg/L	0.010818			>999.9%
Sr 407.771†	411.0	0.00028	mg/L	0.000188			67.19%
Sr 421.552†	59.4	0.00012	mg/L	0.000280			228.24%
Ti 337.279†	39254.3	0.9527	mg/L	0.02858			3.00%
QC value within limits for Ti 337.279 Recovery = 95.27%							
Ti 334.940†	65268.4	0.9545	mg/L	0.03112			3.26%
Ti 336.121†	41665.6	0.9615	mg/L	0.02913			3.03%
Tl 351.924†	-0.8	-0.00580	mg/L	0.046428			801.12%
Tl 190.801†	1.9	0.07316	mg/L	0.018101			24.74%
Tl 276.787†	15.7	0.03889	mg/L	0.025092			64.52%
V 310.230†	-59.0	-0.00203	mg/L	0.002768			136.49%
V 292.402†	-228.6	-0.00163	mg/L	0.001719			105.69%
V 311.071†	345.5	0.00185	mg/L	0.000429			23.22%
Zn 206.200†	2.1	0.00221	mg/L	0.002322			105.04%
Zn 213.857†	2.2	0.00108	mg/L	0.001252			115.97%
Zn 202.548†	-1.6	-0.00099	mg/L	0.000675			67.97%

All analyte(s) passed QC.

==========

Sequence No.: 43 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 12:58:00 PM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163427.0	102.8	%	0.53				0.52%
Ag 328.068†	-44.3	0.00494	mg/L	0.001461				29.59%
Ag 338.289†	23.7	0.00226	mg/L	0.002668				118.16%
Al 308.215†	168913.8	95.66	mg/L	0.760				0.79%
QC value within limits for Al 308.215 Recovery = 95.66%								
Al 394.401†	274217.7	95.43	mg/L	0.584				0.61%
Al 396.153†	659647.5	92.19	mg/L	0.613				0.67%
As 188.979†	-18.7	-0.3617	mg/L	0.08551				23.64%
As 193.696†	6.1	0.1192	mg/L	0.03194				26.79%
As 197.197†	-3.2	0.03374	mg/L	0.101066				299.54%
B 208.889†	26.4	0.04820	mg/L	0.014382				29.84%
B 249.677†	74.2	0.00796	mg/L	0.004186				52.57%
B 249.772†	2092.9	0.01238	mg/L	0.005483				44.29%
Ba 233.527†	27.7	-0.00054	mg/L	0.001658				308.97%
Ba 455.403†	-104.7	-0.00029	mg/L	0.000049				16.90%
Ba 493.408†	230.2	0.00004	mg/L	0.000079				194.05%
Be 234.861†	1025.1	-0.00047	mg/L	0.000257				55.13%

Be 313.042†	-54.2	-0.00008	mg/L	0.000033	44.14%
Be 313.107†	-27.5	-0.00010	mg/L	0.000053	54.92%
Ca 315.887†	698366.1	94.91	mg/L	0.889	0.94%
QC value within limits for Ca 315.887 Recovery = 94.91%					
Ca 317.933†	1162740.0	89.58	mg/L	0.899	1.00%
Cd 214.440†	76.1	-0.00148	mg/L	0.010670	719.90%
Cd 226.502†	25.9	-0.00300	mg/L	0.000908	30.31%
Cd 228.802†	1.9	-0.00350	mg/L	0.002710	77.41%
Ce 413.380†	175.9	0.01717	mg/L	0.017920	104.35%
Ce 413.764†	-102.3	0.00629	mg/L	0.004287	68.16%
Ce 418.660†	19.1	0.00976	mg/L	0.003230	33.08%
Co 228.616†	-0.5	-0.00109	mg/L	0.001071	97.78%
Co 230.786†	216.9	-0.00065	mg/L	0.001821	280.85%
Co 238.892†	1401.9	-0.01315	mg/L	0.006014	45.73%
Cr 205.560†	-5.9	-0.00608	mg/L	0.004535	74.58%
Cr 267.716†	7.0	0.00259	mg/L	0.000579	22.37%
Cr 283.563†	2823.8	0.00230	mg/L	0.001845	80.39%
Cu 224.700†	144.3	-0.05101	mg/L	0.007845	15.38%
Cu 324.752†	95.6	-0.00051	mg/L	0.000545	106.67%
Cu 327.393†	10.8	0.00065	mg/L	0.000281	43.11%
Fe 238.204†	856208.1	92.47	mg/L	0.858	0.93%
Fe 239.562†	566459.3	92.62	mg/L	0.749	0.81%
Fe 259.939†	1055379.0	92.11	mg/L	0.737	0.80%
Fe 273.955†	171281.8	101.6	mg/L	0.70	0.69%
QC value within limits for Fe 273.955 Recovery = 101.64%					
K 766.490†	409380.8	91.60	mg/L	0.572	0.62%
QC value within limits for K 766.490 Recovery = 91.60%					
Li 610.362†	586.2	-0.1301	mg/L	0.02105	16.19%
Li 670.784†	145.1	0.00136	mg/L	0.000244	17.98%
Mg 279.077†	65759.5	58.09	mg/L	0.552	0.95%
QC value within limits for Mg 279.077 Recovery = 96.82%					
Mg 280.271†	13970174.3	53.94	mg/L	1.273	2.36%
Mg 285.213†	1494928.2	52.93	mg/L	0.400	0.75%
Mn 257.610†	107.2	0.00031	mg/L	0.000653	212.47%
Mn 259.372†	6880.9	-0.00558	mg/L	0.000264	4.72%
Mn 260.568†	147.3	-0.00068	mg/L	0.000235	34.43%
Mo 202.031†	1.8	0.01246	mg/L	0.011264	90.43%
Mo 203.845†	39.1	0.1519	mg/L	0.02218	14.60%
Mo 204.597†	-10.2	-0.02932	mg/L	0.007260	24.76%
Na 588.995†	1374665.7	93.59	mg/L	0.681	0.73%
Na 589.592†	744287.8	94.41	mg/L	0.628	0.67%
QC value within limits for Na 589.592 Recovery = 94.41%					
Ni 221.648†	10.3	0.00269	mg/L	0.002319	86.08%
Ni 231.604†	10.8	0.00171	mg/L	0.001998	117.15%
Ni 232.003†	-109.8	-0.00295	mg/L	0.004971	168.26%
Pb 217.000†	25.5	-0.01605	mg/L	0.031012	193.18%
Pb 220.353†	7.6	0.03953	mg/L	0.010410	26.34%
Sb 206.836†	-4.2	-0.05144	mg/L	0.014141	27.49%
Sb 217.582†	2.4	0.01790	mg/L	0.023410	130.82%
Se 196.026†	-1.7	-0.05439	mg/L	0.064340	118.28%
Se 203.985†	-52.0	-1.502	mg/L	0.2160	14.38%
Sn 235.485†	9413.1	-1.278	mg/L	0.0555	4.34%
Sn 189.927†	-12.7	-0.1248	mg/L	0.02369	18.99%
Sr 460.733†	103.6	0.02277	mg/L	0.008342	36.64%
Sr 407.771†	1586.1	0.00003	mg/L	0.000034	106.63%
Sr 421.552†	513.5	0.00106	mg/L	0.000133	12.51%
Ti 337.279†	21.9	0.00092	mg/L	0.000693	75.11%
Ti 334.940†	-804.0	-0.00117	mg/L	0.000036	3.08%
Ti 336.121†	-89.2	0.00007	mg/L	0.000282	416.75%
Tl 351.924†	-17.8	-0.04503	mg/L	0.015301	33.98%
Tl 190.801†	11.4	0.2542	mg/L	0.04896	19.26%
Tl 276.787†	2842.3	2.776	mg/L	0.2456	8.85%
V 310.230†	-380.7	-0.01041	mg/L	0.000355	3.41%
V 292.402†	254.7	-0.00303	mg/L	0.000917	30.26%
V 311.071†	-342.2	-0.01744	mg/L	0.000157	0.90%
Zn 206.200†	20.2	0.01361	mg/L	0.001935	14.22%
Zn 213.857†	150.8	0.02572	mg/L	0.000786	3.06%
Zn 202.548†	34.2	0.01762	mg/L	0.002257	12.81%

All analyte(s) passed QC.

==========

Sequence No.: 44
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 12:59:12 PM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	159448.6	100.3	%	2.02				2.02%
Ag 328.068†	19.0	0.00066	mg/L	0.000927				141.04%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	7.9	0.00076	mg/L	0.001621				213.50%
Al 308.215†	34.7	0.01977	mg/L	0.018457				93.37%
Al 394.401†	86.6	0.03280	mg/L	0.015514				47.30%
Al 396.153†	203.4	0.02847	mg/L	0.004921				17.29%
As 188.979†	-0.1	-0.00191	mg/L	0.032594				>999.9%
As 193.696†	-1.0	-0.02384	mg/L	0.002452				10.28%
As 197.197†	-0.4	-0.01762	mg/L	0.094286				535.15%
B 208.889†	1.1	0.00447	mg/L	0.019500				436.31%
B 249.677†	6.6	0.00221	mg/L	0.002244				101.70%
B 249.772†	2.5	0.00029	mg/L	0.000359				122.49%
Ba 233.527†	-3.2	-0.00049	mg/L	0.000316				64.07%
Ba 455.403†	12.9	0.00004	mg/L	0.000302				853.12%
Ba 493.408†	-76.3	-0.00020	mg/L	0.000425				211.77%
Be 234.861†	-0.3	-0.00001	mg/L	0.000216				>999.9%
Be 313.042†	25.3	0.00005	mg/L	0.000185				342.36%
Be 313.107†	18.2	0.00007	mg/L	0.000176				263.41%
Ca 315.887†	175.4	0.02384	mg/L	0.014939				62.67%
Ca 317.933†	349.6	0.02693	mg/L	0.012693				47.13%
Cd 214.440†	22.3	0.00567	mg/L	0.003831				67.62%
Cd 226.502†	0.8	0.00021	mg/L	0.000276				129.01%
Cd 228.802†	-0.3	0.00061	mg/L	0.000928				151.77%
Ce 413.380†	36.0	0.00765	mg/L	0.010550				137.93%
Ce 413.764†	-33.7	-0.00662	mg/L	0.012164				183.84%
Ce 418.660†	-7.8	-0.00143	mg/L	0.009268				646.65%
Co 228.616†	-4.7	-0.00205	mg/L	0.002554				124.71%
Co 230.786†	1.7	0.00087	mg/L	0.006104				704.07%
Co 238.892†	-0.4	-0.00020	mg/L	0.001181				602.04%
Cr 205.560†	-0.8	-0.00129	mg/L	0.003947				307.03%
Cr 267.716†	3.8	0.00061	mg/L	0.000410				67.23%
Cr 283.563†	7.0	0.00030	mg/L	0.000998				329.28%
Cu 224.700†	2.5	-0.03593	mg/L	0.035346				98.39%
Cu 324.752†	-28.8	-0.00080	mg/L	0.001145				143.46%
Cu 327.393†	7.6	0.00049	mg/L	0.001761				361.12%
Fe 238.204†	216.4	0.02337	mg/L	0.014448				61.83%
Fe 239.562†	142.9	0.02336	mg/L	0.013786				59.01%
Fe 259.939†	265.0	0.02312	mg/L	0.014150				61.19%
Fe 273.955†	45.3	0.02691	mg/L	0.014442				53.67%
K 766.490†	111.5	0.02495	mg/L	0.016366				65.60%
Li 610.362†	1105.9	0.08696	mg/L	0.096769				111.28%
Li 670.784†	155.0	0.00145	mg/L	0.001406				97.16%
Mg 279.077†	16.0	0.01417	mg/L	0.010234				72.24%
Mg 280.271†	2377.8	0.00918	mg/L	0.006383				69.51%
Mg 285.213†	398.5	0.01411	mg/L	0.007930				56.22%
Mn 257.610†	2.1	0.00004	mg/L	0.000111				253.86%
Mn 259.372†	4.8	0.00005	mg/L	0.000208				405.90%
Mn 260.568†	-4.7	-0.00016	mg/L	0.000189				115.81%
Mo 202.031†	0.4	0.00139	mg/L	0.003711				267.78%
Mo 203.845†	2.7	0.01390	mg/L	0.007455				53.64%
Mo 204.597†	-0.3	-0.00148	mg/L	0.018651				>999.9%
Na 588.995†	403.0	0.02744	mg/L	0.090728				330.63%
Na 589.592†	28.3	0.00360	mg/L	0.024425				678.82%
Ni 221.648†	-1.9	-0.00174	mg/L	0.000770				44.27%
Ni 231.604†	3.7	0.00151	mg/L	0.001918				127.31%
Ni 232.003†	5.5	0.00430	mg/L	0.004168				96.98%
Pb 217.000†	-3.3	-0.04243	mg/L	0.031905				75.20%
Pb 220.353†	3.4	0.00893	mg/L	0.003017				33.79%
Sb 206.836†	-0.2	-0.00286	mg/L	0.036018				>999.9%
Sb 217.582†	2.9	0.02089	mg/L	0.021049				100.74%
Se 196.026†	0.5	0.01730	mg/L	0.020065				116.00%
Se 203.985†	-0.2	-0.00672	mg/L	0.159851				>999.9%

Sn 235.485†	5.4	0.00401	mg/L	0.004134	103.17%
Sn 189.927†	1.6	0.02420	mg/L	0.023519	97.20%
Sr 460.733†	-44.9	-0.00786	mg/L	0.005926	75.37%
Sr 407.771†	96.9	0.00007	mg/L	0.000044	64.20%
Sr 421.552†	42.6	0.00009	mg/L	0.000079	90.03%
Ti 337.279†	9.3	0.00022	mg/L	0.000530	235.77%
Ti 334.940†	30.0	0.00044	mg/L	0.000280	63.35%
Ti 336.121†	-7.3	-0.00017	mg/L	0.000191	115.60%
Tl 351.924†	-8.3	-0.01070	mg/L	0.013067	122.13%
Tl 190.801†	3.4	0.1326	mg/L	0.08818	66.50%
Tl 276.787†	12.6	0.02932	mg/L	0.021523	73.40%
V 310.230†	-94.6	-0.00258	mg/L	0.002348	91.02%
V 292.402†	-18.5	-0.00135	mg/L	0.000415	30.63%
V 311.071†	-4.5	-0.00021	mg/L	0.000493	235.70%
Zn 206.200†	0.1	0.00006	mg/L	0.000097	158.84%
Zn 213.857†	-0.6	-0.00021	mg/L	0.000451	213.81%
Zn 202.548†	-3.5	-0.00213	mg/L	0.002342	109.95%

All analyte(s) passed QC.

==========

Sequence No.: 45
Sample ID: 0909006-03

Autosampler Location: 221
Date Collected: 10/26/2009 1:00:13 PM
Data Type: Original

Initial Sample Wt: 0.4808 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909006-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158230.2	99.57	%	1.406				1.41%
Ag 328.068†	483.4	0.01981	mg/L	0.001518	2.060	mg/kg	0.1579	7.66%
Ag 338.289†	-46.0	0.00711	mg/L	0.006964	0.7394	mg/kg	0.72426	97.95%
Al 308.215†	56865.3	32.20	mg/L	0.088	3349	mg/kg	9.1	0.27%
Al 394.401†	104913.1	35.73	mg/L	0.081	3716	mg/kg	8.4	0.23%
Al 396.153†	237573.5	32.51	mg/L	0.327	3380	mg/kg	34.0	1.01%
As 188.979†	-122.6	1.560	mg/L	0.2258	162.2	mg/kg	23.48	14.47%
As 193.696†	65.9	-0.7985	mg/L	0.11839	-83.04	mg/kg	12.312	14.83%
As 197.197†	-35.4	2.996	mg/L	0.3185	311.6	mg/kg	33.13	10.63%
B 208.889†	222.1	0.4282	mg/L	0.04538	44.53	mg/kg	4.719	10.60%
B 249.677†	690.1	0.2244	mg/L	0.00211	23.33	mg/kg	0.219	0.94%
B 249.772†	2223.5	0.2405	mg/L	0.00125	25.01	mg/kg	0.130	0.52%
Ba 233.527†	2128.5	0.3253	mg/L	0.00112	33.83	mg/kg	0.116	0.34%
Ba 455.403†	127531.7	0.3511	mg/L	0.00118	36.51	mg/kg	0.123	0.34%
Ba 493.408†	135106.9	0.3551	mg/L	0.00081	36.93	mg/kg	0.085	0.23%
Be 234.861†	467.7	0.00205	mg/L	0.000200	0.2127	mg/kg	0.02078	9.77%
Be 313.042†	1992.0	0.00351	mg/L	0.000021	0.3655	mg/kg	0.00223	0.61%
Be 313.107†	1042.2	0.00351	mg/L	0.000043	0.3648	mg/kg	0.00446	1.22%
Ca 315.887†	14133521.0	1921	mg/L	44.0	199700	mg/kg	4575.7	2.29%
Ca 317.933†	22933438.4	1767	mg/L	44.4	183700	mg/kg	4614.9	2.51%
Cd 214.440†	147.7	-0.04939	mg/L	0.010614	-5.137	mg/kg	1.1038	21.49%
Cd 226.502†	10.7	0.00389	mg/L	0.000755	0.4041	mg/kg	0.07853	19.43%
Cd 228.802†	15.4	-0.03909	mg/L	0.005917	-4.066	mg/kg	0.6153	15.13%
Ce 413.380†	446.5	0.08852	mg/L	0.007457	9.206	mg/kg	0.7755	8.42%
Ce 413.764†	477.8	0.1055	mg/L	0.01700	10.97	mg/kg	1.768	16.12%
Ce 418.660†	92.2	0.1461	mg/L	0.00856	15.19	mg/kg	0.890	5.86%
Co 228.616†	44.8	0.01738	mg/L	0.001346	1.807	mg/kg	0.1400	7.75%
Co 230.786†	718.1	-0.08522	mg/L	0.003702	-8.863	mg/kg	0.3850	4.34%
Co 238.892†	681.0	-0.00370	mg/L	0.008217	-0.3850	mg/kg	0.85447	221.96%
Cr 205.560†	2.1	0.08323	mg/L	0.005280	8.656	mg/kg	0.5490	6.34%
Cr 267.716†	1221.0	0.09077	mg/L	0.001223	9.439	mg/kg	0.1272	1.35%
Cr 283.563†	438.4	0.08183	mg/L	0.000486	8.509	mg/kg	0.0505	0.59%
Cu 224.700†	134.2	-0.5965	mg/L	0.03480	-62.03	mg/kg	3.619	5.83%
Cu 324.752†	3963.0	0.1091	mg/L	0.00166	11.35	mg/kg	0.172	1.52%
Cu 327.393†	1900.7	0.1217	mg/L	0.00086	12.65	mg/kg	0.090	0.71%
Fe 238.204†	290191.8	31.34	mg/L	0.096	3259	mg/kg	10.0	0.31%
Fe 239.562†	192585.5	31.55	mg/L	0.143	3281	mg/kg	14.9	0.45%
Fe 259.939†	361868.8	31.58	mg/L	0.143	3284	mg/kg	14.9	0.45%
Fe 273.955†	53629.9	31.83	mg/L	0.187	3310	mg/kg	19.4	0.59%
K 766.490†	12678.0	2.837	mg/L	0.0318	295.0	mg/kg	3.31	1.12%
Li 610.362†	7370.3	-1.127	mg/L	0.0520	-117.2	mg/kg	5.40	4.61%

Li 670.784†	2741.1	0.02560 mg/L	0.001193	2.662 mg/kg	0.1240	4.66%
Mg 279.077†	944069.9	835.2 mg/L	9.37	86850 mg/kg	974.9	1.12%
Mg 280.271†	Saturated3					
Mg 285.213†	18512873.9	655.5 mg/L	14.78	68170 mg/kg	1537.3	2.26%
Mn 257.610†	150785.4	3.110 mg/L	0.0099	323.5 mg/kg	1.03	0.32%
Mn 259.372†	208037.9	3.126 mg/L	0.0113	325.1 mg/kg	1.17	0.36%
Mn 260.568†	83089.5	2.881 mg/L	0.0141	299.6 mg/kg	1.47	0.49%
Mo 202.031†	37.9	-0.03459 mg/L	0.026014	-3.598 mg/kg	2.7052	75.20%
Mo 203.845†	201.8	0.3208 mg/L	0.01184	33.36 mg/kg	1.231	3.69%
Mo 204.597†	-55.5	0.1075 mg/L	0.03155	11.18 mg/kg	3.281	29.35%
Na 588.995†	3973335.1	270.5 mg/L	5.62	28130 mg/kg	584.1	2.08%
Na 589.592†	2221578.1	281.8 mg/L	2.87	29300 mg/kg	298.1	1.02%
Ni 221.648†	58.4	0.05041 mg/L	0.005164	5.243 mg/kg	0.5370	10.24%
Ni 231.604†	190.6	0.02255 mg/L	0.005705	2.345 mg/kg	0.5932	25.29%
Ni 232.003†	-72.0	0.08927 mg/L	0.007066	9.284 mg/kg	0.7348	7.92%
Pb 217.000†	-15.8	0.2835 mg/L	0.02081	29.48 mg/kg	2.165	7.34%
Pb 220.353†	108.3	0.01681 mg/L	0.020781	1.748 mg/kg	2.1611	123.65%
Sb 206.836†	-2.4	-0.03618 mg/L	0.073573	-3.763 mg/kg	7.6511	203.34%
Sb 217.582†	-28.9	-0.2115 mg/L	0.05365	-22.00 mg/kg	5.579	25.37%
Se 196.026†	7.4	0.2346 mg/L	0.10480	24.40 mg/kg	10.898	44.67%
Se 203.985†	-241.1	4.058 mg/L	0.4857	422.0 mg/kg	50.51	11.97%
Sn 235.485†	3112.8	-0.1424 mg/L	0.03398	-14.81 mg/kg	3.534	23.86%
Sn 189.927†	-56.5	0.4853 mg/L	0.10912	50.46 mg/kg	11.348	22.49%
Sr 460.733†	11726.4	2.064 mg/L	0.0160	214.6 mg/kg	1.66	0.77%
Sr 407.771†	2757917.1	1.867 mg/L	0.0222	194.2 mg/kg	2.31	1.19%
Sr 421.552†	916021.5	1.890 mg/L	0.0219	196.5 mg/kg	2.27	1.16%
Ti 337.279†	50745.5	1.232 mg/L	0.0038	128.1 mg/kg	0.40	0.31%
Ti 334.940†	70493.1	1.245 mg/L	0.0055	129.5 mg/kg	0.58	0.44%
Ti 336.121†	51212.9	1.225 mg/L	0.0012	127.4 mg/kg	0.12	0.09%
Tl 351.924†	-35.4	-0.08256 mg/L	0.027227	-8.586 mg/kg	2.8314	32.98%
Tl 190.801†	91.0	-0.4807 mg/L	0.03513	-49.99 mg/kg	3.653	7.31%
Tl 276.787†	25199.6	3.114 mg/L	0.4653	323.8 mg/kg	48.38	14.94%
V 310.230†	3367.7	0.08841 mg/L	0.002816	9.194 mg/kg	0.2928	3.18%
V 292.402†	1973.3	0.1371 mg/L	0.00144	14.26 mg/kg	0.150	1.05%
V 311.071†	1014.8	0.04014 mg/L	0.003327	4.174 mg/kg	0.3460	8.29%
Zn 206.200†	315.1	0.1766 mg/L	0.01251	18.36 mg/kg	1.301	7.09%
Zn 213.857†	1495.4	0.2088 mg/L	0.00478	21.72 mg/kg	0.497	2.29%
Zn 202.548†	713.7	0.3689 mg/L	0.01200	38.37 mg/kg	1.248	3.25%

Sequence No.: 46
Sample ID: 0909006-04

Initial Sample Wt: 0.5889 g
Dilution: 1X

Autosampler Location: 405
Date Collected: 10/26/2009 1:01:33 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909006-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159743.4	100.5	%	1.43				1.42%
Ag 328.068†	-24.8	0.01403	mg/L	0.003776	1.191	mg/kg	0.3206	26.92%
Ag 338.289†	-49.4	0.00228	mg/L	0.006287	0.1933	mg/kg	0.53378	276.13%
Al 308.215†	86356.9	48.91	mg/L	0.322	4152	mg/kg	27.4	0.66%
Al 394.401†	156621.1	54.06	mg/L	0.321	4590	mg/kg	27.3	0.59%
Al 396.153†	352810.3	48.92	mg/L	0.630	4153	mg/kg	53.5	1.29%
As 188.979†	-108.7	-0.3354	mg/L	0.19821	-28.48	mg/kg	16.829	59.10%
As 193.696†	56.6	-0.00453	mg/L	0.055559	-0.3843	mg/kg	4.71717	>999.9%
As 197.197†	-45.0	1.063	mg/L	0.3534	90.25	mg/kg	30.004	33.24%
B 208.889†	132.1	0.2802	mg/L	0.02303	23.79	mg/kg	1.956	8.22%
B 249.677†	436.2	0.1067	mg/L	0.00256	9.055	mg/kg	0.2173	2.40%
B 249.772†	5431.7	0.1244	mg/L	0.00691	10.57	mg/kg	0.587	5.56%
Ba 233.527†	3452.5	0.5194	mg/L	0.00743	44.10	mg/kg	0.631	1.43%
Ba 455.403†	197947.4	0.5450	mg/L	0.00307	46.27	mg/kg	0.261	0.56%
Ba 493.408†	210949.0	0.5534	mg/L	0.00269	46.99	mg/kg	0.228	0.49%
Be 234.861†	2555.6	0.00240	mg/L	0.000299	0.2035	mg/kg	0.02537	12.47%
Be 313.042†	2860.9	0.00514	mg/L	0.000103	0.4360	mg/kg	0.00877	2.01%
Be 313.107†	1413.2	0.00492	mg/L	0.000061	0.4181	mg/kg	0.00520	1.24%
Ca 315.887†	8204225.0	1115	mg/L	10.0	94670	mg/kg	847.1	0.89%
Ca 317.933†	13486597.6	1039	mg/L	10.0	88220	mg/kg	853.3	0.97%
Cd 214.440†	187.7	-0.02493	mg/L	0.004572	-2.116	mg/kg	0.3882	18.34%

Cd 226.502†	110.1	0.00955	mg/L	0.002617	0.8110	mg/kg	0.22221	27.40%
Cd 228.802†	52.3	-0.02305	mg/L	0.000923	-1.957	mg/kg	0.0784	4.00%
Ce 413.380†	769.7	0.1172	mg/L	0.00481	9.955	mg/kg	0.4080	4.10%
Ce 413.764†	241.8	0.1105	mg/L	0.02237	9.382	mg/kg	1.8992	20.24%
Ce 418.660†	426.0	0.1527	mg/L	0.01014	12.96	mg/kg	0.861	6.64%
Co 228.616†	150.4	0.05552	mg/L	0.004045	4.714	mg/kg	0.3435	7.29%
Co 230.786†	862.7	0.02973	mg/L	0.006779	2.524	mg/kg	0.5756	22.80%
Co 238.892†	3552.1	0.02568	mg/L	0.003033	2.181	mg/kg	0.2576	11.81%
Cr 205.560†	95.7	0.2097	mg/L	0.00503	17.81	mg/kg	0.427	2.40%
Cr 267.716†	1682.7	0.2441	mg/L	0.00371	20.73	mg/kg	0.315	1.52%
Cr 283.563†	9655.0	0.1838	mg/L	0.00250	15.61	mg/kg	0.213	1.36%
Cu 224.700†	614.6	-1.936	mg/L	0.0480	-164.3	mg/kg	4.07	2.48%
Cu 324.752†	9958.8	0.2688	mg/L	0.00436	22.82	mg/kg	0.371	1.62%
Cu 327.393†	4385.6	0.2814	mg/L	0.00635	23.89	mg/kg	0.539	2.26%
Fe 238.204†	1943891.7	209.9	mg/L	2.71	17820	mg/kg	230.2	1.29%
Fe 239.562†	1295633.4	211.9	mg/L	2.49	17990	mg/kg	211.5	1.18%
Fe 259.939†	2420270.7	211.2	mg/L	2.61	17930	mg/kg	221.8	1.24%
Fe 273.955†	392432.4	232.9	mg/L	1.72	19770	mg/kg	146.2	0.74%
K 766.490†	41599.0	9.308	mg/L	0.0555	790.3	mg/kg	4.71	0.60%
Li 610.362†	5348.0	-0.7941	mg/L	0.06120	-67.42	mg/kg	5.197	7.71%
Li 670.784†	8785.9	0.08206	mg/L	0.001606	6.967	mg/kg	0.1364	1.96%
Mg 279.077†	395431.9	349.6	mg/L	2.50	29690	mg/kg	212.0	0.71%
Mg 280.271†	65619538.5	253.3	mg/L	2.46	21510	mg/kg	208.8	0.97%
Mg 285.213†	8702522.5	308.1	mg/L	3.04	26160	mg/kg	257.8	0.99%
Mn 257.610†	220019.7	4.561	mg/L	0.0300	387.2	mg/kg	2.55	0.66%
Mn 259.372†	316754.5	4.582	mg/L	0.0329	389.0	mg/kg	2.80	0.72%
Mn 260.568†	120914.7	4.208	mg/L	0.0323	357.3	mg/kg	2.75	0.77%
Mo 202.031†	39.3	0.06430	mg/L	0.010690	5.460	mg/kg	0.9076	16.62%
Mo 203.845†	142.7	0.4358	mg/L	0.01977	37.00	mg/kg	1.678	4.54%
Mo 204.597†	-44.2	0.00694	mg/L	0.016698	0.5894	mg/kg	1.41771	240.55%
Na 588.995†	420678.0	28.64	mg/L	0.402	2432	mg/kg	34.1	1.40%
Na 589.592†	236974.3	30.06	mg/L	0.244	2552	mg/kg	20.7	0.81%
Ni 221.648†	339.2	0.2899	mg/L	0.00782	24.61	mg/kg	0.664	2.70%
Ni 231.604†	765.5	0.2805	mg/L	0.00384	23.82	mg/kg	0.326	1.37%
Ni 232.003†	72.0	0.2971	mg/L	0.01078	25.23	mg/kg	0.915	3.63%
Pb 217.000†	88.7	1.033	mg/L	0.0666	87.70	mg/kg	5.654	6.45%
Pb 220.353†	444.7	1.017	mg/L	0.0234	86.35	mg/kg	1.989	2.30%
Sb 206.836†	-6.3	-0.08429	mg/L	0.046599	-7.157	mg/kg	3.9565	55.28%
Sb 217.582†	-13.3	-0.09746	mg/L	0.028357	-8.275	mg/kg	2.4076	29.10%
Se 196.026†	5.8	0.1837	mg/L	0.11319	15.60	mg/kg	9.610	61.61%
Se 203.985†	-222.7	-1.090	mg/L	0.3668	-92.59	mg/kg	31.145	33.64%
Sn 235.485†	21392.0	-3.179	mg/L	0.0314	-269.9	mg/kg	2.67	0.99%
Sn 189.927†	-47.9	0.05452	mg/L	0.033060	4.629	mg/kg	2.8070	60.64%
Sr 460.733†	7864.2	1.386	mg/L	0.0212	117.7	mg/kg	1.80	1.53%
Sr 407.771†	1912185.6	1.297	mg/L	0.0163	110.1	mg/kg	1.39	1.26%
Sr 421.552†	633345.6	1.306	mg/L	0.0165	110.9	mg/kg	1.40	1.27%
Ti 337.279†	37559.1	0.9125	mg/L	0.00432	77.47	mg/kg	0.366	0.47%
Ti 334.940†	53890.3	0.9124	mg/L	0.00646	77.46	mg/kg	0.548	0.71%
Ti 336.121†	38335.1	0.9101	mg/L	0.00618	77.27	mg/kg	0.524	0.68%
Tl 351.924†	-26.6	-0.1098	mg/L	0.03239	-9.320	mg/kg	2.7497	29.50%
Tl 190.801†	73.1	0.4286	mg/L	0.05324	36.39	mg/kg	4.521	12.42%
Tl 276.787†	13661.0	8.618	mg/L	0.3136	731.7	mg/kg	26.63	3.64%
V 310.230†	3784.2	0.09988	mg/L	0.001697	8.480	mg/kg	0.1441	1.70%
V 292.402†	2688.5	0.1439	mg/L	0.00199	12.22	mg/kg	0.169	1.38%
V 311.071†	1985.3	0.07748	mg/L	0.002292	6.578	mg/kg	0.1946	2.96%
Zn 206.200†	1360.1	1.352	mg/L	0.0201	114.8	mg/kg	1.71	1.49%
Zn 213.857†	5774.6	1.608	mg/L	0.0236	136.6	mg/kg	2.01	1.47%
Zn 202.548†	2457.3	1.468	mg/L	0.0168	124.6	mg/kg	1.43	1.15%

Sequence No.: 47
Sample ID: 0909014-01

Initial Sample Wt: 0.5494 g
Dilution: 1X

Autosampler Location: 406
Date Collected: 10/26/2009 1:02:57 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	166017.0	104.5	%	0.19				0.18%

Ag 328.068†	-165.4	0.00698	mg/L	0.001493	0.6355	mg/kg	0.13584	21.38%
Ag 338.289†	-168.7	-0.00421	mg/L	0.004666	-0.3835	mg/kg	0.42466	110.74%
Al 308.215†	60091.3	34.03	mg/L	0.129	3097	mg/kg	11.7	0.38%
Al 394.401†	108334.9	37.38	mg/L	0.091	3402	mg/kg	8.3	0.24%
Al 396.153†	246689.2	34.31	mg/L	0.135	3123	mg/kg	12.2	0.39%
As 188.979†	-70.1	-0.9165	mg/L	0.03681	-83.41	mg/kg	3.350	4.02%
As 193.696†	44.2	0.4325	mg/L	0.03086	39.36	mg/kg	2.808	7.13%
As 197.197†	-43.6	-0.3563	mg/L	0.12736	-32.43	mg/kg	11.591	35.75%
B 208.889†	47.3	0.1089	mg/L	0.03186	9.906	mg/kg	2.8998	29.27%
B 249.677†	232.4	0.04857	mg/L	0.003958	4.420	mg/kg	0.3602	8.15%
B 249.772†	3890.6	0.06795	mg/L	0.012413	6.184	mg/kg	1.1297	18.27%
Ba 233.527†	1498.3	0.2220	mg/L	0.00416	20.21	mg/kg	0.379	1.87%
Ba 455.403†	83253.4	0.2292	mg/L	0.00061	20.86	mg/kg	0.056	0.27%
Ba 493.408†	87984.0	0.2304	mg/L	0.00068	20.97	mg/kg	0.062	0.30%
Be 234.861†	1887.4	0.00148	mg/L	0.000241	0.1344	mg/kg	0.02197	16.35%
Be 313.042†	1639.2	0.00280	mg/L	0.000043	0.2546	mg/kg	0.00388	1.52%
Be 313.107†	837.0	0.00273	mg/L	0.000032	0.2483	mg/kg	0.00289	1.16%
Ca 315.887†	3527533.1	479.4	mg/L	2.13	43630	mg/kg	193.9	0.44%
Ca 317.933†	5837872.4	449.8	mg/L	1.99	40930	mg/kg	180.7	0.44%
Cd 214.440†	121.5	-0.00637	mg/L	0.016006	-0.5802	mg/kg	1.45668	251.08%
Cd 226.502†	65.2	0.00152	mg/L	0.000534	0.1382	mg/kg	0.04856	35.14%
Cd 228.802†	18.9	-0.02394	mg/L	0.000446	-2.178	mg/kg	0.0406	1.86%
Ce 413.380†	1977.4	0.3855	mg/L	0.00530	35.09	mg/kg	0.482	1.37%
Ce 413.764†	1762.4	0.3948	mg/L	0.01412	35.93	mg/kg	1.285	3.58%
Ce 418.660†	2026.4	0.4021	mg/L	0.00552	36.59	mg/kg	0.502	1.37%
Co 228.616†	108.3	0.03888	mg/L	0.001861	3.538	mg/kg	0.1693	4.79%
Co 230.786†	488.2	0.03008	mg/L	0.003241	2.737	mg/kg	0.2950	10.78%
Co 238.892†	2633.3	0.02553	mg/L	0.003099	2.324	mg/kg	0.2821	12.14%
Cr 205.560†	54.4	0.1128	mg/L	0.00778	10.27	mg/kg	0.708	6.89%
Cr 267.716†	746.6	0.1257	mg/L	0.00211	11.44	mg/kg	0.192	1.68%
Cr 283.563†	6803.1	0.09330	mg/L	0.002571	8.491	mg/kg	0.2340	2.76%
Cu 224.700†	397.1	-1.355	mg/L	0.0155	-123.3	mg/kg	1.41	1.15%
Cu 324.752†	4767.5	0.1269	mg/L	0.00131	11.55	mg/kg	0.119	1.03%
Cu 327.393†	2147.1	0.1376	mg/L	0.00225	12.52	mg/kg	0.205	1.64%
Fe 238.204†	1467216.9	158.5	mg/L	0.64	14420	mg/kg	58.1	0.40%
Fe 239.562†	976595.7	159.7	mg/L	0.90	14530	mg/kg	81.8	0.56%
Fe 259.939†	1818446.3	158.7	mg/L	0.64	14440	mg/kg	58.5	0.41%
Fe 273.955†	293039.8	173.9	mg/L	0.81	15830	mg/kg	73.6	0.47%
K 766.490†	16869.4	3.775	mg/L	0.0269	343.5	mg/kg	2.45	0.71%
Li 610.362†	1651.2	-0.4652	mg/L	0.00578	-42.34	mg/kg	0.526	1.24%
Li 670.784†	5971.6	0.05577	mg/L	0.000462	5.076	mg/kg	0.0421	0.83%
Mg 279.077†	76289.2	67.35	mg/L	0.333	6129	mg/kg	30.3	0.49%
Mg 280.271†	15933629.4	61.52	mg/L	0.433	5599	mg/kg	39.4	0.70%
Mg 285.213†	1783205.2	63.14	mg/L	0.282	5746	mg/kg	25.7	0.45%
Mn 257.610†	96879.8	2.010	mg/L	0.0078	183.0	mg/kg	0.71	0.39%
Mn 259.372†	144293.6	2.017	mg/L	0.0099	183.5	mg/kg	0.90	0.49%
Mn 260.568†	53481.4	1.861	mg/L	0.0071	169.3	mg/kg	0.64	0.38%
Mo 202.031†	17.9	0.04140	mg/L	0.006042	3.768	mg/kg	0.5499	14.60%
Mo 203.845†	48.6	0.1935	mg/L	0.01249	17.61	mg/kg	1.137	6.45%
Mo 204.597†	-32.5	-0.05969	mg/L	0.015275	-5.432	mg/kg	1.3902	25.59%
Na 588.995†	23999.1	1.634	mg/L	0.0287	148.7	mg/kg	2.61	1.76%
Na 589.592†	14118.5	1.791	mg/L	0.0097	163.0	mg/kg	0.88	0.54%
Ni 221.648†	223.6	0.1898	mg/L	0.00170	17.27	mg/kg	0.155	0.90%
Ni 231.604†	507.0	0.1932	mg/L	0.00589	17.59	mg/kg	0.536	3.05%
Ni 232.003†	27.8	0.1811	mg/L	0.00188	16.49	mg/kg	0.171	1.04%
Pb 217.000†	21.0	0.07493	mg/L	0.027779	6.819	mg/kg	2.5281	37.07%
Pb 220.353†	109.0	0.2274	mg/L	0.01102	20.70	mg/kg	1.003	4.84%
Sb 206.836†	-3.3	-0.04539	mg/L	0.025966	-4.131	mg/kg	2.3631	57.20%
Sb 217.582†	-7.5	-0.05467	mg/L	0.043502	-4.976	mg/kg	3.9590	79.57%
Se 196.026†	-0.2	-0.00680	mg/L	0.172514	-0.6192	mg/kg	15.70026	>999.9%
Se 203.985†	-158.7	-3.009	mg/L	0.1391	-273.9	mg/kg	12.66	4.62%
Sn 235.485†	16153.5	-2.101	mg/L	0.0556	-191.2	mg/kg	5.06	2.65%
Sn 189.927†	-40.8	-0.2803	mg/L	0.02395	-25.51	mg/kg	2.180	8.54%
Sr 460.733†	4031.0	0.7092	mg/L	0.00261	64.54	mg/kg	0.238	0.37%
Sr 407.771†	978849.1	0.6648	mg/L	0.00232	60.50	mg/kg	0.211	0.35%
Sr 421.552†	323270.9	0.6668	mg/L	0.00221	60.69	mg/kg	0.201	0.33%
Ti 337.279†	47917.8	1.164	mg/L	0.0016	105.9	mg/kg	0.15	0.14%
Ti 334.940†	75730.4	1.161	mg/L	0.0057	105.6	mg/kg	0.52	0.49%
Ti 336.121†	49905.1	1.163	mg/L	0.0050	105.8	mg/kg	0.45	0.43%
Tl 351.924†	-0.4	-0.1031	mg/L	0.02113	-9.379	mg/kg	1.9231	20.50%
Tl 190.801†	46.2	0.7113	mg/L	0.05494	64.73	mg/kg	5.000	7.72%

Tl 276.787†	3291.8	3.156	mg/L	0.0968	287.2	mg/kg	8.81	3.07%
V 310.230†	3523.2	0.09459	mg/L	0.001347	8.609	mg/kg	0.1226	1.42%
V 292.402†	2446.3	0.1366	mg/L	0.00148	12.43	mg/kg	0.135	1.08%
V 311.071†	3156.8	0.1267	mg/L	0.00241	11.53	mg/kg	0.219	1.90%
Zn 206.200†	669.5	0.6714	mg/L	0.00576	61.10	mg/kg	0.525	0.86%
Zn 213.857†	2799.8	0.7828	mg/L	0.01120	71.24	mg/kg	1.019	1.43%
Zn 202.548†	1207.2	0.7235	mg/L	0.00866	65.85	mg/kg	0.788	1.20%

Sequence No.: 48
Sample ID: 0909014-02

Autosampler Location: 407
Date Collected: 10/26/2009 1:04:11 PM
Data Type: Original

Initial Sample Wt: 0.4546 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909014-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156852.9	98.70	%	1.228				1.24%
Ag 328.068†	437.1	0.02542	mg/L	0.003212	2.796	mg/kg	0.3533	12.64%
Ag 338.289†	-86.4	0.00811	mg/L	0.008333	0.8920	mg/kg	0.91657	102.75%
Al 308.215†	105827.5	59.93	mg/L	0.297	6592	mg/kg	32.7	0.50%
Al 394.401†	193499.0	66.61	mg/L	0.300	7326	mg/kg	33.0	0.45%
Al 396.153†	433057.5	59.87	mg/L	0.624	6584	mg/kg	68.6	1.04%
As 188.979†	-131.7	1.209	mg/L	0.0686	133.0	mg/kg	7.54	5.67%
As 193.696†	86.8	-0.7377	mg/L	0.06881	-81.14	mg/kg	7.568	9.33%
As 197.197†	-79.7	2.751	mg/L	0.1228	302.6	mg/kg	13.51	4.47%
B 208.889†	104.4	0.2932	mg/L	0.00702	32.25	mg/kg	0.772	2.39%
B 249.677†	504.3	0.1439	mg/L	0.00380	15.83	mg/kg	0.418	2.64%
B 249.772†	3945.0	0.1651	mg/L	0.00287	18.16	mg/kg	0.316	1.74%
Ba 233.527†	5672.6	0.8636	mg/L	0.00166	94.98	mg/kg	0.183	0.19%
Ba 455.403†	319353.0	0.8792	mg/L	0.00981	96.71	mg/kg	1.079	1.12%
Ba 493.408†	333196.1	0.8754	mg/L	0.00920	96.28	mg/kg	1.011	1.05%
Be 234.861†	1857.4	0.00560	mg/L	0.000139	0.6157	mg/kg	0.01527	2.48%
Be 313.042†	4362.6	0.00790	mg/L	0.000039	0.8685	mg/kg	0.00434	0.50%
Be 313.107†	2232.3	0.00770	mg/L	0.000008	0.8471	mg/kg	0.00083	0.10%
Ca 315.887†	13543869.0	1841	mg/L	39.8	202400	mg/kg	4378.4	2.16%
Ca 317.933†	22090969.2	1702	mg/L	35.1	187200	mg/kg	3863.1	2.06%
Cd 214.440†	246.5	-0.02548	mg/L	0.017065	-2.802	mg/kg	1.8770	66.99%
Cd 226.502†	102.2	0.01422	mg/L	0.002278	1.564	mg/kg	0.2506	16.02%
Cd 228.802†	53.0	-0.04266	mg/L	0.004591	-4.692	mg/kg	0.5049	10.76%
Ce 413.380†	711.6	0.1225	mg/L	0.00905	13.48	mg/kg	0.995	7.39%
Ce 413.764†	366.6	0.1142	mg/L	0.01312	12.56	mg/kg	1.443	11.49%
Ce 418.660†	280.1	0.1749	mg/L	0.00173	19.24	mg/kg	0.190	0.99%
Co 228.616†	102.8	0.03779	mg/L	0.001745	4.157	mg/kg	0.1920	4.62%
Co 230.786†	687.9	-0.03789	mg/L	0.004583	-4.167	mg/kg	0.5040	12.09%
Co 238.892†	2342.1	0.01539	mg/L	0.017842	1.693	mg/kg	1.9624	115.94%
Cr 205.560†	125.8	0.2914	mg/L	0.01681	32.05	mg/kg	1.849	5.77%
Cr 267.716†	1938.0	0.3017	mg/L	0.00718	33.19	mg/kg	0.790	2.38%
Cr 283.563†	8836.8	0.2432	mg/L	0.00210	26.75	mg/kg	0.231	0.86%
Cu 224.700†	1659.6	-0.7582	mg/L	0.01285	-83.39	mg/kg	1.414	1.70%
Cu 324.752†	51926.4	1.434	mg/L	0.0079	157.7	mg/kg	0.87	0.55%
Cu 327.393†	22683.2	1.457	mg/L	0.0055	160.2	mg/kg	0.61	0.38%
Fe 238.204†	1218741.2	131.6	mg/L	1.52	14480	mg/kg	167.0	1.15%
Fe 239.562†	811574.3	132.8	mg/L	1.73	14600	mg/kg	189.9	1.30%
Fe 259.939†	1518054.6	132.5	mg/L	1.55	14570	mg/kg	170.2	1.17%
Fe 273.955†	242844.0	144.1	mg/L	0.80	15850	mg/kg	87.5	0.55%
K 766.490†	37964.2	8.495	mg/L	0.0660	934.3	mg/kg	7.26	0.78%
Li 610.362†	9398.4	-1.003	mg/L	0.0432	-110.3	mg/kg	4.75	4.30%
Li 670.784†	8776.3	0.08197	mg/L	0.000567	9.015	mg/kg	0.0624	0.69%
Mg 279.077†	184819.3	163.4	mg/L	0.80	17970	mg/kg	87.5	0.49%
Mg 280.271†	36209468.9	139.8	mg/L	2.73	15380	mg/kg	299.8	1.95%
Mg 285.213†	4314779.7	152.8	mg/L	2.14	16800	mg/kg	235.0	1.40%
Mn 257.610†	132744.3	2.753	mg/L	0.0150	302.8	mg/kg	1.66	0.55%
Mn 259.372†	191424.8	2.767	mg/L	0.0117	304.4	mg/kg	1.28	0.42%
Mn 260.568†	73175.9	2.548	mg/L	0.0128	280.2	mg/kg	1.41	0.50%
Mo 202.031†	31.7	-0.03126	mg/L	0.012483	-3.438	mg/kg	1.3729	39.93%
Mo 203.845†	94.2	0.3463	mg/L	0.00575	38.09	mg/kg	0.632	1.66%
Mo 204.597†	-60.1	0.07114	mg/L	0.045401	7.824	mg/kg	4.9935	63.82%
Na 588.995†	244893.0	16.67	mg/L	0.225	1834	mg/kg	24.7	1.35%

Na 589.592†	136947.0	17.37 mg/L	0.094	1911 mg/kg	10.3	0.54%
Ni 221.648†	261.8	0.2260 mg/L	0.00799	24.86 mg/kg	0.878	3.53%
Ni 231.604†	607.9	0.1952 mg/L	0.00223	21.47 mg/kg	0.246	1.14%
Ni 232.003†	68.7	0.2767 mg/L	0.00545	30.43 mg/kg	0.600	1.97%
Pb 217.000†	46.1	0.8320 mg/L	0.05304	91.51 mg/kg	5.834	6.38%
Pb 220.353†	333.4	0.6245 mg/L	0.02088	68.68 mg/kg	2.296	3.34%
Sb 206.836†	-1.0	-0.02173 mg/L	0.031970	-2.390 mg/kg	3.5163	147.12%
Sb 217.582†	-26.6	-0.1951 mg/L	0.04454	-21.46 mg/kg	4.899	22.82%
Se 196.026†	1.4	0.04483 mg/L	0.340247	4.931 mg/kg	37.4226	758.91%
Se 203.985†	-252.5	3.815 mg/L	0.1873	419.6 mg/kg	20.60	4.91%
Sn 235.485†	13431.2	-1.667 mg/L	0.0356	-183.4 mg/kg	3.92	2.14%
Sn 189.927†	-57.6	0.4139 mg/L	0.03118	45.52 mg/kg	3.429	7.53%
Sr 460.733†	13081.6	2.304 mg/L	0.0125	253.4 mg/kg	1.38	0.54%
Sr 407.771†	3129259.0	2.122 mg/L	0.0232	233.4 mg/kg	2.56	1.10%
Sr 421.552†	1039809.1	2.145 mg/L	0.0235	235.9 mg/kg	2.59	1.10%
Ti 337.279†	72618.0	1.763 mg/L	0.0073	193.9 mg/kg	0.80	0.41%
Ti 334.940†	107993.1	1.784 mg/L	0.0118	196.3 mg/kg	1.30	0.66%
Ti 336.121†	74478.8	1.762 mg/L	0.0101	193.8 mg/kg	1.11	0.57%
Tl 351.924†	-0.3	-0.05592 mg/L	0.024307	-6.150 mg/kg	2.6735	43.47%
Tl 190.801†	98.1	-0.4211 mg/L	0.03289	-46.31 mg/kg	3.617	7.81%
Tl 276.787†	7209.4	5.989 mg/L	0.3186	658.7 mg/kg	35.04	5.32%
V 310.230†	4457.5	0.1176 mg/L	0.00200	12.93 mg/kg	0.220	1.70%
V 292.402†	2763.3	0.1639 mg/L	0.00037	18.03 mg/kg	0.041	0.23%
V 311.071†	3032.3	0.1216 mg/L	0.00099	13.37 mg/kg	0.108	0.81%
Zn 206.200†	2273.6	2.263 mg/L	0.0089	248.9 mg/kg	0.98	0.39%
Zn 213.857†	9569.3	2.687 mg/L	0.0167	295.5 mg/kg	1.83	0.62%
Zn 202.548†	4170.3	2.485 mg/L	0.0096	273.4 mg/kg	1.05	0.39%

Sequence No.: 49
Sample ID: 0909014-03

Initial Sample Wt: 0.5893 g
Dilution: 1X

Autosampler Location: 408
Date Collected: 10/26/2009 1:05:28 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160718.2	101.1	%	2.22				2.19%
Ag 328.068†	395.0	0.02003	mg/L	0.000740	1.699	mg/kg	0.0628	3.69%
Ag 338.289†	-50.2	0.00843	mg/L	0.005633	0.7150	mg/kg	0.47795	66.85%
Al 308.215†	68369.5	38.72	mg/L	0.426	3285	mg/kg	36.1	1.10%
Al 394.401†	126727.5	43.52	mg/L	0.466	3693	mg/kg	39.6	1.07%
Al 396.153†	276057.8	38.07	mg/L	0.405	3230	mg/kg	34.4	1.06%
As 188.979†	-115.1	0.3834	mg/L	0.29798	32.53	mg/kg	25.283	77.72%
As 193.696†	65.2	-0.3931	mg/L	0.19148	-33.36	mg/kg	16.246	48.70%
As 197.197†	-52.4	1.776	mg/L	0.1308	150.7	mg/kg	11.09	7.36%
B 208.889†	139.6	0.3346	mg/L	0.00700	28.39	mg/kg	0.594	2.09%
B 249.677†	482.7	0.1467	mg/L	0.00285	12.45	mg/kg	0.242	1.94%
B 249.772†	2696.4	0.1573	mg/L	0.00225	13.35	mg/kg	0.191	1.43%
Ba 233.527†	2126.4	0.3225	mg/L	0.00141	27.36	mg/kg	0.120	0.44%
Ba 455.403†	122828.6	0.3382	mg/L	0.00324	28.69	mg/kg	0.275	0.96%
Ba 493.408†	128286.9	0.3369	mg/L	0.00371	28.58	mg/kg	0.315	1.10%
Be 234.861†	968.3	0.00157	mg/L	0.000333	0.1330	mg/kg	0.02821	21.21%
Be 313.042†	1938.7	0.00338	mg/L	0.000033	0.2869	mg/kg	0.00276	0.96%
Be 313.107†	995.0	0.00331	mg/L	0.000070	0.2811	mg/kg	0.00591	2.10%
Ca 315.887†	10427787.8	1417	mg/L	31.5	120200	mg/kg	2674.8	2.22%
Ca 317.933†	17037110.3	1313	mg/L	29.2	111400	mg/kg	2475.0	2.22%
Cd 214.440†	96.3	-0.04297	mg/L	0.008672	-3.646	mg/kg	0.7358	20.18%
Cd 226.502†	24.8	0.00045	mg/L	0.001036	0.03783	mg/kg	0.087864	232.27%
Cd 228.802†	11.8	-0.03956	mg/L	0.004421	-3.356	mg/kg	0.3751	11.18%
Ce 413.380†	714.5	0.1352	mg/L	0.01504	11.47	mg/kg	1.276	11.13%
Ce 413.764†	456.4	0.1150	mg/L	0.01932	9.755	mg/kg	1.6395	16.81%
Ce 418.660†	285.6	0.1473	mg/L	0.01982	12.50	mg/kg	1.681	13.45%
Co 228.616†	77.9	0.02954	mg/L	0.001111	2.507	mg/kg	0.0943	3.76%
Co 230.786†	633.2	-0.00677	mg/L	0.004067	-0.5747	mg/kg	0.34506	60.04%
Co 238.892†	1432.5	0.01613	mg/L	0.010052	1.369	mg/kg	0.8529	62.31%
Cr 205.560†	18.8	0.09098	mg/L	0.008891	7.719	mg/kg	0.7544	9.77%
Cr 267.716†	962.0	0.1130	mg/L	0.00076	9.584	mg/kg	0.0646	0.67%
Cr 283.563†	2811.2	0.06592	mg/L	0.004406	5.593	mg/kg	0.3738	6.68%

Cu 224.700†	275.3	-1.267 mg/L	0.0144	-107.5 mg/kg	1.22	1.14%
Cu 324.752†	5884.5	0.1607 mg/L	0.00323	13.64 mg/kg	0.274	2.01%
Cu 327.393†	2707.7	0.1735 mg/L	0.00275	14.72 mg/kg	0.233	1.58%
Fe 238.204†	702796.3	75.90 mg/L	0.678	6440 mg/kg	57.5	0.89%
Fe 239.562†	465894.8	76.22 mg/L	0.669	6467 mg/kg	56.7	0.88%
Fe 259.939†	874278.4	76.30 mg/L	0.706	6474 mg/kg	59.9	0.93%
Fe 273.955†	140860.5	83.59 mg/L	0.764	7092 mg/kg	64.9	0.91%
K 766.490†	22256.0	4.980 mg/L	0.0567	422.5 mg/kg	4.81	1.14%
Li 610.362†	5640.5	-0.8764 mg/L	0.04304	-74.36 mg/kg	3.652	4.91%
Li 670.784†	5689.2	0.05314 mg/L	0.000572	4.508 mg/kg	0.0486	1.08%
Mg 279.077†	423007.0	374.2 mg/L	3.18	31750 mg/kg	269.9	0.85%
Mg 280.271†	72492271.5	279.9 mg/L	6.08	23750 mg/kg	516.0	2.17%
Mg 285.213†	9053707.6	320.6 mg/L	6.83	27200 mg/kg	579.3	2.13%
Mn 257.610†	128801.8	2.666 mg/L	0.0247	226.2 mg/kg	2.10	0.93%
Mn 259.372†	182315.2	2.688 mg/L	0.0239	228.1 mg/kg	2.02	0.89%
Saturated within auto integration window (code 4)						
Mn 260.568†	70642.6	2.456 mg/L	0.0232	208.4 mg/kg	1.97	0.95%
Mo 202.031†	34.9	0.00457 mg/L	0.010472	0.3881 mg/kg	0.88851	228.95%
Mo 203.845†	146.7	0.4353 mg/L	0.02382	36.94 mg/kg	2.021	5.47%
Mo 204.597†	-56.2	0.00819 mg/L	0.005678	0.6952 mg/kg	0.48179	69.30%
Na 588.995†	142903.4	9.729 mg/L	0.1707	825.5 mg/kg	14.49	1.75%
Na 589.592†	82085.4	10.41 mg/L	0.089	883.5 mg/kg	7.58	0.86%
Ni 221.648†	103.5	0.08766 mg/L	0.006582	7.438 mg/kg	0.5584	7.51%
Ni 231.604†	260.6	0.06562 mg/L	0.004553	5.567 mg/kg	0.3863	6.94%
Ni 232.003†	-71.3	0.09704 mg/L	0.006331	8.234 mg/kg	0.5372	6.52%
Pb 217.000†	-0.8	0.2241 mg/L	0.02366	19.02 mg/kg	2.008	10.56%
Pb 220.353†	157.5	0.2199 mg/L	0.01719	18.65 mg/kg	1.458	7.82%
Sb 206.836†	-5.0	-0.06716 mg/L	0.038864	-5.698 mg/kg	3.2975	57.87%
Sb 217.582†	-18.0	-0.1321 mg/L	0.05742	-11.21 mg/kg	4.872	43.45%
Se 196.026†	4.1	0.1305 mg/L	0.22364	11.07 mg/kg	18.975	171.40%
Se 203.985†	-227.1	1.235 mg/L	0.2453	104.8 mg/kg	20.81	19.86%
Sn 235.485†	8059.9	-0.5630 mg/L	0.12131	-47.77 mg/kg	10.293	21.55%
Sn 189.927†	-58.3	0.1078 mg/L	0.04474	9.145 mg/kg	3.7957	41.51%
Sr 460.733†	8866.9	1.561 mg/L	0.0238	132.5 mg/kg	2.02	1.53%
Sr 407.771†	2090977.5	1.416 mg/L	0.0146	120.1 mg/kg	1.24	1.03%
Sr 421.552†	696853.6	1.437 mg/L	0.0153	122.0 mg/kg	1.30	1.07%
Ti 337.279†	54559.6	1.325 mg/L	0.0117	112.4 mg/kg	0.99	0.88%
Ti 334.940†	79427.9	1.320 mg/L	0.0128	112.0 mg/kg	1.09	0.97%
Ti 336.121†	55567.1	1.315 mg/L	0.0109	111.6 mg/kg	0.92	0.83%
Tl 351.924†	-42.8	-0.1038 mg/L	0.01372	-8.805 mg/kg	1.1642	13.22%
Tl 190.801†	80.3	0.01304 mg/L	0.289834	1.106 mg/kg	24.5914	>999.9%
Tl 276.787†	15280.9	10.97 mg/L	0.317	930.5 mg/kg	26.88	2.89%
V 310.230†	3892.2	0.1035 mg/L	0.00585	8.784 mg/kg	0.4962	5.65%
V 292.402†	2251.7	0.1423 mg/L	0.00148	12.07 mg/kg	0.125	1.04%
V 311.071†	2106.8	0.08441 mg/L	0.000542	7.162 mg/kg	0.0460	0.64%
Zn 206.200†	421.3	0.3308 mg/L	0.00606	28.07 mg/kg	0.514	1.83%
Zn 213.857†	1886.3	0.3894 mg/L	0.00116	33.04 mg/kg	0.098	0.30%
Zn 202.548†	773.3	0.4232 mg/L	0.01602	35.91 mg/kg	1.359	3.79%

Sequence No.: 50
Sample ID: 0909014-04

Autosampler Location: 409
Date Collected: 10/26/2009 1:06:50 PM
Data Type: Original

Initial Sample Wt: 0.4691 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909014-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161315.2	101.5	%	1.34				1.32%
Ag 328.068†	67.7	0.01101	mg/L	0.000764	1.174	mg/kg	0.0814	6.93%
Ag 338.289†	-51.7	0.00372	mg/L	0.003631	0.3965	mg/kg	0.38706	97.61%
Al 308.215†	83601.1	47.35	mg/L	0.392	5046	mg/kg	41.8	0.83%
Al 394.401†	153103.0	52.96	mg/L	0.428	5644	mg/kg	45.6	0.81%
Al 396.153†	340052.2	47.24	mg/L	0.826	5036	mg/kg	88.0	1.75%
As 188.979†	-96.7	-0.7865	mg/L	0.16787	-83.83	mg/kg	17.893	21.34%
As 193.696†	62.4	0.2746	mg/L	0.11657	29.26	mg/kg	12.425	42.46%
As 197.197†	-60.8	0.1010	mg/L	0.14578	10.77	mg/kg	15.539	144.29%
B 208.889†	53.5	0.1447	mg/L	0.01151	15.42	mg/kg	1.226	7.95%
B 249.677†	274.4	0.06979	mg/L	0.002680	7.439	mg/kg	0.2856	3.84%

B 249.772†	3166.4	0.09026	mg/L	0.006707	9.620	mg/kg	0.7149	7.43%
Ba 233.527†	2789.8	0.4220	mg/L	0.00156	44.98	mg/kg	0.166	0.37%
Ba 455.403†	159038.8	0.4379	mg/L	0.00773	46.67	mg/kg	0.824	1.77%
Ba 493.408†	166136.4	0.4362	mg/L	0.00823	46.49	mg/kg	0.877	1.89%
Be 234.861†	1516.6	0.00268	mg/L	0.000358	0.2860	mg/kg	0.03818	13.35%
Be 313.042†	2224.7	0.00402	mg/L	0.000016	0.4283	mg/kg	0.00171	0.40%
Be 313.107†	1145.7	0.00395	mg/L	0.000034	0.4214	mg/kg	0.00368	0.87%
Ca 315.887†	5969527.6	811.3	mg/L	11.17	86470	mg/kg	1190.3	1.38%
Ca 317.933†	9841882.1	758.2	mg/L	10.01	80820	mg/kg	1066.5	1.32%
Cd 214.440†	153.3	-0.00796	mg/L	0.006596	-0.8485	mg/kg	0.70303	82.86%
Cd 226.502†	64.6	0.00524	mg/L	0.000713	0.5586	mg/kg	0.07602	13.61%
Cd 228.802†	21.1	-0.03526	mg/L	0.004662	-3.758	mg/kg	0.4969	13.22%
Ce 413.380†	598.0	0.1012	mg/L	0.02225	10.79	mg/kg	2.372	21.98%
Ce 413.764†	280.4	0.09119	mg/L	0.020134	9.719	mg/kg	2.1461	22.08%
Ce 418.660†	364.7	0.1209	mg/L	0.01286	12.89	mg/kg	1.371	10.64%
Co 228.616†	89.2	0.03353	mg/L	0.001074	3.574	mg/kg	0.1145	3.20%
Co 230.786†	478.3	0.01887	mg/L	0.003619	2.012	mg/kg	0.3858	19.18%
Co 238.892†	2048.2	0.02509	mg/L	0.010655	2.674	mg/kg	1.1357	42.47%
Cr 205.560†	38.3	0.09913	mg/L	0.013673	10.57	mg/kg	1.457	13.79%
Cr 267.716†	665.9	0.1090	mg/L	0.00048	11.61	mg/kg	0.051	0.44%
Cr 283.563†	6016.1	0.1166	mg/L	0.00246	12.43	mg/kg	0.262	2.11%
Cu 224.700†	654.7	-1.107	mg/L	0.0403	-118.0	mg/kg	4.30	3.65%
Cu 324.752†	16301.0	0.4475	mg/L	0.00851	47.70	mg/kg	0.907	1.90%
Cu 327.393†	7180.6	0.4609	mg/L	0.00494	49.13	mg/kg	0.527	1.07%
Fe 238.204†	1145552.5	123.7	mg/L	2.19	13190	mg/kg	233.1	1.77%
Fe 239.562†	761454.8	124.5	mg/L	1.89	13270	mg/kg	201.2	1.52%
Fe 259.939†	1419789.2	123.9	mg/L	2.22	13210	mg/kg	237.1	1.80%
Fe 273.955†	218753.3	129.8	mg/L	1.46	13840	mg/kg	156.0	1.13%
K 766.490†	24521.8	5.487	mg/L	0.0154	584.8	mg/kg	1.64	0.28%
Li 610.362†	4098.9	-0.5147	mg/L	0.04693	-54.86	mg/kg	5.002	9.12%
Li 670.784†	6262.1	0.05849	mg/L	0.001326	6.234	mg/kg	0.1413	2.27%
Mg 279.077†	76222.4	67.32	mg/L	0.662	7176	mg/kg	70.6	0.98%
Mg 280.271†	16034644.4	61.91	mg/L	0.750	6599	mg/kg	79.9	1.21%
Mg 285.213†	1816412.3	64.32	mg/L	0.722	6855	mg/kg	77.0	1.12%
Mn 257.610†	98716.9	2.048	mg/L	0.0201	218.3	mg/kg	2.14	0.98%
Mn 259.372†	144701.1	2.071	mg/L	0.0188	220.7	mg/kg	2.00	0.91%
Mn 260.568†	54201.2	1.887	mg/L	0.0191	201.2	mg/kg	2.04	1.01%
Mo 202.031†	23.8	0.02622	mg/L	0.006978	2.794	mg/kg	0.7437	26.61%
Mo 203.845†	50.8	0.2046	mg/L	0.01960	21.81	mg/kg	2.089	9.58%
Mo 204.597†	-44.0	-0.05011	mg/L	0.015727	-5.342	mg/kg	1.6763	31.38%
Na 588.995†	43552.8	2.965	mg/L	0.0958	316.1	mg/kg	10.21	3.23%
Na 589.592†	25002.1	3.172	mg/L	0.0102	338.1	mg/kg	1.09	0.32%
Ni 221.648†	135.9	0.1138	mg/L	0.00307	12.13	mg/kg	0.327	2.70%
Ni 231.604†	318.0	0.1065	mg/L	0.00431	11.35	mg/kg	0.459	4.04%
Ni 232.003†	-53.8	0.1074	mg/L	0.00329	11.45	mg/kg	0.351	3.07%
Pb 217.000†	36.2	0.4186	mg/L	0.07546	44.62	mg/kg	8.043	18.03%
Pb 220.353†	240.4	0.5267	mg/L	0.02763	56.14	mg/kg	2.945	5.25%
Sb 206.836†	-5.1	-0.06716	mg/L	0.031913	-7.158	mg/kg	3.4015	47.52%
Sb 217.582†	-6.6	-0.04844	mg/L	0.022632	-5.163	mg/kg	2.4123	46.73%
Se 196.026†	-2.9	-0.09132	mg/L	0.189549	-9.733	mg/kg	20.2034	207.57%
Se 203.985†	-200.6	-2.088	mg/L	0.1524	-222.5	mg/kg	16.24	7.30%
Sn 235.485†	12359.2	-1.120	mg/L	0.0467	-119.4	mg/kg	4.98	4.17%
Sn 189.927†	-46.1	-0.1300	mg/L	0.08623	-13.85	mg/kg	9.191	66.34%
Sr 460.733†	6161.2	1.086	mg/L	0.0093	115.8	mg/kg	0.99	0.86%
Sr 407.771†	1525282.7	1.035	mg/L	0.0187	110.4	mg/kg	1.99	1.80%
Sr 421.552†	506094.3	1.044	mg/L	0.0190	111.3	mg/kg	2.03	1.82%
Ti 337.279†	35777.5	0.8689	mg/L	0.00813	92.61	mg/kg	0.867	0.94%
Ti 334.940†	53388.4	0.8712	mg/L	0.00750	92.86	mg/kg	0.799	0.86%
Ti 336.121†	36784.3	0.8679	mg/L	0.00919	92.50	mg/kg	0.980	1.06%
Tl 351.924†	-10.2	-0.05947	mg/L	0.017587	-6.339	mg/kg	1.8746	29.57%
Tl 190.801†	68.1	0.7808	mg/L	0.13710	83.22	mg/kg	14.613	17.56%
Tl 276.787†	3240.9	3.059	mg/L	0.2381	326.1	mg/kg	25.38	7.78%
V 310.230†	2336.9	0.06168	mg/L	0.001579	6.574	mg/kg	0.1683	2.56%
V 292.402†	1742.0	0.09481	mg/L	0.000976	10.11	mg/kg	0.104	1.03%
V 311.071†	2098.3	0.08506	mg/L	0.000250	9.066	mg/kg	0.0267	0.29%
Zn 206.200†	1235.5	1.245	mg/L	0.0032	132.7	mg/kg	0.34	0.26%
Zn 213.857†	5071.8	1.441	mg/L	0.0044	153.6	mg/kg	0.47	0.31%
Zn 202.548†	2230.5	1.338	mg/L	0.0031	142.6	mg/kg	0.33	0.23%

Sample ID: 0909014-05

Date Collected: 10/26/2009 1:08:02 PM
Data Type: Original

Initial Sample Wt: 0.4802 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: 0909014-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155497.9	97.85	%	1.595				1.63%
Ag 328.068†	3.6	0.01405	mg/L	0.002145	1.463	mg/kg	0.2234	15.26%
Ag 338.289†	-39.5	0.00911	mg/L	0.007470	0.9489	mg/kg	0.77781	81.97%
Al 308.215†	83512.6	47.29	mg/L	0.320	4924	mg/kg	33.3	0.68%
Al 394.401†	151411.5	52.25	mg/L	0.319	5441	mg/kg	33.2	0.61%
Al 396.153†	346134.1	47.99	mg/L	1.327	4997	mg/kg	138.2	2.76%
As 188.979†	-107.4	-0.2847	mg/L	0.15012	-29.65	mg/kg	15.631	52.73%
As 193.696†	74.7	0.1859	mg/L	0.03903	19.36	mg/kg	4.064	21.00%
As 197.197†	-70.8	0.6272	mg/L	0.37661	65.31	mg/kg	39.214	60.04%
B 208.889†	66.6	0.1657	mg/L	0.00582	17.26	mg/kg	0.606	3.51%
B 249.677†	340.9	0.07784	mg/L	0.007254	8.105	mg/kg	0.7553	9.32%
B 249.772†	4902.1	0.09676	mg/L	0.024442	10.08	mg/kg	2.545	25.26%
Ba 233.527†	3531.8	0.5323	mg/L	0.01923	55.43	mg/kg	2.002	3.61%
Ba 455.403†	200000.3	0.5506	mg/L	0.00309	57.33	mg/kg	0.322	0.56%
Ba 493.408†	212737.3	0.5582	mg/L	0.00238	58.13	mg/kg	0.248	0.43%
Be 234.861†	2468.1	0.00380	mg/L	0.000795	0.3956	mg/kg	0.08282	20.94%
Be 313.042†	3002.5	0.00542	mg/L	0.000283	0.5640	mg/kg	0.02949	5.23%
Be 313.107†	1514.9	0.00519	mg/L	0.000249	0.5400	mg/kg	0.02598	4.81%
Ca 315.887†	8021410.7	1090	mg/L	31.6	113500	mg/kg	3287.8	2.90%
Ca 317.933†	12408603.8	956.0	mg/L	25.88	99540	mg/kg	2695.2	2.71%
Cd 214.440†	294.8	0.00896	mg/L	0.009966	0.9329	mg/kg	1.03769	111.24%
Cd 226.502†	136.5	0.01673	mg/L	0.002586	1.742	mg/kg	0.2692	15.45%
Cd 228.802†	75.0	-0.02876	mg/L	0.001762	-2.995	mg/kg	0.1834	6.12%
Ce 413.380†	707.7	0.1075	mg/L	0.02166	11.20	mg/kg	2.255	20.14%
Ce 413.764†	307.9	0.1202	mg/L	0.01079	12.52	mg/kg	1.123	8.98%
Ce 418.660†	327.0	0.1329	mg/L	0.00882	13.84	mg/kg	0.918	6.63%
Co 228.616†	116.1	0.04055	mg/L	0.002786	4.222	mg/kg	0.2901	6.87%
Co 230.786†	682.9	0.01329	mg/L	0.012967	1.384	mg/kg	1.3502	97.57%
Co 238.892†	3272.9	0.01895	mg/L	0.002993	1.974	mg/kg	0.3116	15.79%
Cr 205.560†	116.7	0.2447	mg/L	0.01536	25.48	mg/kg	1.600	6.28%
Cr 267.716†	1572.0	0.2589	mg/L	0.00896	26.96	mg/kg	0.933	3.46%
Cr 283.563†	10202.9	0.2007	mg/L	0.00265	20.90	mg/kg	0.276	1.32%
Cu 224.700†	668.9	-1.467	mg/L	0.0524	-152.7	mg/kg	5.46	3.57%
Cu 324.752†	11816.3	0.3208	mg/L	0.00119	33.40	mg/kg	0.124	0.37%
Cu 327.393†	5259.4	0.3374	mg/L	0.00289	35.13	mg/kg	0.301	0.86%
Fe 238.204†	1829534.6	197.6	mg/L	5.62	20570	mg/kg	585.4	2.85%
Fe 239.562†	1217445.5	199.1	mg/L	5.59	20730	mg/kg	581.8	2.81%
Fe 259.939†	2272769.2	198.3	mg/L	5.59	20650	mg/kg	581.6	2.82%
Fe 273.955†	362932.2	215.4	mg/L	1.31	22430	mg/kg	136.4	0.61%
K 766.490†	23033.1	5.154	mg/L	0.0453	536.6	mg/kg	4.72	0.88%
Li 610.362†	6906.2	-0.6316	mg/L	0.05722	-65.76	mg/kg	5.958	9.06%
Li 670.784†	7226.1	0.06749	mg/L	0.002265	7.027	mg/kg	0.2359	3.36%
Mg 279.077†	96387.6	85.09	mg/L	0.458	8860	mg/kg	47.7	0.54%
Mg 280.271†	19948132.2	77.02	mg/L	1.963	8019	mg/kg	204.4	2.55%
Mg 285.213†	2291700.0	81.14	mg/L	2.377	8449	mg/kg	247.5	2.93%
Mn 257.610†	194370.7	4.035	mg/L	0.0200	420.1	mg/kg	2.08	0.50%
Mn 259.372†	280405.6	4.052	mg/L	0.0217	421.9	mg/kg	2.26	0.54%
Mn 260.568†	106795.8	3.722	mg/L	0.0181	387.5	mg/kg	1.89	0.49%
Mo 202.031†	25.3	0.02033	mg/L	0.012905	2.117	mg/kg	1.3438	63.47%
Mo 203.845†	63.0	0.2522	mg/L	0.02666	26.26	mg/kg	2.776	10.57%
Mo 204.597†	-45.2	-0.00270	mg/L	0.016528	-0.2811	mg/kg	1.72097	612.18%
Na 588.995†	41157.8	2.802	mg/L	0.1344	291.8	mg/kg	13.99	4.80%
Na 589.592†	21930.2	2.782	mg/L	0.0226	289.7	mg/kg	2.36	0.81%
Ni 221.648†	260.1	0.2200	mg/L	0.01827	22.90	mg/kg	1.903	8.31%
Ni 231.604†	605.8	0.2160	mg/L	0.00938	22.49	mg/kg	0.976	4.34%
Ni 232.003†	7.5	0.2325	mg/L	0.00510	24.20	mg/kg	0.531	2.19%
Pb 217.000†	59.0	0.6691	mg/L	0.01938	69.66	mg/kg	2.017	2.90%
Pb 220.353†	344.7	0.7592	mg/L	0.01140	79.05	mg/kg	1.187	1.50%
Sb 206.836†	-0.3	-0.01099	mg/L	0.020863	-1.145	mg/kg	2.1723	189.79%
Sb 217.582†	-8.5	-0.06203	mg/L	0.041736	-6.459	mg/kg	4.3457	67.28%
Se 196.026†	2.5	0.07878	mg/L	0.068744	8.203	mg/kg	7.1578	87.25%
Se 203.985†	-223.7	-0.9527	mg/L	0.37454	-99.19	mg/kg	38.999	39.32%

Sn 235.485†	19936.9	-2.707	mg/L	0.0770	-281.8	mg/kg	8.02	2.85%
Sn 189.927†	-54.8	-0.06667	mg/L	0.074449	-6.942	mg/kg	7.7518	111.66%
Sr 460.733†	8837.6	1.557	mg/L	0.0121	162.1	mg/kg	1.26	0.78%
Sr 407.771†	2178755.2	1.480	mg/L	0.0428	154.1	mg/kg	4.45	2.89%
Sr 421.552†	721503.1	1.488	mg/L	0.0430	155.0	mg/kg	4.48	2.89%
Ti 337.279†	56822.2	1.380	mg/L	0.0044	143.7	mg/kg	0.46	0.32%
Ti 334.940†	86971.8	1.393	mg/L	0.0081	145.1	mg/kg	0.84	0.58%
Ti 336.121†	58820.1	1.383	mg/L	0.0063	144.0	mg/kg	0.65	0.45%
Tl 351.924†	20.3	-0.04177	mg/L	0.017513	-4.350	mg/kg	1.8235	41.92%
Tl 190.801†	73.9	0.3580	mg/L	0.19228	37.27	mg/kg	20.020	53.71%
Tl 276.787†	4152.9	3.949	mg/L	0.2627	411.2	mg/kg	27.35	6.65%
V 310.230†	3329.1	0.08746	mg/L	0.002101	9.107	mg/kg	0.2187	2.40%
V 292.402†	2445.0	0.1273	mg/L	0.00755	13.25	mg/kg	0.786	5.93%
V 311.071†	2976.0	0.1170	mg/L	0.00526	12.18	mg/kg	0.548	4.50%
Zn 206.200†	1569.8	1.577	mg/L	0.0592	164.2	mg/kg	6.16	3.75%
Zn 213.857†	6490.8	1.833	mg/L	0.0598	190.9	mg/kg	6.22	3.26%
Zn 202.548†	2862.5	1.717	mg/L	0.0551	178.8	mg/kg	5.74	3.21%

Sequence No.: 52
Sample ID: test 1

Autosampler Location: 411
Date Collected: 10/26/2009 1:09:17 PM
Data Type: Original

Initial Sample Wt: 0.4526 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: test 1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	151999.4	95.64	%	0.431				0.45%
Ag 328.068†	376.2	0.02333	mg/L	0.003671	2.577	mg/kg	0.4055	15.73%
Ag 338.289†	-96.7	0.01138	mg/L	0.001881	1.257	mg/kg	0.2078	16.54%
Al 308.215†	115115.2	65.19	mg/L	0.352	7202	mg/kg	38.9	0.54%
Al 394.401†	210301.3	72.37	mg/L	0.455	7995	mg/kg	50.3	0.63%
Al 396.153†	483545.2	66.85	mg/L	0.425	7385	mg/kg	46.9	0.64%
As 188.979†	-140.3	1.570	mg/L	0.1883	173.4	mg/kg	20.80	11.99%
As 193.696†	88.1	-1.033	mg/L	0.1393	-114.1	mg/kg	15.39	13.48%
As 197.197†	-83.1	3.323	mg/L	0.1061	367.1	mg/kg	11.72	3.19%
B 208.889†	108.1	0.2981	mg/L	0.02293	32.93	mg/kg	2.534	7.69%
B 249.677†	498.1	0.1415	mg/L	0.00626	15.63	mg/kg	0.691	4.42%
B 249.772†	4056.0	0.1752	mg/L	0.00799	19.36	mg/kg	0.882	4.56%
Ba 233.527†	5618.9	0.8553	mg/L	0.01102	94.49	mg/kg	1.217	1.29%
Ba 455.403†	314739.9	0.8665	mg/L	0.00495	95.73	mg/kg	0.547	0.57%
Saturated within auto integration window (code 4)								
Ba 493.408†	326611.3	0.8581	mg/L	0.00409	94.79	mg/kg	0.452	0.48%
Saturated within auto integration window (code 4)								
Be 234.861†	1945.1	0.00657	mg/L	0.000307	0.7257	mg/kg	0.03388	4.67%
Be 313.042†	5025.2	0.00913	mg/L	0.000131	1.008	mg/kg	0.0145	1.44%
Be 313.107†	2581.5	0.00888	mg/L	0.000209	0.9808	mg/kg	0.02306	2.35%
Ca 315.887†	15097506.8	2052	mg/L	53.7	226700	mg/kg	5931.0	2.62%
Ca 317.933†	24464450.0	1885	mg/L	51.2	208200	mg/kg	5658.8	2.72%
Cd 214.440†	214.3	-0.04153	mg/L	0.011758	-4.588	mg/kg	1.2990	28.31%
Cd 226.502†	90.7	0.01090	mg/L	0.001791	1.204	mg/kg	0.1979	16.43%
Cd 228.802†	36.9	-0.04785	mg/L	0.001222	-5.286	mg/kg	0.1350	2.55%
Ce 413.380†	689.2	0.1173	mg/L	0.00117	12.96	mg/kg	0.130	1.00%
Ce 413.764†	383.5	0.1192	mg/L	0.00887	13.17	mg/kg	0.980	7.44%
Ce 418.660†	257.9	0.1851	mg/L	0.01192	20.45	mg/kg	1.316	6.44%
Co 228.616†	107.9	0.03951	mg/L	0.002645	4.364	mg/kg	0.2922	6.69%
Co 230.786†	760.5	-0.03275	mg/L	0.010124	-3.618	mg/kg	1.1184	30.91%
Co 238.892†	2378.6	0.01009	mg/L	0.007950	1.114	mg/kg	0.8782	78.80%
Cr 205.560†	149.4	0.3404	mg/L	0.00488	37.61	mg/kg	0.539	1.43%
Cr 267.716†	2178.5	0.3383	mg/L	0.00534	37.37	mg/kg	0.590	1.58%
Cr 283.563†	9371.9	0.2677	mg/L	0.00404	29.58	mg/kg	0.446	1.51%
Cu 224.700†	550.0	-2.224	mg/L	0.0490	-245.7	mg/kg	5.42	2.21%
Cu 324.752†	11286.3	0.3085	mg/L	0.00292	34.08	mg/kg	0.322	0.95%
Cu 327.393†	5013.2	0.3214	mg/L	0.00305	35.51	mg/kg	0.337	0.95%
Fe 238.204†	1275197.0	137.7	mg/L	0.91	15210	mg/kg	100.6	0.66%
Fe 239.562†	847195.9	138.6	mg/L	0.71	15310	mg/kg	79.0	0.52%
Fe 259.939†	1587575.7	138.6	mg/L	0.86	15310	mg/kg	95.1	0.62%
Fe 273.955†	246567.6	146.3	mg/L	0.92	16160	mg/kg	101.7	0.63%
K 766.490†	41928.5	9.382	mg/L	0.0550	1036	mg/kg	6.1	0.59%

Li 610.362†	12003.0	-0.9848	mg/L	0.05231	-108.8	mg/kg	5.78	5.31%
Li 670.784†	10251.1	0.09574	mg/L	0.001766	10.58	mg/kg	0.195	1.84%
Mg 279.077†	203965.1	180.3	mg/L	1.23	19920	mg/kg	135.9	0.68%
Mg 280.271†	40261970.9	155.4	mg/L	3.71	17170	mg/kg	410.2	2.39%
Mg 285.213†	4872797.5	172.5	mg/L	0.69	19060	mg/kg	76.0	0.40%
Mn 257.610†	146448.3	3.037	mg/L	0.0175	335.5	mg/kg	1.94	0.58%
Mn 259.372†	210069.6	3.049	mg/L	0.0196	336.9	mg/kg	2.16	0.64%
Mn 260.568†	80575.9	2.806	mg/L	0.0178	309.9	mg/kg	1.96	0.63%
Mo 202.031†	34.0	-0.04091	mg/L	0.004458	-4.519	mg/kg	0.4925	10.90%
Mo 203.845†	105.3	0.3890	mg/L	0.00161	42.98	mg/kg	0.178	0.41%
Mo 204.597†	-66.2	0.08302	mg/L	0.044127	9.171	mg/kg	4.8748	53.15%
Na 588.995†	251626.0	17.13	mg/L	0.114	1893	mg/kg	12.6	0.67%
Na 589.592†	136057.4	17.26	mg/L	0.083	1907	mg/kg	9.2	0.48%
Ni 221.648†	273.5	0.2364	mg/L	0.00425	26.12	mg/kg	0.469	1.80%
Ni 231.604†	654.5	0.2082	mg/L	0.00249	23.01	mg/kg	0.275	1.20%
Ni 232.003†	68.8	0.2891	mg/L	0.00270	31.94	mg/kg	0.299	0.94%
Pb 217.000†	47.5	0.8889	mg/L	0.00936	98.20	mg/kg	1.034	1.05%
Pb 220.353†	318.8	0.5595	mg/L	0.02296	61.80	mg/kg	2.537	4.10%
Sb 206.836†	-5.8	-0.08195	mg/L	0.014501	-9.053	mg/kg	1.6019	17.70%
Sb 217.582†	-33.1	-0.2424	mg/L	0.04129	-26.78	mg/kg	4.561	17.03%
Se 196.026†	-2.6	-0.08241	mg/L	0.088442	-9.104	mg/kg	9.7705	107.33%
Se 203.985†	-269.8	4.750	mg/L	0.2201	524.7	mg/kg	24.32	4.63%
Sn 235.485†	12160.6	-3.896	mg/L	0.2132	-430.4	mg/kg	23.55	5.47%
Saturated within auto integration window (code 4)								
Sn 189.927†	-64.4	0.4583	mg/L	0.06585	50.63	mg/kg	7.275	14.37%
Sr 460.733†	12342.4	2.175	mg/L	0.0238	240.2	mg/kg	2.63	1.09%
Sr 407.771†	3031165.6	2.053	mg/L	0.0145	226.8	mg/kg	1.60	0.71%
Sr 421.552†	1007120.6	2.077	mg/L	0.0149	229.5	mg/kg	1.65	0.72%
Ti 337.279†	89266.3	2.167	mg/L	0.0146	239.4	mg/kg	1.61	0.67%
Ti 334.940†	134076.9	2.189	mg/L	0.0216	241.9	mg/kg	2.38	0.98%
Ti 336.121†	91813.2	2.167	mg/L	0.0162	239.4	mg/kg	1.79	0.75%
Tl 351.924†	27.1	-0.01986	mg/L	0.021297	-2.194	mg/kg	2.3527	107.26%
Tl 190.801†	100.4	-0.8209	mg/L	0.24476	-90.69	mg/kg	27.039	29.81%
Tl 276.787†	7926.5	6.545	mg/L	0.2338	723.1	mg/kg	25.83	3.57%
V 310.230†	4596.1	0.1218	mg/L	0.00118	13.46	mg/kg	0.130	0.97%
V 292.402†	2899.2	0.1726	mg/L	0.00363	19.06	mg/kg	0.401	2.11%
V 311.071†	3679.3	0.1469	mg/L	0.00233	16.22	mg/kg	0.258	1.59%
Saturated within auto integration window (code 4)								
Zn 206.200†	1406.0	1.324	mg/L	0.0162	146.3	mg/kg	1.79	1.22%
Zn 213.857†	6022.5	1.572	mg/L	0.0181	173.6	mg/kg	2.00	1.15%
Zn 202.548†	2536.8	1.483	mg/L	0.0203	163.8	mg/kg	2.25	1.37%
Saturated within auto integration window (code 4)								

Sequence No.: 53
Sample ID: test 2

Initial Sample Wt: 0.4618 g
Dilution: 1X

Autosampler Location: 412
Date Collected: 10/26/2009 1:10:33 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: test 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155874.3	98.08	%	1.630				1.66%
Ag 328.068†	431.9	0.02423	mg/L	0.005597	2.623	mg/kg	0.6060	23.10%
Ag 338.289†	-101.9	0.00827	mg/L	0.002313	0.8954	mg/kg	0.25043	27.97%
Al 308.215†	103792.7	58.78	mg/L	0.357	6364	mg/kg	38.6	0.61%
Al 394.401†	189807.7	65.31	mg/L	0.377	7071	mg/kg	40.8	0.58%
Al 396.153†	425173.0	58.75	mg/L	1.042	6361	mg/kg	112.9	1.77%
As 188.979†	-137.3	1.114	mg/L	0.1347	120.6	mg/kg	14.59	12.09%
As 193.696†	88.4	-0.7622	mg/L	0.11492	-82.53	mg/kg	12.442	15.08%
As 197.197†	-84.8	2.631	mg/L	0.4476	284.9	mg/kg	48.46	17.01%
B 208.889†	99.8	0.2768	mg/L	0.02542	29.97	mg/kg	2.752	9.18%
B 249.677†	431.8	0.1225	mg/L	0.00567	13.26	mg/kg	0.614	4.63%
B 249.772†	3528.2	0.1505	mg/L	0.00153	16.30	mg/kg	0.166	1.02%
Ba 233.527†	7187.5	1.097	mg/L	0.0011	118.7	mg/kg	0.12	0.10%
Ba 455.403†	403481.9	1.111	mg/L	0.0197	120.3	mg/kg	2.14	1.78%
Ba 493.408†	421031.4	1.106	mg/L	0.0196	119.8	mg/kg	2.12	1.77%
Be 234.861†	1708.8	0.00587	mg/L	0.000568	0.6353	mg/kg	0.06149	9.68%
Be 313.042†	4355.0	0.00790	mg/L	0.000021	0.8554	mg/kg	0.00231	0.27%

Be 313.107†	2248.1	0.00773	mg/L	0.000034	0.8366	mg/kg	0.00373	0.45%
Ca 315.887†	13772644.1	1872	mg/L	52.5	202700	mg/kg	5684.0	2.80%
Ca 317.933†	22358555.0	1723	mg/L	46.3	186500	mg/kg	5008.8	2.69%
Cd 214.440†	196.2	-0.03719	mg/L	0.010711	-4.027	mg/kg	1.1597	28.80%
Cd 226.502†	84.1	0.01086	mg/L	0.001757	1.176	mg/kg	0.1902	16.18%
Cd 228.802†	39.1	-0.04741	mg/L	0.000841	-5.133	mg/kg	0.0910	1.77%
Ce 413.380†	645.8	0.1118	mg/L	0.00713	12.10	mg/kg	0.772	6.38%
Ce 413.764†	425.2	0.1219	mg/L	0.01214	13.20	mg/kg	1.314	9.95%
Ce 418.660†	243.6	0.1703	mg/L	0.00959	18.44	mg/kg	1.038	5.63%
Co 228.616†	98.9	0.03655	mg/L	0.000862	3.957	mg/kg	0.0933	2.36%
Co 230.786†	675.9	-0.03529	mg/L	0.002023	-3.820	mg/kg	0.2191	5.73%
Co 238.892†	2101.3	0.01178	mg/L	0.011818	1.276	mg/kg	1.2796	100.32%
Cr 205.560†	128.2	0.2966	mg/L	0.00677	32.12	mg/kg	0.733	2.28%
Cr 267.716†	1918.6	0.2968	mg/L	0.00083	32.13	mg/kg	0.090	0.28%
Cr 283.563†	8364.0	0.2433	mg/L	0.00087	26.35	mg/kg	0.094	0.36%
Cu 224.700†	466.3	-1.892	mg/L	0.0276	-204.9	mg/kg	2.99	1.46%
Cu 324.752†	9612.2	0.2627	mg/L	0.00112	28.44	mg/kg	0.121	0.43%
Cu 327.393†	4337.3	0.2780	mg/L	0.00256	30.10	mg/kg	0.277	0.92%
Fe 238.204†	1087830.3	117.5	mg/L	2.06	12720	mg/kg	222.8	1.75%
Fe 239.562†	722226.1	118.2	mg/L	2.02	12790	mg/kg	219.1	1.71%
Fe 259.939†	1352913.5	118.1	mg/L	2.05	12780	mg/kg	221.4	1.73%
Fe 273.955†	215536.3	127.9	mg/L	0.64	13850	mg/kg	68.8	0.50%
K 766.490†	36540.3	8.176	mg/L	0.0828	885.3	mg/kg	8.97	1.01%
Li 610.362†	9913.6	-0.9745	mg/L	0.03875	-105.5	mg/kg	4.20	3.98%
Li 670.784†	8673.8	0.08101	mg/L	0.001179	8.771	mg/kg	0.1276	1.45%
Mg 279.077†	188648.5	166.8	mg/L	0.98	18060	mg/kg	105.6	0.58%
Mg 280.271†	36628834.8	141.4	mg/L	3.76	15310	mg/kg	407.3	2.66%
Mg 285.213†	4391063.7	155.5	mg/L	2.68	16830	mg/kg	290.0	1.72%
Mn 257.610†	134280.8	2.785	mg/L	0.0144	301.5	mg/kg	1.56	0.52%
Mn 259.372†	192006.8	2.794	mg/L	0.0112	302.5	mg/kg	1.21	0.40%
Mn 260.568†	73998.6	2.577	mg/L	0.0127	279.0	mg/kg	1.37	0.49%
Mo 202.031†	27.4	-0.04956	mg/L	0.046095	-5.366	mg/kg	4.9908	93.02%
Mo 203.845†	94.4	0.3443	mg/L	0.02026	37.27	mg/kg	2.194	5.89%
Mo 204.597†	-61.8	0.06920	mg/L	0.016662	7.492	mg/kg	1.8041	24.08%
Na 588.995†	225375.5	15.34	mg/L	0.324	1661	mg/kg	35.1	2.11%
Na 589.592†	125746.8	15.95	mg/L	0.093	1727	mg/kg	10.1	0.58%
Ni 221.648†	237.4	0.2051	mg/L	0.00720	22.21	mg/kg	0.779	3.51%
Ni 231.604†	564.9	0.1768	mg/L	0.00588	19.15	mg/kg	0.636	3.32%
Ni 232.003†	56.0	0.2547	mg/L	0.00483	27.58	mg/kg	0.523	1.90%
Pb 217.000†	72.2	1.200	mg/L	0.0177	129.9	mg/kg	1.91	1.47%
Pb 220.353†	460.0	0.9511	mg/L	0.00511	103.0	mg/kg	0.55	0.54%
Sb 206.836†	-5.3	-0.07511	mg/L	0.026281	-8.132	mg/kg	2.8455	34.99%
Sb 217.582†	-20.8	-0.1522	mg/L	0.05430	-16.48	mg/kg	5.880	35.69%
Se 196.026†	-2.0	-0.06315	mg/L	0.053124	-6.837	mg/kg	5.7518	84.12%
Se 203.985†	-261.9	3.666	mg/L	0.4981	396.9	mg/kg	53.93	13.59%
Sn 235.485†	11926.4	-1.469	mg/L	0.1224	-159.0	mg/kg	13.25	8.33%
Sn 189.927†	-48.7	0.5686	mg/L	0.16013	61.56	mg/kg	17.338	28.16%
Sr 460.733†	11288.6	1.989	mg/L	0.0315	215.4	mg/kg	3.41	1.58%
Sr 407.771†	2709246.6	1.834	mg/L	0.0329	198.6	mg/kg	3.56	1.79%
Sr 421.552†	899389.6	1.855	mg/L	0.0331	200.9	mg/kg	3.58	1.78%
Ti 337.279†	78101.9	1.896	mg/L	0.0079	205.3	mg/kg	0.86	0.42%
Ti 334.940†	116855.9	1.918	mg/L	0.0145	207.6	mg/kg	1.57	0.76%
Ti 336.121†	80415.1	1.900	mg/L	0.0102	205.7	mg/kg	1.10	0.54%
Tl 351.924†	-0.0	-0.05418	mg/L	0.027155	-5.866	mg/kg	2.9402	50.12%
Tl 190.801†	96.4	-0.5598	mg/L	0.14502	-60.61	mg/kg	15.701	25.91%
Tl 276.787†	7439.9	6.322	mg/L	0.0889	684.4	mg/kg	9.62	1.41%
V 310.230†	4069.5	0.1077	mg/L	0.00280	11.66	mg/kg	0.303	2.60%
V 292.402†	2543.3	0.1513	mg/L	0.00125	16.38	mg/kg	0.135	0.83%
V 311.071†	2786.1	0.1093	mg/L	0.00340	11.84	mg/kg	0.369	3.11%
Zn 206.200†	1788.4	1.745	mg/L	0.0019	188.9	mg/kg	0.21	0.11%
Zn 213.857†	7534.2	2.060	mg/L	0.0076	223.1	mg/kg	0.83	0.37%
Zn 202.548†	3251.9	1.929	mg/L	0.0053	208.9	mg/kg	0.57	0.28%

Sequence No.: 54
Sample ID: test 3

Initial Sample Wt: 0.4755 g
Dilution: 1X

Autosampler Location: 413
Date Collected: 10/26/2009 1:11:49 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: test 3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155728.0	97.99	%	2.118				2.16%
Ag 328.068†	3100.0	0.1194	mg/L	0.00585	12.55	mg/kg	0.615	4.90%
Ag 338.289†	1380.5	0.1028	mg/L	0.00788	10.81	mg/kg	0.829	7.66%
Al 308.215†	115312.8	65.27	mg/L	0.263	6864	mg/kg	27.7	0.40%
Al 394.401†	210981.7	72.63	mg/L	0.305	7637	mg/kg	32.1	0.42%
Al 396.153†	473969.0	65.50	mg/L	1.363	6887	mg/kg	143.3	2.08%
As 188.979†	-109.2	2.460	mg/L	0.1778	258.6	mg/kg	18.70	7.23%
As 193.696†	133.4	0.07622	mg/L	0.040934	8.015	mg/kg	4.3043	53.70%
As 197.197†	-60.3	4.070	mg/L	0.3453	428.0	mg/kg	36.31	8.48%
B 208.889†	351.8	1.285	mg/L	0.0370	135.1	mg/kg	3.89	2.88%
B 249.677†	3603.4	1.180	mg/L	0.0220	124.1	mg/kg	2.31	1.86%
B 249.772†	10329.3	1.216	mg/L	0.0223	127.8	mg/kg	2.35	1.84%
Ba 233.527†	35341.1	5.420	mg/L	0.0177	569.9	mg/kg	1.86	0.33%
Ba 455.403†	2129248.9	5.862	mg/L	0.1210	616.4	mg/kg	12.72	2.06%
Ba 493.408†	2238995.9	5.887	mg/L	0.1266	619.1	mg/kg	13.31	2.15%
Be 234.861†	4865.5	0.05597	mg/L	0.000670	5.886	mg/kg	0.0705	1.20%
Be 313.042†	29618.5	0.05444	mg/L	0.000211	5.724	mg/kg	0.0221	0.39%
Be 313.107†	15205.8	0.05468	mg/L	0.000305	5.749	mg/kg	0.0321	0.56%
Ca 315.887†	14691781.9	1997	mg/L	48.9	210000	mg/kg	5146.1	2.45%
Ca 317.933†	23942673.7	1845	mg/L	46.0	194000	mg/kg	4835.4	2.49%
Cd 214.440†	3577.0	0.8154	mg/L	0.00873	85.75	mg/kg	0.918	1.07%
Cd 226.502†	3300.1	0.8708	mg/L	0.01581	91.57	mg/kg	1.662	1.81%
Cd 228.802†	3323.5	0.8078	mg/L	0.01239	84.94	mg/kg	1.303	1.53%
Ce 413.380†	708.2	0.1276	mg/L	0.00960	13.41	mg/kg	1.010	7.53%
Ce 413.764†	417.3	0.1192	mg/L	0.01236	12.53	mg/kg	1.300	10.37%
Ce 418.660†	301.0	0.1921	mg/L	0.00416	20.20	mg/kg	0.437	2.16%
Co 228.616†	1082.5	0.4636	mg/L	0.00819	48.75	mg/kg	0.861	1.77%
Co 230.786†	1563.4	0.3807	mg/L	0.01104	40.03	mg/kg	1.161	2.90%
Co 238.892†	3573.6	0.4179	mg/L	0.00773	43.94	mg/kg	0.813	1.85%
Cr 205.560†	2930.9	5.092	mg/L	0.0957	535.4	mg/kg	10.06	1.88%
Cr 267.716†	30108.8	4.811	mg/L	0.0327	505.8	mg/kg	3.44	0.68%
Cr 283.563†	104322.1	4.829	mg/L	0.0144	507.8	mg/kg	1.52	0.30%
Cu 224.700†	5186.9	-11.58	mg/L	0.078	-1218	mg/kg	8.2	0.67%
Cu 324.752†	179123.8	4.956	mg/L	0.0113	521.2	mg/kg	1.19	0.23%
Cu 327.393†	77617.7	4.986	mg/L	0.0158	524.3	mg/kg	1.66	0.32%
Fe 238.204†	984986.0	106.4	mg/L	2.16	11190	mg/kg	227.3	2.03%
Fe 239.562†	652958.6	106.8	mg/L	2.15	11230	mg/kg	226.3	2.01%
Fe 259.939†	1225912.5	107.0	mg/L	2.21	11250	mg/kg	232.9	2.07%
Fe 273.955†	193936.7	115.1	mg/L	0.47	12100	mg/kg	49.3	0.41%
K 766.490†	39832.3	8.913	mg/L	0.0403	937.2	mg/kg	4.24	0.45%
Li 610.362†	16266.3	-0.6514	mg/L	0.07046	-68.49	mg/kg	7.409	10.82%
Li 670.784†	66718.3	0.6231	mg/L	0.00105	65.52	mg/kg	0.110	0.17%
Mg 279.077†	211581.2	187.1	mg/L	0.74	19670	mg/kg	77.8	0.40%
Mg 280.271†	39827258.7	153.8	mg/L	3.63	16170	mg/kg	381.9	2.36%
Mg 285.213†	4926748.2	174.4	mg/L	3.69	18340	mg/kg	388.2	2.12%
Mn 257.610†	583360.1	12.11	mg/L	0.244	1274	mg/kg	25.7	2.02%
Mn 259.372†	798827.1	12.08	mg/L	0.246	1270	mg/kg	25.9	2.04%
Mn 260.568†	342789.6	11.97	mg/L	0.046	1259	mg/kg	4.8	0.38%
Mo 202.031†	330.4	0.8815	mg/L	0.01882	92.69	mg/kg	1.979	2.14%
Mo 203.845†	282.2	1.300	mg/L	0.0592	136.7	mg/kg	6.22	4.55%
Mo 204.597†	137.4	1.025	mg/L	0.0210	107.7	mg/kg	2.20	2.05%
Na 588.995†	253553.7	17.26	mg/L	0.451	1815	mg/kg	47.4	2.61%
Na 589.592†	141269.6	17.92	mg/L	0.056	1884	mg/kg	5.8	0.31%
Ni 221.648†	1690.9	1.512	mg/L	0.0471	159.0	mg/kg	4.95	3.11%
Ni 231.604†	4839.6	1.919	mg/L	0.0302	201.8	mg/kg	3.18	1.57%
Ni 232.003†	2589.9	2.059	mg/L	0.0326	216.5	mg/kg	3.42	1.58%
Pb 217.000†	434.6	5.980	mg/L	0.1208	628.8	mg/kg	12.71	2.02%
Pb 220.353†	2108.0	5.238	mg/L	0.0737	550.8	mg/kg	7.75	1.41%
Sb 206.836†	1.3	-0.06103	mg/L	0.070645	-6.417	mg/kg	7.4285	115.76%
Sb 217.582†	-31.9	-0.2338	mg/L	0.08809	-24.59	mg/kg	9.263	37.68%
Se 196.026†	27.6	0.8687	mg/L	0.15731	91.35	mg/kg	16.542	18.11%
Se 203.985†	-189.7	5.708	mg/L	0.1465	600.2	mg/kg	15.41	2.57%
Sn 235.485†	10900.2	-1.037	mg/L	0.0316	-109.0	mg/kg	3.33	3.05%
Sn 189.927†	3.4	1.439	mg/L	0.1083	151.4	mg/kg	11.39	7.53%
Sr 460.733†	19203.0	3.388	mg/L	0.0160	356.2	mg/kg	1.68	0.47%
Sr 407.771†	4550677.3	3.094	mg/L	0.0617	325.3	mg/kg	6.49	1.99%
Sr 421.552†	1548312.5	3.194	mg/L	0.0676	335.8	mg/kg	7.10	2.12%
Ti 337.279†	107020.0	2.598	mg/L	0.0120	273.2	mg/kg	1.26	0.46%

Ti 334.940†	163760.5	2.616 mg/L	0.0117	275.1 mg/kg	1.23	0.45%
Ti 336.121†	110576.4	2.598 mg/L	0.0053	273.2 mg/kg	0.56	0.20%
Tl 351.924†	-10.8	-0.08765 mg/L	0.023434	-9.217 mg/kg	2.4641	26.73%
Tl 190.801†	98.1	-0.7824 mg/L	0.06721	-82.27 mg/kg	7.068	8.59%
Tl 276.787†	8306.6	6.903 mg/L	0.1479	725.8 mg/kg	15.55	2.14%
V 310.230†	21509.2	0.5771 mg/L	0.00584	60.68 mg/kg	0.614	1.01%
V 292.402†	8758.6	0.6122 mg/L	0.00337	64.37 mg/kg	0.354	0.55%
V 311.071†	13511.4	0.5804 mg/L	0.00285	61.03 mg/kg	0.300	0.49%
Zn 206.200†	8593.2	8.956 mg/L	0.1079	941.7 mg/kg	11.35	1.21%
Zn 213.857†	34931.6	10.44 mg/L	0.071	1098 mg/kg	7.4	0.68%
Zn 202.548†	15998.7	9.716 mg/L	0.0908	1022 mg/kg	9.6	0.93%

Sequence No.: 55
Sample ID: blank

Autosampler Location: 201
Date Collected: 10/26/2009 1:13:19 PM
Data Type: Original

Initial Sample Wt: 0 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159804.9	100.6	%	2.36				2.35%
Ag 328.068†	36.4	0.00138	mg/L	0.000333	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	2.4	0.00023	mg/L	0.001707	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	47.2	0.02663	mg/L	0.009393	0.000	mg/kg	0.0000	0.00%
Al 394.401†	82.0	0.02453	mg/L	0.006032	0.000	mg/kg	0.0000	0.00%
Al 396.153†	262.9	0.03626	mg/L	0.014739	0.000	mg/kg	0.0000	0.00%
As 188.979†	-0.5	-0.01535	mg/L	0.020800	0.00000	mg/kg	0.000000	0.00%
As 193.696†	2.1	0.04673	mg/L	0.021814	0.000	mg/kg	0.0000	0.00%
As 197.197†	-0.1	-0.00101	mg/L	0.083605	0.00000	mg/kg	0.000000	0.00%
B 208.889†	0.5	0.00183	mg/L	0.016561	0.00000	mg/kg	0.000000	0.00%
B 249.677†	13.4	0.00446	mg/L	0.001196	0.000	mg/kg	0.0000	0.00%
B 249.772†	12.4	0.00168	mg/L	0.000824	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	5.5	0.00085	mg/L	0.000553	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	453.0	0.00125	mg/L	0.000295	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	539.9	0.00142	mg/L	0.000203	0.000	mg/kg	0.0000	0.00%
Be 234.861†	0.5	0.00000	mg/L	0.000067	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-30.9	-0.00005	mg/L	0.000058	0.00000	mg/kg	0.000000	0.00%
Be 313.107†	-28.8	-0.00011	mg/L	0.000023	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	5475.8	0.7442	mg/L	0.02234	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	9096.0	0.7008	mg/L	0.01889	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	7.7	0.00194	mg/L	0.009092	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	1.7	0.00044	mg/L	0.000613	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	5.1	0.00001	mg/L	0.000701	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	-24.2	-0.00516	mg/L	0.008964	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	47.0	0.00925	mg/L	0.006330	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	25.0	0.00464	mg/L	0.007940	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-0.8	-0.00035	mg/L	0.001371	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	4.5	0.00211	mg/L	0.007195	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	-0.4	-0.00033	mg/L	0.003062	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	1.8	0.00302	mg/L	0.002719	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	5.2	0.00083	mg/L	0.001069	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	22.0	0.00096	mg/L	0.000412	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	4.4	-0.04345	mg/L	0.020309	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	20.9	0.00057	mg/L	0.000839	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	34.2	0.00221	mg/L	0.000164	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	555.2	0.05996	mg/L	0.016093	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	357.0	0.05840	mg/L	0.015662	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	680.0	0.05935	mg/L	0.014922	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	109.0	0.06470	mg/L	0.016497	0.000	mg/kg	0.0000	0.00%
K 766.490†	116.8	0.02614	mg/L	0.019030	0.000	mg/kg	0.0000	0.00%
Li 610.362†	920.7	0.07171	mg/L	0.092613	0.00000	mg/kg	0.000000	0.00%
Li 670.784†	192.5	0.00180	mg/L	0.000715	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	83.9	0.07423	mg/L	0.012362	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	17292.0	0.06677	mg/L	0.001926	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	1997.9	0.07074	mg/L	0.016511	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	159.6	0.00331	mg/L	0.000617	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	231.8	0.00344	mg/L	0.000601	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	83.0	0.00290	mg/L	0.000553	0.000	mg/kg	0.0000	0.00%

Mo 202.031†	-1.3	-0.00415	mg/L	0.003357	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	4.1	0.02131	mg/L	0.011019	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	1.5	0.00691	mg/L	0.003344	0.000	mg/kg	0.0000	0.00%
Na 588.995†	32.7	0.00222	mg/L	0.067576	0.00000	mg/kg	0.000000	0.00%
Na 589.592†	59.7	0.00755	mg/L	0.019977	0.00000	mg/kg	0.000000	0.00%
Ni 221.648†	-6.0	-0.00544	mg/L	0.002231	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	-3.8	-0.00157	mg/L	0.000462	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	5.7	0.00450	mg/L	0.004765	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	-2.0	-0.02614	mg/L	0.046684	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	6.8	0.01758	mg/L	0.009619	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-1.7	-0.02123	mg/L	0.013192	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	-0.5	-0.00392	mg/L	0.012353	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-0.6	-0.01926	mg/L	0.064472	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	-1.0	-0.03597	mg/L	0.057220	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	10.9	0.00651	mg/L	0.004312	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	1.7	0.02658	mg/L	0.030110	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	-50.1	-0.00885	mg/L	0.015802	0.00000	mg/kg	0.000000	0.00%
Sr 407.771†	1462.1	0.00099	mg/L	0.000041	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	465.1	0.00096	mg/L	0.000189	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	-11.7	-0.00028	mg/L	0.000078	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	63.3	0.00101	mg/L	0.000158	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	55.7	0.00130	mg/L	0.000100	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	-8.1	-0.01301	mg/L	0.043514	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	2.2	0.08396	mg/L	0.040370	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	23.9	0.05266	mg/L	0.032704	0.000	mg/kg	0.0000	0.00%
V 310.230†	-149.2	-0.00408	mg/L	0.002544	0.000	mg/kg	0.0000	0.00%
V 292.402†	-14.1	-0.00092	mg/L	0.000186	0.000	mg/kg	0.0000	0.00%
V 311.071†	-6.2	-0.00029	mg/L	0.000477	0.00000	mg/kg	0.000000	0.00%
Zn 206.200†	6.5	0.00686	mg/L	0.001428	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	20.8	0.00630	mg/L	0.000465	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	5.5	0.00333	mg/L	0.001985	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 56
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 1:14:21 PM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158795.0	99.92	%	1.332				1.33%
Ag 328.068†	-11.3	-0.00035	mg/L	0.001167				331.13%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-2.9	-0.00026	mg/L	0.001277				486.25%
Al 308.215†	12.7	0.00720	mg/L	0.013791				191.66%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	14.6	0.00050	mg/L	0.006604				>999.9%
Al 396.153†	110.8	0.01543	mg/L	0.010987				71.21%
As 188.979†	-1.2	-0.03922	mg/L	0.053712				136.97%
As 193.696†	0.2	0.00370	mg/L	0.041525				>999.9%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-1.7	-0.07524	mg/L	0.042502				56.49%
B 208.889†	1.3	0.00528	mg/L	0.022170				420.25%
B 249.677†	14.2	0.00472	mg/L	0.003243				68.66%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	9.2	0.00135	mg/L	0.000383				28.44%
Ba 233.527†	0.3	0.00004	mg/L	0.001393				>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	-21.2	-0.00006	mg/L	0.000032				54.16%
Ba 493.408†	-4.2	-0.00001	mg/L	0.000160				>999.9%
Be 234.861†	8.3	0.00012	mg/L	0.000070				56.73%
Be 313.042†	-36.4	-0.00006	mg/L	0.000042				66.45%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-30.6	-0.00011	mg/L	0.000056				49.79%
Ca 315.887†	1355.9	0.1843	mg/L	0.14654				79.52%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	2277.5	0.1755	mg/L	0.14086				80.28%
Cd 214.440†	0.1	0.00002	mg/L	0.006052				>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	1.0	0.00027	mg/L	0.000493				184.52%

Cd 228.802†	2.2	0.00047 mg/L	0.001640	347.89%
Ce 413.380†	-12.5	-0.00265 mg/L	0.009662	364.53%
QC value within limits for Ce 413.380 Recovery = Not calculated				
Ce 413.764†	57.1	0.01123 mg/L	0.007642	68.05%
Ce 418.660†	11.9	0.00219 mg/L	0.008478	387.69%
Co 228.616†	-7.5	-0.00328 mg/L	0.002166	66.13%
Co 230.786†	5.8	0.00294 mg/L	0.005710	193.94%
Co 238.892†	-2.4	-0.00065 mg/L	0.001592	246.55%
QC value within limits for Co 238.892 Recovery = Not calculated				
Cr 205.560†	0.9	0.00154 mg/L	0.003221	209.38%
QC value within limits for Cr 205.560 Recovery = Not calculated				
Cr 267.716†	-5.9	-0.00094 mg/L	0.000914	97.16%
Cr 283.563†	4.8	0.00020 mg/L	0.000620	310.77%
Cu 224.700†	1.3	-0.01809 mg/L	0.050255	277.73%
QC value within limits for Cu 224.700 Recovery = Not calculated				
Cu 324.752†	-14.5	-0.00040 mg/L	0.000819	203.13%
Cu 327.393†	8.6	0.00055 mg/L	0.001933	350.68%
Fe 238.204†	111.5	0.01204 mg/L	0.010886	90.43%
Fe 239.562†	70.7	0.01157 mg/L	0.009829	84.98%
Fe 259.939†	141.6	0.01236 mg/L	0.010840	87.71%
Fe 273.955†	25.4	0.01507 mg/L	0.009285	61.63%
QC value within limits for Fe 273.955 Recovery = Not calculated				
K 766.490†	68.6	0.01534 mg/L	0.038027	247.91%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	1224.4	0.09615 mg/L	0.059950	62.35%
Li 670.784†	78.3	0.00073 mg/L	0.001984	271.29%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	28.3	0.02501 mg/L	0.013354	53.40%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	4159.5	0.01606 mg/L	0.012441	77.45%
Saturated within auto integration window (code 4)				
Mg 285.213†	451.6	0.01598 mg/L	0.011628	72.75%
Mn 257.610†	37.6	0.00078 mg/L	0.000364	46.66%
Mn 259.372†	56.1	0.00084 mg/L	0.000503	59.88%
Mn 260.568†	8.7	0.00030 mg/L	0.000563	184.54%
QC value within limits for Mn 260.568 Recovery = Not calculated				
Mo 202.031†	-0.2	-0.00063 mg/L	0.009026	>999.9%
Mo 203.845†	1.0	0.00507 mg/L	0.014492	286.09%
QC value within limits for Mo 203.845 Recovery = Not calculated				
Mo 204.597†	-0.0	0.00003 mg/L	0.005699	>999.9%
Na 588.995†	423.6	0.02884 mg/L	0.052620	182.44%
QC value within limits for Na 588.995 Recovery = Not calculated				
Na 589.592†	-22.4	-0.00284 mg/L	0.007832	275.65%
Ni 221.648†	-5.6	-0.00506 mg/L	0.002567	50.76%
QC value within limits for Ni 221.648 Recovery = Not calculated				
Ni 231.604†	-2.9	-0.00116 mg/L	0.001250	107.74%
Ni 232.003†	3.1	0.00253 mg/L	0.006508	257.02%
Pb 217.000†	-3.3	-0.04336 mg/L	0.057977	133.71%
Pb 220.353†	-0.7	-0.00197 mg/L	0.008682	440.16%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	-2.0	-0.02528 mg/L	0.009052	35.82%
QC value within limits for Sb 206.836 Recovery = Not calculated				
Sb 217.582†	-2.9	-0.02138 mg/L	0.024222	113.29%
Se 196.026†	-1.4	-0.04362 mg/L	0.083122	190.56%
QC value within limits for Se 196.026 Recovery = Not calculated				
Se 203.985†	1.4	0.06406 mg/L	0.048543	75.78%
Sn 235.485†	2.1	0.00079 mg/L	0.010718	>999.9%
Sn 189.927†	0.7	0.01068 mg/L	0.035520	332.59%
QC value within limits for Sn 189.927 Recovery = Not calculated				
Sr 460.733†	-46.5	-0.00823 mg/L	0.014285	173.65%
QC value within limits for Sr 460.733 Recovery = Not calculated				
Sr 407.771†	107.8	0.00007 mg/L	0.000061	91.66%
Sr 421.552†	15.4	0.00003 mg/L	0.000124	392.17%
Ti 337.279†	-20.7	-0.00050 mg/L	0.000801	159.07%
QC value within limits for Ti 337.279 Recovery = Not calculated				
Ti 334.940†	24.7	0.00038 mg/L	0.000189	49.56%
Ti 336.121†	26.8	0.00062 mg/L	0.000457	73.18%
Tl 351.924†	-10.3	-0.01649 mg/L	0.026208	158.91%
Tl 190.801†	1.4	0.05377 mg/L	0.051239	95.29%
QC value within limits for Tl 190.801 Recovery = Not calculated				
Tl 276.787†	20.0	0.04680 mg/L	0.016722	35.73%

V 310.230†	-129.3	-0.00353	mg/L	0.001923	54.48%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	-13.6	-0.00098	mg/L	0.000481	48.89%
V 311.071†	-17.5	-0.00078	mg/L	0.000748	96.38%
Zn 206.200†	2.8	0.00292	mg/L	0.000298	10.23%
Zn 213.857†	5.0	0.00151	mg/L	0.000573	37.89%
QC value within limits for Zn 213.857 Recovery = Not calculated					
Zn 202.548†	-1.7	-0.00106	mg/L	0.001140	107.49%

All analyte(s) passed QC.

==========

Sequence No.: 57
Sample ID: LCM1

Autosampler Location: 7
Date Collected: 10/26/2009 1:15:42 PM
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	164246.9	103.4	%	0.47				0.45%
Ag 328.068†	6827.9	0.2541	mg/L	0.00312				1.23%
QC value within limits for Ag 328.068 Recovery = 101.65%								
Ag 338.289†	2869.5	0.2656	mg/L	0.00145				0.55%
Al 308.215†	1719.6	0.9521	mg/L	0.00381				0.40%
QC value within limits for Al 308.215 Recovery = 95.21%								
Al 394.401†	3952.0	0.9816	mg/L	0.01893				1.93%
Al 396.153†	6751.2	0.9433	mg/L	0.01209				1.28%
As 188.979†	58.9	2.017	mg/L	0.0646				3.20%
As 193.696†	86.7	1.985	mg/L	0.0207				1.04%
QC value within limits for As 193.696 Recovery = 99.26%								
As 197.197†	46.1	1.993	mg/L	0.0797				4.00%
B 208.889†	247.9	0.9952	mg/L	0.00931				0.94%
B 249.677†	3121.7	1.036	mg/L	0.0064				0.62%
B 249.772†	6896.1	1.038	mg/L	0.0029				0.28%
QC value within limits for B 249.772 Recovery = 103.78%								
Ba 233.527†	6903.7	1.059	mg/L	0.0051				0.48%
QC value within limits for Ba 233.527 Recovery = 105.89%								
Ba 455.403†	362830.3	0.9990	mg/L	0.02325				2.33%
Ba 493.408†	378939.4	0.9965	mg/L	0.02307				2.32%
Be 234.861†	63968.2	0.9725	mg/L	0.00388				0.40%
Be 313.042†	512678.0	0.9590	mg/L	0.02331				2.43%
QC value within limits for Be 313.042 Recovery = 95.90%								
Be 313.107†	266034.4	0.9609	mg/L	0.02326				2.42%
Ca 315.887†	7770.4	1.053	mg/L	0.0646				6.14%
QC value within limits for Ca 315.887 Recovery = 105.29%								
Ca 317.933†	12816.9	0.9869	mg/L	0.06245				6.33%
Cd 214.440†	3877.0	0.9809	mg/L	0.00249				0.25%
QC value within limits for Cd 214.440 Recovery = 98.09%								
Cd 226.502†	3602.4	0.9622	mg/L	0.00321				0.33%
Cd 228.802†	3480.9	0.8806	mg/L	0.00380				0.43%
Ce 413.380†	4670.1	0.9919	mg/L	0.00723				0.73%
Ce 413.764†	4972.9	0.9784	mg/L	0.02686				2.75%
Ce 418.660†	5435.7	0.9928	mg/L	0.00818				0.82%
Co 228.616†	2207.5	0.9631	mg/L	0.00450				0.47%
Co 230.786†	1863.0	0.9483	mg/L	0.00171				0.18%
Co 238.892†	3875.9	0.9513	mg/L	0.00132				0.14%
QC value within limits for Co 238.892 Recovery = 95.13%								
Cr 205.560†	586.0	1.001	mg/L	0.0028				0.28%
QC value within limits for Cr 205.560 Recovery = 100.14%								
Cr 267.716†	6577.8	1.054	mg/L	0.0044				0.42%
Cr 283.563†	20200.4	0.9586	mg/L	0.00544				0.57%
Cu 224.700†	999.1	-24.87	mg/L	0.606				2.44%
QC value less than the lower limit for Cu 224.700 Recovery = -2486.85%								
Cu 324.752†	34609.9	0.9587	mg/L	0.00525				0.55%
Cu 327.393†	15152.5	0.9729	mg/L	0.00776				0.80%
Fe 238.204†	9100.8	0.9848	mg/L	0.00540				0.55%
Fe 239.562†	6552.2	1.069	mg/L	0.0052				0.48%
Fe 259.939†	11160.4	0.9740	mg/L	0.00648				0.67%
QC value within limits for Fe 259.939 Recovery = 97.40%								
Fe 273.955†	1840.6	1.084	mg/L	0.0054				0.50%
K 766.490†	20994.9	4.698	mg/L	0.0790				1.68%

```
   QC value within limits for K 766.490  Recovery = 93.96%
Li 610.362†            11943.4      0.9292 mg/L       0.04080                                  4.39%
   QC value within limits for Li 610.362  Recovery = 92.92%
Li 670.784†           104586.1      0.9768 mg/L       0.02299                                  2.35%
Mg 279.077†             1176.5       1.043 mg/L        0.0150                                  1.44%
   QC value within limits for Mg 279.077  Recovery = 104.25%
Mg 280.271†           244149.7      0.9418 mg/L       0.02694                                  2.86%
Mg 285.213†            26264.0      0.9317 mg/L       0.00856                                  0.92%
Mn 257.610†            48983.1       1.017 mg/L        0.0049                                  0.48%
Mn 259.372†            66819.2       1.020 mg/L        0.0044                                  0.43%
Mn 260.568†            26931.2      0.9404 mg/L       0.00366                                  0.39%
   QC value within limits for Mn 260.568  Recovery = 94.04%
Mo 202.031†                1.3     0.00419 mg/L      0.009215                                220.09%
Mo 203.845†                5.1     0.02536 mg/L      0.014072                                 55.50%
Mo 204.597†                1.1     0.00616 mg/L      0.005130                                 83.32%
Na 588.995†            13022.8      0.8866 mg/L       0.04270                                  4.82%
Na 589.592†             7829.7      0.9931 mg/L       0.00442                                  0.45%
Ni 221.648†             1079.7      0.9702 mg/L       0.00404                                  0.42%
   QC value within limits for Ni 221.648  Recovery = 97.02%
Ni 231.604†             2379.2      0.9707 mg/L       0.00312                                  0.32%
Ni 232.003†             1230.5      0.9243 mg/L       0.00328                                  0.36%
Pb 217.000†              154.0       2.001 mg/L        0.0291                                  1.45%
Pb 220.353†              762.9       1.992 mg/L        0.0009                                  0.05%
   QC value within limits for Pb 220.353  Recovery = 99.58%
Sb 206.836†               -0.8    -0.02466 mg/L      0.020346                                 82.50%
Sb 217.582†               -1.6    -0.01147 mg/L      0.036537                                318.52%
Se 196.026†               29.7      0.9368 mg/L       0.05783                                  6.17%
   QC value within limits for Se 196.026  Recovery = 93.68%
Se 203.985†               31.6      0.9132 mg/L       0.08492                                  9.30%
Sn 235.485†               89.9    -0.01829 mg/L      0.010722                                 58.61%
Sn 189.927†               -0.0     0.00012 mg/L      0.042624                                >999.9%
Sr 460.733†             5563.0      0.9742 mg/L       0.01387                                  1.42%
   QC value within limits for Sr 460.733  Recovery = 97.42%
Sr 407.771†          1450247.3      0.9927 mg/L       0.02312                                  2.33%
Sr 421.552†           479751.4      0.9896 mg/L       0.02251                                  2.27%
Ti 337.279†               14.3     0.00050 mg/L      0.001341                                268.13%
Ti 334.940†               25.0     0.00015 mg/L      0.000231                                150.28%
Ti 336.121†               23.7     0.00018 mg/L      0.000132                                 71.27%
Tl 351.924†             3257.7       4.481 mg/L        0.0512                                  1.14%
   QC value less than the lower limit for Tl 351.924  Recovery = 89.61%
Tl 190.801†              131.9       5.131 mg/L        0.0282                                  0.55%
   QC value within limits for Tl 190.801  Recovery = 102.62%
Tl 276.787†             1490.7       3.543 mg/L        0.0221                                  0.62%
V 310.230†             34406.4      0.9390 mg/L       0.00253                                  0.27%
   QC value within limits for V 310.230  Recovery = 93.90%
V 292.402†             13320.5      0.9538 mg/L       0.00697                                  0.73%
V 311.071†             20981.2      0.9497 mg/L       0.00452                                  0.48%
Zn 206.200†              910.0      0.9651 mg/L       0.00157                                  0.16%
Zn 213.857†             3353.7       1.024 mg/L        0.0017                                  0.17%
   QC value within limits for Zn 213.857  Recovery = 102.37%
Zn 202.548†             1719.5       1.048 mg/L        0.0059                                  0.56%
QC Failed.  Continue with analysis.
```

==========

Sequence No.: 58 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 1:16:47 PM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	157172.6	98.90	%	0.575				0.58%
Ag 328.068†	2.5	0.00003	mg/L	0.000422				>999.9%
Ag 338.289†	-203.8	-0.00808	mg/L	0.002877				35.59%
Al 308.215†	50.1	0.00652	mg/L	0.012257				187.99%
Al 394.401†	22.3	0.00703	mg/L	0.002951				41.94%
Al 396.153†	361.3	0.01774	mg/L	0.003227				18.19%
As 188.979†	-1.4	-0.04311	mg/L	0.023480				54.46%
As 193.696†	0.5	0.01211	mg/L	0.033569				277.27%
As 197.197†	-0.8	-0.03384	mg/L	0.116746				345.00%

B 208.889†	4.7	0.01897	mg/L	0.022411	118.14%
B 249.677†	72.6	0.02480	mg/L	0.002034	8.20%
B 249.772†	140.3	0.02148	mg/L	0.001254	5.84%
Ba 233.527†	-102.4	-0.01387	mg/L	0.000458	3.30%
Ba 455.403†	87.2	0.00024	mg/L	0.000204	84.86%
Ba 493.408†	119.4	0.00031	mg/L	0.000470	149.60%
Be 234.861†	5.1	0.00021	mg/L	0.000089	43.21%
Be 313.042†	49.1	0.00008	mg/L	0.000056	68.13%
Be 313.107†	86.1	0.00010	mg/L	0.000046	44.49%
Ca 315.887†	545.4	0.07301	mg/L	0.021803	29.86%
Ca 317.933†	901.6	0.06947	mg/L	0.020683	29.78%
Cd 214.440†	-9.3	-0.00043	mg/L	0.010455	>999.9%
Cd 226.502†	0.6	-0.00004	mg/L	0.000421	>999.9%
Cd 228.802†	3.8	0.00067	mg/L	0.001770	262.66%
Ce 413.380†	-11.9	-0.00253	mg/L	0.026915	>999.9%
Ce 413.764†	3.4	0.00328	mg/L	0.014866	453.73%
Ce 418.660†	65.7	0.01505	mg/L	0.012798	85.06%
Co 228.616†	-3.5	-0.00290	mg/L	0.001395	48.04%
Co 230.786†	23.5	0.00690	mg/L	0.003427	49.69%
Co 238.892†	-1.1	0.00110	mg/L	0.001429	129.73%
Cr 205.560†	-0.1	-0.00105	mg/L	0.004176	397.82%
Cr 267.716†	9.3	0.00109	mg/L	0.001137	104.11%
Cr 283.563†	1.6	0.00023	mg/L	0.000384	165.33%
Cu 224.700†	3.4	-0.02695	mg/L	0.038480	142.77%
Cu 324.752†	-11.3	-0.00068	mg/L	0.000716	106.03%
Cu 327.393†	1.2	0.00090	mg/L	0.000334	37.11%
Fe 238.204†	75.0	0.00809	mg/L	0.000931	11.50%
Fe 239.562†	42.3	0.00736	mg/L	0.001793	24.36%
Fe 259.939†	90.6	0.00791	mg/L	0.001747	22.10%
Fe 273.955†	7.2	0.00709	mg/L	0.001732	24.44%
K 766.490†	140.6	0.03145	mg/L	0.031816	101.15%
Li 610.362†	1836.5	0.1400	mg/L	0.02806	20.04%
Li 670.784†	114.3	0.00107	mg/L	0.001404	131.53%
Mg 279.077†	15.7	0.01801	mg/L	0.001527	8.48%
Mg 280.271†	1691.5	0.00653	mg/L	0.001766	27.03%
Mg 285.213†	182.2	0.00645	mg/L	0.001817	28.16%
Mn 257.610†	28.0	0.00058	mg/L	0.000053	9.16%
Mn 259.372†	370.4	0.00066	mg/L	0.000281	42.54%
Mn 260.568†	21.6	0.00075	mg/L	0.000509	67.46%
Mo 202.031†	326.1	1.015	mg/L	0.0061	0.60%
Mo 203.845†	201.6	1.045	mg/L	0.0312	2.98%
QC value within limits for Mo 203.845 Recovery = 104.46%					
Mo 204.597†	215.4	1.001	mg/L	0.0024	0.24%
Na 588.995†	1581.6	0.1077	mg/L	0.02395	22.24%
Na 589.592†	323.6	0.03836	mg/L	0.006069	15.82%
Ni 221.648†	-10.9	-0.00983	mg/L	0.003936	40.04%
Ni 231.604†	0.0	-0.00081	mg/L	0.003062	378.14%
Ni 232.003†	2.8	-0.00375	mg/L	0.001422	37.89%
Pb 217.000†	1.8	0.02300	mg/L	0.020745	90.18%
Pb 220.353†	3.4	0.00889	mg/L	0.005289	59.53%
Sb 206.836†	162.3	2.005	mg/L	0.0282	1.41%
QC value within limits for Sb 206.836 Recovery = 100.25%					
Sb 217.582†	279.3	2.045	mg/L	0.0684	3.34%
Se 196.026†	-0.2	-0.00775	mg/L	0.032026	413.10%
Se 203.985†	3.4	0.01200	mg/L	0.041395	344.82%
Sn 235.485†	1007.9	1.523	mg/L	0.0070	0.46%
Sn 189.927†	353.7	5.324	mg/L	0.0679	1.28%
QC value within limits for Sn 189.927 Recovery = 106.48%					
Sr 460.733†	-10.5	-0.00163	mg/L	0.012946	796.55%
Sr 407.771†	432.3	0.00029	mg/L	0.000155	52.63%
Sr 421.552†	125.7	0.00026	mg/L	0.000232	89.54%
Ti 337.279†	39404.7	0.9564	mg/L	0.03164	3.31%
QC value within limits for Ti 337.279 Recovery = 95.64%					
Ti 334.940†	65228.5	0.9539	mg/L	0.03282	3.44%
Ti 336.121†	41608.3	0.9602	mg/L	0.03190	3.32%
Tl 351.924†	-9.1	-0.01750	mg/L	0.039725	226.99%
Tl 190.801†	2.8	0.1078	mg/L	0.08648	80.25%
Tl 276.787†	15.9	0.03729	mg/L	0.018360	49.24%
V 310.230†	-72.7	-0.00241	mg/L	0.001536	63.64%
V 292.402†	-221.4	-0.00111	mg/L	0.001707	153.53%
V 311.071†	326.0	0.00098	mg/L	0.000774	79.01%

Zn 206.200†	6.3	0.00669	mg/L	0.000752			11.24%
Zn 213.857†	6.3	0.00231	mg/L	0.001141			49.37%
Zn 202.548†	3.2	0.00194	mg/L	0.001114			57.58%

All analyte(s) passed QC.

==========

Sequence No.: 59 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 1:17:47 PM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160567.9	101.0	%	2.10				2.08%
Ag 328.068†	-160.3	0.00067	mg/L	0.001887				280.95%
Ag 338.289†	4.2	0.00034	mg/L	0.000291				85.33%
Al 308.215†	168132.4	95.22	mg/L	1.580				1.66%
QC value within limits for Al 308.215 Recovery = 95.22%								
Al 394.401†	270402.9	94.10	mg/L	2.299				2.44%
Al 396.153†	650156.6	90.86	mg/L	2.217				2.44%
As 188.979†	-18.9	-0.3730	mg/L	0.06345				17.01%
As 193.696†	4.2	0.07757	mg/L	0.040370				52.05%
As 197.197†	-4.8	-0.03915	mg/L	0.008367				21.37%
B 208.889†	25.9	0.04635	mg/L	0.019379				41.81%
B 249.677†	79.0	0.00967	mg/L	0.002508				25.93%
B 249.772†	2123.7	0.01847	mg/L	0.000572				3.10%
Ba 233.527†	23.8	-0.00109	mg/L	0.000566				51.78%
Ba 455.403†	-87.8	-0.00024	mg/L	0.000428				177.08%
Ba 493.408†	122.2	-0.00024	mg/L	0.000322				133.69%
Be 234.861†	1014.0	-0.00055	mg/L	0.000367				66.15%
Be 313.042†	-53.8	-0.00008	mg/L	0.000019				24.90%
Be 313.107†	-34.3	-0.00012	mg/L	0.000030				24.88%
Ca 315.887†	684953.8	93.09	mg/L	2.006				2.16%
QC value within limits for Ca 315.887 Recovery = 93.09%								
Ca 317.933†	1144364.6	88.17	mg/L	1.792				2.03%
Cd 214.440†	72.3	-0.00221	mg/L	0.017788				805.22%
Cd 226.502†	26.6	-0.00275	mg/L	0.001610				58.54%
Cd 228.802†	7.1	-0.00082	mg/L	0.002013				246.54%
Ce 413.380†	80.8	-0.00294	mg/L	0.011688				397.09%
Ce 413.764†	-109.5	0.00474	mg/L	0.018550				391.10%
Ce 418.660†	7.0	0.00747	mg/L	0.005519				73.88%
Co 228.616†	0.2	-0.00082	mg/L	0.001579				191.87%
Co 230.786†	233.7	0.00866	mg/L	0.008992				103.86%
Co 238.892†	1376.3	-0.01771	mg/L	0.001734				9.79%
Cr 205.560†	-7.5	-0.00895	mg/L	0.003529				39.42%
Cr 267.716†	17.8	0.00430	mg/L	0.001363				31.68%
Cr 283.563†	2853.1	0.00432	mg/L	0.000962				22.27%
Cu 224.700†	149.6	-0.04810	mg/L	0.012361				25.70%
Cu 324.752†	98.4	-0.00042	mg/L	0.000558				132.14%
Cu 327.393†	34.3	0.00217	mg/L	0.001342				61.94%
Fe 238.204†	845569.7	91.32	mg/L	2.078				2.28%
Fe 239.562†	561003.2	91.73	mg/L	1.917				2.09%
Fe 259.939†	1039278.7	90.70	mg/L	2.059				2.27%
Fe 273.955†	170471.2	101.2	mg/L	1.40				1.38%
QC value within limits for Fe 273.955 Recovery = 101.16%								
K 766.490†	404757.3	90.57	mg/L	2.165				2.39%
QC value within limits for K 766.490 Recovery = 90.57%								
Li 610.362†	1575.7	-0.05021	mg/L	0.075796				150.97%
Li 670.784†	157.8	0.00147	mg/L	0.000462				31.38%
Mg 279.077†	65494.3	57.86	mg/L	0.743				1.28%
QC value within limits for Mg 279.077 Recovery = 96.43%								
Mg 280.271†	13876106.6	53.57	mg/L	1.566				2.92%
Mg 285.213†	1481985.9	52.47	mg/L	1.085				2.07%
Mn 257.610†	127.8	0.00075	mg/L	0.000405				54.27%
Mn 259.372†	7325.7	0.00169	mg/L	0.001027				60.92%
Saturated within auto integration window (code 4)								
Mn 260.568†	137.9	-0.00098	mg/L	0.000067				6.87%
Mo 202.031†	-1.2	0.00302	mg/L	0.008400				277.81%
Mo 203.845†	39.6	0.1547	mg/L	0.02344				15.16%
Mo 204.597†	-7.8	-0.01835	mg/L	0.010407				56.71%

Na 588.995†	1360034.7	92.60	mg/L	2.279	2.46%
Na 589.592†	735627.3	93.31	mg/L	2.208	2.37%
QC value within limits for Na 589.592 Recovery = 93.31%					
Ni 221.648†	9.9	0.00238	mg/L	0.001358	57.08%
Ni 231.604†	18.1	0.00473	mg/L	0.005200	110.05%
Ni 232.003†	-108.4	-0.00243	mg/L	0.005407	222.05%
Pb 217.000†	22.6	-0.05078	mg/L	0.040047	78.86%
Pb 220.353†	6.6	0.03652	mg/L	0.017740	48.58%
Sb 206.836†	-1.9	-0.02363	mg/L	0.021073	89.16%
Sb 217.582†	5.3	0.03887	mg/L	0.030854	79.38%
Se 196.026†	0.0	0.00146	mg/L	0.067663	>999.9%
Se 203.985†	-53.4	-1.576	mg/L	0.3418	21.68%
Sn 235.485†	9886.1	-0.4983	mg/L	0.06878	13.80%
Saturated within auto integration window (code 4)					
Sn 189.927†	-12.5	-0.1235	mg/L	0.04766	38.58%
Sr 460.733†	-17.2	0.00148	mg/L	0.020213	>999.9%
Sr 407.771†	1513.7	0.00000	mg/L	0.000033	>999.9%
Sr 421.552†	581.6	0.00120	mg/L	0.000300	25.01%
Ti 337.279†	32.0	0.00117	mg/L	0.000980	84.06%
Ti 334.940†	-820.0	-0.00161	mg/L	0.000333	20.72%
Ti 336.121†	-82.6	0.00018	mg/L	0.000468	257.25%
Tl 351.924†	-9.6	-0.03307	mg/L	0.012768	38.61%
Tl 190.801†	12.5	0.3033	mg/L	0.08606	28.38%
Tl 276.787†	2849.0	2.809	mg/L	0.1594	5.67%
V 310.230†	-342.6	-0.00935	mg/L	0.001863	19.92%
V 292.402†	268.9	-0.00173	mg/L	0.000783	45.12%
V 311.071†	-333.2	-0.01706	mg/L	0.000814	4.77%
Zn 206.200†	20.2	0.01384	mg/L	0.003584	25.89%
Zn 213.857†	151.2	0.02611	mg/L	0.001293	4.95%
Zn 202.548†	35.0	0.01816	mg/L	0.000706	3.89%

All analyte(s) passed QC.

Analysis Begun

Start Time: 10/26/2009 2:02:40 PM
Plasma On Time: 10/26/2009 9:50:10 AM
Logged In Analyst: Kswan2
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF dils.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

Sequence No.: 1
Sample ID: blank
Autosampler Location: 10
Date Collected: 10/26/2009 2:02:40 PM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161407.3	101.6	%	1.21				1.19%
Ag 328.068†	-17.1	-0.00055	mg/L	0.000161				29.30%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-19.1	-0.00186	mg/L	0.001603				86.29%
Al 308.215†	5.2	0.00295	mg/L	0.006502				220.68%
Al 394.401†	59.5	0.01507	mg/L	0.004960				32.91%
Al 396.153†	197.9	0.02766	mg/L	0.004672				16.89%
As 188.979†	-0.8	-0.02592	mg/L	0.052496				202.55%
As 193.696†	0.9	0.02121	mg/L	0.036806				173.54%
As 197.197†	-1.9	-0.08183	mg/L	0.074215				90.70%
B 208.889†	-2.2	-0.00896	mg/L	0.019419				216.68%
B 249.677†	10.7	0.00357	mg/L	0.002343				65.70%
B 249.772†	-7.4	-0.00117	mg/L	0.001204				102.91%
Ba 233.527†	0.8	0.00013	mg/L	0.000785				623.82%
Ba 455.403†	-53.0	-0.00015	mg/L	0.000240				164.51%
Ba 493.408†	-52.2	-0.00014	mg/L	0.000122				88.99%
Be 234.861†	3.0	0.00004	mg/L	0.000068				159.90%
Be 313.042†	-44.8	-0.00008	mg/L	0.000053				67.05%
Be 313.107†	-17.9	-0.00007	mg/L	0.000083				123.63%
Ca 315.887†	173.6	0.02360	mg/L	0.002146				9.09%
Ca 317.933†	300.6	0.02316	mg/L	0.001237				5.34%
Cd 214.440†	-9.2	-0.00235	mg/L	0.003825				162.85%
Cd 226.502†	1.6	0.00043	mg/L	0.000559				131.27%
Cd 228.802†	0.2	-0.00054	mg/L	0.001384				255.43%
Ce 413.380†	69.4	0.01473	mg/L	0.002507				17.02%
Ce 413.764†	71.1	0.01398	mg/L	0.002126				15.21%
Ce 418.660†	40.3	0.00737	mg/L	0.019586				265.88%
Co 228.616†	-5.2	-0.00227	mg/L	0.000658				28.96%
Co 230.786†	-0.7	-0.00037	mg/L	0.005157				>999.9%
Co 238.892†	-0.5	-0.00019	mg/L	0.002081				>999.9%
Cr 205.560†	-0.4	-0.00076	mg/L	0.007024				921.62%
Cr 267.716†	-3.4	-0.00054	mg/L	0.001697				316.49%
Cr 283.563†	-8.0	-0.00042	mg/L	0.000506				121.04%
Cu 224.700†	2.8	-0.00764	mg/L	0.013593				177.92%
Cu 324.752†	-31.1	-0.00086	mg/L	0.000382				44.24%
Cu 327.393†	2.9	0.00019	mg/L	0.002245				>999.9%
Fe 238.204†	159.4	0.01721	mg/L	0.016774				97.48%
Fe 239.562†	103.4	0.01691	mg/L	0.016549				97.84%
Fe 259.939†	190.7	0.01664	mg/L	0.016398				98.54%
Fe 273.955†	29.4	0.01745	mg/L	0.014968				85.77%
K 766.490†	96.3	0.02154	mg/L	0.035009				162.54%
Li 610.362†	628.6	0.04942	mg/L	0.064961				131.44%
Li 670.784†	41.6	0.00039	mg/L	0.000608				156.33%
Mg 279.077†	12.9	0.01140	mg/L	0.007962				69.86%
Mg 280.271†	650.7	0.00252	mg/L	0.000110				4.37%
Mg 285.213†	99.7	0.00353	mg/L	0.000128				3.64%
Mn 257.610†	-0.1	0.00000	mg/L	0.000151				>999.9%
Mn 259.372†	14.4	0.00020	mg/L	0.000138				68.23%
Mn 260.568†	-5.9	-0.00021	mg/L	0.000123				59.80%

Mo 202.031†	-0.0	-0.00005	mg/L	0.005693	>999.9%
Mo 203.845†	3.3	0.01716	mg/L	0.002085	12.15%
Mo 204.597†	-0.1	-0.00034	mg/L	0.005602	>999.9%
Na 588.995†	-186.5	-0.01270	mg/L	0.073352	577.74%
Na 589.592†	8.7	0.00110	mg/L	0.010441	946.43%
Ni 221.648†	-0.4	-0.00036	mg/L	0.001249	351.21%
Ni 231.604†	-4.7	-0.00190	mg/L	0.002781	146.13%
Ni 232.003†	-2.5	-0.00188	mg/L	0.002089	110.87%
Pb 217.000†	-0.3	-0.00417	mg/L	0.084787	>999.9%
Pb 220.353†	4.7	0.01240	mg/L	0.012380	99.87%
Sb 206.836†	-3.0	-0.03693	mg/L	0.014563	39.44%
Sb 217.582†	-0.2	-0.00172	mg/L	0.017015	987.03%
Se 196.026†	-2.0	-0.06195	mg/L	0.073682	118.94%
Se 203.985†	0.6	0.02844	mg/L	0.117012	411.37%
Sn 235.485†	3.7	0.00281	mg/L	0.014006	498.09%
Sn 189.927†	2.4	0.03683	mg/L	0.032957	89.49%
Sr 460.733†	6.4	0.00106	mg/L	0.014601	>999.9%
Sr 407.771†	415.6	0.00028	mg/L	0.000036	12.88%
Sr 421.552†	37.1	0.00008	mg/L	0.000094	123.33%
Ti 337.279†	-10.2	-0.00025	mg/L	0.000780	315.05%
Ti 334.940†	0.6	0.00001	mg/L	0.000182	>999.9%
Ti 336.121†	-6.6	-0.00015	mg/L	0.000180	119.68%
Tl 351.924†	-2.0	-0.00503	mg/L	0.010438	207.36%
Tl 190.801†	0.7	0.02700	mg/L	0.013474	49.90%
Tl 276.787†	11.9	0.02815	mg/L	0.011803	41.93%
V 310.230†	-140.4	-0.00384	mg/L	0.001757	45.70%
V 292.402†	-4.6	-0.00034	mg/L	0.000499	144.85%
V 311.071†	-14.2	-0.00062	mg/L	0.000533	86.66%
Zn 206.200†	2.6	0.00272	mg/L	0.001261	46.41%
Zn 213.857†	-0.9	-0.00028	mg/L	0.000645	232.00%
Zn 202.548†	-3.0	-0.00186	mg/L	0.001268	68.30%

All analyte(s) passed QC.

==========

Sequence No.: 2
Sample ID: 0909005-01

Initial Sample Wt: 0.4776 g
Dilution: 25X

Autosampler Location: 205
Date Collected: 10/26/2009 2:03:40 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159887.8	100.6	%	1.24				1.23%
Ag 328.068†	10.7	0.00056	mg/L	0.002471	1.470	mg/kg	6.4682	439.90%
Ag 338.289†	2.8	0.00119	mg/L	0.002950	3.112	mg/kg	7.7206	248.08%
Al 308.215†	3864.4	2.189	mg/L	0.0173	5730	mg/kg	45.2	0.79%
Al 394.401†	6405.3	2.184	mg/L	0.0264	5715	mg/kg	69.0	1.21%
Al 396.153†	15147.5	2.078	mg/L	0.0123	5440	mg/kg	32.2	0.59%
As 188.979†	-24.6	-0.5023	mg/L	0.02751	-1315	mg/kg	72.0	5.48%
As 193.696†	12.4	0.1295	mg/L	0.00824	338.9	mg/kg	21.55	6.36%
As 197.197†	-12.0	-0.1944	mg/L	0.01601	-508.8	mg/kg	41.91	8.24%
B 208.889†	11.7	0.03222	mg/L	0.018858	84.33	mg/kg	49.356	58.53%
B 249.677†	35.2	0.01127	mg/L	0.002320	29.50	mg/kg	6.072	20.58%
B 249.772†	132.2	0.01275	mg/L	0.000234	33.38	mg/kg	0.614	1.84%
Ba 233.527†	195.4	0.02979	mg/L	0.000612	77.98	mg/kg	1.603	2.06%
Ba 455.403†	11102.9	0.03057	mg/L	0.000173	80.01	mg/kg	0.452	0.57%
Ba 493.408†	11562.2	0.03039	mg/L	0.000113	79.54	mg/kg	0.295	0.37%
Be 234.861†	17.9	-0.00011	mg/L	0.000111	-0.3004	mg/kg	0.28985	96.48%
Be 313.042†	85.3	0.00015	mg/L	0.000066	0.4003	mg/kg	0.17329	43.29%
Be 313.107†	50.8	0.00016	mg/L	0.000067	0.4305	mg/kg	0.17447	40.53%
Ca 315.887†	817393.6	111.1	mg/L	3.36	290700	mg/kg	8795.0	3.03%
Ca 317.933†	1362079.7	104.9	mg/L	3.07	274700	mg/kg	8031.5	2.92%
Cd 214.440†	60.5	0.01043	mg/L	0.004898	27.29	mg/kg	12.819	46.98%
Cd 226.502†	2.1	0.00044	mg/L	0.001205	1.143	mg/kg	3.1537	275.82%
Cd 228.802†	-3.3	-0.00901	mg/L	0.001094	-23.59	mg/kg	2.864	12.14%
Ce 413.380†	23.1	0.00443	mg/L	0.004340	11.60	mg/kg	11.359	97.93%
Ce 413.764†	32.7	0.00728	mg/L	0.018475	19.05	mg/kg	48.355	253.80%
Ce 418.660†	29.9	0.01279	mg/L	0.015622	33.46	mg/kg	40.886	122.18%
Co 228.616†	1.1	0.00030	mg/L	0.000400	0.7737	mg/kg	1.04684	135.30%

Co 230.786†	76.1	0.01742 mg/L	0.002554	45.60 mg/kg	6.685	14.66%
Co 238.892†	68.4	0.00492 mg/L	0.001349	12.87 mg/kg	3.530	27.43%
Cr 205.560†	-4.4	-0.00283 mg/L	0.006381	-7.399 mg/kg	16.7007	225.72%
Cr 267.716†	48.3	0.00459 mg/L	0.001122	12.02 mg/kg	2.937	24.42%
Cr 283.563†	37.1	0.00172 mg/L	0.000105	4.489 mg/kg	0.2744	6.11%
Cu 224.700†	10.3	-0.09865 mg/L	0.031792	-258.2 mg/kg	83.21	32.23%
Cu 324.752†	140.3	0.00386 mg/L	0.000557	10.10 mg/kg	1.457	14.42%
Cu 327.393†	99.3	0.00630 mg/L	0.001216	16.49 mg/kg	3.183	19.30%
Fe 238.204†	19915.8	2.151 mg/L	0.0077	5629 mg/kg	20.1	0.36%
Fe 239.562†	13198.7	2.162 mg/L	0.0141	5658 mg/kg	36.9	0.65%
Fe 259.939†	24471.3	2.136 mg/L	0.0099	5590 mg/kg	26.0	0.47%
Fe 273.955†	4050.5	2.404 mg/L	0.0119	6291 mg/kg	31.2	0.50%
K 766.490†	665.8	0.1490 mg/L	0.05904	389.9 mg/kg	154.52	39.63%
Li 610.362†	2105.9	0.06643 mg/L	0.065655	173.9 mg/kg	171.84	98.84%
Li 670.784†	423.4	0.00395 mg/L	0.001102	10.35 mg/kg	2.885	27.88%
Mg 279.077†	29406.0	26.01 mg/L	0.185	68080 mg/kg	484.0	0.71%
Mg 280.271†	6695932.2	25.85 mg/L	0.724	67660 mg/kg	1895.1	2.80%
Mg 285.213†	681790.7	24.14 mg/L	0.682	63180 mg/kg	1785.7	2.83%
Mn 257.610†	8480.7	0.1755 mg/L	0.00042	459.3 mg/kg	1.09	0.24%
Saturated within auto integration window (code 4)						
Mn 259.372†	10561.0	0.1585 mg/L	0.00100	414.8 mg/kg	2.61	0.63%
Mn 260.568†	4627.4	0.1610 mg/L	0.00044	421.3 mg/kg	1.14	0.27%
Mo 202.031†	8.0	0.01609 mg/L	0.014385	42.12 mg/kg	37.649	89.39%
Mo 203.845†	18.7	0.07421 mg/L	0.006492	194.2 mg/kg	16.99	8.75%
Mo 204.597†	-13.8	-0.04307 mg/L	0.012968	-112.7 mg/kg	33.94	30.11%
Na 588.995†	3716.6	0.2530 mg/L	0.03434	662.3 mg/kg	89.88	13.57%
Na 589.592†	1529.5	0.1942 mg/L	0.00763	508.2 mg/kg	19.97	3.93%
Ni 221.648†	5.7	0.00496 mg/L	0.001813	12.99 mg/kg	4.746	36.54%
Ni 231.604†	19.1	0.00463 mg/L	0.001013	12.12 mg/kg	2.652	21.89%
Ni 232.003†	-20.9	-0.00709 mg/L	0.003184	-18.55 mg/kg	8.334	44.93%
Pb 217.000†	-2.5	-0.00619 mg/L	0.039881	-16.21 mg/kg	104.379	644.05%
Pb 220.353†	22.2	0.04267 mg/L	0.011450	111.7 mg/kg	29.97	26.83%
Sb 206.836†	-4.2	-0.05254 mg/L	0.014039	-137.5 mg/kg	36.74	26.72%
Sb 217.582†	2.7	0.01993 mg/L	0.015682	52.15 mg/kg	41.045	78.70%
Se 196.026†	-2.2	-0.06788 mg/L	0.110491	-177.7 mg/kg	289.18	162.77%
Se 203.985†	-62.6	-1.779 mg/L	0.1468	-4657 mg/kg	384.2	8.25%
Sn 235.485†	216.3	-0.03932 mg/L	0.012237	-102.9 mg/kg	32.03	31.13%
Sn 189.927†	-15.1	-0.1503 mg/L	0.02728	-393.3 mg/kg	71.41	18.16%
Sr 460.733†	1126.0	0.1981 mg/L	0.01161	518.5 mg/kg	30.39	5.86%
Sr 407.771†	320995.9	0.2186 mg/L	0.00687	572.1 mg/kg	17.98	3.14%
Sr 421.552†	107643.5	0.2220 mg/L	0.00148	581.1 mg/kg	3.86	0.66%
Ti 337.279†	3348.2	0.08127 mg/L	0.001226	212.7 mg/kg	3.21	1.51%
Ti 334.940†	4495.8	0.07813 mg/L	0.001323	204.5 mg/kg	3.46	1.69%
Ti 336.121†	3710.3	0.08817 mg/L	0.000454	230.8 mg/kg	1.19	0.51%
Tl 351.924†	-23.7	-0.03590 mg/L	0.027205	-93.96 mg/kg	71.203	75.78%
Tl 190.801†	17.4	0.4340 mg/L	0.11159	1136 mg/kg	292.1	25.71%
Tl 276.787†	1449.1	1.698 mg/L	0.0217	4445 mg/kg	56.7	1.28%
V 310.230†	84.4	0.00202 mg/L	0.000463	5.285 mg/kg	1.2109	22.91%
V 292.402†	103.7	0.00610 mg/L	0.000364	15.96 mg/kg	0.953	5.97%
V 311.071†	-9.6	-0.00090 mg/L	0.000178	-2.358 mg/kg	0.4668	19.80%
Zn 206.200†	33.2	0.02615 mg/L	0.002266	68.45 mg/kg	5.930	8.66%
Zn 213.857†	181.3	0.04114 mg/L	0.001359	107.7 mg/kg	3.56	3.30%
Zn 202.548†	44.6	0.02340 mg/L	0.001370	61.25 mg/kg	3.586	5.85%

Sequence No.: 3
Sample ID: 0909005-02

Autosampler Location: 206
Date Collected: 10/26/2009 2:04:49 PM
Data Type: Original

Initial Sample Wt: 0.4877 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: 0909005-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158951.9	100.0	%	1.50				1.50%
Ag 328.068†	48.7	0.00188	mg/L	0.000964	4.823	mg/kg	2.4717	51.25%
Ag 338.289†	16.4	0.00267	mg/L	0.002455	6.838	mg/kg	6.2926	92.02%
Al 308.215†	4228.2	2.396	mg/L	0.0344	6140	mg/kg	88.2	1.44%
Al 394.401†	6965.8	2.383	mg/L	0.0099	6107	mg/kg	25.5	0.42%
Al 396.153†	16563.7	2.276	mg/L	0.0252	5834	mg/kg	64.7	1.11%

As 188.979†	-21.8	-0.4086	mg/L	0.05615	-1047	mg/kg	143.9	13.74%
As 193.696†	14.0	0.1703	mg/L	0.04939	436.4	mg/kg	126.58	29.01%
As 197.197†	-13.3	-0.2623	mg/L	0.16007	-672.2	mg/kg	410.27	61.03%
B 208.889†	15.9	0.04792	mg/L	0.016107	122.8	mg/kg	41.28	33.61%
B 249.677†	42.3	0.01370	mg/L	0.001163	35.12	mg/kg	2.980	8.49%
B 249.772†	117.7	0.01117	mg/L	0.000202	28.63	mg/kg	0.516	1.80%
Ba 233.527†	246.5	0.03766	mg/L	0.001144	96.53	mg/kg	2.932	3.04%
Ba 455.403†	13764.2	0.03790	mg/L	0.000658	97.13	mg/kg	1.687	1.74%
Ba 493.408†	14500.9	0.03812	mg/L	0.000376	97.70	mg/kg	0.964	0.99%
Be 234.861†	13.8	-0.00015	mg/L	0.000076	-0.3727	mg/kg	0.19513	52.35%
Be 313.042†	116.0	0.00024	mg/L	0.000057	0.6164	mg/kg	0.14573	23.64%
Be 313.107†	64.1	0.00021	mg/L	0.000056	0.5401	mg/kg	0.14304	26.48%
Ca 315.887†	812379.0	110.4	mg/L	2.29	283000	mg/kg	5866.5	2.07%
Ca 317.933†	1350245.7	104.0	mg/L	2.17	266600	mg/kg	5550.7	2.08%
Cd 214.440†	31.5	0.00303	mg/L	0.010448	7.762	mg/kg	26.7792	345.00%
Cd 226.502†	-0.7	-0.00028	mg/L	0.001058	-0.7205	mg/kg	2.71227	376.43%
Cd 228.802†	-3.2	-0.01007	mg/L	0.001435	-25.81	mg/kg	3.679	14.25%
Ce 413.380†	27.6	0.00544	mg/L	0.005218	13.93	mg/kg	13.375	96.01%
Ce 413.764†	-15.8	-0.00227	mg/L	0.011877	-5.808	mg/kg	30.4419	524.17%
Ce 418.660†	25.4	0.01197	mg/L	0.024064	30.69	mg/kg	61.678	201.00%
Co 228.616†	2.8	0.00103	mg/L	0.001776	2.632	mg/kg	4.5525	172.96%
Co 230.786†	79.1	0.01876	mg/L	0.005015	48.07	mg/kg	12.853	26.74%
Co 238.892†	58.6	0.00323	mg/L	0.001314	8.289	mg/kg	3.3667	40.62%
Cr 205.560†	-5.4	-0.00470	mg/L	0.003007	-12.03	mg/kg	7.708	64.05%
Cr 267.716†	59.7	0.00617	mg/L	0.000096	15.82	mg/kg	0.246	1.56%
Cr 283.563†	16.2	0.00125	mg/L	0.000836	3.197	mg/kg	2.1424	67.02%
Cu 224.700†	11.0	-0.1106	mg/L	0.01822	-283.5	mg/kg	46.70	16.47%
Cu 324.752†	141.6	0.00389	mg/L	0.000638	9.966	mg/kg	1.6352	16.41%
Cu 327.393†	90.9	0.00577	mg/L	0.000913	14.80	mg/kg	2.341	15.82%
Fe 238.204†	18403.9	1.988	mg/L	0.0108	5094	mg/kg	27.6	0.54%
Fe 239.562†	12187.1	1.996	mg/L	0.0194	5117	mg/kg	49.8	0.97%
Fe 259.939†	22622.3	1.974	mg/L	0.0094	5060	mg/kg	24.0	0.47%
Fe 273.955†	3715.8	2.205	mg/L	0.0230	5652	mg/kg	58.8	1.04%
K 766.490†	850.9	0.1904	mg/L	0.00989	488.0	mg/kg	25.35	5.20%
Li 610.362†	2294.1	0.08219	mg/L	0.072302	210.7	mg/kg	185.31	87.97%
Li 670.784†	476.2	0.00445	mg/L	0.000605	11.40	mg/kg	1.550	13.59%
Mg 279.077†	31594.5	27.95	mg/L	0.155	71640	mg/kg	396.5	0.55%
Mg 280.271†	7213990.5	27.85	mg/L	0.543	71390	mg/kg	1391.1	1.95%
Mg 285.213†	730364.1	25.86	mg/L	0.524	66280	mg/kg	1343.7	2.03%
Mn 257.610†	7024.2	0.1452	mg/L	0.00176	372.1	mg/kg	4.51	1.21%
Mn 259.372†	8845.4	0.1324	mg/L	0.00118	339.3	mg/kg	3.03	0.89%
Mn 260.568†	3844.3	0.1335	mg/L	0.00160	342.3	mg/kg	4.11	1.20%
Mo 202.031†	6.1	0.01019	mg/L	0.000900	26.11	mg/kg	2.306	8.83%
Mo 203.845†	21.0	0.08451	mg/L	0.008702	216.6	mg/kg	22.30	10.30%
Mo 204.597†	-10.7	-0.02867	mg/L	0.020688	-73.48	mg/kg	53.026	72.16%
Na 588.995†	5509.8	0.3751	mg/L	0.07370	961.5	mg/kg	188.89	19.65%
Na 589.592†	2312.4	0.2934	mg/L	0.01131	752.1	mg/kg	28.98	3.85%
Ni 221.648†	0.8	0.00056	mg/L	0.007574	1.448	mg/kg	19.4124	>999.9%
Ni 231.604†	23.3	0.00636	mg/L	0.000636	16.30	mg/kg	1.629	10.00%
Ni 232.003†	-20.4	-0.00706	mg/L	0.004913	-18.08	mg/kg	12.591	69.63%
Pb 217.000†	-6.6	-0.05988	mg/L	0.035216	-153.5	mg/kg	90.26	58.81%
Pb 220.353†	17.2	0.02980	mg/L	0.003500	76.37	mg/kg	8.970	11.75%
Sb 206.836†	-3.1	-0.03844	mg/L	0.029908	-98.52	mg/kg	76.655	77.80%
Sb 217.582†	0.4	0.00282	mg/L	0.015503	7.233	mg/kg	39.7337	549.37%
Se 196.026†	-1.2	-0.03630	mg/L	0.108040	-93.05	mg/kg	276.913	297.59%
Se 203.985†	-62.9	-1.803	mg/L	0.1565	-4620	mg/kg	401.2	8.68%
Sn 235.485†	196.5	-0.03882	mg/L	0.008375	-99.50	mg/kg	21.465	21.57%
Sn 189.927†	-17.0	-0.1786	mg/L	0.02299	-457.7	mg/kg	58.92	12.87%
Sr 460.733†	1523.1	0.2680	mg/L	0.00499	686.9	mg/kg	12.79	1.86%
Sr 407.771†	389334.9	0.2654	mg/L	0.00571	680.2	mg/kg	14.63	2.15%
Sr 421.552†	131062.9	0.2704	mg/L	0.00203	692.9	mg/kg	5.20	0.75%
Ti 337.279†	3862.1	0.09374	mg/L	0.001924	240.3	mg/kg	4.93	2.05%
Ti 334.940†	5421.1	0.09159	mg/L	0.001955	234.7	mg/kg	5.01	2.13%
Ti 336.121†	4364.6	0.1032	mg/L	0.00159	264.6	mg/kg	4.08	1.54%
Tl 351.924†	-3.0	-0.00485	mg/L	0.035673	-12.44	mg/kg	91.431	734.95%
Tl 190.801†	14.8	0.3317	mg/L	0.09124	850.2	mg/kg	233.84	27.50%
Tl 276.787†	1551.0	1.811	mg/L	0.0902	4641	mg/kg	231.2	4.98%
V 310.230†	-406.3	-0.01148	mg/L	0.000943	-29.42	mg/kg	2.418	8.22%
V 292.402†	108.7	0.00672	mg/L	0.001419	17.23	mg/kg	3.638	21.11%
V 311.071†	3.7	-0.00052	mg/L	0.000977	-1.321	mg/kg	2.5046	189.62%
Zn 206.200†	31.3	0.02415	mg/L	0.003131	61.90	mg/kg	8.025	12.97%

Zn 213.857†	184.0	0.04205 mg/L	0.000063	107.8 mg/kg	0.16	0.15%
Zn 202.548†	40.1	0.02064 mg/L	0.000982	52.91 mg/kg	2.518	4.76%

Sequence No.: 4
Sample ID: 0909005-03

Initial Sample Wt: 0.4916 g
Dilution: 25X

Autosampler Location: 207
Date Collected: 10/26/2009 2:05:55 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165777.1	104.3	%	0.79				0.75%
Ag 328.068†	13.1	0.00087	mg/L	0.000255	2.221	mg/kg	0.6493	29.24%
Ag 338.289†	-0.4	0.00028	mg/L	0.002966	0.7056	mg/kg	7.54160	>999.9%
Al 308.215†	3016.0	1.709	mg/L	0.0114	4345	mg/kg	29.1	0.67%
Al 394.401†	4994.2	1.715	mg/L	0.0126	4361	mg/kg	32.0	0.73%
Al 396.153†	11940.8	1.651	mg/L	0.0080	4197	mg/kg	20.4	0.49%
As 188.979†	-11.3	-0.2217	mg/L	0.02601	-563.7	mg/kg	66.12	11.73%
As 193.696†	9.1	0.1338	mg/L	0.02986	340.3	mg/kg	75.94	22.31%
As 197.197†	-8.7	-0.2073	mg/L	0.09873	-527.2	mg/kg	251.03	47.62%
B 208.889†	5.0	0.01534	mg/L	0.009558	39.00	mg/kg	24.303	62.32%
B 249.677†	21.0	0.00596	mg/L	0.004296	15.14	mg/kg	10.924	72.14%
B 249.772†	159.1	0.00571	mg/L	0.000738	14.53	mg/kg	1.876	12.91%
Ba 233.527†	108.1	0.01632	mg/L	0.000379	41.50	mg/kg	0.964	2.32%
Ba 455.403†	5555.2	0.01529	mg/L	0.000470	38.89	mg/kg	1.195	3.07%
Ba 493.408†	6027.4	0.01582	mg/L	0.000175	40.22	mg/kg	0.445	1.11%
Be 234.861†	62.4	-0.00002	mg/L	0.000072	-0.03912	mg/kg	0.182377	466.21%
Be 313.042†	-10.4	0.00001	mg/L	0.000043	0.02520	mg/kg	0.110507	438.54%
Be 313.107†	3.3	0.00000	mg/L	0.000080	0.01011	mg/kg	0.202816	>999.9%
Ca 315.887†	388824.8	52.84	mg/L	0.850	134400	mg/kg	2162.0	1.61%
Ca 317.933†	648306.4	49.95	mg/L	0.644	127000	mg/kg	1636.5	1.29%
Cd 214.440†	27.9	0.00431	mg/L	0.009946	10.97	mg/kg	25.289	230.54%
Cd 226.502†	4.2	0.00058	mg/L	0.000965	1.481	mg/kg	2.4538	165.65%
Cd 228.802†	0.2	-0.00593	mg/L	0.001631	-15.07	mg/kg	4.148	27.52%
Ce 413.380†	67.1	0.01304	mg/L	0.009146	33.16	mg/kg	23.256	70.13%
Ce 413.764†	35.2	0.00859	mg/L	0.007034	21.85	mg/kg	17.885	81.86%
Ce 418.660†	19.6	0.00706	mg/L	0.012663	17.96	mg/kg	32.198	179.27%
Co 228.616†	2.5	0.00082	mg/L	0.000232	2.092	mg/kg	0.5898	28.19%
Co 230.786†	24.3	-0.00066	mg/L	0.003808	-1.683	mg/kg	9.6836	575.48%
Co 238.892†	113.0	0.00474	mg/L	0.001307	12.04	mg/kg	3.322	27.59%
Cr 205.560†	-0.2	0.00189	mg/L	0.003555	4.805	mg/kg	9.0393	188.12%
Cr 267.716†	31.0	0.00466	mg/L	0.000271	11.85	mg/kg	0.689	5.82%
Cr 283.563†	238.6	0.00370	mg/L	0.000967	9.408	mg/kg	2.4589	26.14%
Cu 224.700†	18.2	-0.1003	mg/L	0.03389	-255.1	mg/kg	86.16	33.78%
Cu 324.752†	252.1	0.00680	mg/L	0.000468	17.30	mg/kg	1.191	6.88%
Cu 327.393†	143.3	0.00917	mg/L	0.000689	23.31	mg/kg	1.752	7.52%
Fe 238.204†	55858.1	6.032	mg/L	0.0255	15340	mg/kg	64.8	0.42%
Fe 239.562†	36746.4	6.010	mg/L	0.0393	15280	mg/kg	100.0	0.65%
Fe 259.939†	68282.6	5.959	mg/L	0.0362	15150	mg/kg	91.9	0.61%
Fe 273.955†	10321.7	6.125	mg/L	0.0269	15570	mg/kg	68.3	0.44%
K 766.490†	1509.8	0.3378	mg/L	0.01139	859.0	mg/kg	28.97	3.37%
Li 610.362†	3.0	-0.05349	mg/L	0.033969	-136.0	mg/kg	86.37	63.51%
Li 670.784†	439.6	0.00411	mg/L	0.001112	10.44	mg/kg	2.826	27.07%
Mg 279.077†	6843.7	6.049	mg/L	0.0185	15380	mg/kg	47.0	0.31%
Mg 280.271†	1535439.5	5.928	mg/L	0.0911	15070	mg/kg	231.6	1.54%
Mg 285.213†	169809.2	6.013	mg/L	0.0366	15290	mg/kg	93.0	0.61%
Mn 257.610†	14895.4	0.3092	mg/L	0.00118	786.3	mg/kg	2.99	0.38%
Mn 259.372†	20606.4	0.3083	mg/L	0.00155	783.9	mg/kg	3.94	0.50%
Mn 260.568†	8909.3	0.3110	mg/L	0.00217	790.8	mg/kg	5.51	0.70%
Mo 202.031†	2.5	0.00429	mg/L	0.010717	10.91	mg/kg	27.249	249.83%
Mo 203.845†	7.9	0.03574	mg/L	0.027120	90.89	mg/kg	68.958	75.87%
Mo 204.597†	-7.3	-0.02380	mg/L	0.003719	-60.52	mg/kg	9.456	15.63%
Na 588.995†	10597.1	0.7215	mg/L	0.04739	1835	mg/kg	120.5	6.57%
Na 589.592†	6683.4	0.8478	mg/L	0.00407	2156	mg/kg	10.3	0.48%
Ni 221.648†	7.5	0.00635	mg/L	0.004594	16.15	mg/kg	11.680	72.33%
Ni 231.604†	16.4	0.00521	mg/L	0.001335	13.24	mg/kg	3.394	25.63%
Ni 232.003†	-4.5	0.00465	mg/L	0.009463	11.81	mg/kg	24.061	203.69%
Pb 217.000†	-3.5	-0.04157	mg/L	0.051708	-105.7	mg/kg	131.48	124.40%

Pb 220.353†	10.9	0.02139	mg/L	0.010879	54.39	mg/kg	27.661	50.86%
Sb 206.836†	-4.3	-0.05323	mg/L	0.016694	-135.4	mg/kg	42.45	31.36%
Sb 217.582†	0.5	0.00386	mg/L	0.025422	9.826	mg/kg	64.6411	657.88%
Se 196.026†	0.2	0.00538	mg/L	0.082558	13.69	mg/kg	209.921	>999.9%
Se 203.985†	-34.5	-1.042	mg/L	0.1683	-2649	mg/kg	428.0	16.16%
Sn 235.485†	614.7	-0.00627	mg/L	0.001667	-15.93	mg/kg	4.238	26.60%
Sn 189.927†	-7.9	-0.08186	mg/L	0.022405	-208.2	mg/kg	56.97	27.37%
Sr 460.733†	320.0	0.05634	mg/L	0.014678	143.3	mg/kg	37.32	26.05%
Sr 407.771†	70163.6	0.04745	mg/L	0.000949	120.7	mg/kg	2.41	2.00%
Sr 421.552†	23920.2	0.04934	mg/L	0.000339	125.5	mg/kg	0.86	0.69%
Ti 337.279†	1338.8	0.03252	mg/L	0.001245	82.68	mg/kg	3.165	3.83%
Ti 334.940†	1832.6	0.03269	mg/L	0.000624	83.13	mg/kg	1.587	1.91%
Ti 336.121†	1410.9	0.03380	mg/L	0.000511	85.93	mg/kg	1.300	1.51%
Tl 351.924†	-34.5	-0.05225	mg/L	0.017113	-132.9	mg/kg	43.51	32.75%
Tl 190.801†	9.9	0.2641	mg/L	0.01922	671.6	mg/kg	48.87	7.28%
Tl 276.787†	354.6	0.4303	mg/L	0.02846	1094	mg/kg	72.4	6.61%
V 310.230†	-535.6	-0.01483	mg/L	0.000244	-37.71	mg/kg	0.620	1.64%
V 292.402†	79.9	0.00399	mg/L	0.001756	10.15	mg/kg	4.466	44.00%
V 311.071†	69.7	0.00283	mg/L	0.000571	7.186	mg/kg	1.4527	20.22%
Zn 206.200†	32.2	0.02987	mg/L	0.002364	75.96	mg/kg	6.011	7.91%
Zn 213.857†	147.3	0.03788	mg/L	0.000754	96.33	mg/kg	1.918	1.99%
Zn 202.548†	48.8	0.02806	mg/L	0.001469	71.34	mg/kg	3.734	5.23%

==========

Sequence No.: 5
Sample ID: 0909005-04

Initial Sample Wt: 0.5145 g
Dilution: 25X

Autosampler Location: 208
Date Collected: 10/26/2009 2:06:59 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	167882.6	105.6	%	1.77				1.67%
Ag 328.068†	34.5	0.00157	mg/L	0.000317	3.817	mg/kg	0.7696	20.16%
Ag 338.289†	-32.7	-0.00216	mg/L	0.000380	-5.237	mg/kg	0.9236	17.64%
Al 308.215†	4148.3	2.350	mg/L	0.0495	5709	mg/kg	120.2	2.11%
Al 394.401†	6905.2	2.378	mg/L	0.0556	5778	mg/kg	135.2	2.34%
Al 396.153†	16433.2	2.273	mg/L	0.0240	5523	mg/kg	58.3	1.06%
As 188.979†	-17.1	-0.3722	mg/L	0.01064	-904.2	mg/kg	25.85	2.86%
As 193.696†	14.7	0.2323	mg/L	0.05193	564.4	mg/kg	126.17	22.36%
As 197.197†	-13.2	-0.3382	mg/L	0.06110	-821.6	mg/kg	148.45	18.07%
B 208.889†	3.3	0.00986	mg/L	0.013549	23.96	mg/kg	32.917	137.37%
B 249.677†	13.6	0.00364	mg/L	0.004475	8.842	mg/kg	10.8719	122.96%
B 249.772†	130.9	0.00380	mg/L	0.000592	9.234	mg/kg	1.4387	15.58%
Ba 233.527†	173.8	0.02638	mg/L	0.001469	64.10	mg/kg	3.568	5.57%
Ba 455.403†	9565.2	0.02634	mg/L	0.000480	63.98	mg/kg	1.167	1.82%
Ba 493.408†	10237.7	0.02689	mg/L	0.000439	65.34	mg/kg	1.068	1.63%
Be 234.861†	63.5	0.00012	mg/L	0.000017	0.3007	mg/kg	0.04231	14.07%
Be 313.042†	44.9	0.00009	mg/L	0.000048	0.2285	mg/kg	0.11738	51.36%
Be 313.107†	28.8	0.00009	mg/L	0.000005	0.2066	mg/kg	0.01281	6.20%
Ca 315.887†	502161.8	68.24	mg/L	1.187	165800	mg/kg	2882.7	1.74%
Ca 317.933†	836670.3	64.46	mg/L	0.834	156600	mg/kg	2026.4	1.29%
Cd 214.440†	21.4	0.00224	mg/L	0.006970	5.449	mg/kg	16.9339	310.76%
Cd 226.502†	3.2	0.00036	mg/L	0.000962	0.8677	mg/kg	2.33702	269.32%
Cd 228.802†	-1.6	-0.01003	mg/L	0.001665	-24.36	mg/kg	4.046	16.61%
Ce 413.380†	80.9	0.01613	mg/L	0.018400	39.20	mg/kg	44.704	114.04%
Ce 413.764†	-19.4	-0.00217	mg/L	0.015674	-5.284	mg/kg	38.0813	720.72%
Ce 418.660†	23.4	0.00878	mg/L	0.004015	21.33	mg/kg	9.755	45.73%
Co 228.616†	-1.9	-0.00112	mg/L	0.000714	-2.718	mg/kg	1.7358	63.86%
Co 230.786†	15.0	-0.00614	mg/L	0.006618	-14.93	mg/kg	16.078	107.72%
Co 238.892†	97.0	0.00305	mg/L	0.000896	7.407	mg/kg	2.1777	29.40%
Cr 205.560†	-1.7	0.00000	mg/L	0.007379	-0.00920	mg/kg	17.928642	>999.9%
Cr 267.716†	30.5	0.00484	mg/L	0.001725	11.76	mg/kg	4.190	35.62%
Cr 283.563†	245.4	0.00484	mg/L	0.000307	11.76	mg/kg	0.746	6.35%
Cu 224.700†	28.0	-0.1103	mg/L	0.01669	-268.0	mg/kg	40.54	15.13%
Cu 324.752†	717.6	0.01973	mg/L	0.000784	47.94	mg/kg	1.905	3.97%
Cu 327.393†	373.4	0.02394	mg/L	0.000396	58.16	mg/kg	0.961	1.65%
Fe 238.204†	45282.2	4.890	mg/L	0.0637	11880	mg/kg	154.7	1.30%
Fe 239.562†	29908.5	4.893	mg/L	0.0784	11890	mg/kg	190.4	1.60%

Fe 259.939†	55345.1	4.830	mg/L	0.0710	11730	mg/kg	172.5	1.47%
Fe 273.955†	8996.0	5.339	mg/L	0.1216	12970	mg/kg	295.4	2.28%
K 766.490†	1635.3	0.3659	mg/L	0.02408	889.0	mg/kg	58.50	6.58%
Li 610.362†	-1093.6	-0.1508	mg/L	0.07422	-366.4	mg/kg	180.31	49.21%
Li 670.784†	523.2	0.00489	mg/L	0.000563	11.87	mg/kg	1.367	11.51%
Mg 279.077†	4377.4	3.868	mg/L	0.0827	9398	mg/kg	200.8	2.14%
Mg 280.271†	921678.6	3.558	mg/L	0.0639	8645	mg/kg	155.3	1.80%
Mg 285.213†	99210.8	3.513	mg/L	0.0491	8535	mg/kg	119.2	1.40%
Mn 257.610†	5340.2	0.1108	mg/L	0.00239	269.2	mg/kg	5.80	2.16%
Mn 259.372†	7117.9	0.1031	mg/L	0.00105	250.5	mg/kg	2.54	1.02%
Mn 260.568†	2938.9	0.1024	mg/L	0.00206	248.8	mg/kg	5.01	2.01%
Mo 202.031†	5.7	0.01291	mg/L	0.007913	31.37	mg/kg	19.225	61.28%
Mo 203.845†	6.8	0.03185	mg/L	0.012061	77.38	mg/kg	29.302	37.87%
Mo 204.597†	-8.2	-0.02522	mg/L	0.008689	-61.28	mg/kg	21.111	34.45%
Na 588.995†	7645.6	0.5205	mg/L	0.06166	1265	mg/kg	149.8	11.85%
Na 589.592†	5806.3	0.7366	mg/L	0.00849	1790	mg/kg	20.6	1.15%
Ni 221.648†	0.0	-0.00030	mg/L	0.001505	-0.7302	mg/kg	3.65673	500.80%
Ni 231.604†	12.3	0.00306	mg/L	0.001208	7.429	mg/kg	2.9350	39.51%
Ni 232.003†	-16.3	-0.00419	mg/L	0.002436	-10.19	mg/kg	5.917	58.09%
Pb 217.000†	-3.7	-0.04020	mg/L	0.021469	-97.67	mg/kg	52.160	53.40%
Pb 220.353†	19.0	0.04046	mg/L	0.000451	98.30	mg/kg	1.095	1.11%
Sb 206.836†	-1.5	-0.01868	mg/L	0.019047	-45.39	mg/kg	46.275	101.96%
Sb 217.582†	-2.7	-0.02013	mg/L	0.034162	-48.91	mg/kg	82.999	169.70%
Se 196.026†	-0.8	-0.02596	mg/L	0.048907	-63.07	mg/kg	118.822	188.40%
Se 203.985†	-41.3	-1.200	mg/L	0.0182	-2916	mg/kg	44.1	1.51%
Sn 235.485†	495.2	-0.06533	mg/L	0.008999	-158.7	mg/kg	21.86	13.77%
Sn 189.927†	-11.4	-0.1238	mg/L	0.01921	-300.7	mg/kg	46.68	15.52%
Sr 460.733†	438.1	0.07721	mg/L	0.006549	187.6	mg/kg	15.91	8.48%
Sr 407.771†	101263.2	0.06858	mg/L	0.001255	166.6	mg/kg	3.05	1.83%
Sr 421.552†	34526.7	0.07122	mg/L	0.001045	173.0	mg/kg	2.54	1.47%
Ti 337.279†	3541.4	0.08597	mg/L	0.000855	208.9	mg/kg	2.08	1.00%
Ti 334.940†	5300.1	0.08512	mg/L	0.000739	206.8	mg/kg	1.80	0.87%
Ti 336.121†	3969.1	0.09320	mg/L	0.002115	226.4	mg/kg	5.14	2.27%
Tl 351.924†	-53.3	-0.07707	mg/L	0.015810	-187.2	mg/kg	38.41	20.51%
Tl 190.801†	12.5	0.3303	mg/L	0.05267	802.5	mg/kg	127.95	15.94%
Tl 276.787†	204.9	0.2221	mg/L	0.04256	539.7	mg/kg	103.40	19.16%
V 310.230†	-179.9	-0.00504	mg/L	0.002222	-12.25	mg/kg	5.398	44.06%
V 292.402†	78.6	0.00390	mg/L	0.000665	9.467	mg/kg	1.6158	17.07%
V 311.071†	83.1	0.00287	mg/L	0.000961	6.973	mg/kg	2.3345	33.48%
Zn 206.200†	61.0	0.05918	mg/L	0.001503	143.8	mg/kg	3.65	2.54%
Zn 213.857†	260.1	0.07060	mg/L	0.001790	171.5	mg/kg	4.35	2.53%
Zn 202.548†	98.3	0.05779	mg/L	0.002181	140.4	mg/kg	5.30	3.77%

Sequence No.: 6
Sample ID: 0909005-05

Initial Sample Wt: 0.4607 g
Dilution: 25X

Autosampler Location: 209
Date Collected: 10/26/2009 2:08:03 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	164752.9	103.7	%	0.91				0.88%
Ag 328.068†	22.2	0.00138	mg/L	0.000620	3.737	mg/kg	1.6822	45.02%
Ag 338.289†	-8.5	0.00002	mg/L	0.002768	0.06749	mg/kg	7.509941	>999.9%
Al 308.215†	4726.6	2.677	mg/L	0.0209	7264	mg/kg	56.7	0.78%
Al 394.401†	7681.3	2.654	mg/L	0.0793	7200	mg/kg	215.1	2.99%
Al 396.153†	18272.9	2.534	mg/L	0.0731	6875	mg/kg	198.3	2.88%
As 188.979†	-14.5	-0.3141	mg/L	0.02823	-852.2	mg/kg	76.59	8.99%
As 193.696†	10.6	0.1620	mg/L	0.03164	439.6	mg/kg	85.84	19.53%
As 197.197†	-11.2	-0.2938	mg/L	0.20101	-797.1	mg/kg	545.41	68.42%
B 208.889†	5.2	0.01468	mg/L	0.020410	39.82	mg/kg	55.377	139.06%
B 249.677†	24.5	0.00656	mg/L	0.003112	17.79	mg/kg	8.443	47.45%
B 249.772†	238.9	0.00740	mg/L	0.001526	20.09	mg/kg	4.140	20.61%
Ba 233.527†	222.0	0.03359	mg/L	0.000731	91.13	mg/kg	1.983	2.18%
Ba 455.403†	12291.2	0.03384	mg/L	0.001124	91.82	mg/kg	3.049	3.32%
Ba 493.408†	13107.6	0.03442	mg/L	0.000918	93.38	mg/kg	2.490	2.67%
Be 234.861†	112.6	0.00021	mg/L	0.000148	0.5571	mg/kg	0.40129	72.03%

Saturated within auto integration window (code 4)

Be 313.042†	78.7	0.00015	mg/L	0.000038	0.4111	mg/kg	0.10382	25.25%
Be 313.107†	57.7	0.00019	mg/L	0.000024	0.5189	mg/kg	0.06463	12.46%
Ca 315.887†	432349.2	58.76	mg/L	2.481	159400	mg/kg	6733.0	4.22%
Ca 317.933†	720611.0	55.52	mg/L	2.577	150600	mg/kg	6991.1	4.64%
Cd 214.440†	34.5	0.00540	mg/L	0.008254	14.65	mg/kg	22.395	152.91%
Cd 226.502†	10.8	0.00201	mg/L	0.001152	5.448	mg/kg	3.1259	57.38%
Cd 228.802†	0.5	-0.00685	mg/L	0.001207	-18.60	mg/kg	3.275	17.61%
Ce 413.380†	66.2	0.01217	mg/L	0.013506	33.01	mg/kg	36.646	111.02%
Ce 413.764†	-35.1	-0.00417	mg/L	0.004739	-11.33	mg/kg	12.859	113.54%
Ce 418.660†	-24.5	-0.00061	mg/L	0.006845	-1.663	mg/kg	18.5717	>999.9%
Co 228.616†	2.8	0.00071	mg/L	0.000524	1.931	mg/kg	1.4225	73.67%
Co 230.786†	34.4	0.00074	mg/L	0.002519	2.020	mg/kg	6.8340	338.24%
Co 238.892†	154.6	0.00267	mg/L	0.003625	7.234	mg/kg	9.8356	135.96%
Cr 205.560†	2.9	0.00748	mg/L	0.002758	20.29	mg/kg	7.483	36.89%
Cr 267.716†	101.3	0.01618	mg/L	0.000852	43.89	mg/kg	2.312	5.27%
Cr 283.563†	608.0	0.01663	mg/L	0.000622	45.12	mg/kg	1.687	3.74%
Cu 224.700†	42.1	-0.1231	mg/L	0.04130	-334.1	mg/kg	112.06	33.54%
Cu 324.752†	874.2	0.02394	mg/L	0.000975	64.95	mg/kg	2.646	4.07%
Cu 327.393†	402.1	0.02578	mg/L	0.001134	69.95	mg/kg	3.077	4.40%
Fe 238.204†	87778.1	9.480	mg/L	0.2646	25720	mg/kg	717.8	2.79%
Fe 239.562†	58213.8	9.520	mg/L	0.2106	25830	mg/kg	571.3	2.21%
Fe 259.939†	107504.3	9.382	mg/L	0.2417	25460	mg/kg	655.8	2.58%
Fe 273.955†	16168.4	9.595	mg/L	0.2657	26030	mg/kg	720.8	2.77%
K 766.490†	1519.9	0.3401	mg/L	0.02031	922.8	mg/kg	55.10	5.97%
Li 610.362†	-161.3	-0.07387	mg/L	0.034376	-200.4	mg/kg	93.27	46.53%
Li 670.784†	603.8	0.00564	mg/L	0.001579	15.30	mg/kg	4.285	28.00%
Mg 279.077†	7702.3	6.806	mg/L	0.0386	18470	mg/kg	104.7	0.57%
Saturated within auto integration window (code 4)								
Mg 280.271†	1615488.7	6.237	mg/L	0.2646	16920	mg/kg	717.9	4.24%
Mg 285.213†	172240.8	6.099	mg/L	0.1255	16550	mg/kg	340.6	2.06%
Mn 257.610†	8543.2	0.1773	mg/L	0.00451	480.9	mg/kg	12.23	2.54%
Mn 259.372†	12301.4	0.1777	mg/L	0.00398	482.0	mg/kg	10.79	2.24%
Mn 260.568†	5162.1	0.1799	mg/L	0.00067	488.0	mg/kg	1.81	0.37%
Mo 202.031†	0.3	-0.00263	mg/L	0.004674	-7.134	mg/kg	12.6831	177.79%
Mo 203.845†	6.3	0.02655	mg/L	0.022382	72.03	mg/kg	60.729	84.31%
Mo 204.597†	-8.2	-0.02668	mg/L	0.017638	-72.40	mg/kg	47.857	66.10%
Na 588.995†	1110.7	0.07562	mg/L	0.040647	205.2	mg/kg	110.29	53.75%
Na 589.592†	1542.3	0.1957	mg/L	0.00884	531.1	mg/kg	24.00	4.52%
Ni 221.648†	9.6	0.00799	mg/L	0.004446	21.68	mg/kg	12.064	55.64%
Ni 231.604†	29.1	0.01020	mg/L	0.001545	27.67	mg/kg	4.192	15.15%
Ni 232.003†	-8.3	0.00421	mg/L	0.005590	11.42	mg/kg	15.166	132.77%
Pb 217.000†	4.9	0.06112	mg/L	0.051907	165.8	mg/kg	140.84	84.93%
Pb 220.353†	28.5	0.06667	mg/L	0.014328	180.9	mg/kg	38.88	21.49%
Sb 206.836†	-1.7	-0.02095	mg/L	0.023574	-56.83	mg/kg	63.962	112.54%
Sb 217.582†	0.2	0.00126	mg/L	0.029107	3.406	mg/kg	78.9762	>999.9%
Se 196.026†	-3.7	-0.1151	mg/L	0.03925	-312.4	mg/kg	106.49	34.09%
Se 203.985†	-36.7	-1.091	mg/L	0.1081	-2960	mg/kg	293.3	9.91%
Sn 235.485†	974.3	0.00803	mg/L	0.041483	21.77	mg/kg	112.554	516.90%
Sn 189.927†	-10.8	-0.1219	mg/L	0.03422	-330.7	mg/kg	92.85	28.08%
Sr 460.733†	515.9	0.09093	mg/L	0.026118	246.7	mg/kg	70.87	28.72%
Sr 407.771†	123516.4	0.08393	mg/L	0.003494	227.7	mg/kg	9.48	4.16%
Sr 421.552†	41724.7	0.08607	mg/L	0.002388	233.5	mg/kg	6.48	2.77%
Ti 337.279†	3382.1	0.08212	mg/L	0.004073	222.8	mg/kg	11.05	4.96%
Ti 334.940†	5052.3	0.08043	mg/L	0.001859	218.2	mg/kg	5.04	2.31%
Ti 336.121†	3864.7	0.09055	mg/L	0.000813	245.7	mg/kg	2.20	0.90%
Tl 351.924†	-27.0	-0.04014	mg/L	0.019336	-108.9	mg/kg	52.46	48.17%
Tl 190.801†	12.0	0.3322	mg/L	0.06279	901.3	mg/kg	170.37	18.90%
Tl 276.787†	343.9	0.3511	mg/L	0.00608	952.7	mg/kg	16.49	1.73%
V 310.230†	-59.2	-0.00179	mg/L	0.000981	-4.863	mg/kg	2.6625	54.75%
V 292.402†	101.2	0.00467	mg/L	0.000298	12.67	mg/kg	0.808	6.38%
V 311.071†	97.3	0.00335	mg/L	0.000374	9.084	mg/kg	1.0143	11.17%
Zn 206.200†	100.1	0.1015	mg/L	0.00072	275.3	mg/kg	1.96	0.71%
Zn 213.857†	408.8	0.1171	mg/L	0.00052	317.7	mg/kg	1.40	0.44%
Zn 202.548†	174.6	0.1050	mg/L	0.00047	284.9	mg/kg	1.26	0.44%

==========

Sequence No.: 7
Sample ID: B909037-DUP1

Initial Sample Wt: 0.4604 g
Dilution: 25X

Autosampler Location: 210
Date Collected: 10/26/2009 2:09:07 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	166598.0	104.8	%	1.76				1.68%
Ag 328.068†	25.7	0.00151	mg/L	0.000655	4.112	mg/kg	1.7784	43.25%
Ag 338.289†	0.3	0.00095	mg/L	0.001605	2.585	mg/kg	4.3589	168.65%
Al 308.215†	4857.2	2.751	mg/L	0.0347	7469	mg/kg	94.3	1.26%
Al 394.401†	7994.6	2.762	mg/L	0.0437	7500	mg/kg	118.6	1.58%
Al 396.153†	19166.4	2.658	mg/L	0.0342	7217	mg/kg	92.8	1.29%
As 188.979†	-11.6	-0.2139	mg/L	0.06041	-580.8	mg/kg	164.01	28.24%
As 193.696†	9.6	0.1371	mg/L	0.04111	372.3	mg/kg	111.63	29.99%
As 197.197†	-10.0	-0.2418	mg/L	0.05838	-656.6	mg/kg	158.51	24.14%
B 208.889†	4.0	0.00970	mg/L	0.014063	26.34	mg/kg	38.182	144.93%
B 249.677†	24.8	0.00662	mg/L	0.004242	17.97	mg/kg	11.516	64.08%
B 249.772†	246.4	0.00800	mg/L	0.000508	21.72	mg/kg	1.379	6.35%
Ba 233.527†	223.3	0.03381	mg/L	0.000248	91.79	mg/kg	0.672	0.73%
Ba 455.403†	12284.7	0.03382	mg/L	0.000560	91.83	mg/kg	1.521	1.66%
Ba 493.408†	13073.0	0.03432	mg/L	0.000850	93.19	mg/kg	2.308	2.48%
Be 234.861†	118.3	0.00027	mg/L	0.000029	0.7207	mg/kg	0.07940	11.02%
Saturated within auto integration window (code 4)								
Be 313.042†	75.6	0.00015	mg/L	0.000038	0.4009	mg/kg	0.10279	25.64%
Be 313.107†	50.4	0.00016	mg/L	0.000132	0.4439	mg/kg	0.35756	80.56%
Ca 315.887†	435645.1	59.20	mg/L	1.791	160700	mg/kg	4863.1	3.03%
Ca 317.933†	727310.9	56.03	mg/L	1.581	152100	mg/kg	4291.4	2.82%
Cd 214.440†	34.0	0.00524	mg/L	0.003700	14.24	mg/kg	10.045	70.54%
Cd 226.502†	8.1	0.00127	mg/L	0.001336	3.448	mg/kg	3.6283	105.22%
Cd 228.802†	5.2	-0.00489	mg/L	0.002122	-13.29	mg/kg	5.761	43.36%
Ce 413.380†	80.4	0.01514	mg/L	0.010672	41.11	mg/kg	28.975	70.48%
Ce 413.764†	-35.0	-0.00408	mg/L	0.007105	-11.08	mg/kg	19.289	174.13%
Ce 418.660†	0.2	0.00398	mg/L	0.014734	10.80	mg/kg	40.003	370.51%
Co 228.616†	6.4	0.00228	mg/L	0.001342	6.181	mg/kg	3.6422	58.93%
Co 230.786†	26.1	-0.00376	mg/L	0.005883	-10.21	mg/kg	15.972	156.44%
Co 238.892†	157.0	0.00263	mg/L	0.001480	7.152	mg/kg	4.0184	56.19%
Cr 205.560†	6.7	0.01390	mg/L	0.006221	37.74	mg/kg	16.890	44.76%
Cr 267.716†	105.0	0.01677	mg/L	0.000588	45.54	mg/kg	1.597	3.51%
Cr 283.563†	617.4	0.01683	mg/L	0.001134	45.71	mg/kg	3.078	6.73%
Cu 224.700†	46.7	-0.09518	mg/L	0.054293	-258.4	mg/kg	147.41	57.04%
Cu 324.752†	1029.4	0.02822	mg/L	0.001053	76.62	mg/kg	2.860	3.73%
Cu 327.393†	487.9	0.03130	mg/L	0.000210	84.99	mg/kg	0.569	0.67%
Fe 238.204†	89229.2	9.636	mg/L	0.1144	26160	mg/kg	310.7	1.19%
Fe 239.562†	59088.3	9.663	mg/L	0.1221	26240	mg/kg	331.5	1.26%
Fe 259.939†	109126.4	9.524	mg/L	0.1094	25860	mg/kg	297.1	1.15%
Fe 273.955†	16467.6	9.772	mg/L	0.1375	26530	mg/kg	373.3	1.41%
K 766.490†	1743.3	0.3901	mg/L	0.03231	1059	mg/kg	87.7	8.28%
Li 610.362†	-654.9	-0.1133	mg/L	0.06223	-307.7	mg/kg	168.95	54.91%
Li 670.784†	507.5	0.00474	mg/L	0.001836	12.87	mg/kg	4.984	38.73%
Mg 279.077†	7707.4	6.810	mg/L	0.1031	18490	mg/kg	280.0	1.51%
Saturated within auto integration window (code 4)								
Mg 280.271†	1591912.4	6.146	mg/L	0.1777	16690	mg/kg	482.4	2.89%
Mg 285.213†	175010.5	6.197	mg/L	0.0732	16820	mg/kg	198.6	1.18%
Mn 257.610†	8777.4	0.1821	mg/L	0.00174	494.5	mg/kg	4.73	0.96%
Mn 259.372†	12543.6	0.1811	mg/L	0.00231	491.7	mg/kg	6.28	1.28%
Mn 260.568†	5209.8	0.1815	mg/L	0.00220	492.8	mg/kg	5.98	1.21%
Mo 202.031†	6.7	0.01752	mg/L	0.013928	47.57	mg/kg	37.815	79.49%
Mo 203.845†	7.6	0.03338	mg/L	0.016488	90.64	mg/kg	44.766	49.39%
Mo 204.597†	-5.1	-0.01226	mg/L	0.014847	-33.30	mg/kg	40.311	121.07%
Na 588.995†	691.0	0.04704	mg/L	0.058543	127.7	mg/kg	158.95	124.44%
Na 589.592†	1644.4	0.2086	mg/L	0.00826	566.4	mg/kg	22.44	3.96%
Ni 221.648†	12.6	0.01066	mg/L	0.004972	28.93	mg/kg	13.500	46.66%
Ni 231.604†	25.6	0.00875	mg/L	0.000887	23.75	mg/kg	2.409	10.14%
Ni 232.003†	-10.2	0.00281	mg/L	0.002145	7.620	mg/kg	5.8240	76.43%
Pb 217.000†	-2.1	-0.02923	mg/L	0.074143	-79.36	mg/kg	201.301	253.67%
Pb 220.353†	31.3	0.07407	mg/L	0.008631	201.1	mg/kg	23.43	11.65%
Sb 206.836†	-1.9	-0.02456	mg/L	0.033215	-66.67	mg/kg	90.179	135.25%
Sb 217.582†	2.2	0.01603	mg/L	0.024692	43.52	mg/kg	67.041	154.05%
Se 196.026†	-2.7	-0.08633	mg/L	0.026420	-234.4	mg/kg	71.73	30.60%
Se 203.985†	-38.5	-1.162	mg/L	0.0783	-3155	mg/kg	212.5	6.73%
Sn 235.485†	966.7	-0.02995	mg/L	0.024319	-81.33	mg/kg	66.026	81.19%
Sn 189.927†	-9.7	-0.1041	mg/L	0.03975	-282.7	mg/kg	107.93	38.18%

Sr 460.733†	525.1	0.09256 mg/L	0.019952	251.3 mg/kg	54.17	21.56%
Sr 407.771†	125678.4	0.08540 mg/L	0.002596	231.9 mg/kg	7.05	3.04%
Sr 421.552†	43905.4	0.09057 mg/L	0.001138	245.9 mg/kg	3.09	1.26%
Ti 337.279†	3706.9	0.09001 mg/L	0.000573	244.4 mg/kg	1.56	0.64%
Ti 334.940†	5499.7	0.08702 mg/L	0.001445	236.3 mg/kg	3.92	1.66%
Ti 336.121†	4143.5	0.09700 mg/L	0.000719	263.3 mg/kg	1.95	0.74%
Tl 351.924†	-36.8	-0.05425 mg/L	0.028432	-147.3 mg/kg	77.20	52.41%
Tl 190.801†	11.0	0.2950 mg/L	0.13781	801.0 mg/kg	374.15	46.71%
Tl 276.787†	361.2	0.3922 mg/L	0.02010	1065 mg/kg	54.6	5.13%
V 310.230†	-92.0	-0.00270 mg/L	0.002675	-7.332 mg/kg	7.2625	99.05%
V 292.402†	105.8	0.00518 mg/L	0.001138	14.07 mg/kg	3.089	21.95%
V 311.071†	93.6	0.00307 mg/L	0.000160	8.344 mg/kg	0.4349	5.21%
Zn 206.200†	100.8	0.1022 mg/L	0.00305	277.5 mg/kg	8.28	2.98%
Zn 213.857†	404.1	0.1156 mg/L	0.00245	313.8 mg/kg	6.65	2.12%
Zn 202.548†	171.6	0.1031 mg/L	0.00156	279.9 mg/kg	4.22	1.51%

Sequence No.: 8
Sample ID: B909037-MS1

Initial Sample Wt: 0.4668 g
Dilution: 25X

Autosampler Location: 211
Date Collected: 10/26/2009 2:10:11 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: B909037-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165388.3	104.1	%	1.56				1.50%
Ag 328.068†	153.6	0.00600	mg/L	0.000190	16.06	mg/kg	0.509	3.17%
Ag 338.289†	77.3	0.00563	mg/L	0.001230	15.08	mg/kg	3.293	21.84%
Al 308.215†	4657.4	2.637	mg/L	0.0184	7062	mg/kg	49.4	0.70%
Al 394.401†	7572.9	2.614	mg/L	0.0432	7001	mg/kg	115.7	1.65%
Al 396.153†	18262.1	2.531	mg/L	0.0398	6776	mg/kg	106.6	1.57%
As 188.979†	-11.2	-0.1937	mg/L	0.04956	-518.6	mg/kg	132.71	25.59%
As 193.696†	10.6	0.1572	mg/L	0.02905	420.9	mg/kg	77.80	18.48%
As 197.197†	-7.7	-0.1378	mg/L	0.01827	-369.1	mg/kg	48.93	13.26%
B 208.889†	12.2	0.04352	mg/L	0.003098	116.5	mg/kg	8.30	7.12%
B 249.677†	149.1	0.04832	mg/L	0.000193	129.4	mg/kg	0.52	0.40%
B 249.772†	479.5	0.04913	mg/L	0.001928	131.6	mg/kg	5.16	3.92%
Ba 233.527†	1638.0	0.2510	mg/L	0.00273	672.2	mg/kg	7.31	1.09%
Ba 455.403†	89519.4	0.2465	mg/L	0.01050	660.0	mg/kg	28.11	4.26%
Ba 493.408†	93477.1	0.2458	mg/L	0.01074	658.1	mg/kg	28.75	4.37%
Be 234.861†	232.2	0.00231	mg/L	0.000061	6.187	mg/kg	0.1640	2.65%
Be 313.042†	1301.9	0.00241	mg/L	0.000058	6.454	mg/kg	0.1546	2.40%
Be 313.107†	668.6	0.00241	mg/L	0.000022	6.458	mg/kg	0.0600	0.93%
Ca 315.887†	447243.7	60.78	mg/L	2.552	162800	mg/kg	6833.1	4.20%
Ca 317.933†	746535.1	57.52	mg/L	2.292	154000	mg/kg	6136.5	3.98%
Cd 214.440†	163.7	0.03820	mg/L	0.012072	102.3	mg/kg	32.33	31.60%
Cd 226.502†	153.5	0.04030	mg/L	0.000591	107.9	mg/kg	1.58	1.47%
Cd 228.802†	138.0	0.03020	mg/L	0.002602	80.86	mg/kg	6.969	8.62%
Ce 413.380†	124.0	0.02479	mg/L	0.015244	66.39	mg/kg	40.822	61.48%
Ce 413.764†	-28.4	-0.00331	mg/L	0.013787	-8.854	mg/kg	36.9183	416.99%
Ce 418.660†	11.9	0.00628	mg/L	0.011994	16.82	mg/kg	32.119	190.90%
Co 228.616†	43.2	0.01837	mg/L	0.001002	49.20	mg/kg	2.684	5.46%
Co 230.786†	68.1	0.01801	mg/L	0.003737	48.23	mg/kg	10.006	20.75%
Co 238.892†	220.1	0.02517	mg/L	0.001606	67.40	mg/kg	4.302	6.38%
Cr 205.560†	127.6	0.2207	mg/L	0.00493	590.9	mg/kg	13.20	2.23%
Cr 267.716†	1432.9	0.2294	mg/L	0.00242	614.3	mg/kg	6.47	1.05%
Cr 283.563†	5181.6	0.2367	mg/L	0.00128	633.9	mg/kg	3.43	0.54%
Cu 224.700†	237.8	-0.4425	mg/L	0.02164	-1185	mg/kg	58.0	4.89%
Cu 324.752†	7756.0	0.2145	mg/L	0.00298	574.4	mg/kg	7.98	1.39%
Cu 327.393†	3465.3	0.2226	mg/L	0.00148	596.0	mg/kg	3.97	0.67%
Fe 238.204†	71009.3	7.669	mg/L	0.0879	20540	mg/kg	235.4	1.15%
Fe 239.562†	46913.4	7.673	mg/L	0.0930	20550	mg/kg	249.0	1.21%
Fe 259.939†	86865.3	7.581	mg/L	0.1050	20300	mg/kg	281.1	1.38%
Fe 273.955†	13119.9	7.784	mg/L	0.0942	20850	mg/kg	252.2	1.21%
K 766.490†	1475.8	0.3302	mg/L	0.01860	884.2	mg/kg	49.81	5.63%
Li 610.362†	-273.6	-0.08634	mg/L	0.056139	-231.2	mg/kg	150.33	65.02%
Li 670.784†	2681.9	0.02505	mg/L	0.001078	67.07	mg/kg	2.886	4.30%
Mg 279.077†	7743.2	6.844	mg/L	0.0318	18330	mg/kg	85.1	0.46%

Saturated within auto integration window (code 4)

Mg 280.271†	1649188.4	6.367	mg/L	0.2671	17050	mg/kg	715.1	4.19%
Mg 285.213†	175663.2	6.220	mg/L	0.0425	16660	mg/kg	113.8	0.68%
Mn 257.610†	29032.1	0.6028	mg/L	0.00824	1614	mg/kg	22.1	1.37%
Mn 259.372†	40142.9	0.6049	mg/L	0.00767	1620	mg/kg	20.6	1.27%
Mn 260.568†	16016.4	0.5593	mg/L	0.00706	1498	mg/kg	18.9	1.26%
Mo 202.031†	16.2	0.04671	mg/L	0.001020	125.1	mg/kg	2.73	2.18%
Mo 203.845†	18.1	0.08809	mg/L	0.007968	235.9	mg/kg	21.34	9.05%
Mo 204.597†	-0.6	0.00908	mg/L	0.014129	24.32	mg/kg	37.835	155.59%
Na 588.995†	781.0	0.05317	mg/L	0.045950	142.4	mg/kg	123.05	86.42%
Na 589.592†	1570.0	0.1992	mg/L	0.00806	533.3	mg/kg	21.58	4.05%
Ni 221.648†	95.8	0.08556	mg/L	0.005381	229.1	mg/kg	14.41	6.29%
Ni 231.604†	219.2	0.08777	mg/L	0.004100	235.0	mg/kg	10.98	4.67%
Ni 232.003†	103.0	0.08170	mg/L	0.004520	218.8	mg/kg	12.10	5.53%
Pb 217.000†	18.5	0.2429	mg/L	0.01461	650.4	mg/kg	39.12	6.01%
Pb 220.353†	119.9	0.3052	mg/L	0.00638	817.3	mg/kg	17.07	2.09%
Sb 206.836†	-2.8	-0.03794	mg/L	0.037116	-101.6	mg/kg	99.39	97.82%
Sb 217.582†	-0.6	-0.00474	mg/L	0.012349	-12.69	mg/kg	33.068	260.59%
Se 196.026†	0.2	0.00654	mg/L	0.043319	17.52	mg/kg	116.001	662.13%
Se 203.985†	-34.2	-1.061	mg/L	0.0497	-2840	mg/kg	133.2	4.69%
Sn 235.485†	786.4	0.00138	mg/L	0.020892	3.687	mg/kg	55.9443	>999.9%
Sn 189.927†	-3.8	-0.01546	mg/L	0.027316	-41.40	mg/kg	73.146	176.67%
Sr 460.733†	850.0	0.1500	mg/L	0.02218	401.6	mg/kg	59.39	14.79%
Sr 407.771†	191719.2	0.1306	mg/L	0.00559	349.8	mg/kg	14.97	4.28%
Sr 421.552†	64758.2	0.1336	mg/L	0.00171	357.7	mg/kg	4.59	1.28%
Ti 337.279†	3413.6	0.08288	mg/L	0.003063	221.9	mg/kg	8.20	3.70%
Ti 334.940†	5176.0	0.08239	mg/L	0.001437	220.6	mg/kg	3.85	1.74%
Ti 336.121†	3871.9	0.09075	mg/L	0.000712	243.0	mg/kg	1.91	0.79%
Tl 351.924†	-46.6	-0.06869	mg/L	0.024900	-183.9	mg/kg	66.68	36.25%
Tl 190.801†	11.3	0.3006	mg/L	0.07865	805.0	mg/kg	210.62	26.16%
Tl 276.787†	360.5	0.3843	mg/L	0.02707	1029	mg/kg	72.5	7.04%
V 310.230†	691.8	0.01841	mg/L	0.001645	49.30	mg/kg	4.404	8.93%
V 292.402†	384.5	0.02584	mg/L	0.001091	69.19	mg/kg	2.922	4.22%
V 311.071†	568.7	0.02445	mg/L	0.000381	65.47	mg/kg	1.020	1.56%
Zn 206.200†	484.0	0.5088	mg/L	0.00246	1362	mg/kg	6.6	0.48%
Zn 213.857†	1812.8	0.5474	mg/L	0.00472	1466	mg/kg	12.6	0.86%
Zn 202.548†	899.6	0.5487	mg/L	0.00434	1469	mg/kg	11.6	0.79%

Sequence No.: 9
Sample ID: 0909005-06

Initial Sample Wt: 0.4999 g
Dilution: 25X

Autosampler Location: 212
Date Collected: 10/26/2009 2:11:15 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909005-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161856.9	101.8	%	2.07				2.03%
Ag 328.068†	48.4	0.00189	mg/L	0.000528	4.732	mg/kg	1.3209	27.91%
Ag 338.289†	5.4	0.00129	mg/L	0.002271	3.238	mg/kg	5.6789	175.41%
Al 308.215†	3324.8	1.884	mg/L	0.0415	4711	mg/kg	103.9	2.21%
Al 394.401†	5564.0	1.896	mg/L	0.0063	4742	mg/kg	15.7	0.33%
Al 396.153†	13249.8	1.816	mg/L	0.0204	4541	mg/kg	51.1	1.12%
As 188.979†	-18.4	-0.3194	mg/L	0.05208	-798.8	mg/kg	130.23	16.30%
As 193.696†	12.6	0.1524	mg/L	0.02067	381.0	mg/kg	51.68	13.56%
As 197.197†	-9.6	-0.1384	mg/L	0.10725	-346.1	mg/kg	268.18	77.48%
B 208.889†	15.6	0.04513	mg/L	0.018626	112.9	mg/kg	46.57	41.27%
B 249.677†	39.9	0.01286	mg/L	0.003991	32.16	mg/kg	9.980	31.04%
B 249.772†	117.1	0.01046	mg/L	0.000371	26.15	mg/kg	0.927	3.54%
Ba 233.527†	114.9	0.01748	mg/L	0.000877	43.72	mg/kg	2.192	5.01%
Ba 455.403†	6376.2	0.01756	mg/L	0.000522	43.90	mg/kg	1.305	2.97%
Ba 493.408†	6806.8	0.01789	mg/L	0.000183	44.72	mg/kg	0.457	1.02%
Be 234.861†	18.8	-0.00010	mg/L	0.000031	-0.2514	mg/kg	0.07839	31.19%
Be 313.042†	64.1	0.00012	mg/L	0.000059	0.3013	mg/kg	0.14784	49.06%
Be 313.107†	44.6	0.00015	mg/L	0.000095	0.3636	mg/kg	0.23691	65.15%
Ca 315.887†	754210.8	102.5	mg/L	2.94	256300	mg/kg	7351.4	2.87%
Ca 317.933†	1259158.8	97.01	mg/L	2.600	242600	mg/kg	6500.3	2.68%
Cd 214.440†	36.0	0.00456	mg/L	0.016112	11.40	mg/kg	40.289	353.50%
Cd 226.502†	1.4	0.00030	mg/L	0.000906	0.7502	mg/kg	2.26582	302.01%
Cd 228.802†	-3.0	-0.00906	mg/L	0.001533	-22.65	mg/kg	3.834	16.93%

Ce 413.380†	-40.7	-0.00913	mg/L	0.013748	-22.83	mg/kg	34.378	150.58%
Ce 413.764†	4.8	0.00177	mg/L	0.003332	4.433	mg/kg	8.3326	187.96%
Ce 418.660†	-24.9	0.00221	mg/L	0.005306	5.538	mg/kg	13.2688	239.58%
Co 228.616†	-1.8	-0.00097	mg/L	0.002546	-2.428	mg/kg	6.3652	262.19%
Co 230.786†	64.9	0.01159	mg/L	0.007815	28.98	mg/kg	19.541	67.42%
Co 238.892†	61.0	0.00333	mg/L	0.001868	8.317	mg/kg	4.6704	56.16%
Cr 205.560†	-3.7	-0.00206	mg/L	0.008769	-5.157	mg/kg	21.9273	425.23%
Cr 267.716†	58.6	0.00556	mg/L	0.002948	13.91	mg/kg	7.372	52.99%
Cr 283.563†	-1.3	0.00053	mg/L	0.000686	1.316	mg/kg	1.7163	130.38%
Cu 224.700†	8.7	-0.1145	mg/L	0.04376	-286.3	mg/kg	109.42	38.22%
Cu 324.752†	245.5	0.00676	mg/L	0.000630	16.91	mg/kg	1.575	9.31%
Cu 327.393†	141.7	0.00904	mg/L	0.001187	22.60	mg/kg	2.967	13.13%
Fe 238.204†	20257.3	2.188	mg/L	0.0211	5470	mg/kg	52.8	0.97%
Fe 239.562†	13419.4	2.198	mg/L	0.0225	5495	mg/kg	56.2	1.02%
Fe 259.939†	24946.5	2.177	mg/L	0.0207	5444	mg/kg	51.6	0.95%
Fe 273.955†	4061.9	2.410	mg/L	0.0354	6027	mg/kg	88.5	1.47%
K 766.490†	484.6	0.1084	mg/L	0.03046	271.2	mg/kg	76.16	28.09%
Li 610.362†	1214.5	0.00291	mg/L	0.099577	7.271	mg/kg	248.9921	>999.9%
Li 670.784†	482.1	0.00450	mg/L	0.001620	11.26	mg/kg	4.051	35.98%
Mg 279.077†	35170.0	31.11	mg/L	0.353	77800	mg/kg	883.3	1.14%
Mg 280.271†	7959461.7	30.73	mg/L	0.817	76840	mg/kg	2042.5	2.66%
Mg 285.213†	808859.0	28.64	mg/L	0.762	71610	mg/kg	1905.5	2.66%
Mn 257.610†	12970.0	0.2686	mg/L	0.00304	671.6	mg/kg	7.59	1.13%
Mn 259.372†	17679.2	0.2671	mg/L	0.00159	667.9	mg/kg	3.97	0.59%
Mn 260.568†	7757.1	0.2702	mg/L	0.00479	675.7	mg/kg	11.98	1.77%
Mo 202.031†	6.8	0.01304	mg/L	0.005146	32.62	mg/kg	12.868	39.45%
Mo 203.845†	25.3	0.1043	mg/L	0.00542	260.8	mg/kg	13.56	5.20%
Mo 204.597†	-11.9	-0.03596	mg/L	0.017920	-89.92	mg/kg	44.810	49.84%
Na 588.995†	115800.4	7.884	mg/L	0.3233	19710	mg/kg	808.5	4.10%
Na 589.592†	64256.5	8.150	mg/L	0.0895	20380	mg/kg	223.7	1.10%
Ni 221.648†	0.7	0.00050	mg/L	0.001870	1.247	mg/kg	4.6765	375.05%
Ni 231.604†	20.5	0.00542	mg/L	0.002075	13.55	mg/kg	5.188	38.29%
Ni 232.003†	-26.0	-0.01181	mg/L	0.004826	-29.54	mg/kg	12.067	40.86%
Pb 217.000†	-5.5	-0.04657	mg/L	0.020081	-116.5	mg/kg	50.21	43.12%
Pb 220.353†	14.9	0.02463	mg/L	0.010139	61.59	mg/kg	25.353	41.16%
Sb 206.836†	-2.6	-0.03310	mg/L	0.013404	-82.77	mg/kg	33.517	40.49%
Sb 217.582†	1.5	0.01099	mg/L	0.021857	27.48	mg/kg	54.654	198.92%
Se 196.026†	-0.4	-0.01160	mg/L	0.139713	-29.02	mg/kg	349.353	>999.9%
Se 203.985†	-59.6	-1.735	mg/L	0.0076	-4337	mg/kg	19.0	0.44%
Sn 235.485†	222.4	-0.03136	mg/L	0.012400	-78.41	mg/kg	31.005	39.54%
Sn 189.927†	-13.7	-0.1352	mg/L	0.06951	-338.0	mg/kg	173.82	51.42%
Sr 460.733†	778.7	0.1370	mg/L	0.00876	342.6	mg/kg	21.90	6.39%
Sr 407.771†	191752.3	0.1302	mg/L	0.00140	325.5	mg/kg	3.50	1.08%
Sr 421.552†	63798.1	0.1316	mg/L	0.00140	329.1	mg/kg	3.51	1.07%
Ti 337.279†	2926.3	0.07103	mg/L	0.000542	177.6	mg/kg	1.36	0.76%
Ti 334.940†	4025.0	0.07029	mg/L	0.000822	175.8	mg/kg	2.05	1.17%
Ti 336.121†	3258.4	0.07754	mg/L	0.001251	193.9	mg/kg	3.13	1.61%
Tl 351.924†	-19.4	-0.02910	mg/L	0.008402	-72.77	mg/kg	21.010	28.87%
Tl 190.801†	13.8	0.3168	mg/L	0.03784	792.1	mg/kg	94.61	11.94%
Tl 276.787†	1705.0	1.963	mg/L	0.0406	4908	mg/kg	101.5	2.07%
V 310.230†	-19.3	-0.00078	mg/L	0.002234	-1.949	mg/kg	5.5853	286.53%
V 292.402†	71.6	0.00399	mg/L	0.001435	9.981	mg/kg	3.5889	35.96%
V 311.071†	-82.9	-0.00420	mg/L	0.000436	-10.49	mg/kg	1.090	10.39%
Zn 206.200†	36.3	0.03011	mg/L	0.001136	75.29	mg/kg	2.840	3.77%
Zn 213.857†	187.5	0.04412	mg/L	0.001095	110.3	mg/kg	2.74	2.48%
Zn 202.548†	52.4	0.02850	mg/L	0.002096	71.28	mg/kg	5.240	7.35%

Sequence No.: 10
Sample ID: 0909005-07

Autosampler Location: 213
Date Collected: 10/26/2009 2:12:21 PM
Data Type: Original

Initial Sample Wt: 0.4835 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: 0909005-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160071.2	100.7	%	2.19				2.17%
Ag 328.068†	41.3	0.00157	mg/L	0.001228	4.052	mg/kg	3.1760	78.38%
Ag 338.289†	3.8	0.00109	mg/L	0.001658	2.808	mg/kg	4.2867	152.66%

Al 308.215†	3261.6	1.848	mg/L	0.0672	4777	mg/kg	173.8	3.64%
Al 394.401†	5352.1	1.830	mg/L	0.0263	4732	mg/kg	68.1	1.44%
Al 396.153†	12796.7	1.754	mg/L	0.0133	4536	mg/kg	34.4	0.76%
As 188.979†	-20.3	-0.3999	mg/L	0.10299	-1034	mg/kg	266.3	25.75%
As 193.696†	12.1	0.1507	mg/L	0.03164	389.7	mg/kg	81.79	20.99%
As 197.197†	-12.6	-0.2861	mg/L	0.05709	-739.7	mg/kg	147.59	19.95%
B 208.889†	14.7	0.04217	mg/L	0.013787	109.0	mg/kg	35.64	32.69%
B 249.677†	26.7	0.00844	mg/L	0.003076	21.82	mg/kg	7.952	36.44%
B 249.772†	113.2	0.00955	mg/L	0.001157	24.69	mg/kg	2.991	12.11%
Ba 233.527†	113.3	0.01724	mg/L	0.001042	44.57	mg/kg	2.695	6.05%
Ba 455.403†	6252.0	0.01721	mg/L	0.000146	44.50	mg/kg	0.376	0.85%
Ba 493.408†	6586.5	0.01731	mg/L	0.000394	44.74	mg/kg	1.019	2.28%
Be 234.861†	18.1	-0.00013	mg/L	0.000174	-0.3268	mg/kg	0.45001	137.72%
Be 313.042†	92.5	0.00017	mg/L	0.000063	0.4490	mg/kg	0.16378	36.47%
Be 313.107†	44.7	0.00015	mg/L	0.000040	0.3851	mg/kg	0.10218	26.53%
Ca 315.887†	712184.1	96.79	mg/L	1.898	250200	mg/kg	4907.6	1.96%
Ca 317.933†	1188485.4	91.56	mg/L	1.729	236700	mg/kg	4469.4	1.89%
Cd 214.440†	19.3	0.00057	mg/L	0.005634	1.468	mg/kg	14.5652	992.32%
Cd 226.502†	-0.2	-0.00015	mg/L	0.001079	-0.3839	mg/kg	2.79026	726.89%
Cd 228.802†	-0.2	-0.00802	mg/L	0.000878	-20.73	mg/kg	2.271	10.96%
Ce 413.380†	31.5	0.00619	mg/L	0.007664	16.00	mg/kg	19.815	123.83%
Ce 413.764†	-66.0	-0.01213	mg/L	0.014538	-31.36	mg/kg	37.586	119.84%
Ce 418.660†	1.2	0.00663	mg/L	0.001826	17.14	mg/kg	4.721	27.55%
Co 228.616†	2.6	0.00097	mg/L	0.000865	2.499	mg/kg	2.2359	89.47%
Co 230.786†	73.7	0.01700	mg/L	0.007829	43.96	mg/kg	20.241	46.04%
Co 238.892†	62.8	0.00360	mg/L	0.002260	9.298	mg/kg	5.8434	62.84%
Cr 205.560†	-3.3	-0.00165	mg/L	0.002212	-4.262	mg/kg	5.7198	134.22%
Cr 267.716†	54.7	0.00513	mg/L	0.001322	13.26	mg/kg	3.419	25.78%
Cr 283.563†	14.8	0.00098	mg/L	0.001105	2.539	mg/kg	2.8576	112.54%
Cu 224.700†	11.4	-0.1236	mg/L	0.04161	-319.6	mg/kg	107.58	33.66%
Cu 324.752†	258.5	0.00711	mg/L	0.000811	18.39	mg/kg	2.096	11.40%
Cu 327.393†	128.9	0.00823	mg/L	0.000620	21.28	mg/kg	1.602	7.53%
Fe 238.204†	21038.1	2.272	mg/L	0.0255	5874	mg/kg	65.9	1.12%
Fe 239.562†	13897.2	2.275	mg/L	0.0136	5883	mg/kg	35.0	0.60%
Fe 259.939†	25841.9	2.255	mg/L	0.0186	5831	mg/kg	48.1	0.83%
Fe 273.955†	4243.3	2.518	mg/L	0.0590	6510	mg/kg	152.5	2.34%
K 766.490†	758.8	0.1698	mg/L	0.04455	439.0	mg/kg	115.19	26.24%
Li 610.362†	1750.8	0.05002	mg/L	0.105043	129.3	mg/kg	271.57	210.01%
Li 670.784†	528.9	0.00494	mg/L	0.001616	12.77	mg/kg	4.177	32.71%
Mg 279.077†	33559.1	29.69	mg/L	0.211	76750	mg/kg	546.5	0.71%
Mg 280.271†	7594186.7	29.32	mg/L	0.536	75800	mg/kg	1385.5	1.83%
Mg 285.213†	770918.4	27.30	mg/L	0.509	70570	mg/kg	1315.4	1.86%
Mn 257.610†	12390.7	0.2566	mg/L	0.00226	663.4	mg/kg	5.84	0.88%
Mn 259.372†	17005.5	0.2567	mg/L	0.00163	663.6	mg/kg	4.20	0.63%
Mn 260.568†	7503.3	0.2614	mg/L	0.00657	675.7	mg/kg	16.98	2.51%
Mo 202.031†	6.2	0.01187	mg/L	0.011394	30.68	mg/kg	29.457	96.00%
Mo 203.845†	26.6	0.1119	mg/L	0.02053	289.2	mg/kg	53.09	18.36%
Mo 204.597†	-9.6	-0.02610	mg/L	0.005405	-67.47	mg/kg	13.974	20.71%
Na 588.995†	121331.7	8.261	mg/L	0.2025	21360	mg/kg	523.6	2.45%
Na 589.592†	67080.4	8.509	mg/L	0.0927	22000	mg/kg	239.7	1.09%
Ni 221.648†	0.2	0.00004	mg/L	0.002466	0.1007	mg/kg	6.37599	>999.9%
Ni 231.604†	17.3	0.00429	mg/L	0.001144	11.09	mg/kg	2.958	26.66%
Ni 232.003†	-14.7	-0.00330	mg/L	0.005129	-8.531	mg/kg	13.2588	155.42%
Pb 217.000†	-8.1	-0.08273	mg/L	0.008425	-213.9	mg/kg	21.78	10.18%
Pb 220.353†	15.7	0.02766	mg/L	0.002165	71.52	mg/kg	5.598	7.83%
Sb 206.836†	-1.9	-0.02391	mg/L	0.015910	-61.82	mg/kg	41.133	66.54%
Sb 217.582†	-0.6	-0.00472	mg/L	0.044449	-12.21	mg/kg	114.916	941.25%
Se 196.026†	-1.8	-0.05797	mg/L	0.008187	-149.9	mg/kg	21.17	14.12%
Se 203.985†	-58.4	-1.729	mg/L	0.1388	-4471	mg/kg	358.8	8.03%
Sn 235.485†	232.2	-0.03288	mg/L	0.002443	-85.01	mg/kg	6.315	7.43%
Sn 189.927†	-13.2	-0.1317	mg/L	0.04743	-340.4	mg/kg	122.63	36.03%
Sr 460.733†	640.9	0.1129	mg/L	0.02178	291.8	mg/kg	56.30	19.29%
Sr 407.771†	186451.0	0.1266	mg/L	0.00126	327.3	mg/kg	3.27	1.00%
Sr 421.552†	61871.8	0.1276	mg/L	0.00139	330.0	mg/kg	3.59	1.09%
Ti 337.279†	2735.1	0.06639	mg/L	0.000491	171.6	mg/kg	1.27	0.74%
Ti 334.940†	3653.7	0.06422	mg/L	0.001045	166.0	mg/kg	2.70	1.63%
Ti 336.121†	3032.2	0.07219	mg/L	0.001542	186.6	mg/kg	3.99	2.14%
Tl 351.924†	-20.0	-0.02770	mg/L	0.028389	-71.63	mg/kg	73.393	102.47%
Tl 190.801†	14.6	0.3598	mg/L	0.10150	930.3	mg/kg	262.40	28.21%
Tl 276.787†	1643.8	1.913	mg/L	0.1061	4946	mg/kg	274.2	5.54%
V 310.230†	23.9	0.00044	mg/L	0.003098	1.136	mg/kg	8.0099	705.36%

V 292.402†	65.1	0.00367 mg/L	0.000591	9.501 mg/kg	1.5286	16.09%
V 311.071†	-72.2	-0.00372 mg/L	0.000271	-9.620 mg/kg	0.7014	7.29%
Zn 206.200†	36.1	0.03036 mg/L	0.001655	78.49 mg/kg	4.278	5.45%
Zn 213.857†	182.1	0.04319 mg/L	0.001219	111.7 mg/kg	3.15	2.82%
Zn 202.548†	52.8	0.02895 mg/L	0.001075	74.84 mg/kg	2.780	3.71%

Sequence No.: 11
Sample ID: 0909006-01

Initial Sample Wt: 0.4513 g
Dilution: 25X

Autosampler Location: 217
Date Collected: 10/26/2009 2:13:27 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909006-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165059.4	103.9	%	1.25				1.20%
Ag 328.068†	26.8	0.00136	mg/L	0.000889	3.755	mg/kg	2.4623	65.57%
Ag 338.289†	-4.2	0.00017	mg/L	0.002021	0.4778	mg/kg	5.59859	>999.9%
Al 308.215†	4611.7	2.612	mg/L	0.0104	7235	mg/kg	28.9	0.40%
Al 394.401†	7570.5	2.615	mg/L	0.0138	7244	mg/kg	38.2	0.53%
Al 396.153†	18172.8	2.522	mg/L	0.0370	6984	mg/kg	102.5	1.47%
As 188.979†	-12.0	-0.2462	mg/L	0.02990	-681.9	mg/kg	82.82	12.15%
As 193.696†	9.7	0.1472	mg/L	0.03558	407.6	mg/kg	98.55	24.18%
As 197.197†	-7.1	-0.1329	mg/L	0.04607	-368.0	mg/kg	127.61	34.67%
B 208.889†	2.1	0.00334	mg/L	0.017066	9.257	mg/kg	47.2691	510.61%
B 249.677†	24.4	0.00710	mg/L	0.001435	19.65	mg/kg	3.975	20.22%
B 249.772†	157.7	0.00509	mg/L	0.000217	14.10	mg/kg	0.601	4.26%
Ba 233.527†	185.0	0.02809	mg/L	0.000371	77.80	mg/kg	1.028	1.32%
Ba 455.403†	10368.2	0.02855	mg/L	0.000587	79.07	mg/kg	1.626	2.06%
Ba 493.408†	11114.5	0.02919	mg/L	0.000722	80.86	mg/kg	2.001	2.47%
Be 234.861†	78.2	0.00020	mg/L	0.000061	0.5605	mg/kg	0.16893	30.14%
Be 313.042†	36.6	0.00007	mg/L	0.000048	0.2054	mg/kg	0.13213	64.31%
Be 313.107†	27.4	0.00009	mg/L	0.000039	0.2422	mg/kg	0.10752	44.40%
Ca 315.887†	390633.7	53.09	mg/L	2.192	147000	mg/kg	6071.7	4.13%
Ca 317.933†	651904.5	50.22	mg/L	1.992	139100	mg/kg	5516.3	3.97%
Cd 214.440†	49.5	0.00969	mg/L	0.009152	26.83	mg/kg	25.349	94.49%
Cd 226.502†	1.7	-0.00013	mg/L	0.000641	-0.3476	mg/kg	1.77607	510.96%
Cd 228.802†	2.2	-0.00579	mg/L	0.001728	-16.03	mg/kg	4.786	29.87%
Ce 413.380†	50.9	0.00956	mg/L	0.006338	26.48	mg/kg	17.554	66.29%
Ce 413.764†	-10.4	-0.00027	mg/L	0.013699	-0.7547	mg/kg	37.94265	>999.9%
Ce 418.660†	43.2	0.01140	mg/L	0.020459	31.59	mg/kg	56.668	179.39%
Co 228.616†	-2.1	-0.00119	mg/L	0.001267	-3.306	mg/kg	3.5102	106.17%
Co 230.786†	24.7	-0.00066	mg/L	0.003385	-1.822	mg/kg	9.3754	514.64%
Co 238.892†	119.4	0.00582	mg/L	0.001000	16.11	mg/kg	2.768	17.19%
Cr 205.560†	1.3	0.00451	mg/L	0.004145	12.48	mg/kg	11.481	91.99%
Cr 267.716†	47.7	0.00736	mg/L	0.001242	20.39	mg/kg	3.441	16.87%
Cr 283.563†	344.4	0.00857	mg/L	0.000295	23.73	mg/kg	0.818	3.45%
Cu 224.700†	42.7	-0.1187	mg/L	0.02646	-328.8	mg/kg	73.28	22.29%
Cu 324.752†	1283.4	0.03536	mg/L	0.000595	97.94	mg/kg	1.648	1.68%
Cu 327.393†	601.0	0.03857	mg/L	0.000766	106.8	mg/kg	2.12	1.99%
Fe 238.204†	60482.5	6.532	mg/L	0.0973	18090	mg/kg	269.5	1.49%
Fe 239.562†	39988.6	6.540	mg/L	0.1250	18120	mg/kg	346.3	1.91%
Fe 259.939†	74033.2	6.461	mg/L	0.1165	17900	mg/kg	322.7	1.80%
Fe 273.955†	10559.8	6.266	mg/L	0.0701	17360	mg/kg	194.2	1.12%
K 766.490†	1593.1	0.3565	mg/L	0.02492	987.4	mg/kg	69.03	6.99%
Li 610.362†	-290.9	-0.07577	mg/L	0.054859	-209.9	mg/kg	151.95	72.40%
Li 670.784†	610.1	0.00570	mg/L	0.001039	15.78	mg/kg	2.877	18.23%
Mg 279.077†	6998.7	6.186	mg/L	0.0399	17130	mg/kg	110.6	0.65%
Mg 280.271†	1483479.3	5.727	mg/L	0.2378	15860	mg/kg	658.5	4.15%
Mg 285.213†	159017.5	5.630	mg/L	0.0946	15600	mg/kg	262.1	1.68%
Mn 257.610†	7459.2	0.1548	mg/L	0.00133	428.6	mg/kg	3.69	0.86%
Mn 259.372†	9788.7	0.1428	mg/L	0.00356	395.5	mg/kg	9.86	2.49%
Mn 260.568†	4087.1	0.1424	mg/L	0.00124	394.5	mg/kg	3.45	0.87%
Mo 202.031†	2.5	0.00447	mg/L	0.007350	12.39	mg/kg	20.358	164.32%
Mo 203.845†	6.5	0.02819	mg/L	0.010649	78.07	mg/kg	29.496	37.78%
Mo 204.597†	-5.1	-0.01346	mg/L	0.012471	-37.28	mg/kg	34.543	92.65%
Na 588.995†	4457.4	0.3035	mg/L	0.05435	840.6	mg/kg	150.53	17.91%
Na 589.592†	3373.0	0.4279	mg/L	0.01183	1185	mg/kg	32.8	2.77%
Ni 221.648†	9.6	0.00822	mg/L	0.004580	22.77	mg/kg	12.686	55.72%

Ni 231.604†	20.3	0.00676 mg/L	0.002518	18.73 mg/kg	6.975	37.24%
Ni 232.003†	-9.4	0.00077 mg/L	0.001804	2.135 mg/kg	4.9967	234.09%
Pb 217.000†	-1.7	-0.02068 mg/L	0.061337	-57.28 mg/kg	169.889	296.60%
Pb 220.353†	20.6	0.04709 mg/L	0.009165	130.4 mg/kg	25.39	19.46%
Sb 206.836†	-1.9	-0.02346 mg/L	0.033365	-64.98 mg/kg	92.413	142.21%
Sb 217.582†	-3.8	-0.02747 mg/L	0.005381	-76.08 mg/kg	14.905	19.59%
Se 196.026†	0.0	0.00032 mg/L	0.039844	0.8780 mg/kg	110.35929	>999.9%
Se 203.985†	-33.2	-0.9854 mg/L	0.03424	-2729 mg/kg	94.8	3.47%
Sn 235.485†	665.5	0.04880 mg/L	0.018885	135.2 mg/kg	52.31	38.70%
Sn 189.927†	-9.3	-0.1025 mg/L	0.00924	-284.0 mg/kg	25.58	9.01%
Sr 460.733†	528.7	0.09315 mg/L	0.001761	258.0 mg/kg	4.88	1.89%
Sr 407.771†	122769.9	0.08348 mg/L	0.003457	231.2 mg/kg	9.57	4.14%
Sr 421.552†	41807.5	0.08624 mg/L	0.001465	238.9 mg/kg	4.06	1.70%
Ti 337.279†	2260.0	0.05488 mg/L	0.001087	152.0 mg/kg	3.01	1.98%
Ti 334.940†	3503.8	0.05715 mg/L	0.000151	158.3 mg/kg	0.42	0.27%
Ti 336.121†	2470.7	0.05825 mg/L	0.000149	161.3 mg/kg	0.41	0.26%
Tl 351.924†	-39.5	-0.05783 mg/L	0.011632	-160.2 mg/kg	32.22	20.11%
Tl 190.801†	8.3	0.2018 mg/L	0.09518	558.9 mg/kg	263.62	47.17%
Tl 276.787†	330.7	0.3648 mg/L	0.02543	1010 mg/kg	70.4	6.97%
V 310.230†	-98.7	-0.00287 mg/L	0.001432	-7.961 mg/kg	3.9667	49.82%
V 292.402†	94.1	0.00510 mg/L	0.000419	14.12 mg/kg	1.161	8.23%
V 311.071†	82.9	0.00314 mg/L	0.000688	8.704 mg/kg	1.9068	21.91%
Zn 206.200†	83.5	0.08429 mg/L	0.001707	233.5 mg/kg	4.73	2.03%
Zn 213.857†	336.5	0.09590 mg/L	0.001733	265.6 mg/kg	4.80	1.81%
Zn 202.548†	145.6	0.08727 mg/L	0.002879	241.7 mg/kg	7.97	3.30%

Sequence No.: 12
Sample ID: B910044-DUP1

Autosampler Location: 218
Date Collected: 10/26/2009 2:14:33 PM
Data Type: Original

Initial Sample Wt: 0.5078 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: B910044-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	166053.5	104.5	%	0.70				0.67%
Ag 328.068†	9.8	0.00080	mg/L	0.002894	1.963	mg/kg	7.1250	362.93%
Ag 338.289†	-23.0	-0.00158	mg/L	0.001250	-3.895	mg/kg	3.0776	79.01%
Al 308.215†	4750.5	2.691	mg/L	0.0194	6624	mg/kg	47.7	0.72%
Al 394.401†	7935.0	2.736	mg/L	0.0432	6736	mg/kg	106.3	1.58%
Al 396.153†	18795.8	2.608	mg/L	0.0393	6419	mg/kg	96.8	1.51%
As 188.979†	-13.1	-0.2709	mg/L	0.07405	-666.9	mg/kg	182.29	27.34%
As 193.696†	9.3	0.1316	mg/L	0.03102	323.8	mg/kg	76.36	23.58%
As 197.197†	-11.3	-0.3043	mg/L	0.05433	-749.1	mg/kg	133.74	17.85%
B 208.889†	6.2	0.01967	mg/L	0.014129	48.42	mg/kg	34.780	71.83%
B 249.677†	15.6	0.00415	mg/L	0.001291	10.22	mg/kg	3.179	31.11%
B 249.772†	157.0	0.00490	mg/L	0.001344	12.05	mg/kg	3.307	27.45%
Ba 233.527†	193.3	0.02934	mg/L	0.001221	72.22	mg/kg	3.005	4.16%
Ba 455.403†	10753.0	0.02961	mg/L	0.000468	72.88	mg/kg	1.152	1.58%
Ba 493.408†	11391.6	0.02992	mg/L	0.000414	73.65	mg/kg	1.018	1.38%
Be 234.861†	77.9	0.00019	mg/L	0.000117	0.4775	mg/kg	0.28911	60.55%
Be 313.042†	29.6	0.00006	mg/L	0.000018	0.1477	mg/kg	0.04316	29.23%
Be 313.107†	30.3	0.00010	mg/L	0.000075	0.2339	mg/kg	0.18502	79.09%
Ca 315.887†	418320.4	56.85	mg/L	1.623	139900	mg/kg	3995.6	2.86%
Ca 317.933†	697845.8	53.76	mg/L	1.568	132300	mg/kg	3860.8	2.92%
Cd 214.440†	-8.1	-0.00504	mg/L	0.004900	-12.41	mg/kg	12.062	97.21%
Cd 226.502†	2.8	0.00018	mg/L	0.001697	0.4426	mg/kg	4.17786	944.03%
Cd 228.802†	-0.2	-0.00615	mg/L	0.001123	-15.13	mg/kg	2.764	18.27%
Ce 413.380†	97.0	0.01936	mg/L	0.003511	47.67	mg/kg	8.643	18.13%
Ce 413.764†	45.5	0.01074	mg/L	0.009715	26.43	mg/kg	23.916	90.49%
Ce 418.660†	54.7	0.01374	mg/L	0.009887	33.83	mg/kg	24.339	71.94%
Co 228.616†	1.3	0.00027	mg/L	0.002724	0.6769	mg/kg	6.70578	990.73%
Co 230.786†	21.9	-0.00256	mg/L	0.002588	-6.306	mg/kg	6.3701	101.02%
Co 238.892†	128.6	0.00786	mg/L	0.001455	19.35	mg/kg	3.583	18.52%
Cr 205.560†	-1.0	0.00064	mg/L	0.003863	1.572	mg/kg	9.5087	604.87%
Cr 267.716†	42.0	0.00646	mg/L	0.001295	15.90	mg/kg	3.187	20.05%
Cr 283.563†	340.5	0.00834	mg/L	0.000232	20.53	mg/kg	0.571	2.78%
Cu 224.700†	46.9	-0.09973	mg/L	0.044765	-245.5	mg/kg	110.19	44.89%
Cu 324.752†	1279.0	0.03524	mg/L	0.000885	86.75	mg/kg	2.179	2.51%

Cu 327.393†	618.0	0.03966 mg/L	0.000936	97.62 mg/kg	2.305	2.36%
Fe 238.204†	62218.6	6.719 mg/L	0.0661	16540 mg/kg	162.8	0.98%
Fe 239.562†	41136.1	6.728 mg/L	0.0656	16560 mg/kg	161.5	0.97%
Fe 259.939†	76245.2	6.654 mg/L	0.0702	16380 mg/kg	172.9	1.06%
Fe 273.955†	10602.0	6.291 mg/L	0.0382	15490 mg/kg	94.1	0.61%
K 766.490†	1879.8	0.4206 mg/L	0.03327	1035 mg/kg	81.9	7.91%
Li 610.362†	-593.0	-0.1028 mg/L	0.03296	-253.1 mg/kg	81.13	32.05%
Li 670.784†	550.0	0.00514 mg/L	0.001520	12.65 mg/kg	3.741	29.59%
Mg 279.077†	7025.6	6.210 mg/L	0.0453	15290 mg/kg	111.6	0.73%
Mg 280.271†	1481474.2	5.720 mg/L	0.1672	14080 mg/kg	411.6	2.92%
Mg 285.213†	160450.6	5.681 mg/L	0.0700	13980 mg/kg	172.3	1.23%
Mn 257.610†	7632.9	0.1584 mg/L	0.00153	389.8 mg/kg	3.77	0.97%
Mn 259.372†	10066.6	0.1471 mg/L	0.00171	362.0 mg/kg	4.22	1.16%
Mn 260.568†	4168.8	0.1453 mg/L	0.00097	357.6 mg/kg	2.39	0.67%
Mo 202.031†	1.7	0.00150 mg/L	0.014068	3.691 mg/kg	34.6286	938.14%
Mo 203.845†	7.5	0.03326 mg/L	0.000938	81.88 mg/kg	2.310	2.82%
Mo 204.597†	-7.1	-0.02231 mg/L	0.010456	-54.93 mg/kg	25.738	46.86%
Na 588.995†	4056.1	0.2762 mg/L	0.03514	679.8 mg/kg	86.50	12.72%
Na 589.592†	3500.3	0.4441 mg/L	0.00520	1093 mg/kg	12.8	1.17%
Ni 221.648†	7.9	0.00667 mg/L	0.003471	16.42 mg/kg	8.544	52.05%
Ni 231.604†	17.1	0.00535 mg/L	0.002017	13.18 mg/kg	4.964	37.66%
Ni 232.003†	-2.2	0.00682 mg/L	0.004175	16.80 mg/kg	10.278	61.18%
Pb 217.000†	-0.1	0.00064 mg/L	0.052217	1.569 mg/kg	128.5371	>999.9%
Pb 220.353†	22.3	0.05092 mg/L	0.008082	125.3 mg/kg	19.90	15.87%
Sb 206.836†	-1.0	-0.01301 mg/L	0.029915	-32.02 mg/kg	73.639	229.96%
Sb 217.582†	-1.9	-0.01374 mg/L	0.046233	-33.83 mg/kg	113.806	336.39%
Se 196.026†	-0.5	-0.01630 mg/L	0.100889	-40.13 mg/kg	248.349	618.84%
Se 203.985†	-36.0	-1.074 mg/L	0.0744	-2643 mg/kg	183.2	6.93%
Sn 235.485†	675.6	0.06008 mg/L	0.001268	147.9 mg/kg	3.12	2.11%
Sn 189.927†	-8.9	-0.09502 mg/L	0.030377	-233.9 mg/kg	74.78	31.97%
Sr 460.733†	542.5	0.09552 mg/L	0.004939	235.1 mg/kg	12.16	5.17%
Sr 407.771†	121859.7	0.08281 mg/L	0.002166	203.8 mg/kg	5.33	2.62%
Sr 421.552†	41684.0	0.08598 mg/L	0.001107	211.7 mg/kg	2.72	1.29%
Ti 337.279†	2440.3	0.05925 mg/L	0.001443	145.9 mg/kg	3.55	2.44%
Ti 334.940†	3790.6	0.06177 mg/L	0.000535	152.0 mg/kg	1.32	0.87%
Ti 336.121†	2681.2	0.06320 mg/L	0.000548	155.6 mg/kg	1.35	0.87%
Tl 351.924†	-40.0	-0.06028 mg/L	0.025895	-148.4 mg/kg	63.74	42.96%
Tl 190.801†	8.9	0.2180 mg/L	0.02454	536.5 mg/kg	60.40	11.26%
Tl 276.787†	333.2	0.3693 mg/L	0.01214	909.0 mg/kg	29.89	3.29%
V 310.230†	-116.9	-0.00338 mg/L	0.000837	-8.324 mg/kg	2.0604	24.75%
V 292.402†	110.2	0.00609 mg/L	0.001502	14.99 mg/kg	3.697	24.66%
V 311.071†	101.8	0.00400 mg/L	0.000888	9.834 mg/kg	2.1865	22.23%
Zn 206.200†	84.7	0.08526 mg/L	0.004101	209.9 mg/kg	10.09	4.81%
Zn 213.857†	352.4	0.1003 mg/L	0.00055	246.8 mg/kg	1.34	0.54%
Zn 202.548†	148.1	0.08869 mg/L	0.001285	218.3 mg/kg	3.16	1.45%

Sequence No.: 13
Sample ID: B910044-MS1

Autosampler Location: 219
Date Collected: 10/26/2009 2:15:38 PM
Data Type: Original

Initial Sample Wt: 0.4618 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: B910044-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162863.5	102.5	%	1.52				1.48%
Ag 328.068†	143.2	0.00561	mg/L	0.000452	15.18	mg/kg	1.223	8.06%
Ag 338.289†	75.2	0.00545	mg/L	0.000524	14.74	mg/kg	1.417	9.61%
Al 308.215†	4620.3	2.616	mg/L	0.0648	7081	mg/kg	175.3	2.48%
Al 394.401†	7551.4	2.602	mg/L	0.0251	7043	mg/kg	68.0	0.97%
Al 396.153†	18047.8	2.504	mg/L	0.0061	6777	mg/kg	16.5	0.24%
As 188.979†	-8.4	-0.1278	mg/L	0.08305	-345.9	mg/kg	224.81	65.00%
As 193.696†	11.0	0.1778	mg/L	0.07066	481.2	mg/kg	191.27	39.75%
As 197.197†	-7.7	-0.1702	mg/L	0.15806	-460.7	mg/kg	427.85	92.88%
B 208.889†	12.8	0.04697	mg/L	0.018210	127.2	mg/kg	49.29	38.77%
B 249.677†	140.3	0.04572	mg/L	0.001728	123.8	mg/kg	4.68	3.78%
B 249.772†	408.5	0.04428	mg/L	0.001478	119.9	mg/kg	4.00	3.34%
Ba 233.527†	1532.2	0.2349	mg/L	0.00519	635.8	mg/kg	14.05	2.21%
Ba 455.403†	83088.9	0.2288	mg/L	0.00480	619.2	mg/kg	12.98	2.10%

Ba 493.408†	86713.9	0.2280 mg/L	0.00497	617.1 mg/kg	13.44	2.18%
Be 234.861†	202.8	0.00217 mg/L	0.000107	5.880 mg/kg	0.2895	4.92%
Be 313.042†	1256.0	0.00235 mg/L	0.000092	6.367 mg/kg	0.2480	3.89%
Be 313.107†	662.7	0.00239 mg/L	0.000082	6.466 mg/kg	0.2211	3.42%
Ca 315.887†	375123.4	50.98 mg/L	1.137	138000 mg/kg	3078.3	2.23%
Ca 317.933†	627034.7	48.31 mg/L	1.085	130800 mg/kg	2936.7	2.25%
Cd 214.440†	153.0	0.03607 mg/L	0.001639	97.63 mg/kg	4.435	4.54%
Cd 226.502†	148.7	0.03917 mg/L	0.001503	106.0 mg/kg	4.07	3.84%
Cd 228.802†	130.9	0.02808 mg/L	0.002585	76.01 mg/kg	6.998	9.21%
Ce 413.380†	105.4	0.02124 mg/L	0.003987	57.50 mg/kg	10.791	18.77%
Ce 413.764†	82.0	0.01784 mg/L	0.002669	48.29 mg/kg	7.224	14.96%
Ce 418.660†	-39.2	-0.00367 mg/L	0.018015	-9.942 mg/kg	48.7629	490.46%
Co 228.616†	45.1	0.01930 mg/L	0.000560	52.23 mg/kg	1.517	2.90%
Co 230.786†	71.3	0.02276 mg/L	0.006117	61.60 mg/kg	16.557	26.88%
Co 238.892†	184.4	0.02355 mg/L	0.000887	63.76 mg/kg	2.401	3.77%
Cr 205.560†	121.6	0.2099 mg/L	0.00604	568.1 mg/kg	16.34	2.88%
Cr 267.716†	1347.4	0.2157 mg/L	0.00402	583.8 mg/kg	10.88	1.86%
Cr 283.563†	4795.8	0.2209 mg/L	0.00496	597.8 mg/kg	13.43	2.25%
Cu 224.700†	236.9	-0.4467 mg/L	0.04028	-1209 mg/kg	109.0	9.02%
Cu 324.752†	7786.6	0.2154 mg/L	0.00358	583.1 mg/kg	9.70	1.66%
Cu 327.393†	3407.8	0.2189 mg/L	0.00120	592.5 mg/kg	3.24	0.55%
Fe 238.204†	52806.3	5.703 mg/L	0.0287	15440 mg/kg	77.8	0.50%
Fe 239.562†	34899.9	5.708 mg/L	0.0165	15450 mg/kg	44.7	0.29%
Fe 259.939†	64660.7	5.643 mg/L	0.0161	15270 mg/kg	43.6	0.29%
Fe 273.955†	9810.1	5.820 mg/L	0.0490	15750 mg/kg	132.6	0.84%
K 766.490†	1568.7	0.3510 mg/L	0.04961	950.1 mg/kg	134.28	14.13%
Li 610.362†	845.4	0.01250 mg/L	0.075657	33.83 mg/kg	204.787	605.36%
Li 670.784†	2709.7	0.02531 mg/L	0.001399	68.50 mg/kg	3.788	5.53%
Mg 279.077†	6328.7	5.594 mg/L	0.0313	15140 mg/kg	84.7	0.56%
Mg 280.271†	1479039.7	5.710 mg/L	0.1338	15460 mg/kg	362.3	2.34%
Mg 285.213†	157000.9	5.559 mg/L	0.0179	15050 mg/kg	48.6	0.32%
Mn 257.610†	26127.8	0.5425 mg/L	0.00175	1469 mg/kg	4.7	0.32%
Mn 259.372†	35784.5	0.5404 mg/L	0.00144	1463 mg/kg	3.9	0.27%
Mn 260.568†	14401.2	0.5029 mg/L	0.00223	1361 mg/kg	6.0	0.44%
Mo 202.031†	17.0	0.04966 mg/L	0.003557	134.4 mg/kg	9.63	7.16%
Mo 203.845†	11.1	0.05286 mg/L	0.008682	143.1 mg/kg	23.50	16.42%
Mo 204.597†	2.7	0.02270 mg/L	0.008278	61.44 mg/kg	22.407	36.47%
Na 588.995†	5426.5	0.3695 mg/L	0.07234	1000 mg/kg	195.8	19.58%
Na 589.592†	3227.7	0.4094 mg/L	0.00137	1108 mg/kg	3.7	0.34%
Ni 221.648†	93.2	0.08341 mg/L	0.004379	225.8 mg/kg	11.85	5.25%
Ni 231.604†	208.6	0.08372 mg/L	0.003945	226.6 mg/kg	10.68	4.71%
Ni 232.003†	97.1	0.07542 mg/L	0.003863	204.1 mg/kg	10.46	5.12%
Pb 217.000†	12.3	0.1626 mg/L	0.03404	440.2 mg/kg	92.13	20.93%
Pb 220.353†	100.5	0.2558 mg/L	0.00900	692.4 mg/kg	24.35	3.52%
Sb 206.836†	-1.8	-0.02592 mg/L	0.033087	-70.17 mg/kg	89.561	127.64%
Sb 217.582†	0.3	0.00204 mg/L	0.032012	5.530 mg/kg	86.6510	>999.9%
Se 196.026†	1.5	0.04853 mg/L	0.104343	131.4 mg/kg	282.44	215.00%
Se 203.985†	-26.9	-0.8260 mg/L	0.08875	-2236 mg/kg	240.2	10.75%
Sn 235.485†	597.1	0.01490 mg/L	0.014878	40.33 mg/kg	40.271	99.86%
Sn 189.927†	-6.9	-0.06793 mg/L	0.023056	-183.9 mg/kg	62.41	33.94%
Sr 460.733†	707.2	0.1247 mg/L	0.01803	337.6 mg/kg	48.81	14.46%
Sr 407.771†	175201.8	0.1194 mg/L	0.00246	323.2 mg/kg	6.66	2.06%
Sr 421.552†	58874.3	0.1214 mg/L	0.00037	328.7 mg/kg	1.00	0.30%
Ti 337.279†	2925.5	0.07103 mg/L	0.001858	192.3 mg/kg	5.03	2.62%
Ti 334.940†	4306.0	0.06858 mg/L	0.001094	185.6 mg/kg	2.96	1.59%
Ti 336.121†	3299.0	0.07730 mg/L	0.001692	209.2 mg/kg	4.58	2.19%
Tl 351.924†	-20.9	-0.03487 mg/L	0.028420	-94.39 mg/kg	76.927	81.50%
Tl 190.801†	8.5	0.2153 mg/L	0.06859	582.8 mg/kg	185.66	31.86%
Tl 276.787†	334.4	0.4102 mg/L	0.02629	1110 mg/kg	71.2	6.41%
V 310.230†	135.2	0.00323 mg/L	0.002346	8.730 mg/kg	6.3494	72.73%
V 292.402†	373.6	0.02570 mg/L	0.000724	69.57 mg/kg	1.961	2.82%
V 311.071†	561.9	0.02434 mg/L	0.000530	65.88 mg/kg	1.434	2.18%
Zn 206.200†	450.5	0.4740 mg/L	0.00697	1283 mg/kg	18.9	1.47%
Zn 213.857†	1670.5	0.5052 mg/L	0.01076	1367 mg/kg	29.1	2.13%
Zn 202.548†	826.9	0.5044 mg/L	0.01148	1365 mg/kg	31.1	2.28%

Sequence No.: 14
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 2:17:02 PM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157084.2	98.84	%	1.240				1.25%
Ag 328.068†	5.2	0.00021	mg/L	0.000605				286.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	13.4	0.00130	mg/L	0.000983				75.77%
Al 308.215†	9.2	0.00533	mg/L	0.005361				100.64%
Al 394.401†	49.5	0.01556	mg/L	0.007357				47.28%
Al 396.153†	148.9	0.02098	mg/L	0.014301				68.17%
As 188.979†	0.7	0.02381	mg/L	0.014556				61.13%
As 193.696†	1.6	0.03682	mg/L	0.047288				128.42%
As 197.197†	0.4	0.01591	mg/L	0.052637				330.93%
B 208.889†	2.1	0.00827	mg/L	0.012704				153.59%
B 249.677†	10.8	0.00359	mg/L	0.002041				56.79%
B 249.772†	1.7	0.00024	mg/L	0.000723				307.36%
Ba 233.527†	-1.5	-0.00024	mg/L	0.000882				375.07%
Ba 455.403†	-58.7	-0.00016	mg/L	0.000290				179.63%
Ba 493.408†	32.8	0.00009	mg/L	0.000166				192.11%
Be 234.861†	-0.8	-0.00001	mg/L	0.000056				378.27%
Be 313.042†	-6.8	-0.00001	mg/L	0.000011				106.28%
Be 313.107†	3.1	0.00001	mg/L	0.000054				507.67%
Ca 315.887†	324.7	0.04414	mg/L	0.019347				43.83%
Ca 317.933†	569.2	0.04385	mg/L	0.018982				43.29%
Cd 214.440†	-14.7	-0.00370	mg/L	0.007769				209.73%
Cd 226.502†	0.4	0.00009	mg/L	0.000321				341.25%
Cd 228.802†	1.3	-0.00071	mg/L	0.001902				267.07%
Ce 413.380†	-34.9	-0.00742	mg/L	0.015511				208.96%
Ce 413.764†	20.6	0.00405	mg/L	0.005345				131.86%
Ce 418.660†	-75.6	-0.01382	mg/L	0.009749				70.56%
Co 228.616†	-3.5	-0.00153	mg/L	0.000378				24.67%
Co 230.786†	16.9	0.00868	mg/L	0.005560				64.03%
Co 238.892†	-2.4	-0.00061	mg/L	0.000952				155.00%
Cr 205.560†	-0.9	-0.00159	mg/L	0.002410				151.75%
Cr 267.716†	0.2	0.00004	mg/L	0.000505				>999.9%
Cr 283.563†	-1.0	-0.00006	mg/L	0.000389				642.24%
Cu 224.700†	1.7	-0.02955	mg/L	0.021110				71.43%
Cu 324.752†	4.5	0.00013	mg/L	0.000397				317.08%
Cu 327.393†	5.3	0.00034	mg/L	0.001671				495.32%
Fe 238.204†	40.5	0.00437	mg/L	0.001789				40.97%
Fe 239.562†	22.4	0.00367	mg/L	0.001858				50.67%
Fe 259.939†	47.5	0.00415	mg/L	0.001878				45.29%
Fe 273.955†	12.2	0.00725	mg/L	0.000255				3.52%
K 766.490†	57.4	0.01285	mg/L	0.034840				271.07%
Li 610.362†	2586.8	0.2035	mg/L	0.06403				31.47%
Li 670.784†	126.4	0.00118	mg/L	0.000808				68.43%
Mg 279.077†	10.2	0.00900	mg/L	0.010571				117.40%
Mg 280.271†	1250.1	0.00483	mg/L	0.002498				51.74%
Mg 285.213†	142.8	0.00505	mg/L	0.002389				47.27%
Mn 257.610†	11.4	0.00024	mg/L	0.000117				49.48%
Mn 259.372†	25.8	0.00041	mg/L	0.000292				70.71%
Mn 260.568†	1.0	0.00004	mg/L	0.000095				263.97%
Mo 202.031†	-2.3	-0.00728	mg/L	0.003962				54.42%
Mo 203.845†	2.0	0.01015	mg/L	0.006592				64.92%
Mo 204.597†	-1.2	-0.00542	mg/L	0.005638				103.98%
Na 588.995†	1716.6	0.1169	mg/L	0.05830				49.88%
Na 589.592†	-32.8	-0.00415	mg/L	0.006774				163.28%
Ni 221.648†	1.4	0.00124	mg/L	0.001491				120.27%
Ni 231.604†	-4.4	-0.00179	mg/L	0.004506				252.08%
Ni 232.003†	1.9	0.00157	mg/L	0.002100				133.80%
Pb 217.000†	-1.5	-0.01921	mg/L	0.031862				165.89%
Pb 220.353†	-0.5	-0.00137	mg/L	0.002216				161.33%
Sb 206.836†	-4.2	-0.05177	mg/L	0.032063				61.93%
Sb 217.582†	2.5	0.01836	mg/L	0.012538				68.29%
Se 196.026†	-2.1	-0.06694	mg/L	0.043404				64.84%
Se 203.985†	-0.2	-0.00328	mg/L	0.030674				935.19%
Sn 235.485†	2.9	0.00314	mg/L	0.016486				525.14%
Sn 189.927†	2.5	0.03786	mg/L	0.012211				32.25%
Sr 460.733†	-86.9	-0.01530	mg/L	0.015339				100.26%
Sr 407.771†	407.2	0.00028	mg/L	0.000027				9.62%

Sr 421.552†	111.7	0.00023	mg/L	0.000142			61.85%
Ti 337.279†	-19.1	-0.00046	mg/L	0.000657			141.71%
Ti 334.940†	-6.1	-0.00009	mg/L	0.000214			251.08%
Ti 336.121†	12.6	0.00029	mg/L	0.000319			108.24%
Tl 351.924†	0.3	-0.00026	mg/L	0.008312			>999.9%
Tl 190.801†	0.4	0.01730	mg/L	0.049756			287.63%
Tl 276.787†	17.6	0.04192	mg/L	0.024857			59.29%
V 310.230†	-57.2	-0.00154	mg/L	0.001688			109.68%
V 292.402†	-9.8	-0.00079	mg/L	0.001008			127.25%
V 311.071†	-6.5	-0.00028	mg/L	0.000238			85.39%
Zn 206.200†	1.7	0.00185	mg/L	0.001746			94.60%
Zn 213.857†	-1.8	-0.00055	mg/L	0.000798			143.99%
Zn 202.548†	-3.9	-0.00240	mg/L	0.002133			88.76%

All analyte(s) passed QC.

==========

Sequence No.: 15 **Autosampler Location: 6**
Sample ID: LCB **Date Collected: 10/26/2009 2:18:06 PM**
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159876.2	100.6	%	0.24				0.24%
Ag 328.068†	12.5	0.00051	mg/L	0.001552				306.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-2.1	-0.00019	mg/L	0.000068				35.90%
Al 308.215†	-8.2	-0.00467	mg/L	0.005587				119.63%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	1.4	-0.00335	mg/L	0.004934				147.41%
Al 396.153†	153.7	0.02145	mg/L	0.008704				40.58%
As 188.979†	0.5	0.01832	mg/L	0.013483				73.60%
As 193.696†	2.1	0.04713	mg/L	0.060912				129.24%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	0.6	0.02593	mg/L	0.177860				685.85%
B 208.889†	3.6	0.01430	mg/L	0.014354				100.36%
B 249.677†	6.8	0.00227	mg/L	0.003998				175.95%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-5.1	-0.00077	mg/L	0.000765				99.34%
Ba 233.527†	0.9	0.00014	mg/L	0.000281				195.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	-142.2	-0.00039	mg/L	0.000285				72.74%
Ba 493.408†	-56.3	-0.00015	mg/L	0.000063				42.44%
Be 234.861†	-0.8	-0.00001	mg/L	0.000096				796.72%
Be 313.042†	-54.1	-0.00010	mg/L	0.000009				9.04%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-7.0	-0.00003	mg/L	0.000043				158.13%
Ca 315.887†	-20.7	-0.00281	mg/L	0.003619				128.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	-19.9	-0.00153	mg/L	0.001838				120.34%
Cd 214.440†	-27.3	-0.00691	mg/L	0.006177				89.40%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	0.7	0.00020	mg/L	0.001895				966.31%
Cd 228.802†	0.7	-0.00116	mg/L	0.001540				132.59%
Ce 413.380†	23.2	0.00493	mg/L	0.016259				329.83%
QC value within limits for Ce 413.380 Recovery = Not calculated								
Ce 413.764†	48.4	0.00951	mg/L	0.014642				153.96%
Ce 418.660†	7.3	0.00133	mg/L	0.005601				421.41%
Co 228.616†	-4.6	-0.00199	mg/L	0.001542				77.49%
Co 230.786†	8.9	0.00458	mg/L	0.002173				47.41%
Co 238.892†	-4.8	-0.00118	mg/L	0.002528				213.83%
QC value within limits for Co 238.892 Recovery = Not calculated								
Cr 205.560†	-0.1	-0.00024	mg/L	0.003532				>999.9%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cr 267.716†	-9.9	-0.00159	mg/L	0.001188				74.91%
Cr 283.563†	-12.6	-0.00061	mg/L	0.000656				107.02%
Cu 224.700†	2.9	-0.01821	mg/L	0.059461				326.50%
QC value within limits for Cu 224.700 Recovery = Not calculated								
Cu 324.752†	-50.9	-0.00141	mg/L	0.000897				63.51%
Cu 327.393†	-7.5	-0.00048	mg/L	0.000596				124.51%

Fe 238.204†	-7.8	-0.00085	mg/L	0.000753	88.73%
Fe 239.562†	-9.7	-0.00159	mg/L	0.001249	78.72%
Fe 259.939†	-9.2	-0.00081	mg/L	0.000704	87.33%
Fe 273.955†	3.4	0.00200	mg/L	0.000875	43.67%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	182.7	0.04089	mg/L	0.017741	43.39%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	1363.7	0.1073	mg/L	0.01672	15.58%
Li 670.784†	84.9	0.00079	mg/L	0.002323	292.87%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	9.4	0.00833	mg/L	0.017357	208.43%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	-45.1	-0.00017	mg/L	0.000198	115.68%
Mg 285.213†	9.6	0.00033	mg/L	0.000337	100.69%
Mn 257.610†	1.3	0.00003	mg/L	0.000051	195.07%
Mn 259.372†	2.6	0.00003	mg/L	0.000115	370.34%
Mn 260.568†	-13.7	-0.00048	mg/L	0.000266	55.68%
QC value within limits for Mn 260.568 Recovery = Not calculated					
Mo 202.031†	-0.5	-0.00157	mg/L	0.007961	507.79%
Mo 203.845†	4.0	0.02071	mg/L	0.015894	76.73%
QC value within limits for Mo 203.845 Recovery = Not calculated					
Mo 204.597†	0.3	0.00128	mg/L	0.004041	314.74%
Na 588.995†	502.1	0.03419	mg/L	0.016209	47.41%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-21.3	-0.00271	mg/L	0.003948	145.94%
Ni 221.648†	-3.9	-0.00355	mg/L	0.000848	23.93%
QC value within limits for Ni 221.648 Recovery = Not calculated					
Ni 231.604†	-7.9	-0.00322	mg/L	0.001321	41.07%
Ni 232.003†	3.9	0.00314	mg/L	0.006225	198.56%
Pb 217.000†	0.7	0.00889	mg/L	0.048978	551.04%
Pb 220.353†	2.2	0.00569	mg/L	0.006921	121.66%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-3.7	-0.04617	mg/L	0.002751	5.96%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	1.0	0.00716	mg/L	0.031632	441.70%
Se 196.026†	-2.3	-0.07257	mg/L	0.063929	88.09%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	0.9	0.04114	mg/L	0.031905	77.56%
Sn 235.485†	-2.0	-0.00325	mg/L	0.002431	74.91%
Sn 189.927†	0.7	0.01078	mg/L	0.024712	229.16%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 460.733†	4.3	0.00071	mg/L	0.008744	>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Sr 407.771†	58.5	0.00004	mg/L	0.000071	197.34%
Sr 421.552†	15.2	0.00003	mg/L	0.000206	657.53%
Ti 337.279†	-8.0	-0.00019	mg/L	0.001050	538.65%
QC value within limits for Ti 337.279 Recovery = Not calculated					
Ti 334.940†	-11.8	-0.00017	mg/L	0.000186	107.37%
Ti 336.121†	1.4	0.00003	mg/L	0.000187	590.07%
Tl 351.924†	0.2	-0.00128	mg/L	0.020821	>999.9%
Tl 190.801†	2.4	0.09259	mg/L	0.025060	27.06%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	21.7	0.05198	mg/L	0.029286	56.34%
V 310.230†	-138.1	-0.00377	mg/L	0.000664	17.60%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	-7.8	-0.00054	mg/L	0.001490	275.68%
V 311.071†	-2.3	-0.00009	mg/L	0.000795	876.62%
Zn 206.200†	0.0	0.00004	mg/L	0.000739	>999.9%
Zn 213.857†	-4.1	-0.00124	mg/L	0.000991	79.80%
QC value within limits for Zn 213.857 Recovery = Not calculated					
Zn 202.548†	-4.8	-0.00296	mg/L	0.002253	76.22%

All analyte(s) passed QC.

==========

Sequence No.: 16 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 2:19:08 PM**
Data Type: Original

Mean Data: LCM1

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	169952.5	106.9	%	1.59				1.49%
Ag 328.068†	6816.4	0.2538	mg/L	0.00605				2.38%
QC value within limits for Ag 328.068 Recovery = 101.51%								
Ag 338.289†	2777.6	0.2569	mg/L	0.00347				1.35%
Al 308.215†	1682.0	0.9310	mg/L	0.01961				2.11%
QC value within limits for Al 308.215 Recovery = 93.10%								
Al 394.401†	3881.1	0.9509	mg/L	0.03447				3.63%
Al 396.153†	6734.7	0.9414	mg/L	0.01782				1.89%
As 188.979†	56.5	1.935	mg/L	0.0607				3.14%
As 193.696†	85.6	1.960	mg/L	0.0264				1.35%
QC value within limits for As 193.696 Recovery = 98.00%								
As 197.197†	42.5	1.835	mg/L	0.0721				3.93%
B 208.889†	236.0	0.9476	mg/L	0.00581				0.61%
B 249.677†	3045.0	1.011	mg/L	0.0115				1.13%
B 249.772†	6739.6	1.014	mg/L	0.0116				1.14%
QC value within limits for B 249.772 Recovery = 101.42%								
Ba 233.527†	6772.3	1.039	mg/L	0.0141				1.36%
QC value within limits for Ba 233.527 Recovery = 103.88%								
Ba 455.403†	358917.8	0.9882	mg/L	0.01714				1.73%
Ba 493.408†	373802.4	0.9830	mg/L	0.01633				1.66%
Be 234.861†	63769.2	0.9695	mg/L	0.00952				0.98%
Be 313.042†	511749.2	0.9573	mg/L	0.01827				1.91%
QC value within limits for Be 313.042 Recovery = 95.73%								
Be 313.107†	265644.6	0.9595	mg/L	0.01798				1.87%
Ca 315.887†	7106.8	0.9628	mg/L	0.01354				1.41%
QC value within limits for Ca 315.887 Recovery = 96.28%								
Ca 317.933†	11824.9	0.9104	mg/L	0.01203				1.32%
Cd 214.440†	3803.9	0.9624	mg/L	0.01810				1.88%
QC value within limits for Cd 214.440 Recovery = 96.24%								
Cd 226.502†	3547.4	0.9475	mg/L	0.01176				1.24%
Cd 228.802†	3407.9	0.8617	mg/L	0.01246				1.45%
Ce 413.380†	4605.3	0.9781	mg/L	0.02714				2.77%
Ce 413.764†	5049.0	0.9933	mg/L	0.00604				0.61%
Ce 418.660†	5394.1	0.9852	mg/L	0.01645				1.67%
Co 228.616†	2164.2	0.9442	mg/L	0.01487				1.57%
Co 230.786†	1818.6	0.9257	mg/L	0.01646				1.78%
Co 238.892†	3800.9	0.9329	mg/L	0.01299				1.39%
QC value within limits for Co 238.892 Recovery = 93.29%								
Cr 205.560†	573.2	0.9794	mg/L	0.01149				1.17%
QC value within limits for Cr 205.560 Recovery = 97.94%								
Cr 267.716†	6457.4	1.035	mg/L	0.0133				1.29%
Cr 283.563†	20279.9	0.9624	mg/L	0.01272				1.32%
Cu 224.700†	984.3	-24.54	mg/L	0.425				1.73%
QC value less than the lower limit for Cu 224.700 Recovery = -2453.56%								
Cu 324.752†	34427.2	0.9537	mg/L	0.00759				0.80%
Cu 327.393†	15115.8	0.9706	mg/L	0.00862				0.89%
Fe 238.204†	9034.3	0.9776	mg/L	0.01244				1.27%
Fe 239.562†	6385.1	1.041	mg/L	0.0121				1.16%
Fe 259.939†	11086.4	0.9675	mg/L	0.00817				0.84%
QC value within limits for Fe 259.939 Recovery = 96.75%								
Fe 273.955†	1793.9	1.056	mg/L	0.0191				1.81%
K 766.490†	20863.5	4.668	mg/L	0.0720				1.54%
QC value within limits for K 766.490 Recovery = 93.37%								
Li 610.362†	10603.3	0.8238	mg/L	0.06349				7.71%
QC value less than the lower limit for Li 610.362 Recovery = 82.38%								
Li 670.784†	103181.6	0.9637	mg/L	0.01599				1.66%
Mg 279.077†	1149.4	1.018	mg/L	0.0106				1.04%
QC value within limits for Mg 279.077 Recovery = 101.84%								
Mg 280.271†	240311.2	0.9270	mg/L	0.01665				1.80%
Mg 285.213†	25989.3	0.9219	mg/L	0.01295				1.40%
Mn 257.610†	49080.5	1.019	mg/L	0.0111				1.09%
Mn 259.372†	66776.0	1.019	mg/L	0.0115				1.13%
Mn 260.568†	26947.3	0.9410	mg/L	0.01137				1.21%
QC value within limits for Mn 260.568 Recovery = 94.10%								
Mo 202.031†	1.5	0.00477	mg/L	0.013373				280.08%
Mo 203.845†	5.2	0.02586	mg/L	0.005720				22.12%
Mo 204.597†	-1.4	-0.00530	mg/L	0.013422				253.04%
Na 588.995†	11358.0	0.7733	mg/L	0.06767				8.75%
Na 589.592†	7700.7	0.9768	mg/L	0.01454				1.49%
Ni 221.648†	1059.6	0.9521	mg/L	0.01033				1.09%

QC value within limits for Ni 221.648 Recovery = 95.21%

Ni 231.604†	2329.6	0.9506	mg/L	0.01290	1.36%
Ni 232.003†	1205.8	0.9057	mg/L	0.00749	0.83%
Pb 217.000†	147.2	1.913	mg/L	0.0629	3.29%
Pb 220.353†	743.9	1.942	mg/L	0.0238	1.23%

QC value within limits for Pb 220.353 Recovery = 97.10%

Sb 206.836†	-2.8	-0.04875	mg/L	0.019839	40.69%
Sb 217.582†	2.3	0.01712	mg/L	0.025972	151.72%
Se 196.026†	29.1	0.9178	mg/L	0.05558	6.06%

QC value within limits for Se 196.026 Recovery = 91.78%

Se 203.985†	28.7	0.8008	mg/L	0.03688	4.61%
Sn 235.485†	89.7	-0.01458	mg/L	0.003866	26.51%
Sn 189.927†	1.0	0.01575	mg/L	0.015356	97.49%
Sr 460.733†	5542.5	0.9705	mg/L	0.00937	0.97%

QC value within limits for Sr 460.733 Recovery = 97.05%

Sr 407.771†	1436133.5	0.9830	mg/L	0.01650	1.68%
Sr 421.552†	474983.4	0.9798	mg/L	0.01638	1.67%
Ti 337.279†	-11.6	-0.00013	mg/L	0.000696	525.56%
Ti 334.940†	2.2	-0.00019	mg/L	0.000292	156.94%
Ti 336.121†	13.5	-0.00005	mg/L	0.000062	120.82%
Tl 351.924†	3229.7	4.438	mg/L	0.0621	1.40%

QC value less than the lower limit for Tl 351.924 Recovery = 88.77%

Tl 190.801†	127.0	4.940	mg/L	0.0863	1.75%

QC value within limits for Tl 190.801 Recovery = 98.80%

Tl 276.787†	1449.1	3.445	mg/L	0.0480	1.39%
V 310.230†	34300.0	0.9361	mg/L	0.01141	1.22%

QC value within limits for V 310.230 Recovery = 93.61%

V 292.402†	13337.1	0.9549	mg/L	0.01484	1.55%
V 311.071†	20985.4	0.9499	mg/L	0.00979	1.03%
Zn 206.200†	902.5	0.9572	mg/L	0.01140	1.19%
Zn 213.857†	3288.4	1.004	mg/L	0.0125	1.25%

QC value within limits for Zn 213.857 Recovery = 100.37%

Zn 202.548†	1694.7	1.033	mg/L	0.0098	0.95%

QC Failed. Continue with analysis.

==========

Sequence No.: 17 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 2:20:14 PM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160819.3	101.2	%	2.64				2.61%
Ag 328.068†	132.1	0.00472	mg/L	0.003039				64.41%
Ag 338.289†	-163.5	-0.00416	mg/L	0.002977				71.49%
Al 308.215†	49.0	0.00563	mg/L	0.015739				279.63%
Al 394.401†	32.4	0.01310	mg/L	0.007749				59.13%
Al 396.153†	315.5	0.01085	mg/L	0.006490				59.80%
As 188.979†	-1.4	-0.04492	mg/L	0.047729				106.26%
As 193.696†	1.9	0.04281	mg/L	0.015287				35.70%
As 197.197†	-3.5	-0.1514	mg/L	0.05436				35.91%
B 208.889†	4.8	0.01940	mg/L	0.019110				98.51%
B 249.677†	60.3	0.02070	mg/L	0.001180				5.70%
B 249.772†	121.0	0.01857	mg/L	0.001086				5.85%
Ba 233.527†	-103.2	-0.01397	mg/L	0.000126				0.90%
Ba 455.403†	113.7	0.00031	mg/L	0.000353				112.72%
Ba 493.408†	139.5	0.00037	mg/L	0.000406				110.60%
Be 234.861†	5.4	0.00021	mg/L	0.000029				13.77%
Be 313.042†	76.6	0.00014	mg/L	0.000120				87.51%
Be 313.107†	106.0	0.00018	mg/L	0.000090				50.91%
Ca 315.887†	156.8	0.02020	mg/L	0.007825				38.74%
Ca 317.933†	279.0	0.02149	mg/L	0.009139				42.52%
Cd 214.440†	3.9	0.00292	mg/L	0.005321				182.05%
Cd 226.502†	2.9	0.00059	mg/L	0.000660				112.45%
Cd 228.802†	0.6	-0.00105	mg/L	0.000829				78.80%
Ce 413.380†	98.7	0.02098	mg/L	0.008008				38.18%
Ce 413.764†	-28.9	-0.00308	mg/L	0.011079				359.97%
Ce 418.660†	96.6	0.02073	mg/L	0.009267				44.70%
Co 228.616†	-6.4	-0.00417	mg/L	0.000986				23.67%

Co 230.786†	12.5	0.00122	mg/L	0.007047			576.62%
Co 238.892†	-5.4	0.00008	mg/L	0.000674			829.44%
Cr 205.560†	-0.1	-0.00104	mg/L	0.002167			208.23%
Cr 267.716†	3.9	0.00022	mg/L	0.001415			651.78%
Cr 283.563†	9.5	0.00062	mg/L	0.001005			163.08%
Cu 224.700†	5.5	-0.06116	mg/L	0.052718			86.19%
Cu 324.752†	8.4	-0.00014	mg/L	0.000793			563.91%
Cu 327.393†	-20.2	-0.00046	mg/L	0.001123			245.68%
Fe 238.204†	36.0	0.00388	mg/L	0.000626			16.11%
Fe 239.562†	14.9	0.00288	mg/L	0.001317			45.71%
Fe 259.939†	49.2	0.00429	mg/L	0.000300			6.99%
Fe 273.955†	8.4	0.00779	mg/L	0.001664			21.35%
K 766.490†	198.0	0.04431	mg/L	0.038887			87.76%
Li 610.362†	1215.2	0.09118	mg/L	0.124486			136.52%
Li 670.784†	261.1	0.00244	mg/L	0.001908			78.23%
Mg 279.077†	-3.4	0.00122	mg/L	0.010027			819.07%
Mg 280.271†	591.1	0.00229	mg/L	0.001548			67.74%
Mg 285.213†	91.6	0.00324	mg/L	0.000709			21.90%
Mn 257.610†	21.8	0.00045	mg/L	0.000264			58.51%
Mn 259.372†	364.6	0.00050	mg/L	0.000121			24.36%
Mn 260.568†	5.1	0.00018	mg/L	0.000167			92.10%
Mo 202.031†	328.4	1.022	mg/L	0.0176			1.72%
Mo 203.845†	200.3	1.038	mg/L	0.0277			2.67%
QC value within limits for Mo 203.845 Recovery = 103.77%							
Mo 204.597†	218.7	1.016	mg/L	0.0301			2.97%
Na 588.995†	806.0	0.05487	mg/L	0.122904			223.98%
Na 589.592†	215.1	0.02455	mg/L	0.002113			8.61%
Ni 221.648†	-13.9	-0.01254	mg/L	0.005911			47.15%
Ni 231.604†	1.2	-0.00033	mg/L	0.001000			304.70%
Ni 232.003†	11.0	0.00262	mg/L	0.005190			197.94%
Pb 217.000†	-2.2	-0.02912	mg/L	0.036632			125.82%
Pb 220.353†	2.4	0.00637	mg/L	0.024744			388.39%
Sb 206.836†	159.2	1.967	mg/L	0.0401			2.04%
QC value within limits for Sb 206.836 Recovery = 98.33%							
Sb 217.582†	279.3	2.045	mg/L	0.0206			1.01%
Se 196.026†	-1.1	-0.03510	mg/L	0.077178			219.86%
Se 203.985†	2.2	-0.03480	mg/L	0.033892			97.40%
Sn 235.485†	1005.2	1.519	mg/L	0.0279			1.84%
Sn 189.927†	357.2	5.377	mg/L	0.0991			1.84%
QC value within limits for Sn 189.927 Recovery = 107.53%							
Sr 460.733†	5.0	0.00114	mg/L	0.011292			988.72%
Sr 407.771†	284.9	0.00020	mg/L	0.000121			61.53%
Sr 421.552†	103.9	0.00021	mg/L	0.000098			45.82%
Ti 337.279†	39307.7	0.9540	mg/L	0.03064			3.21%
QC value within limits for Ti 337.279 Recovery = 95.40%							
Ti 334.940†	65094.3	0.9519	mg/L	0.03186			3.35%
Ti 336.121†	41576.8	0.9595	mg/L	0.03333			3.47%
Tl 351.924†	-2.2	-0.00668	mg/L	0.018000			269.38%
Tl 190.801†	-0.2	-0.00876	mg/L	0.021421			244.51%
Tl 276.787†	11.6	0.02795	mg/L	0.003273			11.71%
V 310.230†	-116.2	-0.00360	mg/L	0.003356			93.17%
V 292.402†	-223.3	-0.00100	mg/L	0.000985			98.31%
V 311.071†	336.8	0.00144	mg/L	0.000408			28.40%
Zn 206.200†	4.2	0.00443	mg/L	0.001138			25.70%
Zn 213.857†	2.0	0.00100	mg/L	0.000758			75.51%
Zn 202.548†	-0.1	-0.00004	mg/L	0.000383			858.91%

All analyte(s) passed QC.

==========

Sequence No.: 18 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 2:21:15 PM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163794.8	103.1	%	1.61				1.56%
Ag 328.068†	-48.1	0.00477	mg/L	0.003047				63.85%
Ag 338.289†	12.3	0.00114	mg/L	0.001962				172.79%
Al 308.215†	168414.1	95.38	mg/L	1.141				1.20%

QC value within limits for Al 308.215 Recovery = 95.38%

Al 394.401†	275686.3	95.94	mg/L	1.810	1.89%
Al 396.153†	663272.6	92.69	mg/L	1.782	1.92%
As 188.979†	-17.2	-0.3076	mg/L	0.05117	16.64%
As 193.696†	5.5	0.1040	mg/L	0.09410	90.44%
As 197.197†	-1.3	0.1225	mg/L	0.14053	114.72%
B 208.889†	25.8	0.04549	mg/L	0.013118	28.84%
B 249.677†	68.8	0.00618	mg/L	0.001386	22.42%
B 249.772†	2111.7	0.01523	mg/L	0.003448	22.64%
Ba 233.527†	23.8	-0.00112	mg/L	0.000100	8.93%
Ba 455.403†	-123.2	-0.00034	mg/L	0.000149	43.81%
Ba 493.408†	271.5	0.00015	mg/L	0.000167	112.13%
Be 234.861†	1034.8	-0.00032	mg/L	0.000290	91.03%
Be 313.042†	-46.5	-0.00004	mg/L	0.000056	151.33%
Be 313.107†	-46.1	-0.00016	mg/L	0.000052	32.26%
Ca 315.887†	704205.0	95.70	mg/L	1.720	1.80%

QC value within limits for Ca 315.887 Recovery = 95.70%

Ca 317.933†	1177371.1	90.71	mg/L	1.375	1.52%
Cd 214.440†	57.8	-0.00615	mg/L	0.012166	197.88%
Cd 226.502†	34.7	-0.00065	mg/L	0.000877	135.63%
Cd 228.802†	4.2	-0.00247	mg/L	0.002317	93.83%
Ce 413.380†	160.0	0.01379	mg/L	0.017571	127.45%
Ce 413.764†	-123.9	0.00203	mg/L	0.001612	79.49%
Ce 418.660†	-6.9	0.00509	mg/L	0.005731	112.56%
Co 228.616†	-0.1	-0.00090	mg/L	0.001382	154.16%
Co 230.786†	227.3	0.00458	mg/L	0.005333	116.56%
Co 238.892†	1413.8	-0.01024	mg/L	0.003729	36.42%
Cr 205.560†	-6.3	-0.00682	mg/L	0.006956	101.93%
Cr 267.716†	12.5	0.00348	mg/L	0.002178	62.62%
Cr 283.563†	2878.0	0.00488	mg/L	0.001454	29.82%
Cu 224.700†	145.2	-0.07232	mg/L	0.019535	27.01%
Cu 324.752†	91.2	-0.00064	mg/L	0.000515	80.48%
Cu 327.393†	27.2	0.00171	mg/L	0.000302	17.70%
Fe 238.204†	865587.5	93.48	mg/L	1.866	2.00%
Fe 239.562†	574718.7	93.98	mg/L	1.676	1.78%
Fe 259.939†	1064267.8	92.88	mg/L	1.782	1.92%
Fe 273.955†	171279.8	101.6	mg/L	1.13	1.11%

QC value within limits for Fe 273.955 Recovery = 101.64%

K 766.490†	412113.4	92.21	mg/L	1.775	1.93%

QC value within limits for K 766.490 Recovery = 92.21%

Li 610.362†	469.3	-0.1399	mg/L	0.05923	42.33%
Li 670.784†	235.3	0.00220	mg/L	0.000763	34.71%
Mg 279.077†	65732.5	58.07	mg/L	0.768	1.32%

QC value within limits for Mg 279.077 Recovery = 96.78%

Mg 280.271†	14084662.7	54.38	mg/L	1.201	2.21%
Mg 285.213†	1510720.7	53.49	mg/L	0.790	1.48%
Mn 257.610†	111.5	0.00039	mg/L	0.000436	110.63%
Mn 259.372†	6892.9	-0.00541	mg/L	0.000597	11.03%
Mn 260.568†	144.5	-0.00078	mg/L	0.000023	2.94%
Mo 202.031†	1.7	0.01203	mg/L	0.002823	23.47%
Mo 203.845†	34.8	0.1297	mg/L	0.00894	6.89%
Mo 204.597†	-9.5	-0.02575	mg/L	0.004706	18.27%
Na 588.995†	1380463.5	93.99	mg/L	1.843	1.96%
Na 589.592†	747663.5	94.83	mg/L	1.813	1.91%

QC value within limits for Na 589.592 Recovery = 94.83%

Ni 221.648†	9.7	0.00219	mg/L	0.002239	102.31%
Ni 231.604†	9.3	0.00106	mg/L	0.003759	355.83%
Ni 232.003†	-113.1	-0.00548	mg/L	0.005744	104.82%
Pb 217.000†	21.6	-0.06772	mg/L	0.029064	42.92%
Pb 220.353†	4.9	0.03238	mg/L	0.012244	37.81%
Sb 206.836†	-4.2	-0.05209	mg/L	0.006956	13.35%
Sb 217.582†	6.6	0.04840	mg/L	0.033117	68.42%
Se 196.026†	-4.2	-0.1320	mg/L	0.13580	102.86%
Se 203.985†	-51.5	-1.473	mg/L	0.0575	3.90%
Sn 235.485†	9390.3	-1.312	mg/L	0.1075	8.20%
Sn 189.927†	-17.2	-0.1921	mg/L	0.03062	15.94%
Sr 460.733†	-2.5	0.00415	mg/L	0.016302	392.44%
Sr 407.771†	1489.5	-0.00004	mg/L	0.000100	240.03%
Sr 421.552†	497.0	0.00103	mg/L	0.000083	8.13%
Ti 337.279†	3.7	0.00048	mg/L	0.001173	244.18%
Ti 334.940†	-820.0	-0.00131	mg/L	0.000246	18.73%

Ti 336.121†	-104.2	-0.00025	mg/L	0.000230			91.01%
Tl 351.924†	-27.7	-0.05849	mg/L	0.063337			108.29%
Tl 190.801†	13.1	0.3198	mg/L	0.06168			19.29%
Tl 276.787†	2911.9	2.946	mg/L	0.1402			4.76%
V 310.230†	-795.3	-0.02174	mg/L	0.000397			1.83%
V 292.402†	256.7	-0.00283	mg/L	0.000638			22.54%
V 311.071†	-347.2	-0.01767	mg/L	0.000569			3.22%
Zn 206.200†	20.2	0.01358	mg/L	0.003285			24.18%
Zn 213.857†	152.3	0.02608	mg/L	0.000711			2.73%
Zn 202.548†	36.9	0.01922	mg/L	0.002669			13.89%

All analyte(s) passed QC.

==========

Sequence No.: 19
Sample ID: blank

Autosampler Location: 10
Date Collected: 10/26/2009 2:22:27 PM
Data Type: Original

Mean Data: blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161571.8	101.7	%	1.34				1.32%
Ag 328.068†	14.6	0.00052	mg/L	0.001599				308.10%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-5.5	-0.00051	mg/L	0.003202				623.97%
Al 308.215†	20.9	0.01182	mg/L	0.006279				53.12%
Al 394.401†	43.3	0.01598	mg/L	0.014768				92.40%
Al 396.153†	209.4	0.02906	mg/L	0.018102				62.29%
As 188.979†	0.9	0.03020	mg/L	0.039914				132.17%
As 193.696†	-0.2	-0.00449	mg/L	0.034741				774.48%
As 197.197†	0.2	0.00943	mg/L	0.048166				510.95%
B 208.889†	-2.0	-0.00796	mg/L	0.018485				232.33%
B 249.677†	0.1	0.00005	mg/L	0.003252				>999.9%
B 249.772†	-17.5	-0.00269	mg/L	0.000433				16.09%
Ba 233.527†	-3.2	-0.00049	mg/L	0.000609				125.50%
Ba 455.403†	-149.6	-0.00041	mg/L	0.000361				87.54%
Ba 493.408†	4.9	0.00001	mg/L	0.000260				>999.9%
Be 234.861†	-1.0	-0.00002	mg/L	0.000084				493.67%
Be 313.042†	-60.4	-0.00010	mg/L	0.000035				33.24%
Be 313.107†	-9.3	-0.00003	mg/L	0.000060				179.88%
Ca 315.887†	56.2	0.00764	mg/L	0.007236				94.69%
Ca 317.933†	95.6	0.00737	mg/L	0.007382				100.21%
Cd 214.440†	4.7	0.00120	mg/L	0.011109				929.28%
Cd 226.502†	0.3	0.00009	mg/L	0.001136				>999.9%
Cd 228.802†	1.2	0.00046	mg/L	0.002119				464.72%
Ce 413.380†	13.7	0.00290	mg/L	0.012188				420.13%
Ce 413.764†	-11.7	-0.00230	mg/L	0.010226				444.91%
Ce 418.660†	35.7	0.00654	mg/L	0.007590				116.10%
Co 228.616†	-3.8	-0.00165	mg/L	0.001131				68.36%
Co 230.786†	0.2	0.00008	mg/L	0.005861				>999.9%
Co 238.892†	-3.9	-0.00100	mg/L	0.000918				91.40%
Cr 205.560†	0.5	0.00088	mg/L	0.000501				56.58%
Cr 267.716†	-9.5	-0.00152	mg/L	0.000981				64.63%
Cr 283.563†	-10.6	-0.00052	mg/L	0.000105				20.16%
Cu 224.700†	2.7	-0.03907	mg/L	0.014207				36.36%
Cu 324.752†	-29.7	-0.00083	mg/L	0.000408				49.27%
Cu 327.393†	4.1	0.00027	mg/L	0.001698				627.73%
Fe 238.204†	122.6	0.01324	mg/L	0.008828				66.69%
Fe 239.562†	71.2	0.01165	mg/L	0.007759				66.60%
Fe 259.939†	142.4	0.01243	mg/L	0.008163				65.69%
Fe 273.955†	27.4	0.01630	mg/L	0.009455				58.02%
K 766.490†	337.5	0.07552	mg/L	0.029212				38.68%
Li 610.362†	716.1	0.05632	mg/L	0.058706				104.24%
Li 670.784†	168.5	0.00157	mg/L	0.000562				35.68%
Mg 279.077†	17.4	0.01539	mg/L	0.010810				70.26%
Mg 280.271†	2311.6	0.00893	mg/L	0.007282				81.56%
Mg 285.213†	204.0	0.00722	mg/L	0.004525				62.69%
Mn 257.610†	-1.3	-0.00003	mg/L	0.000164				603.31%
Mn 259.372†	14.0	0.00017	mg/L	0.000026				15.83%
Mn 260.568†	-6.5	-0.00023	mg/L	0.000268				118.50%
Mo 202.031†	1.2	0.00364	mg/L	0.002383				65.56%

Mo 203.845†	4.2	0.02161	mg/L	0.006598	30.53%
Mo 204.597†	1.4	0.00635	mg/L	0.002038	32.10%
Na 588.995†	-84.4	-0.00575	mg/L	0.040164	699.07%
Na 589.592†	66.0	0.00835	mg/L	0.013623	163.16%
Ni 221.648†	0.4	0.00032	mg/L	0.002850	876.98%
Ni 231.604†	-4.4	-0.00177	mg/L	0.000462	26.07%
Ni 232.003†	2.7	0.00213	mg/L	0.001459	68.49%
Pb 217.000†	0.5	0.00613	mg/L	0.055094	898.72%
Pb 220.353†	4.4	0.01148	mg/L	0.006548	57.04%
Sb 206.836†	-0.9	-0.01057	mg/L	0.005338	50.49%
Sb 217.582†	-0.9	-0.00676	mg/L	0.016624	245.74%
Se 196.026†	-1.8	-0.05629	mg/L	0.027698	49.21%
Se 203.985†	0.1	0.00442	mg/L	0.060781	>999.9%
Sn 235.485†	3.8	0.00325	mg/L	0.014291	440.08%
Sn 189.927†	0.6	0.00831	mg/L	0.021173	254.92%
Sr 460.733†	9.6	0.00170	mg/L	0.008761	514.26%
Sr 407.771†	11.5	0.00001	mg/L	0.000009	101.58%
Sr 421.552†	-30.4	-0.00006	mg/L	0.000082	131.43%
Ti 337.279†	-14.8	-0.00036	mg/L	0.000464	129.55%
Ti 334.940†	-9.6	-0.00014	mg/L	0.000205	147.11%
Ti 336.121†	11.5	0.00027	mg/L	0.000103	38.62%
Tl 351.924†	-21.0	-0.02962	mg/L	0.021099	71.24%
Tl 190.801†	3.1	0.1190	mg/L	0.03524	29.60%
Tl 276.787†	6.6	0.01477	mg/L	0.004007	27.13%
V 310.230†	-140.6	-0.00385	mg/L	0.000836	21.71%
V 292.402†	-8.1	-0.00048	mg/L	0.001686	351.08%
V 311.071†	-15.6	-0.00072	mg/L	0.000316	43.73%
Zn 206.200†	-0.7	-0.00073	mg/L	0.002302	317.06%
Zn 213.857†	-5.1	-0.00155	mg/L	0.000373	24.07%
Zn 202.548†	-0.5	-0.00030	mg/L	0.002283	759.57%

All analyte(s) passed QC.

==========

Sequence No.: 20
Sample ID: 0909006-02

Initial Sample Wt: 0.4753 g
Dilution: 25X

Autosampler Location: 220
Date Collected: 10/26/2009 2:23:28 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909006-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165738.0	104.3	%	1.00				0.96%
Ag 328.068†	13.1	0.00062	mg/L	0.000612	1.618	mg/kg	1.6083	99.37%
Ag 338.289†	-25.9	-0.00193	mg/L	0.000589	-5.080	mg/kg	1.5495	30.50%
Al 308.215†	2559.9	1.450	mg/L	0.0225	3815	mg/kg	59.3	1.55%
Al 394.401†	4444.0	1.512	mg/L	0.0265	3976	mg/kg	69.8	1.76%
Al 396.153†	10492.9	1.437	mg/L	0.0117	3780	mg/kg	30.7	0.81%
As 188.979†	-16.7	-0.3217	mg/L	0.08609	-846.2	mg/kg	226.40	26.76%
As 193.696†	10.4	0.1352	mg/L	0.03029	355.5	mg/kg	79.66	22.41%
As 197.197†	-6.0	-0.05962	mg/L	0.117403	-156.8	mg/kg	308.76	196.92%
B 208.889†	16.0	0.04490	mg/L	0.023243	118.1	mg/kg	61.13	51.76%
B 249.677†	30.8	0.00992	mg/L	0.000590	26.08	mg/kg	1.553	5.95%
B 249.772†	95.1	0.00867	mg/L	0.000350	22.80	mg/kg	0.921	4.04%
Ba 233.527†	97.8	0.01487	mg/L	0.000827	39.12	mg/kg	2.176	5.56%
Ba 455.403†	5233.6	0.01441	mg/L	0.000209	37.90	mg/kg	0.549	1.45%
Ba 493.408†	5605.5	0.01473	mg/L	0.000317	38.74	mg/kg	0.833	2.15%
Be 234.861†	7.4	-0.00019	mg/L	0.000116	-0.5062	mg/kg	0.30625	60.50%
Be 313.042†	6.6	0.00002	mg/L	0.000048	0.04284	mg/kg	0.125373	292.67%
Be 313.107†	26.3	0.00008	mg/L	0.000038	0.2153	mg/kg	0.10120	47.00%
Ca 315.887†	613742.9	83.41	mg/L	2.020	219400	mg/kg	5311.2	2.42%
Ca 317.933†	1023550.3	78.86	mg/L	2.061	207400	mg/kg	5420.2	2.61%
Cd 214.440†	17.2	0.00060	mg/L	0.011465	1.565	mg/kg	30.1510	>999.9%
Cd 226.502†	4.5	0.00119	mg/L	0.000778	3.118	mg/kg	2.0461	65.63%
Cd 228.802†	-0.3	-0.00688	mg/L	0.001523	-18.09	mg/kg	4.005	22.13%
Ce 413.380†	98.1	0.02046	mg/L	0.018700	53.81	mg/kg	49.179	91.40%
Ce 413.764†	29.6	0.00647	mg/L	0.019845	17.03	mg/kg	52.192	306.50%
Ce 418.660†	33.8	0.01169	mg/L	0.014251	30.73	mg/kg	37.480	121.96%
Co 228.616†	-0.2	-0.00020	mg/L	0.000705	-0.5365	mg/kg	1.85527	345.78%
Co 230.786†	48.7	0.00546	mg/L	0.004948	14.36	mg/kg	13.012	90.62%

Co 238.892†	51.5	0.00339	mg/L	0.001895	8.914	mg/kg	4.9838	55.91%
Cr 205.560†	-1.7	0.00060	mg/L	0.006872	1.571	mg/kg	18.0723	>999.9%
Cr 267.716†	51.9	0.00409	mg/L	0.002271	10.75	mg/kg	5.973	55.59%
Cr 283.563†	-27.6	0.00035	mg/L	0.000182	0.9316	mg/kg	0.47861	51.37%
Cu 224.700†	13.0	-0.07554	mg/L	0.013075	-198.7	mg/kg	34.39	17.31%
Cu 324.752†	237.5	0.00655	mg/L	0.000476	17.22	mg/kg	1.251	7.26%
Cu 327.393†	148.6	0.00949	mg/L	0.001135	24.97	mg/kg	2.985	11.95%
Fe 238.204†	16109.0	1.740	mg/L	0.0098	4575	mg/kg	25.9	0.57%
Fe 239.562†	10696.9	1.752	mg/L	0.0139	4607	mg/kg	36.5	0.79%
Fe 259.939†	19830.3	1.731	mg/L	0.0122	4551	mg/kg	32.1	0.71%
Fe 273.955†	3201.2	1.900	mg/L	0.0272	4996	mg/kg	71.5	1.43%
K 766.490†	558.8	0.1250	mg/L	0.02703	328.8	mg/kg	71.08	21.62%
Li 610.362†	-444.0	-0.1096	mg/L	0.02403	-288.3	mg/kg	63.18	21.91%
Li 670.784†	344.4	0.00322	mg/L	0.000611	8.458	mg/kg	1.6060	18.99%
Mg 279.077†	38613.7	34.16	mg/L	0.254	89840	mg/kg	667.5	0.74%
Mg 280.271†	8257059.1	31.88	mg/L	0.408	83840	mg/kg	1071.9	1.28%
Mg 285.213†	905528.2	32.06	mg/L	0.744	84320	mg/kg	1957.3	2.32%
Mn 257.610†	7007.5	0.1447	mg/L	0.00201	380.5	mg/kg	5.29	1.39%
Mn 259.372†	8953.3	0.1342	mg/L	0.00159	352.9	mg/kg	4.19	1.19%
Mn 260.568†	3834.8	0.1331	mg/L	0.00213	349.9	mg/kg	5.60	1.60%
Mo 202.031†	4.2	0.00645	mg/L	0.006970	16.97	mg/kg	18.330	108.01%
Mo 203.845†	26.1	0.1056	mg/L	0.01226	277.8	mg/kg	32.23	11.60%
Mo 204.597†	-9.6	-0.02864	mg/L	0.001959	-75.32	mg/kg	5.151	6.84%
Na 588.995†	140403.7	9.559	mg/L	0.2261	25140	mg/kg	594.6	2.37%
Na 589.592†	79341.9	10.06	mg/L	0.062	26470	mg/kg	163.2	0.62%
Ni 221.648†	6.3	0.00556	mg/L	0.002737	14.63	mg/kg	7.199	49.21%
Ni 231.604†	19.8	0.00570	mg/L	0.000837	14.99	mg/kg	2.201	14.68%
Ni 232.003†	-20.0	-0.00877	mg/L	0.007640	-23.08	mg/kg	20.093	87.07%
Pb 217.000†	-6.2	-0.05994	mg/L	0.036256	-157.6	mg/kg	95.35	60.49%
Pb 220.353†	16.5	0.03144	mg/L	0.015188	82.69	mg/kg	39.943	48.30%
Sb 206.836†	-3.2	-0.03980	mg/L	0.014187	-104.7	mg/kg	37.31	35.65%
Sb 217.582†	0.3	0.00209	mg/L	0.014002	5.492	mg/kg	36.8244	670.47%
Se 196.026†	-1.7	-0.05246	mg/L	0.049664	-138.0	mg/kg	130.61	94.66%
Se 203.985†	-48.9	-1.437	mg/L	0.0900	-3778	mg/kg	236.7	6.26%
Sn 235.485†	178.1	-0.02042	mg/L	0.015051	-53.71	mg/kg	39.582	73.70%
Sn 189.927†	-12.6	-0.1315	mg/L	0.03804	-345.9	mg/kg	100.04	28.92%
Sr 460.733†	455.4	0.08014	mg/L	0.020751	210.8	mg/kg	54.57	25.89%
Sr 407.771†	111903.1	0.07570	mg/L	0.001865	199.1	mg/kg	4.90	2.46%
Sr 421.552†	37837.7	0.07805	mg/L	0.000548	205.3	mg/kg	1.44	0.70%
Ti 337.279†	2314.2	0.05618	mg/L	0.000492	147.7	mg/kg	1.29	0.88%
Ti 334.940†	3189.6	0.05594	mg/L	0.000817	147.1	mg/kg	2.15	1.46%
Ti 336.121†	2554.5	0.06084	mg/L	0.000773	160.0	mg/kg	2.03	1.27%
Tl 351.924†	-32.1	-0.04753	mg/L	0.032231	-125.0	mg/kg	84.76	67.80%
Tl 190.801†	10.4	0.2310	mg/L	0.02538	607.6	mg/kg	66.74	10.98%
Tl 276.787†	1836.5	2.072	mg/L	0.1058	5449	mg/kg	278.2	5.11%
V 310.230†	-94.9	-0.00274	mg/L	0.001495	-7.193	mg/kg	3.9318	54.66%
V 292.402†	77.3	0.00470	mg/L	0.000576	12.37	mg/kg	1.514	12.24%
V 311.071†	-94.6	-0.00458	mg/L	0.000878	-12.03	mg/kg	2.309	19.19%
Zn 206.200†	26.2	0.02093	mg/L	0.004440	55.05	mg/kg	11.676	21.21%
Zn 213.857†	143.8	0.03323	mg/L	0.001523	87.38	mg/kg	4.007	4.59%
Zn 202.548†	41.4	0.02240	mg/L	0.001828	58.91	mg/kg	4.808	8.16%

Sequence No.: 21
Sample ID: 0909006-03

Autosampler Location: 221
Date Collected: 10/26/2009 2:24:41 PM
Data Type: Original

Initial Sample Wt: 0.4808 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: 0909006-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	164030.9	103.2	%	1.75				1.70%
Ag 328.068†	29.2	0.00119	mg/L	0.000826	3.097	mg/kg	2.1471	69.32%
Ag 338.289†	-14.1	-0.00084	mg/L	0.001933	-2.191	mg/kg	5.0252	229.40%
Al 308.215†	2457.4	1.393	mg/L	0.0268	3620	mg/kg	69.6	1.92%
Al 394.401†	4227.2	1.433	mg/L	0.0052	3727	mg/kg	13.5	0.36%
Al 396.153†	10019.8	1.369	mg/L	0.0144	3560	mg/kg	37.5	1.05%
As 188.979†	-18.5	-0.3670	mg/L	0.06406	-954.3	mg/kg	166.54	17.45%
As 193.696†	9.4	0.1072	mg/L	0.01051	278.7	mg/kg	27.32	9.80%

As 197.197†	-8.6	-0.1602	mg/L	0.10832	-416.4	mg/kg	281.61	67.63%
B 208.889†	14.0	0.03528	mg/L	0.007938	91.72	mg/kg	20.637	22.50%
B 249.677†	23.1	0.00740	mg/L	0.002096	19.24	mg/kg	5.449	28.32%
B 249.772†	77.4	0.00706	mg/L	0.001558	18.35	mg/kg	4.050	22.07%
Ba 233.527†	91.3	0.01387	mg/L	0.001034	36.07	mg/kg	2.689	7.46%
Ba 455.403†	5211.5	0.01435	mg/L	0.000398	37.30	mg/kg	1.034	2.77%
Ba 493.408†	5582.2	0.01467	mg/L	0.000178	38.14	mg/kg	0.462	1.21%
Be 234.861†	10.9	-0.00009	mg/L	0.000062	-0.2226	mg/kg	0.16007	71.90%
Be 313.042†	24.7	0.00005	mg/L	0.000091	0.1254	mg/kg	0.23637	188.45%
Be 313.107†	21.8	0.00007	mg/L	0.000071	0.1722	mg/kg	0.18374	106.72%
Ca 315.887†	654399.5	88.93	mg/L	2.202	231200	mg/kg	5723.7	2.48%
Ca 317.933†	1087544.8	83.79	mg/L	1.979	217800	mg/kg	5145.8	2.36%
Cd 214.440†	3.2	-0.00315	mg/L	0.010662	-8.194	mg/kg	27.7196	338.31%
Cd 226.502†	0.8	0.00026	mg/L	0.000376	0.6831	mg/kg	0.97764	143.12%
Cd 228.802†	-1.3	-0.00651	mg/L	0.000745	-16.93	mg/kg	1.937	11.45%
Ce 413.380†	67.4	0.01401	mg/L	0.007974	36.43	mg/kg	20.730	56.90%
Ce 413.764†	40.2	0.00846	mg/L	0.003449	22.00	mg/kg	8.967	40.77%
Ce 418.660†	-54.4	-0.00407	mg/L	0.021278	-10.59	mg/kg	55.318	522.36%
Co 228.616†	2.8	0.00109	mg/L	0.000343	2.844	mg/kg	0.8910	31.32%
Co 230.786†	62.6	0.01156	mg/L	0.004511	30.07	mg/kg	11.728	39.01%
Co 238.892†	36.1	0.00065	mg/L	0.001743	1.687	mg/kg	4.5316	268.65%
Cr 205.560†	-3.9	-0.00291	mg/L	0.002187	-7.555	mg/kg	5.6869	75.27%
Cr 267.716†	57.2	0.00452	mg/L	0.001245	11.75	mg/kg	3.236	27.54%
Cr 283.563†	-47.8	0.00026	mg/L	0.000584	0.6851	mg/kg	1.51711	221.45%
Cu 224.700†	4.7	-0.07020	mg/L	0.018105	-182.5	mg/kg	47.07	25.79%
Cu 324.752†	178.1	0.00492	mg/L	0.000648	12.78	mg/kg	1.685	13.18%
Cu 327.393†	86.0	0.00546	mg/L	0.001583	14.21	mg/kg	4.116	28.97%
Fe 238.204†	13020.5	1.406	mg/L	0.0058	3656	mg/kg	15.1	0.41%
Fe 239.562†	8589.7	1.407	mg/L	0.0110	3659	mg/kg	28.6	0.78%
Fe 259.939†	15986.0	1.395	mg/L	0.0098	3627	mg/kg	25.5	0.70%
Fe 273.955†	2603.5	1.545	mg/L	0.0185	4017	mg/kg	48.1	1.20%
K 766.490†	597.6	0.1337	mg/L	0.01075	347.6	mg/kg	27.94	8.04%
Li 610.362†	351.5	-0.05146	mg/L	0.060497	-133.8	mg/kg	157.28	117.56%
Li 670.784†	292.3	0.00273	mg/L	0.000807	7.098	mg/kg	2.0992	29.58%
Mg 279.077†	42101.3	37.25	mg/L	0.208	96830	mg/kg	540.2	0.56%
Mg 280.271†	9058303.3	34.97	mg/L	0.567	90920	mg/kg	1474.7	1.62%
Mg 285.213†	984545.6	34.86	mg/L	0.752	90630	mg/kg	1955.5	2.16%
Mn 257.610†	7190.0	0.1484	mg/L	0.00126	385.8	mg/kg	3.27	0.85%
Mn 259.372†	9105.2	0.1369	mg/L	0.00060	355.8	mg/kg	1.55	0.43%
Mn 260.568†	3932.0	0.1364	mg/L	0.00141	354.6	mg/kg	3.66	1.03%
Mo 202.031†	4.2	0.00590	mg/L	0.011078	15.34	mg/kg	28.801	187.74%
Mo 203.845†	25.1	0.09776	mg/L	0.016140	254.2	mg/kg	41.96	16.51%
Mo 204.597†	-11.3	-0.03568	mg/L	0.023177	-92.76	mg/kg	60.257	64.96%
Na 588.995†	161465.4	10.99	mg/L	0.332	28580	mg/kg	864.1	3.02%
Na 589.592†	87766.0	11.13	mg/L	0.286	28940	mg/kg	742.4	2.57%
Ni 221.648†	2.2	0.00186	mg/L	0.003275	4.836	mg/kg	8.5140	176.07%
Ni 231.604†	17.1	0.00444	mg/L	0.001809	11.53	mg/kg	4.704	40.78%
Ni 232.003†	-13.0	-0.00319	mg/L	0.003169	-8.289	mg/kg	8.2383	99.39%
Pb 217.000†	-2.4	-0.00871	mg/L	0.051597	-22.64	mg/kg	134.143	592.48%
Pb 220.353†	13.9	0.02388	mg/L	0.008653	62.08	mg/kg	22.495	36.24%
Sb 206.836†	-0.9	-0.01158	mg/L	0.014401	-30.11	mg/kg	37.441	124.35%
Sb 217.582†	-0.9	-0.00649	mg/L	0.036183	-16.88	mg/kg	94.070	557.18%
Se 196.026†	-1.2	-0.03787	mg/L	0.137844	-98.44	mg/kg	358.371	364.04%
Se 203.985†	-51.4	-1.506	mg/L	0.0929	-3916	mg/kg	241.4	6.16%
Sn 235.485†	139.8	-0.02424	mg/L	0.009740	-63.03	mg/kg	25.322	40.18%
Sn 189.927†	-12.1	-0.1202	mg/L	0.05362	-312.6	mg/kg	139.41	44.60%
Sr 460.733†	414.7	0.07298	mg/L	0.010935	189.7	mg/kg	28.43	14.98%
Sr 407.771†	117490.1	0.07946	mg/L	0.002135	206.6	mg/kg	5.55	2.69%
Sr 421.552†	39692.3	0.08188	mg/L	0.000573	212.9	mg/kg	1.49	0.70%
Ti 337.279†	2140.1	0.05195	mg/L	0.000325	135.1	mg/kg	0.84	0.63%
Ti 334.940†	3103.6	0.05530	mg/L	0.001004	143.8	mg/kg	2.61	1.82%
Ti 336.121†	2369.1	0.05669	mg/L	0.000891	147.4	mg/kg	2.32	1.57%
Tl 351.924†	-27.8	-0.04166	mg/L	0.043925	-108.3	mg/kg	114.20	105.44%
Tl 190.801†	12.7	0.3097	mg/L	0.02082	805.0	mg/kg	54.12	6.72%
Tl 276.787†	1979.1	2.203	mg/L	0.0698	5728	mg/kg	181.5	3.17%
V 310.230†	-64.7	-0.00191	mg/L	0.001977	-4.955	mg/kg	5.1405	103.73%
V 292.402†	98.7	0.00621	mg/L	0.000991	16.14	mg/kg	2.577	15.96%
V 311.071†	-110.9	-0.00520	mg/L	0.000801	-13.52	mg/kg	2.082	15.40%
Zn 206.200†	26.4	0.02072	mg/L	0.004236	53.86	mg/kg	11.013	20.45%
Zn 213.857†	144.2	0.03265	mg/L	0.000629	84.88	mg/kg	1.637	1.93%
Zn 202.548†	39.3	0.02090	mg/L	0.001122	54.34	mg/kg	2.918	5.37%

Sb 206.836†	-1.6	-0.01985	mg/L	0.005110	-21.07	mg/kg	5.423	25.74%
Sb 217.582†	4.0	0.02903	mg/L	0.003760	30.81	mg/kg	3.990	12.95%
Se 196.026†	-1.9	-0.06013	mg/L	0.018049	-63.81	mg/kg	19.155	30.02%
Se 203.985†	0.3	0.01832	mg/L	0.040070	19.45	mg/kg	42.527	218.68%
Sn 235.485†	32.3	0.04461	mg/L	0.001812	47.35	mg/kg	1.924	4.06%
Sn 189.927†	-0.3	-0.00515	mg/L	0.015732	-5.464	mg/kg	16.6964	305.58%
Sr 460.733†	-10.2	-0.00175	mg/L	0.005368	-1.860	mg/kg	5.6974	306.30%
Sr 407.771†	-535.5	-0.00037	mg/L	0.000110	-0.3875	mg/kg	0.11638	30.03%
Sr 421.552†	-336.6	-0.00069	mg/L	0.000126	-0.7368	mg/kg	0.13327	18.09%
Ti 337.279†	45.3	0.00110	mg/L	0.000461	1.165	mg/kg	0.4889	41.97%
Ti 334.940†	-137.2	-0.00200	mg/L	0.000149	-2.121	mg/kg	0.1585	7.48%
Ti 336.121†	-34.9	-0.00080	mg/L	0.000189	-0.8510	mg/kg	0.20032	23.54%
Tl 351.924†	-391.3	-0.5564	mg/L	0.02047	-590.5	mg/kg	21.73	3.68%
Tl 190.801†	2.9	0.1132	mg/L	0.02305	120.2	mg/kg	24.46	20.36%
Tl 276.787†	-27.5	-0.06713	mg/L	0.003982	-71.24	mg/kg	4.226	5.93%
V 310.230†	-3145.8	-0.08608	mg/L	0.001728	-91.36	mg/kg	1.834	2.01%
V 292.402†	15.2	0.00110	mg/L	0.000515	1.166	mg/kg	0.5465	46.87%
V 311.071†	-209.7	-0.00948	mg/L	0.000611	-10.06	mg/kg	0.648	6.45%
Zn 206.200†	-0.7	-0.00071	mg/L	0.000926	-0.7514	mg/kg	0.98278	130.79%
Zn 213.857†	-5.5	-0.00162	mg/L	0.000117	-1.720	mg/kg	0.1238	7.20%
Zn 202.548†	-4.4	-0.00262	mg/L	0.000190	-2.782	mg/kg	0.2015	7.24%

==========

Sequence No.: 23 **Autosampler Location: 302**
Sample ID: 0909014-01 **Date Collected: 10/26/2009 2:26:52 PM**
Data Type: Original

Initial Sample Wt: 0.5494 g
Dilution: 25X **Sample Prep Vol: 50 mL**
User canceled analysis.

==========

Analysis Begun

Start Time: 10/26/2009 2:27:43 PM **Plasma On Time: 10/26/2009 9:50:10 AM**
Logged In Analyst: Kswan2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF dils.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

==========

Sequence No.: 22 **Autosampler Location: 301**
Sample ID: 0909006-04 **Date Collected: 10/26/2009 2:27:43 PM**
Data Type: Original

Initial Sample Wt: 0.5889 g
Dilution: 12.5X **Sample Prep Vol: 50 mL**

Mean Data: 0909006-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160622.1	101.1	%	0.81				0.80%
Ag 328.068†	11.7	0.00168	mg/L	0.001154	1.781	mg/kg	1.2242	68.72%
Ag 338.289†	3.8	0.00103	mg/L	0.002143	1.091	mg/kg	2.2749	208.57%
Al 308.215†	7601.6	4.305	mg/L	0.0319	4569	mg/kg	33.9	0.74%
Al 394.401†	12374.1	4.269	mg/L	0.0144	4530	mg/kg	15.3	0.34%
Al 396.153†	29507.0	4.089	mg/L	0.0282	4340	mg/kg	30.0	0.69%
As 188.979†	-20.9	-0.4112	mg/L	0.06727	-436.4	mg/kg	71.40	16.36%
As 193.696†	13.4	0.1871	mg/L	0.04872	198.5	mg/kg	51.71	26.05%
As 197.197†	-10.0	-0.1547	mg/L	0.18042	-164.2	mg/kg	191.48	116.62%
B 208.889†	16.8	0.04693	mg/L	0.013211	49.80	mg/kg	14.020	28.15%
B 249.677†	34.9	0.00829	mg/L	0.003505	8.795	mg/kg	3.7203	42.30%
B 249.772†	458.8	0.00955	mg/L	0.001220	10.14	mg/kg	1.295	12.77%
Ba 233.527†	296.8	0.04463	mg/L	0.001178	47.36	mg/kg	1.250	2.64%
Ba 455.403†	16454.5	0.04530	mg/L	0.000433	48.08	mg/kg	0.460	0.96%
Ba 493.408†	17487.5	0.04588	mg/L	0.000327	48.69	mg/kg	0.347	0.71%
Be 234.861†	224.2	0.00028	mg/L	0.000523	0.2936	mg/kg	0.55462	188.89%
Be 313.042†	203.2	0.00037	mg/L	0.000043	0.3907	mg/kg	0.04523	11.58%
Be 313.107†	106.8	0.00037	mg/L	0.000045	0.3928	mg/kg	0.04828	12.29%

Ca 315.887†	736843.8	100.1	mg/L	1.04	106300	mg/kg	1103.5	1.04%
Ca 317.933†	1225247.4	94.40	mg/L	0.838	100200	mg/kg	889.0	0.89%
Cd 214.440†	37.9	0.00325	mg/L	0.016181	3.447	mg/kg	17.1733	498.15%
Cd 226.502†	7.1	0.00019	mg/L	0.001360	0.2041	mg/kg	1.44311	706.91%
Cd 228.802†	4.9	-0.00749	mg/L	0.000708	-7.954	mg/kg	0.7514	9.45%
Ce 413.380†	70.7	0.01105	mg/L	0.013806	11.73	mg/kg	14.653	124.94%
Ce 413.764†	-6.2	0.00419	mg/L	0.008664	4.445	mg/kg	9.1946	206.87%
Ce 418.660†	-49.3	-0.00234	mg/L	0.018754	-2.480	mg/kg	19.9039	802.54%
Co 228.616†	12.1	0.00439	mg/L	0.001950	4.662	mg/kg	2.0699	44.40%
Co 230.786†	106.5	0.01908	mg/L	0.002705	20.25	mg/kg	2.871	14.18%
Co 238.892†	324.5	0.00688	mg/L	0.004056	7.307	mg/kg	4.3043	58.91%
Cr 205.560†	5.6	0.01377	mg/L	0.006365	14.61	mg/kg	6.755	46.23%
Cr 267.716†	148.6	0.02183	mg/L	0.001476	23.17	mg/kg	1.567	6.76%
Cr 283.563†	925.7	0.02020	mg/L	0.000317	21.44	mg/kg	0.337	1.57%
Cu 224.700†	57.2	-0.2160	mg/L	0.00816	-229.2	mg/kg	8.66	3.78%
Cu 324.752†	920.1	0.02489	mg/L	0.000236	26.41	mg/kg	0.251	0.95%
Cu 327.393†	439.5	0.02819	mg/L	0.000223	29.91	mg/kg	0.236	0.79%
Fe 238.204†	182531.2	19.71	mg/L	0.120	20920	mg/kg	127.2	0.61%
Fe 239.562†	120704.1	19.74	mg/L	0.101	20950	mg/kg	106.9	0.51%
Fe 259.939†	223470.2	19.50	mg/L	0.084	20700	mg/kg	89.2	0.43%
Fe 273.955†	33685.1	19.99	mg/L	0.114	21210	mg/kg	120.8	0.57%
K 766.490†	3388.8	0.7583	mg/L	0.02582	804.8	mg/kg	27.41	3.41%
Li 610.362†	1640.0	0.02095	mg/L	0.032873	22.23	mg/kg	34.889	156.93%
Li 670.784†	972.6	0.00908	mg/L	0.000321	9.640	mg/kg	0.3409	3.54%
Mg 279.077†	32218.0	28.49	mg/L	0.234	30230	mg/kg	248.4	0.82%
Mg 280.271†	7249497.2	27.99	mg/L	0.272	29700	mg/kg	288.7	0.97%
Mg 285.213†	735201.2	26.03	mg/L	0.200	27630	mg/kg	212.6	0.77%
Mn 257.610†	18784.8	0.3894	mg/L	0.00163	413.3	mg/kg	1.73	0.42%
Mn 259.372†	26885.2	0.3888	mg/L	0.00180	412.6	mg/kg	1.91	0.46%
Mn 260.568†	10457.6	0.3640	mg/L	0.00270	386.3	mg/kg	2.86	0.74%
Mo 202.031†	4.4	0.00837	mg/L	0.014214	8.881	mg/kg	15.0854	169.86%
Mo 203.845†	24.7	0.1034	mg/L	0.01101	109.7	mg/kg	11.69	10.66%
Mo 204.597†	-7.4	-0.01522	mg/L	0.010678	-16.16	mg/kg	11.333	70.14%
Na 588.995†	34621.8	2.357	mg/L	0.0660	2502	mg/kg	70.0	2.80%
Na 589.592†	18659.8	2.367	mg/L	0.0185	2512	mg/kg	19.7	0.78%
Ni 221.648†	28.4	0.02420	mg/L	0.002437	25.69	mg/kg	2.586	10.07%
Ni 231.604†	74.3	0.02747	mg/L	0.000872	29.16	mg/kg	0.925	3.17%
Ni 232.003†	-7.4	0.01521	mg/L	0.000146	16.14	mg/kg	0.155	0.96%
Pb 217.000†	1.1	0.00538	mg/L	0.020184	5.714	mg/kg	21.4214	374.89%
Pb 220.353†	50.8	0.1196	mg/L	0.01313	126.9	mg/kg	13.93	10.98%
Sb 206.836†	-2.5	-0.03097	mg/L	0.013236	-32.87	mg/kg	14.047	42.74%
Sb 217.582†	-5.7	-0.04175	mg/L	0.008837	-44.31	mg/kg	9.378	21.17%
Se 196.026†	0.2	0.00485	mg/L	0.044564	5.149	mg/kg	47.2954	918.52%
Se 203.985†	-56.5	-1.630	mg/L	0.1807	-1730	mg/kg	191.7	11.09%
Sn 235.485†	1998.4	-0.03073	mg/L	0.004382	-32.62	mg/kg	4.651	14.26%
Sn 189.927†	-16.0	-0.1707	mg/L	0.02255	-181.1	mg/kg	23.93	13.21%
Sr 460.733†	702.3	0.1238	mg/L	0.00045	131.4	mg/kg	0.48	0.37%
Sr 407.771†	165112.8	0.1119	mg/L	0.00062	118.8	mg/kg	0.65	0.55%
Sr 421.552†	54710.0	0.1129	mg/L	0.00063	119.8	mg/kg	0.66	0.56%
Ti 337.279†	3154.4	0.07664	mg/L	0.001202	81.34	mg/kg	1.276	1.57%
Ti 334.940†	4379.1	0.07520	mg/L	0.000492	79.81	mg/kg	0.523	0.65%
Ti 336.121†	3501.6	0.08310	mg/L	0.000791	88.20	mg/kg	0.840	0.95%
Tl 351.924†	-4.5	-0.01177	mg/L	0.014935	-12.49	mg/kg	15.850	126.93%
Tl 190.801†	15.3	0.3762	mg/L	0.03060	399.2	mg/kg	32.48	8.14%
Tl 276.787†	1563.6	1.789	mg/L	0.0385	1898	mg/kg	40.8	2.15%
V 310.230†	222.8	0.00579	mg/L	0.001055	6.147	mg/kg	1.1198	18.22%
V 292.402†	215.0	0.01095	mg/L	0.000343	11.62	mg/kg	0.364	3.13%
V 311.071†	112.6	0.00402	mg/L	0.000525	4.270	mg/kg	0.5567	13.04%
Zn 206.200†	138.2	0.1385	mg/L	0.00355	147.0	mg/kg	3.76	2.56%
Zn 213.857†	570.0	0.1603	mg/L	0.00295	170.1	mg/kg	3.13	1.84%
Zn 202.548†	239.7	0.1435	mg/L	0.00371	152.3	mg/kg	3.94	2.58%

==========

Sequence No.: 23
Sample ID: 0909014-01

Initial Sample Wt: 0.5494 g
Dilution: 25X

Autosampler Location: 302
Date Collected: 10/26/2009 2:28:51 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156191.3	98.28	%	0.539				0.55%
Ag 328.068†	-6.6	0.00034	mg/L	0.001010	0.7638	mg/kg	2.29745	300.79%
Ag 338.289†	-11.9	-0.00056	mg/L	0.002483	-1.265	mg/kg	5.6497	446.67%
Al 308.215†	2822.9	1.599	mg/L	0.0059	3637	mg/kg	13.4	0.37%
Al 394.401†	4412.6	1.521	mg/L	0.0347	3461	mg/kg	78.9	2.28%
Al 396.153†	10690.3	1.487	mg/L	0.0618	3383	mg/kg	140.7	4.16%
As 188.979†	-2.3	-0.01384	mg/L	0.080072	-31.50	mg/kg	182.180	578.39%
As 193.696†	4.1	0.06964	mg/L	0.046980	158.5	mg/kg	106.89	67.46%
As 197.197†	-3.7	-0.09292	mg/L	0.068826	-211.4	mg/kg	156.59	74.07%
B 208.889†	2.1	0.00467	mg/L	0.003284	10.64	mg/kg	7.473	70.26%
B 249.677†	3.4	-0.00013	mg/L	0.001069	-0.3004	mg/kg	2.43218	809.58%
B 249.772†	158.7	0.00114	mg/L	0.000444	2.597	mg/kg	1.0093	38.87%
Ba 233.527†	64.2	0.00950	mg/L	0.000535	21.61	mg/kg	1.218	5.64%
Ba 455.403†	3546.0	0.00976	mg/L	0.000302	22.21	mg/kg	0.688	3.10%
Ba 493.408†	3725.3	0.00975	mg/L	0.000370	22.19	mg/kg	0.842	3.79%
Be 234.861†	89.2	0.00016	mg/L	0.000053	0.3625	mg/kg	0.12031	33.19%
Be 313.042†	51.8	0.00008	mg/L	0.000012	0.1887	mg/kg	0.02806	14.87%
Be 313.107†	43.5	0.00014	mg/L	0.000067	0.3250	mg/kg	0.15245	46.90%
Ca 315.887†	155310.8	21.11	mg/L	0.768	48020	mg/kg	1747.6	3.64%
Ca 317.933†	259187.1	19.97	mg/L	0.746	45430	mg/kg	1697.7	3.74%
Cd 214.440†	-10.2	-0.00421	mg/L	0.011721	-9.581	mg/kg	26.6666	278.33%
Cd 226.502†	2.7	0.00002	mg/L	0.001757	0.04407	mg/kg	3.997023	>999.9%
Cd 228.802†	1.2	-0.00240	mg/L	0.001401	-5.459	mg/kg	3.1872	58.38%
Ce 413.380†	92.6	0.01816	mg/L	0.010804	41.32	mg/kg	24.580	59.49%
Ce 413.764†	82.0	0.01826	mg/L	0.013375	41.55	mg/kg	30.430	73.23%
Ce 418.660†	81.8	0.01633	mg/L	0.003691	37.16	mg/kg	8.397	22.60%
Co 228.616†	-0.8	-0.00072	mg/L	0.002869	-1.647	mg/kg	6.5286	396.44%
Co 230.786†	48.3	0.01505	mg/L	0.001645	34.24	mg/kg	3.743	10.93%
Co 238.892†	123.0	0.00292	mg/L	0.002586	6.632	mg/kg	5.8837	88.71%
Cr 205.560†	0.9	0.00238	mg/L	0.005480	5.422	mg/kg	12.4683	229.96%
Cr 267.716†	25.4	0.00430	mg/L	0.000824	9.787	mg/kg	1.8758	19.17%
Cr 283.563†	347.6	0.00645	mg/L	0.000742	14.67	mg/kg	1.688	11.51%
Cu 224.700†	22.8	-0.08164	mg/L	0.017016	-185.7	mg/kg	38.71	20.84%
Cu 324.752†	232.7	0.00622	mg/L	0.001151	14.16	mg/kg	2.620	18.51%
Cu 327.393†	116.2	0.00744	mg/L	0.001108	16.94	mg/kg	2.521	14.88%
Fe 238.204†	67874.1	7.330	mg/L	0.2578	16680	mg/kg	586.6	3.52%
Fe 239.562†	44819.3	7.329	mg/L	0.2609	16680	mg/kg	593.7	3.56%
Fe 259.939†	83270.6	7.267	mg/L	0.2626	16530	mg/kg	597.4	3.61%
Fe 273.955†	12876.1	7.641	mg/L	0.2531	17380	mg/kg	575.9	3.31%
K 766.490†	922.6	0.2064	mg/L	0.00928	469.7	mg/kg	21.11	4.49%
Li 610.362†	2942.9	0.2053	mg/L	0.03722	467.0	mg/kg	84.69	18.14%
Li 670.784†	373.0	0.00348	mg/L	0.000490	7.926	mg/kg	1.1155	14.07%
Mg 279.077†	3688.4	3.257	mg/L	0.0124	7410	mg/kg	28.1	0.38%
Mg 280.271†	782246.7	3.020	mg/L	0.1111	6871	mg/kg	252.9	3.68%
Mg 285.213†	78085.1	2.765	mg/L	0.1024	6291	mg/kg	232.9	3.70%
Mn 257.610†	4665.1	0.09681	mg/L	0.000402	220.3	mg/kg	0.92	0.42%
Mn 259.372†	7022.5	0.09905	mg/L	0.000242	225.4	mg/kg	0.55	0.24%
Mn 260.568†	2581.6	0.08985	mg/L	0.000541	204.4	mg/kg	1.23	0.60%
Mo 202.031†	1.8	0.00481	mg/L	0.008950	10.94	mg/kg	20.364	186.08%
Mo 203.845†	4.5	0.02038	mg/L	0.018567	46.38	mg/kg	42.244	91.09%
Mo 204.597†	-2.5	-0.00763	mg/L	0.012794	-17.35	mg/kg	29.109	167.73%
Na 588.995†	3084.6	0.2100	mg/L	0.02472	477.8	mg/kg	56.24	11.77%
Na 589.592†	483.3	0.06133	mg/L	0.007996	139.5	mg/kg	18.19	13.04%
Ni 221.648†	7.1	0.00587	mg/L	0.001112	13.36	mg/kg	2.530	18.93%
Ni 231.604†	21.8	0.00829	mg/L	0.004134	18.87	mg/kg	9.406	49.86%
Ni 232.003†	-0.1	0.00704	mg/L	0.001051	16.01	mg/kg	2.391	14.93%
Pb 217.000†	-3.4	-0.05304	mg/L	0.007530	-120.7	mg/kg	17.13	14.20%
Pb 220.353†	7.8	0.01780	mg/L	0.013708	40.49	mg/kg	31.190	77.02%
Sb 206.836†	-1.1	-0.01399	mg/L	0.016434	-31.83	mg/kg	37.391	117.49%
Sb 217.582†	-0.9	-0.00647	mg/L	0.012704	-14.73	mg/kg	28.904	196.29%
Se 196.026†	-3.7	-0.1181	mg/L	0.06172	-268.7	mg/kg	140.43	52.26%
Se 203.985†	-12.1	-0.3457	mg/L	0.14616	-786.6	mg/kg	332.55	42.27%
Sn 235.485†	774.4	0.00422	mg/L	0.038203	9.592	mg/kg	86.9202	906.16%
Sn 189.927†	-1.6	-0.00977	mg/L	0.019212	-22.22	mg/kg	43.711	196.71%
Sr 460.733†	137.4	0.02417	mg/L	0.011536	55.00	mg/kg	26.246	47.72%
Sr 407.771†	43140.5	0.02930	mg/L	0.001027	66.66	mg/kg	2.336	3.50%
Sr 421.552†	14200.5	0.02929	mg/L	0.001182	66.65	mg/kg	2.690	4.04%
Ti 337.279†	2085.8	0.05065	mg/L	0.003495	115.2	mg/kg	7.95	6.90%
Ti 334.940†	3615.9	0.05523	mg/L	0.000334	125.7	mg/kg	0.76	0.61%

Ti 336.121†	2389.1	0.05562 mg/L	0.000600	126.5 mg/kg	1.36	1.08%
Tl 351.924†	-1.6	-0.00696 mg/L	0.031825	-15.84 mg/kg	72.408	457.13%
Tl 190.801†	3.8	0.09854 mg/L	0.010255	224.2 mg/kg	23.33	10.41%
Tl 276.787†	179.3	0.2017 mg/L	0.00844	459.0 mg/kg	19.21	4.19%
V 310.230†	184.4	0.00498 mg/L	0.000717	11.32 mg/kg	1.631	14.41%
V 292.402†	99.2	0.00533 mg/L	0.001046	12.13 mg/kg	2.380	19.62%
V 311.071†	133.5	0.00528 mg/L	0.000463	12.02 mg/kg	1.053	8.76%
Zn 206.200†	31.8	0.03203 mg/L	0.005684	72.88 mg/kg	12.933	17.75%
Zn 213.857†	137.4	0.03880 mg/L	0.000310	88.28 mg/kg	0.706	0.80%
Zn 202.548†	55.6	0.03336 mg/L	0.001561	75.89 mg/kg	3.551	4.68%

Sequence No.: 24
Sample ID: 0909014-02

Autosampler Location: 303
Date Collected: 10/26/2009 2:29:53 PM
Data Type: Original

Initial Sample Wt: 0.4546 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: 0909014-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	166046.7	104.5	%	1.58				1.51%
Ag 328.068†	26.2	0.00141	mg/L	0.000173	3.868	mg/kg	0.4759	12.30%
Ag 338.289†	-4.1	0.00036	mg/L	0.002891	0.9954	mg/kg	7.94928	798.59%
Al 308.215†	4544.7	2.574	mg/L	0.0495	7079	mg/kg	136.0	1.92%
Al 394.401†	7714.9	2.650	mg/L	0.0174	7288	mg/kg	47.7	0.66%
Al 396.153†	18226.6	2.520	mg/L	0.0071	6929	mg/kg	19.6	0.28%
As 188.979†	-17.1	-0.3376	mg/L	0.08154	-928.4	mg/kg	224.22	24.15%
As 193.696†	14.7	0.2194	mg/L	0.04321	603.4	mg/kg	118.81	19.69%
As 197.197†	-13.2	-0.3068	mg/L	0.08114	-843.7	mg/kg	223.10	26.44%
B 208.889†	4.6	0.01310	mg/L	0.008596	36.01	mg/kg	23.637	65.64%
B 249.677†	17.5	0.00476	mg/L	0.001476	13.08	mg/kg	4.059	31.04%
B 249.772†	155.6	0.00458	mg/L	0.000329	12.60	mg/kg	0.905	7.18%
Ba 233.527†	240.0	0.03648	mg/L	0.001537	100.3	mg/kg	4.23	4.21%
Ba 455.403†	13629.8	0.03753	mg/L	0.000378	103.2	mg/kg	1.04	1.01%
Ba 493.408†	14636.5	0.03845	mg/L	0.000118	105.7	mg/kg	0.33	0.31%
Be 234.861†	75.5	0.00015	mg/L	0.000072	0.4108	mg/kg	0.19697	47.95%
Be 313.042†	94.8	0.00018	mg/L	0.000065	0.4989	mg/kg	0.17782	35.64%
Be 313.107†	56.0	0.00019	mg/L	0.000009	0.5087	mg/kg	0.02602	5.11%
Ca 315.887†	586462.1	79.70	mg/L	0.317	219200	mg/kg	870.6	0.40%
Ca 317.933†	975759.8	75.18	mg/L	0.286	206700	mg/kg	785.5	0.38%
Cd 214.440†	36.9	0.00557	mg/L	0.005610	15.32	mg/kg	15.425	100.70%
Cd 226.502†	6.2	0.00107	mg/L	0.001524	2.948	mg/kg	4.1902	142.14%
Cd 228.802†	1.2	-0.00934	mg/L	0.000855	-25.68	mg/kg	2.352	9.16%
Ce 413.380†	115.8	0.02334	mg/L	0.009562	64.18	mg/kg	26.291	40.97%
Ce 413.764†	49.2	0.01152	mg/L	0.015704	31.67	mg/kg	43.180	136.33%
Ce 418.660†	-11.4	0.00319	mg/L	0.012723	8.760	mg/kg	34.9836	399.37%
Co 228.616†	2.8	0.00089	mg/L	0.000267	2.444	mg/kg	0.7332	30.00%
Co 230.786†	33.9	0.00058	mg/L	0.004463	1.581	mg/kg	12.2723	776.10%
Co 238.892†	121.7	0.00533	mg/L	0.000997	14.66	mg/kg	2.742	18.70%
Cr 205.560†	2.7	0.00801	mg/L	0.003460	22.04	mg/kg	9.513	43.17%
Cr 267.716†	80.2	0.01252	mg/L	0.001946	34.43	mg/kg	5.351	15.54%
Cr 283.563†	425.2	0.01240	mg/L	0.000788	34.10	mg/kg	2.166	6.35%
Cu 224.700†	72.0	-0.07854	mg/L	0.035746	-216.0	mg/kg	98.29	45.51%
Cu 324.752†	2122.4	0.05860	mg/L	0.000867	161.1	mg/kg	2.38	1.48%
Cu 327.393†	1105.8	0.07098	mg/L	0.002143	195.2	mg/kg	5.89	3.02%
Fe 238.204†	57749.2	6.237	mg/L	0.0427	17150	mg/kg	117.4	0.68%
Fe 239.562†	38128.4	6.237	mg/L	0.0338	17150	mg/kg	92.9	0.54%
Fe 259.939†	70547.5	6.157	mg/L	0.0407	16930	mg/kg	112.0	0.66%
Fe 273.955†	10661.9	6.327	mg/L	0.0418	17400	mg/kg	114.8	0.66%
K 766.490†	1687.2	0.3775	mg/L	0.05542	1038	mg/kg	152.4	14.68%
Li 610.362†	177.8	-0.06162	mg/L	0.065970	-169.4	mg/kg	181.40	107.06%
Li 670.784†	564.4	0.00527	mg/L	0.001389	14.49	mg/kg	3.820	26.35%
Mg 279.077†	7765.7	6.865	mg/L	0.0636	18880	mg/kg	174.9	0.93%
Mg 280.271†	1726364.1	6.665	mg/L	0.0271	18330	mg/kg	74.6	0.41%
Mg 285.213†	194503.3	6.887	mg/L	0.0225	18940	mg/kg	61.9	0.33%
Mn 257.610†	6189.1	0.1284	mg/L	0.00208	353.0	mg/kg	5.72	1.62%
Mn 259.372†	8310.9	0.1202	mg/L	0.00100	330.6	mg/kg	2.76	0.84%
Mn 260.568†	3374.8	0.1175	mg/L	0.00190	323.1	mg/kg	5.23	1.62%
Mo 202.031†	1.1	-0.00204	mg/L	0.011639	-5.621	mg/kg	32.0033	569.31%

Mo 203.845†	11.4	0.05331	mg/L	0.012428	146.6	mg/kg	34.17	23.32%
Mo 204.597†	-9.5	-0.02890	mg/L	0.023500	-79.45	mg/kg	64.617	81.33%
Na 588.995†	8111.3	0.5522	mg/L	0.06303	1518	mg/kg	173.3	11.41%
Na 589.592†	5315.6	0.6744	mg/L	0.02040	1854	mg/kg	56.1	3.03%
Ni 221.648†	9.3	0.00792	mg/L	0.002295	21.79	mg/kg	6.310	28.96%
Ni 231.604†	31.5	0.01059	mg/L	0.000790	29.12	mg/kg	2.173	7.46%
Ni 232.003†	-4.0	0.00682	mg/L	0.002009	18.75	mg/kg	5.524	29.47%
Pb 217.000†	-0.9	-0.00100	mg/L	0.027581	-2.762	mg/kg	75.8383	>999.9%
Pb 220.353†	24.1	0.05213	mg/L	0.009982	143.3	mg/kg	27.45	19.15%
Sb 206.836†	-1.7	-0.02101	mg/L	0.018509	-57.76	mg/kg	50.893	88.11%
Sb 217.582†	-1.4	-0.01020	mg/L	0.036645	-28.06	mg/kg	100.763	359.13%
Se 196.026†	-2.3	-0.07284	mg/L	0.105624	-200.3	mg/kg	290.43	145.01%
Se 203.985†	-50.7	-1.510	mg/L	0.1161	-4152	mg/kg	319.1	7.69%
Sn 235.485†	620.0	-0.02826	mg/L	0.023120	-77.70	mg/kg	63.571	81.81%
Sn 189.927†	-12.4	-0.1317	mg/L	0.00259	-362.0	mg/kg	7.13	1.97%
Sr 460.733†	507.3	0.08934	mg/L	0.012604	245.6	mg/kg	34.66	14.11%
Sr 407.771†	130993.9	0.08881	mg/L	0.000458	244.2	mg/kg	1.26	0.52%
Sr 421.552†	45323.0	0.09349	mg/L	0.000662	257.1	mg/kg	1.82	0.71%
Ti 337.279†	3108.6	0.07547	mg/L	0.000072	207.5	mg/kg	0.20	0.10%
Ti 334.940†	4333.9	0.07226	mg/L	0.000870	198.7	mg/kg	2.39	1.20%
Ti 336.121†	3371.4	0.07967	mg/L	0.001555	219.1	mg/kg	4.28	1.95%
Tl 351.924†	-28.3	-0.04379	mg/L	0.023340	-120.4	mg/kg	64.18	53.30%
Tl 190.801†	13.0	0.3236	mg/L	0.01737	889.7	mg/kg	47.77	5.37%
Tl 276.787†	390.8	0.4634	mg/L	0.02474	1274	mg/kg	68.0	5.34%
V 310.230†	-102.9	-0.00298	mg/L	0.002378	-8.188	mg/kg	6.5400	79.88%
V 292.402†	116.6	0.00636	mg/L	0.000892	17.48	mg/kg	2.453	14.03%
V 311.071†	95.2	0.00365	mg/L	0.000362	10.05	mg/kg	0.996	9.91%
Zn 206.200†	115.7	0.1163	mg/L	0.00428	319.9	mg/kg	11.77	3.68%
Zn 213.857†	473.7	0.1345	mg/L	0.00184	369.9	mg/kg	5.06	1.37%
Zn 202.548†	197.6	0.1181	mg/L	0.00189	324.7	mg/kg	5.20	1.60%

Sequence No.: 25
Sample ID: 0909014-03

Autosampler Location: 304
Date Collected: 10/26/2009 2:30:58 PM
Data Type: Original

Initial Sample Wt: 0.5893 g
Dilution: 12.5X

Sample Prep Vol: 50 mL

Mean Data: 0909014-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158372.8	99.66	%	1.781				1.79%
Ag 328.068†	56.9	0.00257	mg/L	0.000163	2.729	mg/kg	0.1725	6.32%
Ag 338.289†	2.7	0.00149	mg/L	0.001701	1.583	mg/kg	1.8037	113.93%
Al 308.215†	6048.9	3.426	mg/L	0.0480	3634	mg/kg	50.9	1.40%
Al 394.401†	9751.7	3.340	mg/L	0.0171	3542	mg/kg	18.1	0.51%
Al 396.153†	23741.2	3.272	mg/L	0.0435	3470	mg/kg	46.1	1.33%
As 188.979†	-27.6	-0.5469	mg/L	0.05102	-580.0	mg/kg	54.11	9.33%
As 193.696†	16.9	0.2123	mg/L	0.04232	225.2	mg/kg	44.88	19.93%
As 197.197†	-13.7	-0.2198	mg/L	0.10794	-233.1	mg/kg	114.48	49.10%
B 208.889†	18.4	0.05360	mg/L	0.012759	56.84	mg/kg	13.532	23.81%
B 249.677†	35.1	0.01045	mg/L	0.001100	11.09	mg/kg	1.166	10.52%
B 249.772†	237.5	0.01388	mg/L	0.001588	14.72	mg/kg	1.684	11.44%
Ba 233.527†	186.4	0.02823	mg/L	0.001094	29.93	mg/kg	1.160	3.88%
Ba 455.403†	10710.6	0.02949	mg/L	0.000724	31.28	mg/kg	0.768	2.46%
Ba 493.408†	11128.1	0.02922	mg/L	0.000593	30.99	mg/kg	0.628	2.03%
Be 234.861†	72.2	-0.00006	mg/L	0.000118	-0.06614	mg/kg	0.124701	188.54%
Be 313.042†	148.1	0.00029	mg/L	0.000056	0.3074	mg/kg	0.05898	19.19%
Be 313.107†	75.5	0.00025	mg/L	0.000035	0.2617	mg/kg	0.03751	14.34%
Ca 315.887†	960710.4	130.6	mg/L	4.92	138500	mg/kg	5222.2	3.77%
Ca 317.933†	1600091.3	123.3	mg/L	4.90	130700	mg/kg	5194.6	3.97%
Cd 214.440†	84.0	0.01514	mg/L	0.011836	16.06	mg/kg	12.553	78.17%
Cd 226.502†	-1.4	-0.00091	mg/L	0.001491	-0.9610	mg/kg	1.58081	164.50%
Cd 228.802†	0.9	-0.01084	mg/L	0.001495	-11.50	mg/kg	1.586	13.79%
Ce 413.380†	13.3	0.00136	mg/L	0.015409	1.445	mg/kg	16.3427	>999.9%
Ce 413.764†	47.1	0.01149	mg/L	0.017434	12.18	mg/kg	18.491	151.79%
Ce 418.660†	-41.5	0.00112	mg/L	0.011516	1.184	mg/kg	12.2132	>999.9%
Co 228.616†	7.6	0.00291	mg/L	0.001558	3.087	mg/kg	1.6525	53.52%
Co 230.786†	109.2	0.02613	mg/L	0.005181	27.71	mg/kg	5.495	19.83%
Co 238.892†	152.5	0.00773	mg/L	0.000502	8.198	mg/kg	0.5329	6.50%

Cr 205.560†	-1.8	0.00234	mg/L	0.007237	2.482	mg/kg	7.6751	309.27%
Cr 267.716†	86.4	0.01017	mg/L	0.000095	10.79	mg/kg	0.100	0.93%
Cr 283.563†	275.1	0.00718	mg/L	0.000788	7.618	mg/kg	0.8359	10.97%
Cu 224.700†	28.9	-0.1810	mg/L	0.02673	-191.9	mg/kg	28.35	14.77%
Cu 324.752†	557.7	0.01525	mg/L	0.000710	16.18	mg/kg	0.753	4.65%
Cu 327.393†	262.1	0.01677	mg/L	0.000940	17.78	mg/kg	0.997	5.61%
Fe 238.204†	66373.8	7.168	mg/L	0.1080	7602	mg/kg	114.6	1.51%
Fe 239.562†	43643.4	7.140	mg/L	0.0940	7573	mg/kg	99.7	1.32%
Fe 259.939†	81345.9	7.099	mg/L	0.1055	7529	mg/kg	111.9	1.49%
Fe 273.955†	12392.5	7.354	mg/L	0.1031	7800	mg/kg	109.3	1.40%
K 766.490†	1925.4	0.4308	mg/L	0.03278	456.9	mg/kg	34.77	7.61%
Li 610.362†	2662.0	0.08827	mg/L	0.102118	93.62	mg/kg	108.304	115.69%
Li 670.784†	799.6	0.00747	mg/L	0.001011	7.920	mg/kg	1.0718	13.53%
Mg 279.077†	37821.8	33.45	mg/L	0.498	35480	mg/kg	528.2	1.49%
Mg 280.271†	8433099.0	32.56	mg/L	1.152	34530	mg/kg	1221.8	3.54%
Mg 285.213†	858458.8	30.40	mg/L	1.124	32240	mg/kg	1192.0	3.70%
Mn 257.610†	11057.8	0.2288	mg/L	0.00322	242.7	mg/kg	3.41	1.41%
Mn 259.372†	15499.3	0.2284	mg/L	0.00293	242.2	mg/kg	3.11	1.28%
Mn 260.568†	6653.2	0.2314	mg/L	0.00291	245.4	mg/kg	3.08	1.26%
Mo 202.031†	6.7	0.01118	mg/L	0.012159	11.85	mg/kg	12.896	108.78%
Mo 203.845†	24.9	0.09997	mg/L	0.015490	106.0	mg/kg	16.43	15.50%
Mo 204.597†	-10.8	-0.02547	mg/L	0.004501	-27.01	mg/kg	4.773	17.67%
Na 588.995†	13731.4	0.9349	mg/L	0.10306	991.5	mg/kg	109.31	11.02%
Na 589.592†	6428.8	0.8156	mg/L	0.01009	865.0	mg/kg	10.71	1.24%
Ni 221.648†	6.2	0.00514	mg/L	0.007643	5.452	mg/kg	8.1064	148.70%
Ni 231.604†	35.4	0.01071	mg/L	0.001884	11.35	mg/kg	1.998	17.60%
Ni 232.003†	-30.6	-0.00999	mg/L	0.007407	-10.60	mg/kg	7.856	74.11%
Pb 217.000†	-10.4	-0.1129	mg/L	0.05223	-119.7	mg/kg	55.39	46.27%
Pb 220.353†	25.6	0.04911	mg/L	0.008940	52.09	mg/kg	9.482	18.20%
Sb 206.836†	-3.7	-0.04641	mg/L	0.020896	-49.22	mg/kg	22.162	45.02%
Sb 217.582†	-0.7	-0.00481	mg/L	0.034291	-5.103	mg/kg	36.3687	712.73%
Se 196.026†	-0.6	-0.01782	mg/L	0.082842	-18.90	mg/kg	87.860	464.86%
Se 203.985†	-72.8	-2.068	mg/L	0.0716	-2193	mg/kg	75.9	3.46%
Sn 235.485†	731.7	-0.01605	mg/L	0.007665	-17.02	mg/kg	8.129	47.75%
Sn 189.927†	-20.2	-0.2131	mg/L	0.05532	-226.0	mg/kg	58.67	25.96%
Sr 460.733†	801.3	0.1411	mg/L	0.01595	149.6	mg/kg	16.92	11.31%
Sr 407.771†	184123.8	0.1246	mg/L	0.00193	132.2	mg/kg	2.05	1.55%
Sr 421.552†	61118.7	0.1261	mg/L	0.00198	133.7	mg/kg	2.10	1.57%
Ti 337.279†	4565.5	0.1108	mg/L	0.00201	117.6	mg/kg	2.14	1.82%
Ti 334.940†	6372.6	0.1078	mg/L	0.00216	114.3	mg/kg	2.29	2.00%
Ti 336.121†	5148.8	0.1218	mg/L	0.00157	129.2	mg/kg	1.67	1.29%
Tl 351.924†	9.6	0.00969	mg/L	0.012208	10.27	mg/kg	12.948	126.03%
Tl 190.801†	19.9	0.4868	mg/L	0.09249	516.3	mg/kg	98.09	19.00%
Tl 276.787†	1846.4	2.140	mg/L	0.0670	2269	mg/kg	71.0	3.13%
V 310.230†	-259.1	-0.00733	mg/L	0.001067	-7.778	mg/kg	1.1317	14.55%
V 292.402†	199.6	0.01220	mg/L	0.000509	12.94	mg/kg	0.539	4.17%
V 311.071†	83.3	0.00282	mg/L	0.000541	2.996	mg/kg	0.5742	19.17%
Zn 206.200†	53.4	0.04594	mg/L	0.001079	48.72	mg/kg	1.144	2.35%
Zn 213.857†	269.3	0.06520	mg/L	0.001557	69.15	mg/kg	1.651	2.39%
Zn 202.548†	80.1	0.04441	mg/L	0.003978	47.10	mg/kg	4.219	8.96%

Sequence No.: 26
Sample ID: 0909014-04

Initial Sample Wt: 0.4691 g
Dilution: 12.5X

Autosampler Location: 305
Date Collected: 10/26/2009 2:32:04 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: 0909014-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165216.4	104.0	%	0.63				0.60%
Ag 328.068†	19.3	0.00146	mg/L	0.000917	1.951	mg/kg	1.2220	62.63%
Ag 338.289†	-24.5	-0.00161	mg/L	0.001460	-2.147	mg/kg	1.9451	90.60%
Al 308.215†	7123.9	4.035	mg/L	0.0472	5376	mg/kg	62.9	1.17%
Al 394.401†	11793.0	4.075	mg/L	0.0242	5429	mg/kg	32.3	0.59%
Al 396.153†	28091.9	3.903	mg/L	0.0267	5200	mg/kg	35.5	0.68%
As 188.979†	-14.9	-0.2977	mg/L	0.05383	-396.7	mg/kg	71.72	18.08%
As 193.696†	12.4	0.1874	mg/L	0.06748	249.7	mg/kg	89.91	36.01%
As 197.197†	-10.8	-0.2386	mg/L	0.08788	-317.9	mg/kg	117.08	36.83%

B 208.889†	4.6	0.01232 mg/L	0.012809	16.42 mg/kg	17.066	103.96%
B 249.677†	17.5	0.00393 mg/L	0.000703	5.236 mg/kg	0.9366	17.89%
B 249.772†	253.0	0.00448 mg/L	0.001448	5.963 mg/kg	1.9291	32.35%
Ba 233.527†	234.7	0.03544 mg/L	0.000324	47.21 mg/kg	0.432	0.91%
Ba 455.403†	13188.6	0.03631 mg/L	0.000156	48.38 mg/kg	0.208	0.43%
Ba 493.408†	14161.5	0.03718 mg/L	0.000213	49.53 mg/kg	0.284	0.57%
Be 234.861†	119.8	0.00005 mg/L	0.000083	0.06366 mg/kg	0.110446	173.49%
Be 313.042†	106.9	0.00020 mg/L	0.000025	0.2665 mg/kg	0.03301	12.39%
Be 313.107†	69.3	0.00023 mg/L	0.000030	0.3108 mg/kg	0.03955	12.72%
Ca 315.887†	504977.2	68.63 mg/L	0.895	91430 mg/kg	1192.8	1.30%
Ca 317.933†	843713.4	65.00 mg/L	0.926	86600 mg/kg	1233.6	1.42%
Cd 214.440†	30.6	0.00377 mg/L	0.014022	5.019 mg/kg	18.6822	372.24%
Cd 226.502†	2.2	-0.00046 mg/L	0.000445	-0.6099 mg/kg	0.59302	97.23%
Cd 228.802†	2.8	-0.00739 mg/L	0.001839	-9.840 mg/kg	2.4508	24.91%
Ce 413.380†	102.6	0.01954 mg/L	0.010357	26.04 mg/kg	13.799	52.99%
Ce 413.764†	40.3	0.01107 mg/L	0.019893	14.74 mg/kg	26.504	179.75%
Ce 418.660†	78.2	0.01880 mg/L	0.015808	25.05 mg/kg	21.061	84.07%
Co 228.616†	4.8	0.00162 mg/L	0.001337	2.162 mg/kg	1.7816	82.42%
Co 230.786†	41.6	0.00200 mg/L	0.002187	2.660 mg/kg	2.9138	109.52%
Co 238.892†	200.1	0.00766 mg/L	0.003842	10.21 mg/kg	5.119	50.16%
Cr 205.560†	1.7	0.00572 mg/L	0.008960	7.626 mg/kg	11.9372	156.53%
Cr 267.716†	56.5	0.00924 mg/L	0.001033	12.32 mg/kg	1.377	11.18%
Cr 283.563†	507.0	0.00939 mg/L	0.000917	12.51 mg/kg	1.221	9.76%
Cu 224.700†	59.0	-0.1329 mg/L	0.04618	-177.1 mg/kg	61.53	34.74%
Cu 324.752†	1340.0	0.03678 mg/L	0.001450	49.00 mg/kg	1.932	3.94%
Cu 327.393†	682.1	0.04376 mg/L	0.001532	58.31 mg/kg	2.041	3.50%
Fe 238.204†	103357.6	11.16 mg/L	0.042	14870 mg/kg	55.3	0.37%
Fe 239.562†	68419.0	11.19 mg/L	0.097	14910 mg/kg	129.6	0.87%
Fe 259.939†	126343.6	11.03 mg/L	0.034	14690 mg/kg	45.2	0.31%
Fe 273.955†	19014.0	11.28 mg/L	0.060	15030 mg/kg	80.3	0.53%
K 766.490†	2103.1	0.4706 mg/L	0.01024	627.0 mg/kg	13.65	2.18%
Li 610.362†	-36.6	-0.07398 mg/L	0.000723	-98.56 mg/kg	0.964	0.98%
Li 670.784†	700.7	0.00654 mg/L	0.001675	8.720 mg/kg	2.2314	25.59%
Mg 279.077†	6786.0	5.994 mg/L	0.0680	7986 mg/kg	90.6	1.13%
Mg 280.271†	1425090.3	5.502 mg/L	0.0699	7331 mg/kg	93.2	1.27%
Mg 285.213†	156335.0	5.535 mg/L	0.0524	7375 mg/kg	69.8	0.95%
Mn 257.610†	8278.6	0.1718 mg/L	0.00037	228.9 mg/kg	0.49	0.22%
Mn 259.372†	11977.5	0.1709 mg/L	0.00056	227.7 mg/kg	0.75	0.33%
Mn 260.568†	4846.3	0.1688 mg/L	0.00203	224.9 mg/kg	2.71	1.20%
Mo 202.031†	5.3	0.01251 mg/L	0.000632	16.67 mg/kg	0.842	5.05%
Mo 203.845†	6.2	0.02710 mg/L	0.014593	36.11 mg/kg	19.443	53.84%
Mo 204.597†	-9.2	-0.02969 mg/L	0.007117	-39.55 mg/kg	9.483	23.98%
Na 588.995†	2053.5	0.1398 mg/L	0.00709	186.3 mg/kg	9.45	5.07%
Na 589.592†	1829.7	0.2322 mg/L	0.01032	309.4 mg/kg	13.74	4.44%
Ni 221.648†	9.9	0.00814 mg/L	0.003980	10.85 mg/kg	5.303	48.87%
Ni 231.604†	30.3	0.01040 mg/L	0.001374	13.85 mg/kg	1.831	13.21%
Ni 232.003†	-11.0	0.00438 mg/L	0.001851	5.829 mg/kg	2.4664	42.31%
Pb 217.000†	0.8	0.00623 mg/L	0.038430	8.300 mg/kg	51.2018	616.87%
Pb 220.353†	28.2	0.06494 mg/L	0.023629	86.52 mg/kg	31.481	36.38%
Sb 206.836†	-3.8	-0.04754 mg/L	0.013296	-63.33 mg/kg	17.715	27.97%
Sb 217.582†	-0.7	-0.00500 mg/L	0.006398	-6.660 mg/kg	8.5246	127.99%
Se 196.026†	-3.1	-0.09901 mg/L	0.154532	-131.9 mg/kg	205.89	156.08%
Se 203.985†	-44.2	-1.322 mg/L	0.0428	-1761 mg/kg	57.1	3.24%
Sn 235.485†	1101.8	-0.05648 mg/L	0.023819	-75.25 mg/kg	31.735	42.17%
Sn 189.927†	-9.6	-0.09722 mg/L	0.014816	-129.5 mg/kg	19.74	15.24%
Sr 460.733†	496.3	0.08748 mg/L	0.027703	116.6 mg/kg	36.91	31.67%
Sr 407.771†	123676.0	0.08392 mg/L	0.001053	111.8 mg/kg	1.40	1.25%
Sr 421.552†	42814.2	0.08832 mg/L	0.000248	117.7 mg/kg	0.33	0.28%
Ti 337.279†	2928.3	0.07112 mg/L	0.000639	94.75 mg/kg	0.852	0.90%
Ti 334.940†	4287.1	0.07034 mg/L	0.000877	93.72 mg/kg	1.168	1.25%
Ti 336.121†	3266.7	0.07699 mg/L	0.000664	102.6 mg/kg	0.88	0.86%
Tl 351.924†	-22.1	-0.03590 mg/L	0.016235	-47.83 mg/kg	21.631	45.23%
Tl 190.801†	9.8	0.2254 mg/L	0.06600	300.4 mg/kg	87.94	29.28%
Tl 276.787†	319.8	0.3482 mg/L	0.04515	464.0 mg/kg	60.16	12.97%
V 310.230†	-29.1	-0.00097 mg/L	0.000804	-1.289 mg/kg	1.0712	83.12%
V 292.402†	142.3	0.00719 mg/L	0.000542	9.584 mg/kg	0.7217	7.53%
V 311.071†	146.8	0.00581 mg/L	0.000170	7.741 mg/kg	0.2263	2.92%
Zn 206.200†	117.2	0.1188 mg/L	0.00344	158.3 mg/kg	4.58	2.89%
Zn 213.857†	466.2	0.1333 mg/L	0.00274	177.6 mg/kg	3.65	2.06%
Zn 202.548†	200.8	0.1207 mg/L	0.00154	160.8 mg/kg	2.06	1.28%

Sequence No.: 27
Sample ID: 0909014-05

Autosampler Location: 306
Date Collected: 10/26/2009 2:33:08 PM
Data Type: Original

Initial Sample Wt: 0.4802 g
Dilution: 12.5X

Sample Prep Vol: 50 mL

Mean Data: 0909014-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163475.8	102.9	%	0.50				0.49%
Ag 328.068†	8.8	0.00156	mg/L	0.000858	2.030	mg/kg	1.1164	54.99%
Ag 338.289†	-13.4	-0.00013	mg/L	0.001569	-0.1734	mg/kg	2.04261	>999.9%
Al 308.215†	7113.5	4.029	mg/L	0.0259	5244	mg/kg	33.7	0.64%
Al 394.401†	11560.9	3.982	mg/L	0.0308	5182	mg/kg	40.1	0.77%
Al 396.153†	27681.7	3.839	mg/L	0.0369	4997	mg/kg	48.0	0.96%
As 188.979†	-18.8	-0.3761	mg/L	0.06707	-489.5	mg/kg	87.30	17.83%
As 193.696†	15.9	0.2448	mg/L	0.06684	318.6	mg/kg	87.00	27.31%
As 197.197†	-12.6	-0.2584	mg/L	0.18967	-336.3	mg/kg	246.86	73.41%
B 208.889†	7.9	0.02358	mg/L	0.006186	30.68	mg/kg	8.051	26.24%
B 249.677†	19.4	0.00350	mg/L	0.002115	4.560	mg/kg	2.7521	60.35%
B 249.772†	394.4	0.00664	mg/L	0.001028	8.644	mg/kg	1.3375	15.47%
Ba 233.527†	284.7	0.04287	mg/L	0.000881	55.80	mg/kg	1.147	2.05%
Ba 455.403†	16080.0	0.04427	mg/L	0.000261	57.62	mg/kg	0.339	0.59%
Ba 493.408†	16944.3	0.04446	mg/L	0.000163	57.87	mg/kg	0.213	0.37%
Be 234.861†	189.1	0.00010	mg/L	0.000461	0.1304	mg/kg	0.59985	460.16%
Be 313.042†	171.2	0.00031	mg/L	0.000039	0.4044	mg/kg	0.05081	12.56%
Be 313.107†	97.8	0.00033	mg/L	0.000042	0.4232	mg/kg	0.05471	12.93%
Ca 315.887†	631110.4	85.77	mg/L	1.927	111600	mg/kg	2508.6	2.25%
Ca 317.933†	1051795.8	81.03	mg/L	1.923	105500	mg/kg	2502.6	2.37%
Cd 214.440†	28.3	0.00197	mg/L	0.005753	2.566	mg/kg	7.4880	291.79%
Cd 226.502†	13.5	0.00197	mg/L	0.001564	2.567	mg/kg	2.0361	79.33%
Cd 228.802†	4.2	-0.00930	mg/L	0.002051	-12.10	mg/kg	2.670	22.07%
Ce 413.380†	131.7	0.02447	mg/L	0.018751	31.85	mg/kg	24.405	76.63%
Ce 413.764†	115.6	0.02765	mg/L	0.007574	35.99	mg/kg	9.857	27.39%
Ce 418.660†	85.4	0.02129	mg/L	0.026714	27.71	mg/kg	34.770	125.48%
Co 228.616†	7.0	0.00218	mg/L	0.000226	2.842	mg/kg	0.2940	10.34%
Co 230.786†	63.1	0.00525	mg/L	0.000380	6.839	mg/kg	0.4947	7.23%
Co 238.892†	269.0	0.00164	mg/L	0.004724	2.138	mg/kg	6.1482	287.55%
Cr 205.560†	9.9	0.02042	mg/L	0.002000	26.57	mg/kg	2.603	9.80%
Cr 267.716†	121.6	0.02009	mg/L	0.001739	26.14	mg/kg	2.264	8.66%
Cr 283.563†	949.4	0.02173	mg/L	0.000748	28.28	mg/kg	0.973	3.44%
Cu 224.700†	59.6	-0.1448	mg/L	0.01345	-188.5	mg/kg	17.51	9.29%
Cu 324.752†	1036.4	0.02818	mg/L	0.000817	36.68	mg/kg	1.063	2.90%
Cu 327.393†	497.6	0.03191	mg/L	0.002069	41.53	mg/kg	2.693	6.48%
Fe 238.204†	162994.0	17.60	mg/L	0.137	22910	mg/kg	177.8	0.78%
Fe 239.562†	108050.8	17.67	mg/L	0.141	23000	mg/kg	183.2	0.80%
Fe 259.939†	189702.0	16.56	mg/L	0.358	21550	mg/kg	465.6	2.16%
Fe 273.955†	29838.0	17.71	mg/L	0.151	23050	mg/kg	196.7	0.85%
K 766.490†	1740.0	0.3893	mg/L	0.01872	506.7	mg/kg	24.37	4.81%
Li 610.362†	867.8	-0.02504	mg/L	0.041803	-32.59	mg/kg	54.409	166.95%
Li 670.784†	709.6	0.00663	mg/L	0.000532	8.626	mg/kg	0.6924	8.03%
Mg 279.077†	7807.2	6.892	mg/L	0.0648	8970	mg/kg	84.4	0.94%
Mg 280.271†	1766963.7	6.822	mg/L	0.1526	8879	mg/kg	198.6	2.24%
Mg 285.213†	195799.7	6.933	mg/L	0.0411	9023	mg/kg	53.4	0.59%
Mn 257.610†	15906.1	0.3302	mg/L	0.00273	429.7	mg/kg	3.55	0.83%
Mn 259.372†	22848.2	0.3301	mg/L	0.00412	429.6	mg/kg	5.36	1.25%
Mn 260.568†	9552.8	0.3330	mg/L	0.00328	433.4	mg/kg	4.27	0.99%
Mo 202.031†	2.8	0.00408	mg/L	0.004473	5.315	mg/kg	5.8222	109.54%
Mo 203.845†	8.5	0.03794	mg/L	0.021914	49.38	mg/kg	28.522	57.77%
Mo 204.597†	-8.0	-0.02088	mg/L	0.011175	-27.18	mg/kg	14.545	53.51%
Na 588.995†	2385.3	0.1624	mg/L	0.03536	211.4	mg/kg	46.03	21.77%
Na 589.592†	1672.6	0.2122	mg/L	0.00997	276.2	mg/kg	12.98	4.70%
Ni 221.648†	24.8	0.02117	mg/L	0.002830	27.55	mg/kg	3.684	13.37%
Ni 231.604†	58.6	0.02147	mg/L	0.003490	27.94	mg/kg	4.542	16.26%
Ni 232.003†	-9.9	0.01074	mg/L	0.002883	13.97	mg/kg	3.752	26.85%
Pb 217.000†	-0.0	-0.00955	mg/L	0.041357	-12.43	mg/kg	53.828	432.94%
Pb 220.353†	36.5	0.08415	mg/L	0.017806	109.5	mg/kg	23.18	21.16%
Sb 206.836†	-2.2	-0.02831	mg/L	0.018270	-36.85	mg/kg	23.779	64.54%
Sb 217.582†	-6.1	-0.04435	mg/L	0.035486	-57.72	mg/kg	46.187	80.01%

Se 196.026†	-2.0	-0.06459	mg/L	0.057814	-84.06	mg/kg	75.247	89.51%
Se 203.985†	-51.1	-1.487	mg/L	0.0911	-1935	mg/kg	118.6	6.13%
Sn 235.485†	1767.5	-0.03086	mg/L	0.027265	-40.17	mg/kg	35.487	88.34%
Sn 189.927†	-11.5	-0.1137	mg/L	0.05782	-148.0	mg/kg	75.25	50.86%
Sr 460.733†	575.4	0.1013	mg/L	0.01173	131.9	mg/kg	15.27	11.58%
Sr 407.771†	174599.8	0.1186	mg/L	0.00276	154.4	mg/kg	3.59	2.33%
Sr 421.552†	59291.7	0.1223	mg/L	0.00118	159.2	mg/kg	1.54	0.97%
Ti 337.279†	4558.6	0.1107	mg/L	0.00103	144.1	mg/kg	1.34	0.93%
Ti 334.940†	6829.6	0.1094	mg/L	0.00123	142.4	mg/kg	1.61	1.13%
Ti 336.121†	5178.6	0.1215	mg/L	0.00112	158.2	mg/kg	1.45	0.92%
Tl 351.924†	-6.9	-0.01844	mg/L	0.023307	-23.99	mg/kg	30.335	126.42%
Tl 190.801†	12.8	0.2995	mg/L	0.08345	389.9	mg/kg	108.61	27.86%
Tl 276.787†	401.7	0.4776	mg/L	0.02428	621.6	mg/kg	31.60	5.08%
V 310.230†	93.2	0.00230	mg/L	0.000440	2.987	mg/kg	0.5722	19.15%
V 292.402†	185.6	0.00903	mg/L	0.001587	11.76	mg/kg	2.066	17.57%
V 311.071†	222.5	0.00856	mg/L	0.000565	11.14	mg/kg	0.735	6.60%
Zn 206.200†	144.7	0.1466	mg/L	0.00324	190.8	mg/kg	4.22	2.21%
Zn 213.857†	587.2	0.1676	mg/L	0.00167	218.2	mg/kg	2.17	1.00%
Zn 202.548†	252.6	0.1519	mg/L	0.00112	197.7	mg/kg	1.46	0.74%

Sequence No.: 28
Sample ID: test 1

Autosampler Location: 307
Date Collected: 10/26/2009 2:34:13 PM
Data Type: Original

Initial Sample Wt: 0.4526 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: test 1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	164274.7	103.4	%	2.01				1.94%
Ag 328.068†	45.2	0.00209	mg/L	0.000915	5.777	mg/kg	2.5264	43.73%
Ag 338.289†	7.4	0.00164	mg/L	0.000961	4.537	mg/kg	2.6554	58.53%
Al 308.215†	4808.4	2.724	mg/L	0.0580	7523	mg/kg	160.3	2.13%
Al 394.401†	8005.8	2.749	mg/L	0.0551	7593	mg/kg	152.3	2.01%
Al 396.153†	19199.8	2.654	mg/L	0.0281	7329	mg/kg	77.5	1.06%
As 188.979†	-19.1	-0.3853	mg/L	0.04760	-1064	mg/kg	131.5	12.35%
As 193.696†	13.5	0.1824	mg/L	0.01244	503.7	mg/kg	34.35	6.82%
As 197.197†	-13.6	-0.3012	mg/L	0.02234	-832.0	mg/kg	61.69	7.41%
B 208.889†	3.5	0.00826	mg/L	0.009070	22.82	mg/kg	25.048	109.76%
B 249.677†	15.9	0.00425	mg/L	0.002695	11.74	mg/kg	7.442	63.42%
B 249.772†	149.8	0.00388	mg/L	0.001243	10.71	mg/kg	3.432	32.04%
Ba 233.527†	224.6	0.03412	mg/L	0.001249	94.23	mg/kg	3.450	3.66%
Ba 455.403†	12890.1	0.03549	mg/L	0.000433	98.01	mg/kg	1.196	1.22%
Ba 493.408†	13617.7	0.03578	mg/L	0.000663	98.81	mg/kg	1.832	1.85%
Be 234.861†	79.6	0.00022	mg/L	0.000058	0.6107	mg/kg	0.15947	26.11%
Be 313.042†	117.8	0.00022	mg/L	0.000036	0.6154	mg/kg	0.10013	16.27%
Be 313.107†	85.1	0.00029	mg/L	0.000028	0.7920	mg/kg	0.07692	9.71%
Ca 315.887†	631589.2	85.83	mg/L	4.146	237100	mg/kg	11449.6	4.83%
Ca 317.933†	1056266.9	81.38	mg/L	3.805	224800	mg/kg	10509.3	4.68%
Cd 214.440†	39.5	0.00599	mg/L	0.015178	16.54	mg/kg	41.919	253.42%
Cd 226.502†	2.0	-0.00004	mg/L	0.001310	-0.1039	mg/kg	3.61923	>999.9%
Cd 228.802†	-2.0	-0.00941	mg/L	0.000647	-25.98	mg/kg	1.788	6.88%
Ce 413.380†	113.9	0.02296	mg/L	0.009462	63.40	mg/kg	26.134	41.22%
Ce 413.764†	48.7	0.01146	mg/L	0.021660	31.65	mg/kg	59.822	189.02%
Ce 418.660†	-6.8	0.00443	mg/L	0.013783	12.23	mg/kg	38.066	311.27%
Co 228.616†	-0.3	-0.00047	mg/L	0.000397	-1.307	mg/kg	1.0958	83.84%
Co 230.786†	40.5	0.00313	mg/L	0.006273	8.633	mg/kg	17.3255	200.68%
Co 238.892†	124.5	0.00602	mg/L	0.000489	16.63	mg/kg	1.350	8.12%
Cr 205.560†	1.3	0.00574	mg/L	0.003510	15.85	mg/kg	9.695	61.19%
Cr 267.716†	91.4	0.01423	mg/L	0.001926	39.31	mg/kg	5.319	13.53%
Cr 283.563†	429.1	0.01274	mg/L	0.000973	35.18	mg/kg	2.687	7.64%
Cu 224.700†	23.3	-0.1363	mg/L	0.00847	-376.5	mg/kg	23.38	6.21%
Cu 324.752†	497.2	0.01361	mg/L	0.000808	37.58	mg/kg	2.231	5.94%
Cu 327.393†	235.9	0.01510	mg/L	0.002030	41.69	mg/kg	5.605	13.44%
Fe 238.204†	57064.7	6.163	mg/L	0.0912	17020	mg/kg	251.9	1.48%
Fe 239.562†	37741.8	6.174	mg/L	0.0990	17050	mg/kg	273.4	1.60%
Fe 259.939†	69905.6	6.101	mg/L	0.0987	16850	mg/kg	272.5	1.62%
Fe 273.955†	10565.4	6.270	mg/L	0.0881	17320	mg/kg	243.2	1.40%
K 766.490†	1673.6	0.3745	mg/L	0.03170	1034	mg/kg	87.6	8.47%

Li 610.362†	619.2	-0.03224	mg/L	0.077001	-89.04	mg/kg	212.664	238.83%
Li 670.784†	603.0	0.00563	mg/L	0.000436	15.55	mg/kg	1.204	7.74%
Mg 279.077†	8423.4	7.447	mg/L	0.1299	20570	mg/kg	358.6	1.74%
Mg 280.271†	1869710.6	7.219	mg/L	0.3410	19940	mg/kg	941.7	4.72%
Mg 285.213†	191828.8	6.792	mg/L	0.3047	18760	mg/kg	841.5	4.49%
Mn 257.610†	6640.0	0.1377	mg/L	0.00277	380.3	mg/kg	7.65	2.01%
Mn 259.372†	8846.3	0.1285	mg/L	0.00160	354.8	mg/kg	4.42	1.25%
Mn 260.568†	3648.9	0.1271	mg/L	0.00235	351.0	mg/kg	6.49	1.85%
Mo 202.031†	6.2	0.01304	mg/L	0.011745	36.03	mg/kg	32.438	90.04%
Mo 203.845†	12.9	0.06040	mg/L	0.015688	166.8	mg/kg	43.33	25.97%
Mo 204.597†	-9.9	-0.02957	mg/L	0.010006	-81.67	mg/kg	27.635	33.83%
Na 588.995†	8346.0	0.5682	mg/L	0.09649	1569	mg/kg	266.5	16.98%
Na 589.592†	5088.6	0.6456	mg/L	0.01032	1783	mg/kg	28.5	1.60%
Ni 221.648†	12.3	0.01065	mg/L	0.000684	29.43	mg/kg	1.888	6.42%
Ni 231.604†	26.7	0.00845	mg/L	0.002557	23.32	mg/kg	7.061	30.27%
Ni 232.003†	-8.6	0.00341	mg/L	0.006877	9.417	mg/kg	18.9941	201.71%
Pb 217.000†	-5.2	-0.05578	mg/L	0.070795	-154.1	mg/kg	195.52	126.92%
Pb 220.353†	26.1	0.05659	mg/L	0.019727	156.3	mg/kg	54.48	34.86%
Sb 206.836†	-3.2	-0.03956	mg/L	0.037038	-109.2	mg/kg	102.29	93.64%
Sb 217.582†	2.1	0.01525	mg/L	0.006450	42.10	mg/kg	17.813	42.31%
Se 196.026†	-5.8	-0.1832	mg/L	0.16504	-506.1	mg/kg	455.81	90.06%
Se 203.985†	-50.8	-1.466	mg/L	0.0474	-4047	mg/kg	130.9	3.24%
Sn 235.485†	617.1	-0.02382	mg/L	0.014242	-65.78	mg/kg	39.334	59.80%
Sn 189.927†	-13.9	-0.1500	mg/L	0.05721	-414.2	mg/kg	158.01	38.15%
Sr 460.733†	583.2	0.1027	mg/L	0.00808	283.6	mg/kg	22.31	7.87%
Sr 407.771†	120555.6	0.08159	mg/L	0.003883	225.3	mg/kg	10.72	4.76%
Sr 421.552†	41445.9	0.08549	mg/L	0.001074	236.1	mg/kg	2.97	1.26%
Ti 337.279†	3654.2	0.08872	mg/L	0.002426	245.0	mg/kg	6.70	2.73%
Ti 334.940†	5297.4	0.08704	mg/L	0.001984	240.4	mg/kg	5.48	2.28%
Ti 336.121†	4042.0	0.09529	mg/L	0.001767	263.2	mg/kg	4.88	1.85%
Tl 351.924†	-13.6	-0.02291	mg/L	0.019259	-63.28	mg/kg	53.191	84.06%
Tl 190.801†	10.3	0.2031	mg/L	0.09296	560.9	mg/kg	256.73	45.77%
Tl 276.787†	426.8	0.5101	mg/L	0.01258	1409	mg/kg	34.7	2.47%
V 310.230†	-76.0	-0.00224	mg/L	0.002401	-6.200	mg/kg	6.6300	106.94%
V 292.402†	108.2	0.00573	mg/L	0.000981	15.83	mg/kg	2.709	17.11%
V 311.071†	106.6	0.00401	mg/L	0.000818	11.08	mg/kg	2.260	20.41%
Zn 206.200†	72.2	0.06958	mg/L	0.003037	192.2	mg/kg	8.39	4.36%
Zn 213.857†	320.6	0.08682	mg/L	0.001757	239.8	mg/kg	4.85	2.02%
Zn 202.548†	118.1	0.06939	mg/L	0.001984	191.6	mg/kg	5.48	2.86%

Sequence No.: 29
Sample ID: test 2

Autosampler Location: 308
Date Collected: 10/26/2009 2:35:18 PM
Data Type: Original

Initial Sample Wt: 0.4618 g
Dilution: 25X

Sample Prep Vol: 50 mL

Mean Data: test 2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161303.5	101.5	%	1.62				1.60%
Ag 328.068†	28.7	0.00152	mg/L	0.000723	4.110	mg/kg	1.9557	47.59%
Ag 338.289†	-19.8	-0.00112	mg/L	0.002171	-3.043	mg/kg	5.8769	193.10%
Al 308.215†	4438.9	2.514	mg/L	0.0340	6806	mg/kg	92.1	1.35%
Al 394.401†	7394.2	2.534	mg/L	0.0228	6860	mg/kg	61.7	0.90%
Al 396.153†	17519.2	2.420	mg/L	0.0266	6551	mg/kg	72.0	1.10%
As 188.979†	-19.5	-0.4139	mg/L	0.01536	-1120	mg/kg	41.6	3.71%
As 193.696†	11.6	0.1436	mg/L	0.03074	388.8	mg/kg	83.22	21.40%
As 197.197†	-14.7	-0.3673	mg/L	0.06946	-994.3	mg/kg	188.02	18.91%
B 208.889†	8.1	0.02736	mg/L	0.022821	74.07	mg/kg	61.772	83.40%
B 249.677†	9.5	0.00217	mg/L	0.000489	5.885	mg/kg	1.3242	22.50%
B 249.772†	135.9	0.00290	mg/L	0.000939	7.842	mg/kg	2.5417	32.41%
Ba 233.527†	306.5	0.04669	mg/L	0.000347	126.4	mg/kg	0.94	0.74%
Ba 455.403†	16996.0	0.04679	mg/L	0.000470	126.7	mg/kg	1.27	1.00%
Ba 493.408†	17896.5	0.04703	mg/L	0.000466	127.3	mg/kg	1.26	0.99%
Be 234.861†	69.9	0.00013	mg/L	0.000080	0.3574	mg/kg	0.21556	60.32%
Be 313.042†	120.0	0.00022	mg/L	0.000038	0.6019	mg/kg	0.10328	17.16%
Be 313.107†	62.2	0.00020	mg/L	0.000059	0.5542	mg/kg	0.16005	28.88%
Ca 315.887†	598320.5	81.31	mg/L	2.744	220100	mg/kg	7427.7	3.37%
Ca 317.933†	1000823.3	77.11	mg/L	2.743	208700	mg/kg	7423.7	3.56%

Cd 214.440†	40.2	0.00642	mg/L	0.011570	17.37	mg/kg	31.317	180.29%
Cd 226.502†	3.8	0.00047	mg/L	0.001805	1.273	mg/kg	4.8863	383.97%
Cd 228.802†	-1.5	-0.00799	mg/L	0.000546	-21.62	mg/kg	1.479	6.84%
Ce 413.380†	89.0	0.01773	mg/L	0.011187	47.98	mg/kg	30.281	63.11%
Ce 413.764†	96.1	0.02065	mg/L	0.020430	55.90	mg/kg	55.299	98.92%
Ce 418.660†	15.7	0.00825	mg/L	0.010920	22.32	mg/kg	29.557	132.40%
Co 228.616†	3.2	0.00110	mg/L	0.000908	2.968	mg/kg	2.4585	82.82%
Co 230.786†	48.6	0.00828	mg/L	0.004516	22.42	mg/kg	12.224	54.52%
Co 238.892†	112.7	0.00456	mg/L	0.000664	12.34	mg/kg	1.797	14.56%
Cr 205.560†	0.0	0.00343	mg/L	0.004462	9.292	mg/kg	12.0787	129.99%
Cr 267.716†	92.6	0.01447	mg/L	0.001345	39.16	mg/kg	3.641	9.30%
Cr 283.563†	401.8	0.01187	mg/L	0.000442	32.13	mg/kg	1.197	3.73%
Cu 224.700†	26.9	-0.1209	mg/L	0.05281	-327.2	mg/kg	142.95	43.70%
Cu 324.752†	398.9	0.01090	mg/L	0.000629	29.49	mg/kg	1.702	5.77%
Cu 327.393†	197.2	0.01262	mg/L	0.000333	34.15	mg/kg	0.902	2.64%
Fe 238.204†	50184.8	5.420	mg/L	0.0706	14670	mg/kg	191.1	1.30%
Fe 239.562†	33082.6	5.412	mg/L	0.0497	14650	mg/kg	134.5	0.92%
Fe 259.939†	61492.6	5.367	mg/L	0.0671	14530	mg/kg	181.7	1.25%
Fe 273.955†	9933.0	5.895	mg/L	0.0805	15960	mg/kg	217.9	1.37%
K 766.490†	1517.9	0.3397	mg/L	0.02023	919.4	mg/kg	54.75	5.96%
Li 610.362†	1640.8	0.05248	mg/L	0.063079	142.1	mg/kg	170.74	120.19%
Li 670.784†	556.8	0.00520	mg/L	0.001947	14.08	mg/kg	5.269	37.43%
Mg 279.077†	7793.3	6.890	mg/L	0.0678	18650	mg/kg	183.5	0.98%
Mg 280.271†	1755980.3	6.780	mg/L	0.2253	18350	mg/kg	609.9	3.32%
Mg 285.213†	195222.8	6.912	mg/L	0.0740	18710	mg/kg	200.3	1.07%
Mn 257.610†	6201.3	0.1286	mg/L	0.00186	348.1	mg/kg	5.03	1.45%
Mn 259.372†	8207.2	0.1191	mg/L	0.00134	322.4	mg/kg	3.64	1.13%
Mn 260.568†	3402.4	0.1185	mg/L	0.00187	320.8	mg/kg	5.06	1.58%
Mo 202.031†	4.3	0.00765	mg/L	0.001786	20.70	mg/kg	4.833	23.35%
Mo 203.845†	10.4	0.04815	mg/L	0.007460	130.3	mg/kg	20.19	15.49%
Mo 204.597†	-9.2	-0.02707	mg/L	0.007827	-73.26	mg/kg	21.185	28.92%
Na 588.995†	8913.8	0.6069	mg/L	0.07037	1643	mg/kg	190.5	11.59%
Na 589.592†	4871.7	0.6180	mg/L	0.02368	1673	mg/kg	64.1	3.83%
Ni 221.648†	10.3	0.00885	mg/L	0.004894	23.94	mg/kg	13.247	55.33%
Ni 231.604†	32.6	0.01099	mg/L	0.002338	29.74	mg/kg	6.329	21.28%
Ni 232.003†	-7.9	0.00334	mg/L	0.003010	9.039	mg/kg	8.1474	90.13%
Pb 217.000†	-3.0	-0.02728	mg/L	0.021350	-73.85	mg/kg	57.790	78.25%
Pb 220.353†	32.0	0.07271	mg/L	0.007507	196.8	mg/kg	20.32	10.33%
Sb 206.836†	-3.8	-0.04771	mg/L	0.029657	-129.1	mg/kg	80.28	62.16%
Sb 217.582†	2.7	0.01966	mg/L	0.023307	53.21	mg/kg	63.086	118.57%
Se 196.026†	1.4	0.04346	mg/L	0.030949	117.6	mg/kg	83.77	71.22%
Se 203.985†	-49.2	-1.431	mg/L	0.0252	-3873	mg/kg	68.1	1.76%
Sn 235.485†	539.9	-0.08250	mg/L	0.013903	-223.3	mg/kg	37.63	16.85%
Sn 189.927†	-11.2	-0.1124	mg/L	0.04809	-304.3	mg/kg	130.16	42.77%
Sr 460.733†	428.3	0.07540	mg/L	0.027864	204.1	mg/kg	75.42	36.95%
Sr 407.771†	112479.1	0.07611	mg/L	0.002514	206.0	mg/kg	6.81	3.30%
Sr 421.552†	38402.8	0.07922	mg/L	0.001174	214.4	mg/kg	3.18	1.48%
Ti 337.279†	3234.6	0.07853	mg/L	0.001456	212.6	mg/kg	3.94	1.85%
Ti 334.940†	4644.3	0.07698	mg/L	0.001477	208.4	mg/kg	4.00	1.92%
Ti 336.121†	3629.6	0.08567	mg/L	0.001047	231.9	mg/kg	2.83	1.22%
Tl 351.924†	-21.3	-0.03512	mg/L	0.031690	-95.07	mg/kg	85.779	90.23%
Tl 190.801†	16.2	0.4427	mg/L	0.06654	1198	mg/kg	180.1	15.03%
Tl 276.787†	393.2	0.4682	mg/L	0.01424	1267	mg/kg	38.5	3.04%
V 310.230†	-21.1	-0.00071	mg/L	0.002608	-1.934	mg/kg	7.0593	364.99%
V 292.402†	95.6	0.00496	mg/L	0.001884	13.42	mg/kg	5.100	37.99%
V 311.071†	103.3	0.00398	mg/L	0.000473	10.78	mg/kg	1.281	11.88%
Zn 206.200†	92.7	0.09169	mg/L	0.001893	248.2	mg/kg	5.13	2.07%
Zn 213.857†	390.0	0.1087	mg/L	0.00086	294.2	mg/kg	2.32	0.79%
Zn 202.548†	157.3	0.09366	mg/L	0.002839	253.5	mg/kg	7.68	3.03%

==========

Sequence No.: 30
Sample ID: test 3

Initial Sample Wt: 0.4755 g
Dilution: 25X

Autosampler Location: 309
Date Collected: 10/26/2009 2:36:23 PM
Data Type: Original

Sample Prep Vol: 50 mL

Mean Data: test 3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	163523.9	102.9	%	1.09				1.06%
Ag 328.068†	198.4	0.00750	mg/L	0.000482	19.71	mg/kg	1.266	6.42%
Ag 338.289†	84.1	0.00668	mg/L	0.000647	17.57	mg/kg	1.701	9.68%
Al 308.215†	4930.7	2.792	mg/L	0.0287	7340	mg/kg	75.5	1.03%
Al 394.401†	8145.1	2.801	mg/L	0.0414	7363	mg/kg	108.8	1.48%
Al 396.153†	19490.5	2.692	mg/L	0.0642	7077	mg/kg	168.9	2.39%
As 188.979†	-17.6	-0.3256	mg/L	0.07798	-855.8	mg/kg	205.00	23.95%
As 193.696†	17.0	0.2576	mg/L	0.03918	677.1	mg/kg	102.99	15.21%
As 197.197†	-12.6	-0.2524	mg/L	0.05295	-663.4	mg/kg	139.20	20.98%
B 208.889†	17.7	0.06541	mg/L	0.004039	172.0	mg/kg	10.62	6.18%
B 249.677†	134.2	0.04374	mg/L	0.002371	115.0	mg/kg	6.23	5.42%
B 249.772†	409.9	0.04582	mg/L	0.000657	120.5	mg/kg	1.73	1.43%
Ba 233.527†	1609.1	0.2467	mg/L	0.00286	648.5	mg/kg	7.51	1.16%
Ba 455.403†	87197.3	0.2401	mg/L	0.00651	631.1	mg/kg	17.11	2.71%
Ba 493.408†	90744.3	0.2386	mg/L	0.00678	627.2	mg/kg	17.83	2.84%
Be 234.861†	198.7	0.00218	mg/L	0.000031	5.718	mg/kg	0.0802	1.40%
Be 313.042†	1341.9	0.00251	mg/L	0.000056	6.600	mg/kg	0.1464	2.22%
Be 313.107†	686.4	0.00247	mg/L	0.000041	6.492	mg/kg	0.1083	1.67%
Ca 315.887†	652799.7	88.72	mg/L	2.474	233200	mg/kg	6503.9	2.79%
Ca 317.933†	1089820.0	83.96	mg/L	2.534	220700	mg/kg	6662.7	3.02%
Cd 214.440†	157.9	0.03598	mg/L	0.003592	94.59	mg/kg	9.442	9.98%
Cd 226.502†	146.1	0.03854	mg/L	0.000910	101.3	mg/kg	2.39	2.36%
Cd 228.802†	130.7	0.02403	mg/L	0.001879	63.17	mg/kg	4.938	7.82%
Ce 413.380†	14.3	0.00197	mg/L	0.018881	5.186	mg/kg	49.6340	957.06%
Ce 413.764†	-6.5	0.00043	mg/L	0.016642	1.143	mg/kg	43.7495	>999.9%
Ce 418.660†	-42.1	-0.00171	mg/L	0.008137	-4.506	mg/kg	21.3919	474.72%
Co 228.616†	46.5	0.01986	mg/L	0.001357	52.22	mg/kg	3.567	6.83%
Co 230.786†	85.7	0.02535	mg/L	0.001641	66.65	mg/kg	4.314	6.47%
Co 238.892†	178.8	0.02255	mg/L	0.001775	59.28	mg/kg	4.666	7.87%
Cr 205.560†	120.1	0.2089	mg/L	0.00618	549.2	mg/kg	16.24	2.96%
Cr 267.716†	1391.4	0.2224	mg/L	0.00035	584.8	mg/kg	0.92	0.16%
Cr 283.563†	4953.4	0.2293	mg/L	0.00164	602.7	mg/kg	4.30	0.71%
Cu 224.700†	221.1	-0.4821	mg/L	0.05834	-1267	mg/kg	153.4	12.10%
Cu 324.752†	7317.4	0.2025	mg/L	0.00206	532.2	mg/kg	5.41	1.02%
Cu 327.393†	3261.0	0.2094	mg/L	0.00340	550.6	mg/kg	8.94	1.62%
Fe 238.204†	45268.6	4.889	mg/L	0.0672	12850	mg/kg	176.6	1.37%
Fe 239.562†	29956.1	4.901	mg/L	0.0602	12880	mg/kg	158.3	1.23%
Fe 259.939†	55548.6	4.848	mg/L	0.0635	12740	mg/kg	166.9	1.31%
Fe 273.955†	9057.1	5.374	mg/L	0.0374	14130	mg/kg	98.3	0.70%
K 766.490†	1654.2	0.3701	mg/L	0.03395	973.0	mg/kg	89.24	9.17%
Li 610.362†	1046.6	-0.00377	mg/L	0.037436	-9.916	mg/kg	98.4123	992.50%
Li 670.784†	2792.4	0.02608	mg/L	0.002067	68.56	mg/kg	5.433	7.92%
Mg 279.077†	8847.0	7.822	mg/L	0.1197	20560	mg/kg	314.7	1.53%
Mg 280.271†	1985038.0	7.664	mg/L	0.2035	20150	mg/kg	534.9	2.66%
Mg 285.213†	203008.3	7.188	mg/L	0.2192	18900	mg/kg	576.3	3.05%
Mn 257.610†	26288.9	0.5458	mg/L	0.00755	1435	mg/kg	19.8	1.38%
Mn 259.372†	36133.4	0.5462	mg/L	0.00712	1436	mg/kg	18.7	1.30%
Mn 260.568†	14488.1	0.5059	mg/L	0.00760	1330	mg/kg	20.0	1.50%
Mo 202.031†	19.4	0.05393	mg/L	0.009296	141.8	mg/kg	24.44	17.24%
Mo 203.845†	19.6	0.09493	mg/L	0.023795	249.6	mg/kg	62.55	25.07%
Mo 204.597†	-2.5	0.00545	mg/L	0.013352	14.33	mg/kg	35.101	244.91%
Na 588.995†	8830.2	0.6012	mg/L	0.05546	1580	mg/kg	145.8	9.22%
Na 589.592†	5440.8	0.6901	mg/L	0.00901	1814	mg/kg	23.7	1.31%
Ni 221.648†	86.3	0.07719	mg/L	0.003372	202.9	mg/kg	8.87	4.37%
Ni 231.604†	217.9	0.08645	mg/L	0.002699	227.3	mg/kg	7.09	3.12%
Ni 232.003†	99.5	0.07935	mg/L	0.001723	208.6	mg/kg	4.53	2.17%
Pb 217.000†	12.5	0.1768	mg/L	0.03291	464.8	mg/kg	86.50	18.61%
Pb 220.353†	104.5	0.2610	mg/L	0.00464	686.2	mg/kg	12.19	1.78%
Sb 206.836†	-2.3	-0.03186	mg/L	0.016907	-83.76	mg/kg	44.446	53.06%
Sb 217.582†	-2.3	-0.01664	mg/L	0.010843	-43.75	mg/kg	28.503	65.14%
Se 196.026†	1.6	0.04901	mg/L	0.069200	128.8	mg/kg	181.91	141.21%
Se 203.985†	-48.4	-1.433	mg/L	0.0418	-3766	mg/kg	110.0	2.92%
Sn 235.485†	498.2	-0.06534	mg/L	0.007998	-171.8	mg/kg	21.03	12.24%
Sn 189.927†	-10.0	-0.08936	mg/L	0.009115	-234.9	mg/kg	23.96	10.20%
Sr 460.733†	786.1	0.1387	mg/L	0.01130	364.7	mg/kg	29.71	8.15%
Sr 407.771†	192143.5	0.1306	mg/L	0.00356	343.3	mg/kg	9.36	2.73%
Sr 421.552†	65703.7	0.1355	mg/L	0.00179	356.3	mg/kg	4.70	1.32%
Ti 337.279†	4371.9	0.1061	mg/L	0.00144	279.0	mg/kg	3.80	1.36%
Ti 334.940†	6487.8	0.1047	mg/L	0.00102	275.2	mg/kg	2.67	0.97%
Ti 336.121†	4950.4	0.1163	mg/L	0.00087	305.7	mg/kg	2.30	0.75%
Tl 351.924†	-28.4	-0.04283	mg/L	0.016739	-112.6	mg/kg	44.00	39.08%

Tl 190.801†	12.8	0.2935 mg/L	0.08624	771.5 mg/kg	226.71	29.38%
Tl 276.787†	450.3	0.5360 mg/L	0.02159	1409 mg/kg	56.7	4.03%
V 310.230†	223.2	0.00564 mg/L	0.000748	14.82 mg/kg	1.966	13.27%
V 292.402†	394.6	0.02691 mg/L	0.000824	70.73 mg/kg	2.167	3.06%
V 311.071†	582.8	0.02504 mg/L	0.000540	65.83 mg/kg	1.420	2.16%
Zn 206.200†	431.5	0.4507 mg/L	0.00275	1185 mg/kg	7.2	0.61%
Zn 213.857†	1651.5	0.4945 mg/L	0.00487	1300 mg/kg	12.8	0.99%
Zn 202.548†	792.0	0.4817 mg/L	0.00075	1266 mg/kg	2.0	0.16%

Sequence No.: 31
Sample ID: blank

Autosampler Location: 201
Date Collected: 10/26/2009 2:37:29 PM
Data Type: Original

Initial Sample Wt: 0 g
Dilution: 1X

Sample Prep Vol: 50 mL

Mean Data: blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158674.7	99.85	%	0.238				0.24%
Ag 328.068†	11.2	0.00030	mg/L	0.001066	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-10.5	-0.00101	mg/L	0.001801	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	5.4	0.00332	mg/L	0.006793	0.00000	mg/kg	0.000000	0.00%
Al 394.401†	22.9	0.01612	mg/L	0.003788	0.000	mg/kg	0.0000	0.00%
Al 396.153†	111.4	0.01576	mg/L	0.002561	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.3	-0.04326	mg/L	0.037326	0.000	mg/kg	0.0000	0.00%
As 193.696†	2.7	0.06206	mg/L	0.015989	0.000	mg/kg	0.0000	0.00%
As 197.197†	-1.2	-0.05211	mg/L	0.029800	0.000	mg/kg	0.0000	0.00%
B 208.889†	-2.3	-0.00932	mg/L	0.019526	0.00000	mg/kg	0.000000	0.00%
B 249.677†	1.8	0.00060	mg/L	0.000144	0.000	mg/kg	0.0000	0.00%
B 249.772†	-14.2	-0.00218	mg/L	0.000265	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	2.7	0.00040	mg/L	0.000240	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	21.2	0.00006	mg/L	0.000081	0.00000	mg/kg	0.000000	0.00%
Ba 493.408†	-24.1	-0.00006	mg/L	0.000161	0.00000	mg/kg	0.000000	0.00%
Be 234.861†	-5.8	-0.00009	mg/L	0.000032	0.000	mg/kg	0.0000	0.00%
Be 313.042†	-33.9	-0.00005	mg/L	0.000029	0.000	mg/kg	0.0000	0.00%
Be 313.107†	-15.2	-0.00005	mg/L	0.000045	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	153.3	0.02084	mg/L	0.004259	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	310.1	0.02389	mg/L	0.006254	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-13.3	-0.00337	mg/L	0.008369	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	0.2	0.00006	mg/L	0.000928	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	-1.5	-0.00218	mg/L	0.001059	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-2.7	-0.00057	mg/L	0.011407	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	-103.4	-0.02032	mg/L	0.011118	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	23.2	0.00423	mg/L	0.014857	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	0.3	0.00013	mg/L	0.002117	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	10.0	0.00515	mg/L	0.001048	0.000	mg/kg	0.0000	0.00%
Co 238.892†	-0.4	-0.00014	mg/L	0.001884	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	-0.5	-0.00078	mg/L	0.004282	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	-7.2	-0.00116	mg/L	0.000566	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	-6.7	-0.00031	mg/L	0.000507	0.00000	mg/kg	0.000000	0.00%
Cu 224.700†	5.1	-0.00959	mg/L	0.030234	0.00000	mg/kg	0.000000	0.00%
Cu 324.752†	-21.9	-0.00061	mg/L	0.000904	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	-3.6	-0.00023	mg/L	0.001063	0.00000	mg/kg	0.000000	0.00%
Fe 238.204†	64.0	0.00691	mg/L	0.000564	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	36.2	0.00592	mg/L	0.001189	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	71.3	0.00622	mg/L	0.000582	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	14.1	0.00838	mg/L	0.003474	0.000	mg/kg	0.0000	0.00%
K 766.490†	-14.8	-0.00331	mg/L	0.009058	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1648.0	0.1296	mg/L	0.02696	0.000	mg/kg	0.0000	0.00%
Li 670.784†	59.3	0.00055	mg/L	0.001243	0.00000	mg/kg	0.000000	0.00%
Mg 279.077†	13.9	0.01230	mg/L	0.008716	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	1052.9	0.00407	mg/L	0.000430	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	130.5	0.00462	mg/L	0.000306	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	2.5	0.00005	mg/L	0.000130	0.00000	mg/kg	0.000000	0.00%
Mn 259.372†	8.6	0.00015	mg/L	0.000254	0.00000	mg/kg	0.000000	0.00%
Mn 260.568†	-1.3	-0.00005	mg/L	0.000475	0.00000	mg/kg	0.000000	0.00%
Mo 202.031†	1.5	0.00461	mg/L	0.009701	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	2.7	0.01420	mg/L	0.011275	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-1.3	-0.00593	mg/L	0.006013	0.000	mg/kg	0.0000	0.00%

Na 588.995†	658.3	0.04482	mg/L	0.027731	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-86.7	-0.01098	mg/L	0.013417	0.00000	mg/kg	0.000000	0.00%
Ni 221.648†	-5.2	-0.00464	mg/L	0.000952	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	0.9	0.00039	mg/L	0.003983	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	4.1	0.00328	mg/L	0.001875	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	-2.2	-0.02903	mg/L	0.017274	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	1.5	0.00404	mg/L	0.011252	0.00000	mg/kg	0.000000	0.00%
Sb 206.836†	-1.3	-0.01642	mg/L	0.004626	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	1.5	0.01117	mg/L	0.016595	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-3.6	-0.1128	mg/L	0.08984	0.000	mg/kg	0.0000	0.00%
Se 203.985†	-1.1	-0.04607	mg/L	0.027884	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	0.3	-0.00096	mg/L	0.001294	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	-0.5	-0.00781	mg/L	0.019909	0.00000	mg/kg	0.000000	0.00%
Sr 460.733†	-24.6	-0.00422	mg/L	0.019200	0.00000	mg/kg	0.000000	0.00%
Sr 407.771†	75.3	0.00006	mg/L	0.000044	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	16.5	0.00003	mg/L	0.000149	0.00000	mg/kg	0.000000	0.00%
Ti 337.279†	-11.8	-0.00029	mg/L	0.000935	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	-3.5	-0.00005	mg/L	0.000019	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	15.3	0.00035	mg/L	0.000160	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	7.2	0.01348	mg/L	0.019659	0.00000	mg/kg	0.000000	0.00%
Tl 190.801†	1.3	0.04885	mg/L	0.073131	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	25.3	0.05976	mg/L	0.009582	0.000	mg/kg	0.0000	0.00%
V 310.230†	-115.9	-0.00315	mg/L	0.001178	0.000	mg/kg	0.0000	0.00%
V 292.402†	-16.1	-0.00124	mg/L	0.000401	0.000	mg/kg	0.0000	0.00%
V 311.071†	-15.6	-0.00073	mg/L	0.000411	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	2.1	0.00221	mg/L	0.000921	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	4.9	0.00151	mg/L	0.000630	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	-0.6	-0.00035	mg/L	0.000708	0.00000	mg/kg	0.000000	0.00%

Sequence No.: 32
Sample ID: LCB

Autosampler Location: 6
Date Collected: 10/26/2009 2:38:31 PM
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155942.1	98.13	%	2.004				2.04%
Ag 328.068†	21.5	0.00077	mg/L	0.000287				37.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	5.1	0.00050	mg/L	0.001679				338.81%
Al 308.215†	3.4	0.00196	mg/L	0.004323				220.83%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-11.6	-0.00272	mg/L	0.005690				209.14%
Al 396.153†	2.3	0.00030	mg/L	0.002601				856.37%
As 188.979†	-1.1	-0.03797	mg/L	0.073767				194.28%
As 193.696†	2.4	0.05596	mg/L	0.064711				115.64%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-0.7	-0.03132	mg/L	0.102446				327.11%
B 208.889†	2.4	0.00975	mg/L	0.023054				236.36%
B 249.677†	1.4	0.00048	mg/L	0.003601				747.83%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	1.9	0.00027	mg/L	0.001318				482.69%
Ba 233.527†	-4.5	-0.00068	mg/L	0.000932				136.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	-97.5	-0.00027	mg/L	0.000213				79.51%
Ba 493.408†	-112.3	-0.00030	mg/L	0.000209				70.74%
Be 234.861†	-4.5	-0.00007	mg/L	0.000136				198.62%
Be 313.042†	-5.1	-0.00001	mg/L	0.000039				502.11%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-5.1	-0.00002	mg/L	0.000039				220.67%
Ca 315.887†	-31.1	-0.00423	mg/L	0.001658				39.21%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	27.4	0.00211	mg/L	0.003081				146.09%
Cd 214.440†	0.9	0.00024	mg/L	0.007983				>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	-3.0	-0.00080	mg/L	0.001041				130.44%
Cd 228.802†	0.1	-0.00158	mg/L	0.001495				94.63%
Ce 413.380†	-42.8	-0.00909	mg/L	0.011936				131.36%
QC value within limits for Ce 413.380 Recovery = Not calculated								

Ce 413.764†	-16.8	-0.00329	mg/L	0.020924	635.58%
Ce 418.660†	-4.8	-0.00087	mg/L	0.005349	613.06%
Co 228.616†	0.5	0.00021	mg/L	0.001092	529.11%
Co 230.786†	20.5	0.01055	mg/L	0.008021	76.05%
Co 238.892†	-4.2	-0.00104	mg/L	0.000982	94.82%
QC value within limits for Co 238.892 Recovery = Not calculated					
Cr 205.560†	-0.9	-0.00157	mg/L	0.003086	196.38%
QC value within limits for Cr 205.560 Recovery = Not calculated					
Cr 267.716†	0.2	0.00004	mg/L	0.000148	386.75%
Cr 283.563†	-6.1	-0.00029	mg/L	0.000256	88.20%
Cu 224.700†	3.0	-0.01371	mg/L	0.035245	257.03%
QC value within limits for Cu 224.700 Recovery = Not calculated					
Cu 324.752†	-27.9	-0.00077	mg/L	0.000652	84.43%
Cu 327.393†	8.6	0.00055	mg/L	0.000479	86.92%
Fe 238.204†	1.7	0.00018	mg/L	0.000056	30.37%
Fe 239.562†	-3.4	-0.00056	mg/L	0.001304	231.41%
Fe 259.939†	-13.5	-0.00118	mg/L	0.001001	84.82%
Fe 273.955†	4.1	0.00242	mg/L	0.002619	108.03%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	4.1	0.00091	mg/L	0.056132	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	2717.1	0.2138	mg/L	0.11839	55.38%
Li 670.784†	67.4	0.00063	mg/L	0.001113	176.73%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	2.0	0.00179	mg/L	0.013202	735.69%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	-52.4	-0.00020	mg/L	0.000097	47.86%
Mg 285.213†	3.5	0.00012	mg/L	0.000389	315.28%
Mn 257.610†	-2.5	-0.00005	mg/L	0.000184	353.36%
Mn 259.372†	13.1	0.00020	mg/L	0.000131	66.99%
Mn 260.568†	-2.7	-0.00010	mg/L	0.000327	340.53%
QC value within limits for Mn 260.568 Recovery = Not calculated					
Mo 202.031†	-1.4	-0.00434	mg/L	0.003080	71.02%
Mo 203.845†	5.1	0.02644	mg/L	0.009188	34.75%
QC value within limits for Mo 203.845 Recovery = Not calculated					
Mo 204.597†	0.1	0.00049	mg/L	0.005886	>999.9%
Na 588.995†	1905.5	0.1297	mg/L	0.12067	93.01%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-27.9	-0.00354	mg/L	0.007748	218.85%
Ni 221.648†	-2.4	-0.00214	mg/L	0.001381	64.53%
QC value within limits for Ni 221.648 Recovery = Not calculated					
Ni 231.604†	0.2	0.00010	mg/L	0.001264	>999.9%
Ni 232.003†	-1.4	-0.00112	mg/L	0.002314	207.55%
Pb 217.000†	-1.2	-0.01562	mg/L	0.014953	95.72%
Pb 220.353†	2.6	0.00672	mg/L	0.013472	200.38%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-2.0	-0.02530	mg/L	0.043212	170.83%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	0.4	0.00273	mg/L	0.038318	>999.9%
Se 196.026†	-2.2	-0.06997	mg/L	0.053955	77.11%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	-0.6	-0.02271	mg/L	0.142501	627.47%
Sn 235.485†	-2.8	-0.00454	mg/L	0.009627	212.27%
Sn 189.927†	1.9	0.02877	mg/L	0.026371	91.67%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 460.733†	-9.8	-0.00170	mg/L	0.013953	819.52%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Sr 407.771†	8.8	0.00001	mg/L	0.000074	994.95%
Sr 421.552†	-19.9	-0.00004	mg/L	0.000178	434.23%
Ti 337.279†	-26.3	-0.00064	mg/L	0.001246	194.92%
QC value within limits for Ti 337.279 Recovery = Not calculated					
Ti 334.940†	15.7	0.00023	mg/L	0.000222	97.02%
Ti 336.121†	8.3	0.00019	mg/L	0.000548	286.14%
Tl 351.924†	-6.0	-0.00802	mg/L	0.011489	143.30%
Tl 190.801†	1.7	0.06616	mg/L	0.057545	86.98%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	21.7	0.05218	mg/L	0.028039	53.74%
V 310.230†	-21.4	-0.00058	mg/L	0.003305	574.12%
QC value within limits for V 310.230 Recovery = Not calculated					
V 292.402†	-16.6	-0.00118	mg/L	0.001241	104.77%
V 311.071†	-21.0	-0.00096	mg/L	0.000934	97.62%

```
Zn 206.200†              -0.4    -0.00043 mg/L      0.002582                                595.16%
Zn 213.857†              -4.0    -0.00121 mg/L      0.000483                                 39.73%
   QC value within limits for Zn 213.857  Recovery = Not calculated
Zn 202.548†              -0.8    -0.00050 mg/L      0.002672                                534.13%
All analyte(s) passed QC.
```

Sequence No.: 33 **Autosampler Location: 7**
Sample ID: LCM1 **Date Collected: 10/26/2009 2:39:41 PM**
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	464629.3	292.4	%	51.52				17.62%
Ag 328.068†	177.7	0.00641	mg/L	0.003977				62.02%
QC value less than the lower limit for Ag 328.068 Recovery = 2.57%								
Ag 338.289†	-119.5	-0.01157	mg/L	0.001668				14.41%
Al 308.215†	-335.4	-0.1885	mg/L	0.00367				1.95%
QC value less than the lower limit for Al 308.215 Recovery = -18.85%								
Al 394.401†	92.1	0.03531	mg/L	0.023101				65.43%
Al 396.153†	170.6	0.02381	mg/L	0.008523				35.80%
As 188.979†	0.2	0.00684	mg/L	0.015235				222.69%
As 193.696†	-1.0	-0.02396	mg/L	0.023120				96.50%
QC value less than the lower limit for As 193.696 Recovery = -1.20%								
As 197.197†	-2.7	-0.1197	mg/L	0.04543				37.96%
B 208.889†	-29.7	-0.1191	mg/L	0.00448				3.76%
B 249.677†	26.7	0.00889	mg/L	0.009411				105.80%
B 249.772†	13.1	0.00192	mg/L	0.009933				518.58%
QC value less than the lower limit for B 249.772 Recovery = 0.19%								
Ba 233.527†	57.0	0.00878	mg/L	0.009994				113.81%
QC value less than the lower limit for Ba 233.527 Recovery = 0.88%								
Ba 455.403†	1361.6	0.00375	mg/L	0.011750				313.43%
Ba 493.408†	2509.2	0.00660	mg/L	0.011468				173.81%
Be 234.861†	471.4	0.00716	mg/L	0.010046				140.21%
Be 313.042†	312.8	0.00075	mg/L	0.003126				415.17%
Saturated within auto integration window (code 4)								
QC value less than the lower limit for Be 313.042 Recovery = 0.08%								
Be 313.107†	702.4	0.00254	mg/L	0.005568				219.36%
Saturated within auto integration window (code 4)								
Ca 315.887†	86.2	0.01173	mg/L	0.012002				102.32%
QC value less than the lower limit for Ca 315.887 Recovery = 1.17%								
Ca 317.933†	189.4	0.01464	mg/L	0.007409				50.60%
Cd 214.440†	22.7	0.00573	mg/L	0.011742				204.89%
QC value less than the lower limit for Cd 214.440 Recovery = 0.57%								
Cd 226.502†	31.1	0.00830	mg/L	0.009031				108.79%
Cd 228.802†	-0.1	0.00067	mg/L	0.007965				>999.9%
Ce 413.380†	92.5	0.01964	mg/L	0.013464				68.54%
Ce 413.764†	-41.1	-0.00812	mg/L	0.011129				137.13%
Ce 418.660†	226.2	0.04132	mg/L	0.012680				30.69%
Co 228.616†	-7.7	-0.00337	mg/L	0.008773				260.09%
Co 230.786†	-389.5	-0.2001	mg/L	0.00810				4.05%
Co 238.892†	54.7	0.01342	mg/L	0.009659				71.97%
QC value less than the lower limit for Co 238.892 Recovery = 1.34%								
Cr 205.560†	0.6	0.00094	mg/L	0.011204				>999.9%
QC value less than the lower limit for Cr 205.560 Recovery = 0.09%								
Cr 267.716†	-29.7	-0.00474	mg/L	0.009391				198.19%
Cr 283.563†	32.0	0.00150	mg/L	0.010305				685.90%
Cu 224.700†	0.1	-0.2923	mg/L	0.31186				106.68%
QC value less than the lower limit for Cu 224.700 Recovery = -29.23%								
Cu 324.752†	0.8	-0.00002	mg/L	0.010022				>999.9%
Cu 327.393†	182.5	0.01172	mg/L	0.011250				95.96%
Fe 238.204†	10.8	0.00116	mg/L	0.009810				842.77%
Fe 239.562†	1.4	0.00024	mg/L	0.009596				>999.9%
Fe 259.939†	-21.1	-0.00184	mg/L	0.009314				506.78%
QC value less than the lower limit for Fe 259.939 Recovery = -0.18%								
Fe 273.955†	38.9	0.02333	mg/L	0.011790				50.55%
K 766.490†	399.6	0.08942	mg/L	0.064614				72.26%
QC value less than the lower limit for K 766.490 Recovery = 1.79%								
Li 610.362†	-32901.8	-2.589	mg/L	0.2560				9.89%

```
   QC value less than the lower limit for Li 610.362  Recovery = -258.87%
Li 670.784†            1183.3     0.01105 mg/L      0.011675                    105.65%
Mg 279.077†             -19.6    -0.01737 mg/L      0.010404                     59.90%
   QC value less than the lower limit for Mg 279.077  Recovery = -1.74%
Mg 280.271†             536.8     0.00214 mg/L      0.006189                    288.74%
   Saturated within auto integration window (code 4)
Mg 285.213†             454.3     0.01598 mg/L      0.010519                     65.83%
Mn 257.610†             348.0     0.00722 mg/L      0.010538                    145.91%
Mn 259.372†             432.3     0.00658 mg/L      0.010527                    160.06%
Mn 260.568†             190.5     0.00666 mg/L      0.009756                    146.45%
   QC value less than the lower limit for Mn 260.568  Recovery = 0.67%
Mo 202.031†               0.3     0.00083 mg/L      0.001982                    237.73%
Mo 203.845†               2.2     0.01133 mg/L      0.002705                     23.87%
Mo 204.597†               0.3     0.00127 mg/L      0.001995                    157.03%
Na 588.995†           -36271.8      -2.470 mg/L        0.2450                     9.92%
Na 589.592†             -73.6    -0.00934 mg/L      0.014191                    151.99%
Ni 221.648†               7.2     0.00651 mg/L      0.009366                    143.77%
   QC value less than the lower limit for Ni 221.648  Recovery = 0.65%
Ni 231.604†             -12.5    -0.00508 mg/L      0.008942                    176.14%
Ni 232.003†               0.5     0.00063 mg/L      0.009535                    >999.9%
Pb 217.000†               2.6     0.03414 mg/L      0.029590                     86.68%
Pb 220.353†               2.8     0.00734 mg/L      0.016244                    221.45%
   QC value less than the lower limit for Pb 220.353  Recovery = 0.37%
Sb 206.836†              -2.2    -0.02697 mg/L      0.009732                     36.08%
Sb 217.582†               2.7     0.01968 mg/L      0.003765                     19.13%
Se 196.026†              -2.5    -0.07911 mg/L      0.018198                     23.00%
   QC value less than the lower limit for Se 196.026  Recovery = -7.91%
Se 203.985†               0.4     0.01949 mg/L      0.007839                     40.22%
Sn 235.485†              32.5     0.04427 mg/L      0.002083                      4.71%
Sn 189.927†               0.7     0.01092 mg/L      0.009146                     83.77%
Sr 460.733†              39.3     0.00698 mg/L      0.011291                    161.83%
   QC value less than the lower limit for Sr 460.733  Recovery = 0.70%
Sr 407.771†            9056.4     0.00621 mg/L      0.011466                    184.78%
Sr 421.552†            2795.2     0.00577 mg/L      0.011442                    198.44%
Ti 337.279†              34.2     0.00083 mg/L      0.000365                     44.00%
Ti 334.940†            -145.2    -0.00212 mg/L      0.000111                      5.24%
Ti 336.121†             -35.8    -0.00083 mg/L      0.000087                     10.57%
Tl 351.924†            -365.5     -0.5192 mg/L       0.00772                      1.49%
   QC value less than the lower limit for Tl 351.924  Recovery = -10.38%
Tl 190.801†               2.5     0.09764 mg/L      0.086075                     88.15%
   QC value less than the lower limit for Tl 190.801  Recovery = 1.95%
Tl 276.787†             -19.5    -0.04712 mg/L      0.020858                     44.26%
V 310.230†            -2857.0    -0.07820 mg/L      0.006108                      7.81%
   QC value less than the lower limit for V 310.230  Recovery = -7.82%
V 292.402†              111.5     0.00801 mg/L      0.010129                    126.45%
V 311.071†              -59.6    -0.00270 mg/L      0.009613                    355.59%
Zn 206.200†               4.7     0.00497 mg/L      0.009453                    190.36%
Zn 213.857†              16.1     0.00497 mg/L      0.009981                    200.97%
   QC value less than the lower limit for Zn 213.857  Recovery = 0.50%
Zn 202.548†               6.1     0.00376 mg/L      0.010044                    267.39%
QC Failed.  Continue with analysis.
```

QC run out

==========

Sequence No.: 34
Sample ID: LCM2

Autosampler Location: 8
Date Collected: 10/26/2009 2:40:41 PM
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	403895.9	254.1	%	55.43				21.81%
Ag 328.068†	104.7	0.00376	mg/L	0.000336				8.94%
Ag 338.289†	-132.3	-0.01245	mg/L	0.002037				16.36%
Al 308.215†	-323.2	-0.1821	mg/L	0.02671				14.66%
Al 394.401†	69.3	0.02667	mg/L	0.008232				30.86%
Al 396.153†	136.7	0.01804	mg/L	0.009120				50.56%
As 188.979†	0.2	0.00753	mg/L	0.010297				136.66%
As 193.696†	-1.1	-0.02467	mg/L	0.032037				129.85%
As 197.197†	-2.7	-0.1179	mg/L	0.00884				7.50%
B 208.889†	-29.6	-0.1184	mg/L	0.02522				21.30%

B 249.677†	2.8	0.00099 mg/L	0.001108	111.56%
B 249.772†	-26.2	-0.00399 mg/L	0.000404	10.13%
Ba 233.527†	6.5	0.00109 mg/L	0.000824	75.32%
Ba 455.403†	-930.6	-0.00256 mg/L	0.000584	22.79%
Ba 493.408†	-32.1	-0.00008 mg/L	0.000105	124.37%
Be 234.861†	29.8	0.00046 mg/L	0.000019	4.24%
Be 313.042†	-1115.2	-0.00192 mg/L	0.000230	12.01%
Be 313.107†	-415.4	-0.00151 mg/L	0.000114	7.57%
Ca 315.887†	8.0	0.00108 mg/L	0.002456	226.85%
Ca 317.933†	79.9	0.00621 mg/L	0.029607	476.79%
Cd 214.440†	14.0	0.00359 mg/L	0.006249	174.14%
Cd 226.502†	6.8	0.00180 mg/L	0.000133	7.37%
Cd 228.802†	-20.7	-0.00487 mg/L	0.000678	13.93%
Ce 413.380†	44.2	0.00940 mg/L	0.002278	24.25%
Ce 413.764†	-32.3	-0.00634 mg/L	0.006621	104.49%
Ce 418.660†	183.4	0.03359 mg/L	0.007506	22.34%
Co 228.616†	-19.7	-0.00864 mg/L	0.001758	20.34%
Co 230.786†	-366.5	-0.1884 mg/L	0.03250	17.25%
Co 238.892†	24.7	0.00610 mg/L	0.001694	27.79%
Cr 205.560†	-2.1	-0.00365 mg/L	0.001578	43.28%
Cr 267.716†	-71.0	-0.01137 mg/L	0.001216	10.70%
Cr 283.563†	-111.8	-0.00533 mg/L	0.000862	16.18%
Cu 224.700†	-6.2	-0.1229 mg/L	0.02275	18.50%
Cu 324.752†	-259.3	-0.00724 mg/L	0.000972	13.42%
Cu 327.393†	54.2	0.00352 mg/L	0.001123	31.92%
Fe 238.204†	-47.9	-0.00519 mg/L	0.001033	19.92%
Fe 239.562†	-35.8	-0.00581 mg/L	0.001827	31.45%
Fe 259.939†	-87.2	-0.00761 mg/L	0.001466	19.27%
Fe 273.955†	25.7	0.01559 mg/L	0.002095	13.43%
K 766.490†	268.5	0.06007 mg/L	0.006329	10.54%
Li 610.362†	-29871.4	-2.350 mg/L	0.4613	19.63%
Li 670.784†	472.7	0.00441 mg/L	0.000854	19.34%
Mg 279.077†	-29.0	-0.02558 mg/L	0.005552	21.70%
Mg 280.271†	-653.5	-0.00245 mg/L	0.000470	19.20%
Mg 285.213†	250.4	0.00875 mg/L	0.001220	13.94%
Mn 257.610†	8.9	0.00018 mg/L	0.000091	50.80%
Mn 259.372†	-21.3	-0.00050 mg/L	0.000143	28.40%
Mn 260.568†	2.1	0.00008 mg/L	0.000032	39.78%
Mo 202.031†	10.6	0.03308 mg/L	0.028477	86.09%
Mo 203.845†	8.9	0.04612 mg/L	0.032146	69.70%
QC value less than the lower limit for Mo 203.845 Recovery = 4.61%				
Mo 204.597†	7.0	0.03271 mg/L	0.026801	81.93%
Na 588.995†	-33033.3	-2.249 mg/L	0.4495	19.99%
Na 589.592†	-69.8	-0.00894 mg/L	0.013316	148.95%
Ni 221.648†	-1.4	-0.00129 mg/L	0.001835	142.70%
Ni 231.604†	-27.6	-0.01127 mg/L	0.001954	17.33%
Ni 232.003†	-7.6	-0.00571 mg/L	0.002538	44.42%
Pb 217.000†	0.7	0.00928 mg/L	0.015838	170.74%
Pb 220.353†	-1.7	-0.00439 mg/L	0.003028	68.93%
Sb 206.836†	3.4	0.04275 mg/L	0.056106	131.23%
QC value less than the lower limit for Sb 206.836 Recovery = 2.14%				
Sb 217.582†	11.3	0.08279 mg/L	0.055993	67.63%
Se 196.026†	-2.3	-0.07381 mg/L	0.024495	33.19%
Se 203.985†	-0.4	-0.01675 mg/L	0.015918	95.02%
Sn 235.485†	61.8	0.08960 mg/L	0.045200	50.45%
Sn 189.927†	11.0	0.1658 mg/L	0.16740	100.98%
QC value less than the lower limit for Sn 189.927 Recovery = 3.32%				
Sr 460.733†	-14.4	-0.00248 mg/L	0.005040	203.29%
Sr 407.771†	-442.5	-0.00030 mg/L	0.000172	57.14%
Sr 421.552†	-314.6	-0.00065 mg/L	0.000227	34.92%
Ti 337.279†	941.0	0.02284 mg/L	0.024723	108.26%
QC value less than the lower limit for Ti 337.279 Recovery = 2.28%				
Ti 334.940†	1376.7	0.02014 mg/L	0.024820	123.26%
Ti 336.121†	946.3	0.02184 mg/L	0.024897	114.00%
Tl 351.924†	-360.4	-0.5123 mg/L	0.07397	14.44%
Tl 190.801†	2.2	0.08550 mg/L	0.043380	50.74%
Tl 276.787†	-27.1	-0.06468 mg/L	0.018891	29.21%
V 310.230†	-3024.3	-0.08277 mg/L	0.012357	14.93%
V 292.402†	8.1	0.00108 mg/L	0.000254	23.53%
V 311.071†	-180.1	-0.00849 mg/L	0.001190	14.02%
Zn 206.200†	-1.1	-0.00112 mg/L	0.000705	62.87%

Zn 213.857†	-5.1	-0.00150	mg/L	0.000506	33.79%
Zn 202.548†	-4.4	-0.00261	mg/L	0.000355	13.63%

QC Failed. Continue with analysis.

==========

Sequence No.: 35 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 2:41:41 PM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162476.5	102.2	%	0.29				0.28%
Ag 328.068†	-114.9	0.00225	mg/L	0.002258				100.25%
Ag 338.289†	25.2	0.00239	mg/L	0.001865				78.08%
Al 308.215†	168571.8	95.47	mg/L	0.426				0.45%
QC value within limits for Al 308.215 Recovery = 95.47%								
Al 394.401†	273585.6	95.21	mg/L	1.031				1.08%
Al 396.153†	658583.7	92.04	mg/L	1.090				1.18%
As 188.979†	-17.7	-0.3297	mg/L	0.05578				16.92%
As 193.696†	6.3	0.1252	mg/L	0.03455				27.59%
As 197.197†	-3.5	0.01776	mg/L	0.060428				340.28%
B 208.889†	26.4	0.04819	mg/L	0.005218				10.83%
B 249.677†	60.3	0.00341	mg/L	0.002100				61.68%
B 249.772†	2077.8	0.01134	mg/L	0.003966				34.99%
Ba 233.527†	27.1	-0.00058	mg/L	0.000559				96.02%
Ba 455.403†	-32.2	-0.00009	mg/L	0.000160				179.83%
Ba 493.408†	69.4	-0.00038	mg/L	0.000179				47.19%
Be 234.861†	1005.2	-0.00070	mg/L	0.000251				35.78%
Be 313.042†	-51.8	-0.00007	mg/L	0.000034				51.37%
Be 313.107†	-41.5	-0.00014	mg/L	0.000025				17.18%
Ca 315.887†	693583.5	94.26	mg/L	1.283				1.36%
QC value within limits for Ca 315.887 Recovery = 94.26%								
Ca 317.933†	1157008.1	89.14	mg/L	1.364				1.53%
Cd 214.440†	60.8	-0.00527	mg/L	0.010855				205.90%
Cd 226.502†	33.0	-0.00106	mg/L	0.000425				40.22%
Cd 228.802†	8.1	-0.00197	mg/L	0.000681				34.51%
Ce 413.380†	104.9	0.00216	mg/L	0.001201				55.54%
Ce 413.764†	-184.2	-0.00992	mg/L	0.011755				118.51%
Ce 418.660†	7.6	0.00767	mg/L	0.013404				174.74%
Co 228.616†	-0.0	-0.00089	mg/L	0.002090				233.95%
Co 230.786†	224.2	0.00353	mg/L	0.002500				70.83%
Co 238.892†	1432.8	-0.00404	mg/L	0.004625				114.41%
Cr 205.560†	-7.4	-0.00878	mg/L	0.002475				28.20%
Cr 267.716†	16.4	0.00409	mg/L	0.001472				36.02%
Cr 283.563†	2837.4	0.00349	mg/L	0.001670				47.81%
Cu 224.700†	147.8	-0.08365	mg/L	0.008863				10.59%
Cu 324.752†	128.5	0.00040	mg/L	0.000335				83.12%
Cu 327.393†	9.9	0.00060	mg/L	0.000103				17.02%
Fe 238.204†	854113.5	92.24	mg/L	1.203				1.30%
Fe 239.562†	565917.3	92.54	mg/L	1.363				1.47%
Fe 259.939†	1050306.0	91.66	mg/L	1.183				1.29%
Fe 273.955†	170585.0	101.2	mg/L	0.58				0.58%
QC value within limits for Fe 273.955 Recovery = 101.23%								
K 766.490†	409307.3	91.59	mg/L	1.182				1.29%
QC value within limits for K 766.490 Recovery = 91.59%								
Li 610.362†	751.3	-0.1161	mg/L	0.01119				9.64%
Li 670.784†	294.3	0.00275	mg/L	0.000156				5.66%
Mg 279.077†	65458.4	57.83	mg/L	0.118				0.20%
QC value within limits for Mg 279.077 Recovery = 96.38%								
Mg 280.271†	14031145.5	54.17	mg/L	0.312				0.58%
Mg 285.213†	1492202.0	52.84	mg/L	0.805				1.52%
Mn 257.610†	121.3	0.00061	mg/L	0.000557				91.55%
Mn 259.372†	6866.8	-0.00542	mg/L	0.000461				8.50%
Mn 260.568†	147.9	-0.00064	mg/L	0.000418				65.66%
Mo 202.031†	-0.9	0.00394	mg/L	0.009563				242.60%
Mo 203.845†	37.2	0.1426	mg/L	0.01747				12.25%
Mo 204.597†	-6.9	-0.01431	mg/L	0.020215				141.29%
Na 588.995†	1371760.6	93.39	mg/L	1.117				1.20%
Na 589.592†	742871.5	94.23	mg/L	1.163				1.23%

QC value within limits for Na 589.592 Recovery = 94.23%

Ni 221.648†	5.9	-0.00123	mg/L	0.003365	272.76%
Ni 231.604†	10.7	0.00166	mg/L	0.000692	41.69%
Ni 232.003†	-112.2	-0.00528	mg/L	0.004401	83.39%
Pb 217.000†	22.0	-0.06081	mg/L	0.084222	138.50%
Pb 220.353†	5.2	0.03309	mg/L	0.011068	33.45%
Sb 206.836†	-1.9	-0.02414	mg/L	0.033862	140.27%
Sb 217.582†	8.3	0.06060	mg/L	0.044131	72.82%
Se 196.026†	-1.1	-0.03309	mg/L	0.129531	391.45%
Se 203.985†	-53.5	-1.571	mg/L	0.0367	2.33%
Sn 235.485†	9345.5	-1.316	mg/L	0.0454	3.45%
Sn 189.927†	-14.9	-0.1591	mg/L	0.03457	21.73%
Sr 460.733†	30.7	0.01002	mg/L	0.022773	227.37%
Sr 407.771†	1544.7	0.00002	mg/L	0.000061	350.37%
Sr 421.552†	501.3	0.00103	mg/L	0.000044	4.22%
Ti 337.279†	1.5	0.00043	mg/L	0.000629	147.74%
Ti 334.940†	-813.0	-0.00137	mg/L	0.000356	25.91%
Ti 336.121†	-84.7	0.00016	mg/L	0.000561	346.87%
Tl 351.924†	-3.5	-0.02206	mg/L	0.020754	94.09%
Tl 190.801†	15.8	0.4292	mg/L	0.09668	22.52%
Tl 276.787†	2856.0	2.828	mg/L	0.0891	3.15%
V 310.230†	-410.1	-0.01120	mg/L	0.000716	6.39%
V 292.402†	252.4	-0.00287	mg/L	0.000497	17.33%
V 311.071†	-339.9	-0.01739	mg/L	0.000439	2.53%
Zn 206.200†	17.7	0.01107	mg/L	0.006628	59.86%
Zn 213.857†	148.9	0.02525	mg/L	0.001129	4.47%
Zn 202.548†	32.3	0.01645	mg/L	0.000956	5.81%

All analyte(s) passed QC.

==========

Analysis Begun

Start Time: 10/26/2009 2:55:26 PM **Plasma On Time: 10/26/2009 9:50:10 AM**
Logged In Analyst: Kswan2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF dils.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 10**
Sample ID: blank **Date Collected: 10/26/2009 2:55:26 PM**
Data Type: Original

User canceled analysis.

refilled QC

==========

Analysis Begun

Start Time: 10/26/2009 2:56:08 PM **Plasma On Time: 10/26/2009 9:50:10 AM**
Logged In Analyst: Kswan2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1041101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Kswan\Sample Information\redo 09090050614 sed BASF dils.sif
Batch ID: B909037
Results Data Set: 0909005614sed102609
Results Library: C:\pe\kswan\Results\Results.mdb

==========

Sequence No.: 32 **Autosampler Location: 6**
Sample ID: LCB **Date Collected: 10/26/2009 2:56:08 PM**
Data Type: Original

Mean Data: LCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159264.1	100.2	%	1.33				1.33%
Ag 328.068†	-2.3	-0.00014	mg/L	0.001047				756.89%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	13.3	0.00132	mg/L	0.002911				220.56%
Al 308.215†	-5.8	-0.00313	mg/L	0.010292				328.50%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	6.2	0.00621	mg/L	0.002668				42.99%
Al 396.153†	111.2	0.01561	mg/L	0.007367				47.20%
As 188.979†	-1.0	-0.03546	mg/L	0.066611				187.83%
As 193.696†	1.1	0.02556	mg/L	0.077095				301.57%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-0.2	-0.00894	mg/L	0.034696				388.19%
B 208.889†	4.2	0.01675	mg/L	0.014567				86.96%
B 249.677†	6.5	0.00215	mg/L	0.002192				101.85%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-14.6	-0.00221	mg/L	0.000585				26.46%
Ba 233.527†	-5.1	-0.00078	mg/L	0.000525				66.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	4.2	0.00001	mg/L	0.000246				>999.9%
Ba 493.408†	-82.7	-0.00022	mg/L	0.000179				82.44%
Be 234.861†	1.3	0.00002	mg/L	0.000040				215.59%
Be 313.042†	-55.5	-0.00009	mg/L	0.000052				56.93%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-19.3	-0.00007	mg/L	0.000049				72.34%
Ca 315.887†	-37.6	-0.00511	mg/L	0.001689				33.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	-20.7	-0.00159	mg/L	0.001541				96.62%
Cd 214.440†	-21.5	-0.00544	mg/L	0.004637				85.25%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	1.6	0.00042	mg/L	0.000641				151.39%
Cd 228.802†	-0.0	-0.00074	mg/L	0.001666				223.68%

Ce 413.380†	-6.3	-0.00133	mg/L	0.007008	526.29%
QC value within limits for Ce 413.380 Recovery = Not calculated					
Ce 413.764†	-51.5	-0.01013	mg/L	0.017265	170.49%
Ce 418.660†	-35.5	-0.00648	mg/L	0.011548	178.13%
Co 228.616†	1.5	0.00064	mg/L	0.002269	352.14%
Co 230.786†	7.7	0.00397	mg/L	0.004886	123.16%
Co 238.892†	-5.0	-0.00123	mg/L	0.001044	84.62%
QC value within limits for Co 238.892 Recovery = Not calculated					
Cr 205.560†	0.4	0.00062	mg/L	0.004476	727.49%
QC value within limits for Cr 205.560 Recovery = Not calculated					
Cr 267.716†	-11.9	-0.00190	mg/L	0.001041	54.76%
Cr 283.563†	-24.9	-0.00118	mg/L	0.000319	27.02%
Cu 224.700†	-0.0	-0.02295	mg/L	0.013857	60.39%
QC value within limits for Cu 224.700 Recovery = Not calculated					
Cu 324.752†	-45.0	-0.00125	mg/L	0.000523	41.99%
Cu 327.393†	15.6	0.00100	mg/L	0.000834	83.39%
Fe 238.204†	-6.2	-0.00067	mg/L	0.000628	94.16%
Fe 239.562†	0.9	0.00015	mg/L	0.000396	273.08%
Fe 259.939†	-3.3	-0.00029	mg/L	0.000545	190.35%
Fe 273.955†	3.6	0.00215	mg/L	0.001338	62.34%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	-95.0	-0.02126	mg/L	0.027528	129.46%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	1293.7	0.1018	mg/L	0.05126	50.36%
Li 670.784†	92.6	0.00086	mg/L	0.000650	75.14%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	-14.5	-0.01287	mg/L	0.000847	6.58%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	-119.4	-0.00046	mg/L	0.000092	20.24%
Mg 285.213†	6.0	0.00020	mg/L	0.000107	52.50%
Mn 257.610†	1.6	0.00003	mg/L	0.000109	325.72%
Mn 259.372†	10.1	0.00016	mg/L	0.000018	11.46%
Mn 260.568†	-12.6	-0.00044	mg/L	0.000414	93.83%
QC value within limits for Mn 260.568 Recovery = Not calculated					
Mo 202.031†	2.0	0.00631	mg/L	0.006368	100.92%
Mo 203.845†	3.6	0.01878	mg/L	0.009251	49.26%
QC value within limits for Mo 203.845 Recovery = Not calculated					
Mo 204.597†	-0.4	-0.00174	mg/L	0.011860	682.05%
Na 588.995†	261.5	0.01781	mg/L	0.057828	324.76%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	14.0	0.00178	mg/L	0.018426	>999.9%
Ni 221.648†	-2.7	-0.00242	mg/L	0.000859	35.46%
QC value within limits for Ni 221.648 Recovery = Not calculated					
Ni 231.604†	-4.1	-0.00166	mg/L	0.000706	42.58%
Ni 232.003†	3.1	0.00255	mg/L	0.004436	174.16%
Pb 217.000†	-2.2	-0.02898	mg/L	0.014497	50.02%
Pb 220.353†	1.4	0.00370	mg/L	0.009172	247.82%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-1.8	-0.02234	mg/L	0.014503	64.91%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-2.2	-0.01626	mg/L	0.013807	84.92%
Se 196.026†	-0.5	-0.01635	mg/L	0.072282	442.18%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	-0.9	-0.03768	mg/L	0.036590	97.11%
Sn 235.485†	5.2	0.00743	mg/L	0.005942	79.97%
Sn 189.927†	1.2	0.01796	mg/L	0.015378	85.64%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 460.733†	-6.9	-0.00116	mg/L	0.010510	908.95%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Sr 407.771†	96.1	0.00007	mg/L	0.000093	132.45%
Sr 421.552†	-66.6	-0.00014	mg/L	0.000119	86.66%
Ti 337.279†	18.0	0.00044	mg/L	0.000864	197.28%
QC value within limits for Ti 337.279 Recovery = Not calculated					
Ti 334.940†	-2.5	-0.00004	mg/L	0.000239	661.40%
Ti 336.121†	5.0	0.00012	mg/L	0.000221	189.31%
Tl 351.924†	-5.4	-0.00613	mg/L	0.054697	892.41%
Tl 190.801†	3.7	0.1453	mg/L	0.07618	52.45%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	15.5	0.03796	mg/L	0.006892	18.16%
V 310.230†	-175.3	-0.00479	mg/L	0.001439	30.07%
QC value within limits for V 310.230 Recovery = Not calculated					

V 292.402†	-9.0	-0.00067 mg/L	0.000426	63.92%
V 311.071†	-16.6	-0.00077 mg/L	0.001142	149.26%
Zn 206.200†	1.1	0.00118 mg/L	0.002214	187.24%
Zn 213.857†	-4.8	-0.00146 mg/L	0.000448	30.62%
QC value within limits for Zn 213.857 Recovery = Not calculated				
Zn 202.548†	-4.2	-0.00254 mg/L	0.002129	83.76%

All analyte(s) passed QC.

==========

Sequence No.: 33
Sample ID: LCM1

Autosampler Location: 7
Date Collected: 10/26/2009 2:57:16 PM
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	166146.0	104.5	%	1.10				1.05%
Ag 328.068†	6792.3	0.2529	mg/L	0.00559				2.21%
QC value within limits for Ag 328.068 Recovery = 101.14%								
Ag 338.289†	2800.9	0.2592	mg/L	0.00420				1.62%
Al 308.215†	1687.5	0.9341	mg/L	0.01479				1.58%
QC value within limits for Al 308.215 Recovery = 93.41%								
Al 394.401†	3827.2	0.9362	mg/L	0.00546				0.58%
Al 396.153†	6704.3	0.9370	mg/L	0.01007				1.07%
As 188.979†	55.4	1.898	mg/L	0.1234				6.51%
As 193.696†	85.4	1.956	mg/L	0.0694				3.55%
QC value within limits for As 193.696 Recovery = 97.81%								
As 197.197†	41.3	1.783	mg/L	0.1202				6.74%
B 208.889†	243.1	0.9762	mg/L	0.01303				1.34%
B 249.677†	3043.2	1.010	mg/L	0.0108				1.07%
B 249.772†	6751.5	1.016	mg/L	0.0115				1.13%
QC value within limits for B 249.772 Recovery = 101.60%								
Ba 233.527†	6730.0	1.032	mg/L	0.0125				1.21%
QC value within limits for Ba 233.527 Recovery = 103.23%								
Ba 455.403†	357201.3	0.9835	mg/L	0.01612				1.64%
Ba 493.408†	372631.2	0.9799	mg/L	0.01651				1.69%
Be 234.861†	63429.0	0.9643	mg/L	0.00875				0.91%
Be 313.042†	506999.0	0.9484	mg/L	0.01737				1.83%
QC value within limits for Be 313.042 Recovery = 94.84%								
Be 313.107†	263271.8	0.9509	mg/L	0.01702				1.79%
Ca 315.887†	7053.5	0.9555	mg/L	0.01465				1.53%
QC value within limits for Ca 315.887 Recovery = 95.55%								
Ca 317.933†	11688.5	0.8999	mg/L	0.00482				0.54%
Cd 214.440†	3742.7	0.9469	mg/L	0.00875				0.92%
QC value within limits for Cd 214.440 Recovery = 94.69%								
Cd 226.502†	3521.0	0.9404	mg/L	0.01442				1.53%
Cd 228.802†	3396.2	0.8587	mg/L	0.00824				0.96%
Ce 413.380†	4647.9	0.9872	mg/L	0.00621				0.63%
Ce 413.764†	4998.2	0.9833	mg/L	0.02514				2.56%
Ce 418.660†	5320.6	0.9718	mg/L	0.01840				1.89%
Co 228.616†	2152.3	0.9390	mg/L	0.01257				1.34%
Co 230.786†	1812.3	0.9225	mg/L	0.01415				1.53%
Co 238.892†	3788.7	0.9300	mg/L	0.01254				1.35%
QC value within limits for Co 238.892 Recovery = 93.00%								
Cr 205.560†	568.6	0.9717	mg/L	0.01604				1.65%
QC value within limits for Cr 205.560 Recovery = 97.17%								
Cr 267.716†	6450.2	1.034	mg/L	0.0143				1.39%
Cr 283.563†	20150.8	0.9562	mg/L	0.00758				0.79%
Cu 224.700†	978.0	-24.55	mg/L	0.405				1.65%
QC value less than the lower limit for Cu 224.700 Recovery = -2455.19%								
Cu 324.752†	34480.8	0.9552	mg/L	0.00951				1.00%
Cu 327.393†	15076.8	0.9681	mg/L	0.00697				0.72%
Fe 238.204†	8953.7	0.9689	mg/L	0.01209				1.25%
Fe 239.562†	6353.7	1.036	mg/L	0.0144				1.39%
Fe 259.939†	11012.7	0.9611	mg/L	0.01011				1.05%
QC value within limits for Fe 259.939 Recovery = 96.11%								
Fe 273.955†	1779.4	1.048	mg/L	0.0183				1.74%
K 766.490†	21062.1	4.713	mg/L	0.0630				1.34%
QC value within limits for K 766.490 Recovery = 94.26%								
Li 610.362†	11441.4	0.8898	mg/L	0.05670				6.37%

QC value less than the lower limit for Li 610.362 Recovery = 88.98%

Li 670.784†	103222.6	0.9641	mg/L	0.01547	1.60%
Mg 279.077†	1147.2	1.017	mg/L	0.0106	1.04%
QC value within limits for Mg 279.077 Recovery = 101.66%					
Mg 280.271†	237974.4	0.9179	mg/L	0.01546	1.68%
Mg 285.213†	25911.9	0.9192	mg/L	0.00598	0.65%
Mn 257.610†	48711.2	1.012	mg/L	0.0108	1.07%
Mn 259.372†	66370.8	1.013	mg/L	0.0080	0.79%
Mn 260.568†	26745.3	0.9340	mg/L	0.00947	1.01%
QC value within limits for Mn 260.568 Recovery = 93.40%					
Mo 202.031†	1.1	0.00362	mg/L	0.008114	223.90%
Mo 203.845†	2.4	0.01146	mg/L	0.006292	54.93%
Mo 204.597†	-0.3	-0.00029	mg/L	0.003689	>999.9%
Na 588.995†	12355.4	0.8412	mg/L	0.04403	5.23%
Na 589.592†	7762.7	0.9846	mg/L	0.01033	1.05%
Ni 221.648†	1055.1	0.9480	mg/L	0.01246	1.31%
QC value within limits for Ni 221.648 Recovery = 94.80%					
Ni 231.604†	2320.9	0.9470	mg/L	0.01225	1.29%
Ni 232.003†	1203.9	0.9043	mg/L	0.01547	1.71%
Pb 217.000†	151.1	1.964	mg/L	0.0096	0.49%
Pb 220.353†	740.9	1.934	mg/L	0.0219	1.13%
QC value within limits for Pb 220.353 Recovery = 96.71%					
Sb 206.836†	-1.4	-0.03188	mg/L	0.009990	31.33%
Sb 217.582†	4.2	0.03061	mg/L	0.021342	69.73%
Se 196.026†	29.6	0.9338	mg/L	0.13277	14.22%
QC value within limits for Se 196.026 Recovery = 93.38%					
Se 203.985†	29.2	0.8205	mg/L	0.04622	5.63%
Sn 235.485†	89.2	-0.01408	mg/L	0.008050	57.19%
Sn 189.927†	-0.1	-0.00029	mg/L	0.010868	>999.9%
Sr 460.733†	5593.2	0.9795	mg/L	0.01997	2.04%
QC value within limits for Sr 460.733 Recovery = 97.95%					
Sr 407.771†	1429092.2	0.9782	mg/L	0.01572	1.61%
Sr 421.552†	472768.3	0.9752	mg/L	0.01606	1.65%
Ti 337.279†	-21.0	-0.00036	mg/L	0.000134	36.97%
Ti 334.940†	-7.8	-0.00033	mg/L	0.000171	51.28%
Ti 336.121†	2.5	-0.00031	mg/L	0.000535	175.16%
Tl 351.924†	3218.4	4.424	mg/L	0.1145	2.59%
QC value less than the lower limit for Tl 351.924 Recovery = 88.48%					
Tl 190.801†	128.3	4.991	mg/L	0.1154	2.31%
QC value within limits for Tl 190.801 Recovery = 99.82%					
Tl 276.787†	1442.5	3.429	mg/L	0.0741	2.16%
V 310.230†	34165.5	0.9324	mg/L	0.00809	0.87%
QC value within limits for V 310.230 Recovery = 93.24%					
V 292.402†	13241.6	0.9481	mg/L	0.01151	1.21%
V 311.071†	20918.5	0.9469	mg/L	0.00485	0.51%
Zn 206.200†	893.1	0.9472	mg/L	0.01122	1.18%
Zn 213.857†	3264.9	0.9965	mg/L	0.01019	1.02%
QC value within limits for Zn 213.857 Recovery = 99.65%					
Zn 202.548†	1684.8	1.027	mg/L	0.0145	1.41%

QC Failed. Continue with analysis.

==========

Sequence No.: 34 **Autosampler Location: 8**
Sample ID: LCM2 **Date Collected: 10/26/2009 2:58:22 PM**
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157454.0	99.08	%	0.604				0.61%
Ag 328.068†	-8.4	-0.00043	mg/L	0.001029				240.18%
Ag 338.289†	-167.5	-0.00473	mg/L	0.001824				38.53%
Al 308.215†	48.1	0.00568	mg/L	0.008596				151.36%
Al 394.401†	-3.2	0.00314	mg/L	0.007887				250.81%
Al 396.153†	301.1	0.00964	mg/L	0.004690				48.63%
As 188.979†	0.8	0.03012	mg/L	0.027355				90.81%
As 193.696†	3.1	0.07105	mg/L	0.057106				80.37%
As 197.197†	0.2	0.01046	mg/L	0.137913				>999.9%
B 208.889†	3.5	0.01421	mg/L	0.005852				41.18%
B 249.677†	29.6	0.01046	mg/L	0.001942				18.56%

B 249.772†	51.8	0.00813 mg/L	0.000967	11.90%
Ba 233.527†	-103.1	-0.01401 mg/L	0.000392	2.80%
Ba 455.403†	96.6	0.00027 mg/L	0.000085	31.88%
Ba 493.408†	62.1	0.00016 mg/L	0.000189	116.11%
Be 234.861†	-1.4	0.00011 mg/L	0.000073	68.51%
Be 313.042†	54.9	0.00010 mg/L	0.000076	77.21%
Be 313.107†	93.1	0.00013 mg/L	0.000121	90.39%
Ca 315.887†	13.2	0.00071 mg/L	0.000708	100.07%
Ca 317.933†	47.8	0.00368 mg/L	0.001791	48.63%
Cd 214.440†	-0.2	0.00186 mg/L	0.004511	242.94%
Cd 226.502†	-2.7	-0.00092 mg/L	0.001545	168.39%
Cd 228.802†	0.4	-0.00192 mg/L	0.002782	145.07%
Ce 413.380†	8.2	0.00174 mg/L	0.012030	691.96%
Ce 413.764†	-59.5	-0.00914 mg/L	0.005363	58.67%
Ce 418.660†	62.5	0.01443 mg/L	0.009911	68.66%
Co 228.616†	-6.1	-0.00402 mg/L	0.000894	22.28%
Co 230.786†	20.6	0.00549 mg/L	0.002507	45.68%
Co 238.892†	-6.4	-0.00019 mg/L	0.001886	977.22%
Cr 205.560†	0.7	0.00029 mg/L	0.003515	>999.9%
Cr 267.716†	1.6	-0.00014 mg/L	0.000174	120.04%
Cr 283.563†	-3.9	-0.00001 mg/L	0.000356	>999.9%
Cu 224.700†	2.3	-0.05281 mg/L	0.046870	88.75%
Cu 324.752†	-1.9	-0.00042 mg/L	0.000379	91.33%
Cu 327.393†	11.4	0.00155 mg/L	0.000787	50.80%
Fe 238.204†	10.5	0.00113 mg/L	0.000764	67.45%
Fe 239.562†	1.6	0.00070 mg/L	0.001306	187.04%
Fe 259.939†	7.6	0.00066 mg/L	0.000703	106.66%
Fe 273.955†	2.3	0.00412 mg/L	0.008794	213.50%
K 766.490†	196.6	0.04400 mg/L	0.064616	146.85%
Li 610.362†	2032.6	0.1556 mg/L	0.04375	28.12%
Li 670.784†	214.5	0.00200 mg/L	0.001475	73.61%
Mg 279.077†	-2.7	0.00177 mg/L	0.009924	559.98%
Mg 280.271†	26.9	0.00011 mg/L	0.000068	64.13%
Mg 285.213†	19.4	0.00068 mg/L	0.000317	46.35%
Mn 257.610†	5.2	0.00011 mg/L	0.000166	153.06%
Mn 259.372†	343.7	0.00030 mg/L	0.000294	97.59%
Mn 260.568†	-0.8	-0.00002 mg/L	0.000214	868.27%
Mo 202.031†	325.7	1.014 mg/L	0.0066	0.65%
Mo 203.845†	195.8	1.015 mg/L	0.0103	1.02%
QC value within limits for Mo 203.845 Recovery = 101.48%				
Mo 204.597†	213.5	0.9919 mg/L	0.01700	1.71%
Na 588.995†	1341.0	0.09130 mg/L	0.046726	51.18%
Na 589.592†	122.6	0.01289 mg/L	0.029708	230.46%
Ni 221.648†	-13.3	-0.01194 mg/L	0.002309	19.33%
Ni 231.604†	2.7	0.00031 mg/L	0.002385	771.43%
Ni 232.003†	8.8	0.00109 mg/L	0.003686	338.82%
Pb 217.000†	-0.4	-0.00527 mg/L	0.017100	324.19%
Pb 220.353†	2.3	0.00592 mg/L	0.003053	51.57%
Sb 206.836†	157.6	1.948 mg/L	0.0123	0.63%
QC value within limits for Sb 206.836 Recovery = 97.38%				
Sb 217.582†	273.2	2.000 mg/L	0.0246	1.23%
Se 196.026†	0.5	0.01586 mg/L	0.035816	225.85%
Se 203.985†	3.2	0.00747 mg/L	0.070836	947.86%
Sn 235.485†	991.7	1.499 mg/L	0.0133	0.89%
Sn 189.927†	347.8	5.235 mg/L	0.0395	0.76%
QC value within limits for Sn 189.927 Recovery = 104.69%				
Sr 460.733†	-30.5	-0.00508 mg/L	0.008941	175.99%
Sr 407.771†	249.8	0.00018 mg/L	0.000124	70.49%
Sr 421.552†	91.2	0.00019 mg/L	0.000182	96.72%
Ti 337.279†	38618.5	0.9373 mg/L	0.03738	3.99%
QC value within limits for Ti 337.279 Recovery = 93.73%				
Ti 334.940†	64144.7	0.9380 mg/L	0.03695	3.94%
Ti 336.121†	40904.9	0.9440 mg/L	0.03962	4.20%
Tl 351.924†	7.5	0.00822 mg/L	0.028636	348.37%
Tl 190.801†	1.8	0.07201 mg/L	0.110363	153.27%
Tl 276.787†	14.7	0.03539 mg/L	0.023959	67.69%
V 310.230†	-120.7	-0.00370 mg/L	0.001333	35.99%
V 292.402†	-230.0	-0.00185 mg/L	0.001011	54.65%
V 311.071†	330.5	0.00138 mg/L	0.001311	95.02%
Zn 206.200†	3.1	0.00333 mg/L	0.001947	58.52%
Zn 213.857†	1.3	0.00076 mg/L	0.000448	58.59%

Zn 202.548†	-3.6	-0.00220	mg/L	0.000933		42.46%

All analyte(s) passed QC.

==========

Sequence No.: 35 **Autosampler Location: 9**
Sample ID: HiLCM **Date Collected: 10/26/2009 2:59:23 PM**
Data Type: Original

Mean Data: HiLCM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160166.5	100.8	%	0.43				0.42%
Ag 328.068†	-76.0	0.00371	mg/L	0.000812				21.91%
Ag 338.289†	21.2	0.00203	mg/L	0.000499				24.59%
Al 308.215†	169575.9	96.04	mg/L	0.260				0.27%
QC value within limits for Al 308.215 Recovery = 96.04%								
Al 394.401†	277522.0	96.58	mg/L	0.626				0.65%
Al 396.153†	667988.5	93.35	mg/L	0.488				0.52%
As 188.979†	-18.0	-0.3349	mg/L	0.08423				25.15%
As 193.696†	7.4	0.1484	mg/L	0.07651				51.54%
As 197.197†	-1.6	0.1077	mg/L	0.24435				226.85%
B 208.889†	30.9	0.06603	mg/L	0.018792				28.46%
B 249.677†	64.4	0.00468	mg/L	0.000303				6.49%
B 249.772†	2116.9	0.01516	mg/L	0.003687				24.32%
Ba 233.527†	26.3	-0.00077	mg/L	0.000048				6.25%
Ba 455.403†	18.7	0.00005	mg/L	0.000131				253.80%
Ba 493.408†	104.4	-0.00029	mg/L	0.000085				29.13%
Be 234.861†	1056.7	-0.00003	mg/L	0.000796				>999.9%
Be 313.042†	-41.4	-0.00005	mg/L	0.000036				68.66%
Be 313.107†	-23.4	-0.00008	mg/L	0.000103				131.70%
Ca 315.887†	705715.8	95.91	mg/L	0.300				0.31%
QC value within limits for Ca 315.887 Recovery = 95.91%								
Ca 317.933†	1178983.9	90.83	mg/L	0.289				0.32%
Cd 214.440†	47.8	-0.00876	mg/L	0.004539				51.84%
Cd 226.502†	28.3	-0.00239	mg/L	0.001102				46.22%
Cd 228.802†	8.3	-0.00263	mg/L	0.003713				141.10%
Ce 413.380†	209.9	0.02433	mg/L	0.016113				66.22%
Ce 413.764†	-194.0	-0.01167	mg/L	0.009787				83.86%
Ce 418.660†	-37.2	-0.00045	mg/L	0.009652				>999.9%
Co 228.616†	0.9	-0.00045	mg/L	0.002860				633.82%
Co 230.786†	237.5	0.00946	mg/L	0.002318				24.50%
Co 238.892†	1393.1	-0.01632	mg/L	0.000446				2.73%
Cr 205.560†	-4.5	-0.00361	mg/L	0.005939				164.50%
Cr 267.716†	1.6	0.00172	mg/L	0.001469				85.24%
Cr 283.563†	2902.2	0.00569	mg/L	0.000518				9.11%
Cu 224.700†	149.8	-0.08662	mg/L	0.037612				43.42%
Cu 324.752†	99.2	-0.00042	mg/L	0.000264				62.74%
Cu 327.393†	26.0	0.00162	mg/L	0.000363				22.35%
Fe 238.204†	868258.8	93.77	mg/L	0.372				0.40%
Fe 239.562†	576019.1	94.19	mg/L	0.361				0.38%
Fe 259.939†	1067190.0	93.14	mg/L	0.389				0.42%
Fe 273.955†	171754.7	101.9	mg/L	0.23				0.22%
QC value within limits for Fe 273.955 Recovery = 101.92%								
K 766.490†	415809.9	93.04	mg/L	0.566				0.61%
QC value within limits for K 766.490 Recovery = 93.04%								
Li 610.362†	1845.2	-0.03212	mg/L	0.024850				77.35%
Li 670.784†	310.8	0.00290	mg/L	0.001364				46.99%
Mg 279.077†	66017.3	58.32	mg/L	0.053				0.09%
QC value within limits for Mg 279.077 Recovery = 97.20%								
Mg 280.271†	14141778.8	54.60	mg/L	0.915				1.68%
Mg 285.213†	1517527.5	53.73	mg/L	0.236				0.44%
Mn 257.610†	76.6	-0.00034	mg/L	0.000148				43.77%
Mn 259.372†	6857.4	-0.00625	mg/L	0.001130				18.09%
Mn 260.568†	145.2	-0.00078	mg/L	0.000452				58.08%
Mo 202.031†	0.1	0.00695	mg/L	0.013101				188.54%
Mo 203.845†	38.6	0.1493	mg/L	0.01034				6.93%
Mo 204.597†	-10.2	-0.02900	mg/L	0.010572				36.46%
Na 588.995†	1392964.5	94.84	mg/L	0.344				0.36%
Na 589.592†	753683.4	95.60	mg/L	0.381				0.40%
QC value within limits for Na 589.592 Recovery = 95.60%								

Ni 221.648†	6.9	-0.00037 mg/L	0.004582	>999.9%
Ni 231.604†	9.5	0.00116 mg/L	0.001980	170.34%
Ni 232.003†	-102.2	0.00336 mg/L	0.002683	79.82%
Pb 217.000†	23.5	-0.04496 mg/L	0.025384	56.45%
Pb 220.353†	-1.2	0.01665 mg/L	0.022627	135.92%
Sb 206.836†	-4.7	-0.05790 mg/L	0.027450	47.41%
Sb 217.582†	4.3	0.03134 mg/L	0.026411	84.27%
Se 196.026†	-1.2	-0.03719 mg/L	0.134161	360.70%
Se 203.985†	-57.1	-1.706 mg/L	0.1336	7.83%
Sn 235.485†	9425.0	-1.302 mg/L	0.0466	3.58%
Sn 189.927†	-14.8	-0.1554 mg/L	0.02456	15.81%
Sr 460.733†	-47.3	-0.00362 mg/L	0.008596	237.54%
Sr 407.771†	1475.5	-0.00005 mg/L	0.000029	60.37%
Sr 421.552†	569.6	0.00117 mg/L	0.000049	4.14%
Ti 337.279†	18.0	0.00083 mg/L	0.000456	55.04%
Ti 334.940†	-800.0	-0.00100 mg/L	0.000382	38.27%
Ti 336.121†	-84.1	0.00021 mg/L	0.000172	80.08%
Tl 351.924†	-2.6	-0.02057 mg/L	0.015687	76.26%
Tl 190.801†	13.0	0.3154 mg/L	0.03575	11.34%
Tl 276.787†	2894.9	2.887 mg/L	0.1207	4.18%
V 310.230†	-329.5	-0.00897 mg/L	0.000574	6.40%
V 292.402†	260.8	-0.00264 mg/L	0.000194	7.33%
V 311.071†	-347.3	-0.01771 mg/L	0.000663	3.74%
Zn 206.200†	20.4	0.01376 mg/L	0.002260	16.43%
Zn 213.857†	151.9	0.02593 mg/L	0.000271	1.04%
Zn 202.548†	35.1	0.01811 mg/L	0.003382	18.68%

All analyte(s) passed QC.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 10/1/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Anna Aleszczyk, Chemist AA 10-1-09
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin OCT 0 1 2009 / /
Data Management Coordinator and Date Received

Date Transmitted: OCT 0 1 2009 / /

Analyses included in this report:

Anions by IC Anions by IC

The data are usable for their intended purpose. I am investigating whether high Cl⁻ dilution affected Cx of the other anions. I expected to see more nitrate and sulfate. Anna Aleszczyk was to feel the IC analysis performed OK.

Rich P. Fiore
10/6/09

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:21

ANALYSIS CASE NARRATIVE - Anions by IC in Soil

Work order #: 0909005
Phone #: (312) 353-9467

General Information

Seven soil samples were analyzed for Anions by IC (sulfate, nitrate, and chloride) on September 14 - 15, 2009. All holding times were met.

NOTE: All supporting data are archived with work order number 0909007.

Sample Analysis and Results

The samples were prepared and analyzed for Anions by IC in soil using CRL SOPs AIG039 Revision 03 and AIG045A Revision # 0.0, respectively. The samples were stored in the refrigerator at all times, except when in use.

Quality Control

Matrix Spike (MS)

The matrix spike (MS) recoveries of Nitrate and Chloride were outside the acceptance limit for sample 0909005-07. MS recoveries of anions in soil are generally low. However, the blank spike recoveries were all found to be within the CRL limits. The sample results were flagged accordingly for Nitrate. There may be some matrix interferences and the reported value may be biased low. If there are any other samples with the same matrix they should be flagged as well. The sample was diluted one hundred fold for Chloride and the spike was diluted out. The spike concentration is not valid so no flags were used.

All other quality control audits were within CRL limits.

Signature Anna Aleszczyk, Date 10-1-09

AA 10-1-09
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T18-50-0.5-1.0	0909005-01	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T18-50-1.0-3.0	0909005-02	Soil	Sep-01-09 14:00	Sep-03-09 10:48
T27-125-3.0-4.8	0909005-03	Soil	Sep-01-09 14:50	Sep-03-09 10:48
T24-125-1.0-3.0	0909005-04	Soil	Sep-02-09 09:05	Sep-03-09 10:48
T26-125-1.0-3.0	0909005-05	Soil	Sep-02-09 10:30	Sep-03-09 10:48
T20-125-1.0-3.0	0909005-06	Soil	Sep-02-09 14:45	Sep-03-09 10:48
T20-125-1.0-3.0 Duplicate	0909005-07	Soil	Sep-02-09 14:45	Sep-03-09 10:48

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:21

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T18-50-0.5-1.0 (0909005-01) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**800**		4.80	200	mg/kg dry	5	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**2.55**	J	2.51	6.67	"	1	"	"	Sep-14-09
Sulfate as SO4	**597**		3.57	10.0	"	"	"	"	"

T18-50-1.0-3.0 (0909005-02) Soil Sampled: Sep-01-09 14:00 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**1330**		10.0	418	mg/kg dry	10	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	2 62	6 96	"	1	"	"	Sep-14-09
Sulfate as SO4	**508**		3.73	10.4	"	"	"	"	"

T27-125-3.0-4.8 (0909005-03) Soil Sampled: Sep-01-09 14:50 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**946**		4.65	194	mg/kg dry	10	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	1.21	3.23	"	1	"	"	Sep-15-09
Sulfate as SO4	**53.2**		1.73	4.84	"	"	"	"	"

T24-125-1.0-3.0 (0909005-04) Soil Sampled: Sep-02-09 09:05 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**584**		4.97	207	mg/kg dry	10	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**1.33**	J	1.30	3.45	"	1	"	"	Sep-15-09
Sulfate as SO4	**93.2**		1.85	5.18	"	"	"	"	"

T26-125-1.0-3.0 (0909005-05) Soil Sampled: Sep-02-09 10:30 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**395**		2.91	121	mg/kg dry	5	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	1.52	4.04	"	1	"	"	Sep-15-09
Sulfate as SO4	**12.7**		2.16	6.06	"	"	"	"	"

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:21

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T20-125-1.0-3.0 (0909005-06) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**2.61E4**		110	4590	mg/kg dry	100	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	2.87	7.65	"	1	"	"	Sep-14-09
Sulfate as SO4	**1810**		8.20	22.9	"	2	"	"	Sep-15-09

T20-125-1.0-3.0 Duplicate (0909005-07) Soil Sampled: Sep-02-09 14:45 Received: Sep-03-09 10:48

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**2.65E4**		112	4660	mg/kg dry	100	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	J, L, U	2.92	7.76	"	1	"	"	Sep-14-09
Sulfate as SO4	**1770**		4.16	11.6	"	"	"	"	"

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:21

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

AA 10-1-09

Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 5 85 2894
	Anions by IC	(Soil)	J-Flags used
	Anions by IC	(Soil)	Result calculations based on MDL
	Anions by IC	(Soil)	U-Flags used
	Anions by IC	(Water)	J-Flags used
	Anions by IC	(Water)	Result calculations based on MDL
	Anions by IC	(Water)	U-Flags used
0909005-01	Anions by IC		Missing Bromide
0909005-01	Anions by IC		Missing Orthophosphate as PO4
0909005-02	Anions by IC		Missing Bromide
0909005-02	Anions by IC		Missing Orthophosphate as PO4
0909005-03	Anions by IC		Missing Bromide
0909005-03	Anions by IC		Missing Orthophosphate as PO4
0909005-04	Anions by IC		Missing Bromide
0909005-04	Anions by IC		Missing Orthophosphate as PO4
0909005-05	Anions by IC		Missing Bromide
0909005-05	Anions by IC		Missing Orthophosphate as PO4
0909005-06	Anions by IC		Missing Bromide
0909005-06	Anions by IC		Missing Orthophosphate as PO4
0909005-07	Anions by IC		Missing Bromide
0909005-07	Anions by IC		Missing Orthophosphate as PO4
0909005-07	Anions by IC	Nitrate - NO3	L. The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value

Sample, Log and Extraction Comments

0909005-01
Anions by IC

Split Sample

0909005-02
Anions by IC

Split Sample

0909005-03
Anions by IC

Split Sample

0909005-04
Anions by IC

Split Sample

0909005-05
Anions by IC

Split Sample

0909005-06
Anions by IC

Split Sample

0909005-07
Anions by IC

Split Sample

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/1/2009 2:43:39PM**

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Oct-20-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-03-09 10:48
Logged In By: Chi Tang Date Logged In: Sep-03-09 10:48

Samples Received at	5.6°C
Sample tags/labels	Yes
Seals Intact	Yes
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909005-01 T18-50-0.5-1.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:00	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:00	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:00	
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:00	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:00	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:00	
0909005-02 T18-50-1.0-3.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:00	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:00	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:00	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:00	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:00	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:00	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:00	

WORK ORDER

Printed: 10/1/2009 2:43:39PM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-03 T27-125-3.0-4.8 [Soil] Sampled Sep-01-09 14:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:50	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:50	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:50	
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:50	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:50	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:50	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:50	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:50	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-15-09 13:50	
0909005-04 T24-125-1.0-3.0 [Soil] Sampled Sep-02-09 09:05 Eastern				**Split Sample**
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 08:05	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 08:05	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 08:05	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 08:05	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 08:05	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 08:05	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 08:05	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 08:05	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 08:05	
0909005-05 T26-125-1.0-3.0 [Soil] Sampled Sep-02-09 10:30 Eastern				**Split Sample**
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 09:30	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 09:30	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 09:30	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 09:30	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 09:30	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 09:30	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 09:30	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 09:30	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 09:30	

WORK ORDER

Printed: 10/1/2009 2:43:39PM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-06 T20-125-1.0-3.0 [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 13:45	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 13:45	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 13:45	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 13:45	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 13:45	
0909005-07 T20-125-1.0-3.0 Duplicate [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 13:45	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 13:45	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 13:45	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 13:45	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 13:45	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 13:45	

Reviewed By

Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 10/1/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Anna Aleszczyk, Chemist AA 10-10-09
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin OCT 0 1 2009
Data Management Coordinator and Date Received

Date Transmitted: OCT 0 1 2009 / / /

Analyses included in this report:

Anions by IC Anions by IC

The Data are usable for their intended purpose. I question the analysis (Anions) on whether the high amt. of Chloride present affected the outcome of the other samples. She seems to believe the IC performed well.

Brian O. Fraser
10/6/09

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:27

ANALYSIS CASE NARRATIVE - Anions by IC in Soil

Work order #: 0909006
Phone #: (312) 353-9467

General Information

Four soil samples were analyzed for Anions by IC (sulfate, nitrate, and chloride) on September 14 - 15, 2009. All holding times were met.

NOTE: All supporting data are archived with work order number 0909007.

Sample Analysis and Results

The samples were prepared and analyzed for Anions by IC in soil using CRL SOPs AIG039 Revision 03 and AIG045A Revision # 0.0, respectively. The samples were stored in the refrigerator at all times, except when in use.

Quality Control

All quality control audits were within CRL limits.

Signature Ann Aleszczyk, Date 10-1-09

AA 10-1-09
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T27-150-1.0-3.0	0909006-01	Soil	Sep-03-09 15:50	Sep-08-09 11:25
T29-200-1.0-3.0	0909006-02	Soil	Sep-04-09 10:20	Sep-08-09 11:25
T30-150-1.0-3.0	0909006-03	Soil	Sep-04-09 11:40	Sep-08-09 11:25
T22-175-0.5-1.2	0909006-04	Soil	Sep-04-09 13:50	Sep-08-09 11:25

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:27

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T27-150-1.0-3.0 (0909006-01) Soil Sampled: Sep-03-09 15:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**759**		6.32	263	mg/kg dry	10	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	1.65	4.39	"	1	"	"	Sep-15-09
Sulfate as SO4	**8.75**		2.35	6.58	"	"	"	"	"

T29-200-1.0-3.0 (0909006-02) Soil Sampled: Sep-04-09 10:20 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**3.86E4**		242	1.01E4	mg/kg dry	200	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**4.69**	J	3.15	8.39	"	1	"	"	Sep-14-09
Sulfate as SO4	**1360**		4.50	12.6	"	"	"	"	"

T30-150-1.0-3.0 (0909006-03) Soil Sampled: Sep-04-09 11:40 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**4.19E4**		245	1.02E4	mg/kg dry	200	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**U**	U	3.20	8.50	"	1	"	"	Sep-14-09
Sulfate as SO4	**1610**		4.56	12.8	"	"	"	"	"

T22-175-0.5-1.2 (0909006-04) Soil Sampled: Sep-04-09 13:50 Received: Sep-08-09 11:25

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**2460**		14.1	588	mg/kg dry	25	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**1.50**	J	1.47	3.92	"	1	"	"	Sep-14-09
Sulfate as SO4	**4.58**	J	2.10	5.88	"	"	"	"	"

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:27

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

AA 10-1-09

Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 5 85:2894
	Anions by IC	(Soil)	J-Flags used
	Anions by IC	(Soil)	Result calculations based on MDL
	Anions by IC	(Soil)	U-Flags used
	Anions by IC	(Water)	J-Flags used
	Anions by IC	(Water)	Result calculations based on MDL
	Anions by IC	(Water)	U-Flags used
0909006-01	Anions by IC		Missing Bromide
0909006-01	Anions by IC		Missing Orthophosphate as PO4
0909006-02	Anions by IC		Missing Bromide
0909006-02	Anions by IC		Missing Orthophosphate as PO4
0909006-03	Anions by IC		Missing Bromide
0909006-03	Anions by IC		Missing Orthophosphate as PO4
0909006-04	Anions by IC		Missing Bromide
0909006-04	Anions by IC		Missing Orthophosphate as PO4

Sample, Log and Extraction Comments

0909006-01 **Anions by IC**	
0909006-02 **Anions by IC**	Split Sample
0909006-03 **Anions by IC**	Split Sample
0909006-04 **Anions by IC**	Split Sample
	Split Sample

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/1/2009 2:44:07PM**

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Oct-24-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-08-09 11:25
Logged In By: Chi Tang Date Logged In: Sep-08-09 11:45

Samples Received at	2.6°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909006-01 T27-150-1.0-3.0 [Soil] Sampled Sep-03-09 15:50 Eastern				**Split Sample**
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-10-09 14:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-17-09 14:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-17-09 14:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-02-10 14:50	
Anions by IC	Oct-24-09 12:00	45	Oct-01-09 14:50	
PCB by ASE	Oct-24-09 12:00	45	Sep-17-09 14:50	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-10-09 14:50	
0909006-02 T29-200-1.0-3.0 [Soil] Sampled Sep-04-09 10:20 Eastern				**Split Sample**
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 09:20	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-18-09 09:20	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 09:20	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 09:20	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 09:20	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 09:20	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 09:20	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 09:20	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 09:20	

WORK ORDER

Printed: 10/1/2009 2:44:07PM

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909006-03 T30-150-1.0-3.0 [Soil] Sampled Sep-04-09 11:40 Eastern				**Split Sample**
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 10:40	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 10:40	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 10:40	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-18-09 10:40	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 10:40	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 10:40	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 10:40	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 10:40	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 10:40	
0909006-04 T22-175-0.5-1.2 [Soil] Sampled Sep-04-09 13:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 12:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 12:50	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 12:50	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 12:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 12:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 12:50	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 12:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 12:50	

Reviewed By

Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 10/1/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Anna Aleszczyk, Chemist AA 10-1-09
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin OCT 0 1 2009 / /
Data Management Coordinator and Date Received

OCT 0 1 2009
Date Transmitted: ____/____/____

Analyses included in this report:

Anions by IC Anions by IC

The data are usable for the intended purpose of investigating whether high Chloride Solution had any effect on the other anions. Supported to the more nitrate & sulfate. Anna Aleszczyk also feel the IC analysis performed OK.
Brian O'Flaherty 10/6/09

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Oct-01-09 15:32

ANALYSIS CASE NARRATIVE - Anions by IC in Soil

Work order #: 0909014
Phone #: (312) 353-9467

General Information

Four soil samples were analyzed for Anions by IC (sulfate, nitrate, and chloride) on September 16 - 17, 2009. All holding times were met.

NOTE: All supporting data are archived with work order number 0909007.

Sample Analysis and Results

The samples were prepared and analyzed for Anions by IC in soil using CRL SOPs AIG039 Revision 03 and AIG045A Revision # 0.0, respectively. The samples were stored in the refrigerator at all times, except when in use.

Quality Control

Matrix Spike (MS)

The matrix spike (MS) recoveries of Nitrate, Sulfate and Chloride were outside the acceptance limit for sample 0909005-07. MS recoveries of anions in soil are generally low. However, the blank spike recoveries were all found to be within the CRL limits. The sample results were flagged accordingly for Nitrate and Sulfate. There may be some matrix interferences and the reported value may be biased low. If there are any other samples with the same matrix they should be flagged as well. The sample was diluted twenty fold for Chloride and the spike was diluted out. The spike concentration is not valid so no flags were used.

All other quality control audits were within CRL limits.

Signature Anna Aleszczyk, Date 10-1-09

AA 10-1-09
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T16-125-0.0-0.6	0909014-01	Soil	Sep-11-09 10:55	Sep-14-09 10:00
T23-150-1.0-3.0	0909014-02	Soil	Sep-11-09 15:00	Sep-14-09 10:00
T23-150-5.0-6.2	0909014-03	Soil	Sep-11-09 15:08	Sep-14-09 10:00
T26-175-1.0-2.6	0909014-04	Soil	Sep-11-09 17:00	Sep-14-09 10:00
T26-175-0.5-1.0	0909014-05	Soil	Sep-11-09 16:53	Sep-14-09 10:00

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: BASF Wyandotte, MI Sediments Project Number: 03043.0.05.023.02.1.5.0000 Project Manager: Brian Freeman	**Reported:** Oct-01-09 15:32

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T16-125-0.0-0.6 (0909014-01) Soil Sampled: Sep-11-09 10:55 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**99.9**		0.416	17.3	mg/kg dry	1	B909022	Sep-16-09	Sep-17-09
Nitrate - NO3	**U**	U	1.09	2.89	"	"	"	"	"
Sulfate as SO4	**6.62**		1.55	4.33	"	"	"	"	"

T23-150-1.0-3.0 (0909014-02) Soil Sampled: Sep-11-09 15:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**2460**		15.9	661	mg/kg dry	20	B909022	Sep-16-09	Sep-17-09
Nitrate - NO3	**U**	J, L, U	2.07	5.51	"	1	"	"	Sep-17-09
Sulfate as SO4	**184**	J, L	2.95	8.26	"	"	"	"	"

T23-150-5.0-6.2 (0909014-03) Soil Sampled: Sep-11-09 15:08 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**1500**		12.1	503	mg/kg dry	20	B909022	Sep-16-09	Sep-17-09
Nitrate - NO3	**U**	U	1.57	4.19	"	1	"	"	Sep-17-09
Sulfate as SO4	**17.8**		2.24	6.28	"	"	"	"	"

T26-175-1.0-2.6 (0909014-04) Soil Sampled: Sep-11-09 17:00 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**24.4**		0.483	20.1	mg/kg dry	1	B909022	Sep-16-09	Sep-17-09
Nitrate - NO3	**U**	U	1.26	3.36	"	"	"	"	"
Sulfate as SO4	**11.4**		1.80	5.03	"	"	"	"	"

T26-175-0.5-1.0 (0909014-05) Soil Sampled: Sep-11-09 16:53 Received: Sep-14-09 10:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**14.9**	J	0.482	20.1	mg/kg dry	1	B909022	Sep-16-09	Sep-17-09
Nitrate - NO3	**U**	U	1.26	3.35	"	"	"	"	"
Sulfate as SO4	**7.02**		1.79	5.02	"	"	"	"	"

AA 10-1-09

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/1/2009 2:45:03PM**

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: **RCRA, LCD, US EPA Region 5** **Project Manager:** **George Schupp**
Project: **BASF Wyandotte, MI Sediments** **Project Number:** **03043.0.05.023.02.1.5.0000**

Report To:
Brian Freeman
RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: (312) 353-6057
Fax: (312) 353-2001

Date Due: Oct-30-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-14-09 10:00
Logged In By: Chi Tang Date Logged In: Sep-14-09 11:58

Samples Received at	2.2°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909014-01 T16-125-0.0-0.6 [Soil] Sampled Sep-11-09 10:55 Eastern				**Split Sample**
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 09:55	2nd priority
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 09:55	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 09:55	6th priority
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 09:55	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 09:55	1st priority
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 09:55	5th priority
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 09:55	3rd pirority
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 09:55	
0909014-02 T23-150-1.0-3.0 [Soil] Sampled Sep-11-09 15:00 Eastern				**Split Sample**
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:00	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:00	

WORK ORDER

Printed: 10/1/2009 2:45:03PM

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909014-03 T23-150-5.0-6.2 [Soil] Sampled Sep-11-09 15:08 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:08	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:08	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:08	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:08	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:08	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:08	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:08	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:08	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:08	
0909014-04 T26-175-1.0-2.6 [Soil] Sampled Sep-11-09 17:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 16:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 16:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 16:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 16:00	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 16:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 16:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 16:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 16:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 16:00	
0909014-05 T26-175-0.5-1.0 [Soil] Sampled Sep-11-09 16:53 Eastern				**Split Sample**
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 15:53	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 15:53	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 15:53	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 15:53	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 15:53	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 15:53	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 15:53	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 15:53	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 15:53	

Reviewed By _____ Date _____

Sample, Log and Extraction Comments

0909014-01
Anions by IC

Split Sample
6th priority
6th priority

0909014-02
Anions by IC

Split Sample

0909014-03
Anions by IC

Split Sample

0909014-04
Anions by IC

Split Sample

0909014-05
Anions by IC

Split Sample

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 5.85.2894
	Anions by IC	(Soil)	J-Flags used
	Anions by IC	(Soil)	Result calculations based on MDL
	Anions by IC	(Soil)	U-Flags used
	Anions by IC	(Water)	J-Flags used
	Anions by IC	(Water)	Result calculations based on MDL
	Anions by IC	(Water)	U-Flags used
0909014-01	Anions by IC		Missing Bromide
0909014-01	Anions by IC		Missing Orthophosphate as PO4
0909014-02	Anions by IC		Missing Bromide
0909014-02	Anions by IC		Missing Orthophosphate as PO4
0909014-02	Anions by IC	Nitrate - NO3	L: The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
0909014-02	Anions by IC	Sulfate as SO4	L The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value
0909014-03	Anions by IC		Missing Bromide
0909014-03	Anions by IC		Missing Orthophosphate as PO4
0909014-04	Anions by IC		Missing Bromide
0909014-04	Anions by IC		Missing Orthophosphate as PO4
0909014-05	Anions by IC		Missing Bromide
0909014-05	Anions by IC		Missing Orthophosphate as PO4

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: 03043.0.05.023.02.1.5.0000	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:32

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

AA 10-1-09

Anna Aleszczyk, Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 10/1/2009

Subject: Review of Region 5 Data for BASF Wyandotte, MI Sediments

From: Anna Aleszczyk, Chemist AA 10-1-09
Region 5 Chicago Regional Laboratory

To: RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: BASF Wyandotte, MI Sediments

Sylvia Griffin OCT 01 2009
Data Management Coordinator and Date Received

Date Transmitted: OCT 01 2009

Analyses included in this report:

Anions by IC Anions by IC

The data are usable for their intended purpose. I have queried the analyst as to the possible effect of the large amt. of Cl⁻ present, whether that affected recovery of the SO4 and NO3. Anna claims the IC performed well on these samples.
Brian P. Freeman
10/6/09

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: T22-50-1.5-2.3	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:16

ANALYSIS CASE NARRATIVE - Anions by IC in Soil

Work order #: 0908021
Phone #: (312) 353-9467

General Information

One soil sample was analyzed for Anions by IC (sulfate, nitrate, and chloride) on September 14 - 15, 2009. All holding times were met.

NOTE: All supporting data are archived with work order number 0909007.

Sample Analysis and Results

The sample was prepared and analyzed for Anions by IC in soil using CRL SOPs AIG039 Revision 03 and AIG045A Revision # 0.0, respectively. The samples were stored in the refrigerator at all times, except when in use.

Quality Control

All quality control audits were within CRL limits.

Signature Anna Aleszczyk, Date 10-1-09

AA 10-1-09
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: T22-50-1.5-2.3	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T22-50-1.5-2.3	0908021-01	Soil	Aug-26-09 08:38	Aug-28-09 14:30

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 Chicago Regional Laboratory

T22-50-1.5-2.3 (0908021-01) Soil Sampled: Aug-26-09 08:38 Received: Aug-28-09 14:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloride	**725**		3.60	150	mg/kg wet	10	B909013	Sep-10-09	Sep-15-09
Nitrate - NO3	**1.40**	J	0.940	2.50	"	1	"	"	Sep-14-09
Sulfate as SO4	**14.2**		1 34	3.75	"	"	"	"	"

AA 10-1-09
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

RCRA, LCD, US EPA Region 5	Project: BASF Wyandotte, MI Sediments	
77 West Jackson Boulevard	Project Number: T22-50-1.5-2.3	**Reported:**
Chicago IL, 60604	Project Manager: Brian Freeman	Oct-01-09 15:16

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

AA 10-1-09
Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 5 85 2894
	Anions by IC	(Soil)	J-Flags used
	Anions by IC	(Soil)	Result calculations based on MDL
	Anions by IC	(Soil)	U-Flags used
	Anions by IC	(Water)	J-Flags used
	Anions by IC	(Water)	Result calculations based on MDL
	Anions by IC	(Water)	U-Flags used
0908021-01			No solids data
0908021-01	Anions by IC		Missing Bromide
0908021-01	Anions by IC		Missing Orthophosphate as PO4

Sample, Log and Extraction Comments

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/1/2009 2:43:00PM**

0908021

US EPA Region 5 Chicago Regional Laboratory

Client:	**RCRA, LCD, US EPA Region 5**	**Project Manager:**	**George Schupp**
Project:	**BASF Wyandotte, MI Sediments**	**Project Number:**	**T22-50-1.5-2.3**

Report To:

Brian Freeman	77 West Jackson Boulevard	Phone: (312) 353-6057
RCRA, LCD, US EPA Region 5	Chicago, IL 60604	Fax: (312) 353-2001

Date Due:	Oct-14-09 15:00 (45 day TAT)		
Received By:	Linda Telles	Date Received:	Aug-28-09 14:30
Logged In By:	Chi Tang	Date Logged In:	Aug-31-09 10:11

Samples Received at	**4.2°C**
Sample tags/labels	**Yes**
Seals Intact	**Yes**
Received on ice	**Yes**
Paperwork Included	**Yes**

Analysis	Due	TAT	Expires	Comments
0908021-01 T22-50-1.5-2.3 [Soil] Sampled Aug-26-09 08:38 Central				
Total % Dry Solids 105C	Sep-08-09 12:00	10	Sep-02-09 08:38	
Solids, Dry Weight	Oct-14-09 12:00	45	Sep-02-09 08:38	
Anions by IC	Oct-14-09 12:00	45	Sep-23-09 08:38	

Reviewed By Date

ANALYSIS SEQUENCE

9I17004

Instrument: IC 5

Calibnration ID: 9063001

Printed: 9/17/2009 2:30:50PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
9I17004-IBL1	QC	Inst Blank1		1				
9I17004-ICB1	QC	ICB1		2				
9I17004-ICV1	QC	ICV1		3		9091701		
B909022-BLK1	QC	BLK1/BLK1 no sand		4				
B909022-BS1	QC	BS1/BS1 no sand		5				
0909014-01	Anions by IC	T16-125-0.0-0.6	C	6				6th priority
0909014-02	Anions by IC	T23-150-1.0-3.0	B	7				
B909022-DUP1	QC	DUP1		8				
B909022-MS1	QC	MS1		9				
0909014-03	Anions by IC	T23-150-5.0-6.2	B	10				
0909014-04	Anions by IC	T26-175-1.0-2.6	B	11				
0909014-05	Anions by IC	T26-175-0.5-1.0	B	12				
9I17004-CCB1	QC	CCB1		13				
9I17004-CCV1	QC	CCV1		14		9091701		
9I17004-IBL2	QC	Inst Blank4		15				

Samples Loaded By Date

Data Processed By Date

QC SUMMARY FORM
FOR
WO NO.: 0909007, 0909014

CRL.SOP AIG045A Rev #0.0
Inorganic Analysis by
Ion Chromatography

BEGINNING 9/16/2009 Sequence: 2009SEPT16_CDR02

ICB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

ICV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	2.40	2.239	93.3
	Chloride	90-110	12.00	11.699	97.5
	Sulfate	90-110	60.00	60.579	101.0
	Bromide	90-110	4.50	4.313	95.8
	Nitrate	90-110	12.00	11.579	96.5
	O-Phosphate	90-110	18.00	17.007	94.5

BLK1 (NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	**ND**	**0.08**
	O-Phosphate	~	0.07

BS1 (NO SAND)	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~
	Chloride	**80-120**	**6.00**	**5.392**	**89.9**
	Sulfate	**80-120**	**30.00**	**28.268**	**94.2**
	Bromide	80-120	~	~	~
	Nitrate	**80-120**	**6.00**	**5.177**	**86.3**
	O-Phosphate	80-120	~	~	~

BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	**0.091**	**0.01**
	Chloride	~	0.02
	Sulfate	~	0.05
	Bromide	**ND**	**0.05**
	Nitrate	~	0.08
	O-Phosphate	**ND**	**0.07**

BS1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	**80-120**	**1.2**	**1.026**	**85.5**
	Chloride	80-120	~	~	~
	Sulfate	80-120	~	~	~
	Bromide	**80-120**	**2.25**	**1.991**	**88.5**
	Nitrate	80-120	~	~	~
	O-Phosphate	**80-120**	**9**	**7.605**	**84.5**

DUPLICATE 0909014-02	Anions	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	20	0.615	0.661	0.046	7.21
	Chloride	20	~	~	~	~
	Sulfate	20	17.250	18.602	1.352	7.54
	Bromide	20	0.198	0.213	0.015	7.30
	Nitrate	20	ND	ND	ND	ND
	O-Phosphate	20	ND	ND	ND	ND

SPIKE (MS) 0909014-02	Anions	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	80-120	1.2646	0.615	1.20	54.1
	Chloride	80-120	~	~	~	~
	Sulfate	80-120	37.314	17.250	30.00	66.9
	Bromide	80-120	1.794	0.198	2.25	70.9
	Nitrate	80-120	2.891	0	6.00	48.2
	O-Phosphate	80-120	0	0	9.00	0.0

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

QC SUMMARY FORM
FOR
WO NO.: 0909007, 0909014

CRL.SOP AIG045A Rev #0.0
Inorganic Analysis by
Ion Chromatography

CCV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	2.40	2.228	92.8
	Chloride	90-110	12.00	11.645	97.0
	Sulfate	90-110	60.00	60.386	100.6
	Bromide	90-110	4.50	4.291	95.4
	Nitrate	90-110	12.00	11.526	96.1
	O-Phosphate	90-110	18.00	16.988	94.4

Sequence: 2009SEPT16_CDR02
Operator: Aaleszc2
Printed: 9/17/2009 7:33:20 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 34

Created: 9/16/2009 3:27:21 PM by Aaleszc2
Last Update: 9/17/2009 7:32:18 AM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	STD1	Standard	4	25.0	Anions_AS18	default	Finished	6/15/2009 1:06:24 PM	1.0000	1.0000
2	STD2	Standard	5	25.0	Anions_AS18	default	Finished	6/15/2009 1:24:29 PM	1.0000	1.0000
3	STD3	Standard	6	25.0	Anions_AS18	default	Finished	6/15/2009 1:42:32 PM	1.0000	1.0000
4	STD4	Standard	7	25.0	Anions_AS18	default	Finished	6/15/2009 2:00:37 PM	1.0000	1.0000
5	STD5	Standard	8	25.0	Anions_AS18	default	Finished	6/15/2009 2:18:41 PM	1.0000	1.0000
6	STD6	Standard	9	25.0	Anions_AS18	default	Finished	6/15/2009 2:36:45 PM	1.0000	1.0000
7	STD7	Standard	10	25.0	Anions_AS18	default	Finished	6/15/2009 2:54:49 PM	1.0000	1.0000
8	STD8	Standard	11	25.0	Anions_AS18	default	Finished	6/15/2009 3:12:54 PM	1.0000	1.0000
9	STD9	Standard	12	25.0	Anions_AS18	default	Finished	6/15/2009 3:30:59 PM	1.0000	1.0000
10	STD10	Standard	13	25.0	Anions_AS18	default	Finished	6/15/2009 3:49:03 PM	1.0000	1.0000
11	Inst Blank1	Unknown	28	25.0	Anions_AS18	default	Finished	9/16/2009 8:04:11 PM	1.0000	1.0000
12	ICB1	Unknown	29	25.0	Anions_AS18	default	Finished	9/16/2009 8:22:40 PM	1.0000	1.0000
13	ICV1	Unknown	30	25.0	Anions_AS18	default	Finished	9/16/2009 8:41:08 PM	1.0000	1.0000
14	BLK1 no sand	Unknown	31	25.0	Anions_AS18	default	Finished	9/16/2009 8:59:37 PM	1.0000	1.0000
15	BS1 no sand	Unknown	32	25.0	Anions_AS18	default	Finished	9/16/2009 9:18:06 PM	1.0000	1.0000
16	BLK1	Unknown	33	25.0	Anions_AS18	default	Finished	9/16/2009 9:36:34 PM	1.0000	1.0000
17	BS1	Unknown	34	25.0	Anions_AS18	default	Finished	9/16/2009 9:55:03 PM	1.0000	1.0000
18	0909007-05 no sand	Unknown	35	25.0	Anions_AS18	default	Finished	9/16/2009 10:13:31 PM	1.0000	1.0000
19	0909007-06 no sand	Unknown	36	25.0	Anions_AS18	default	Finished	9/16/2009 10:31:59 PM	1.0000	1.0000
20	0909007-07 no sand	Unknown	37	25.0	Anions_AS18	default	Finished	9/16/2009 10:50:27 PM	1.0000	1.0000
21	0909007-08 no sand	Unknown	38	25.0	Anions_AS18	default	Finished	9/16/2009 11:08:56 PM	1.0000	1.0000
22	0909007-09 no sand	Unknown	39	25.0	Anions_AS18	default	Finished	9/16/2009 11:27:24 PM	1.0000	1.0000
23	0909007-10 no sand	Unknown	40	25.0	Anions_AS18	default	Finished	9/16/2009 11:45:52 PM	1.0000	1.0000
24	0909007-11 no sand	Unknown	41	25.0	Anions_AS18	default	Finished	9/17/2009 12:04:20 AM	1.0000	1.0000
25	0909014-01	Unknown	42	25.0	Anions_AS18	default	Finished	9/17/2009 12:22:49 AM	1.0000	1.0000
26	0909014-02	Unknown	43	25.0	Anions_AS18	default	Finished	9/17/2009 12:41:17 AM	1.0000	1.0000
27	DUP1	Unknown	44	25.0	Anions_AS18	default	Finished	9/17/2009 12:59:46 AM	1.0000	1.0000
28	MS1	Unknown	45	25.0	Anions_AS18	default	Finished	9/17/2009 1:18:15 AM	1.0000	1.0000
29	0909014-03	Unknown	46	25.0	Anions_AS18	default	Finished	9/17/2009 1:36:43 AM	1.0000	1.0000
30	0909014-04	Unknown	47	25.0	Anions_AS18	default	Finished	9/17/2009 1:55:11 AM	1.0000	1.0000
31	0909014-05	Unknown	48	25.0	Anions_AS18	default	Finished	9/17/2009 2:13:39 AM	1.0000	1.0000
32	CCB1	Unknown	49	25.0	Anions_AS18	default	Finished	9/17/2009 2:32:08 AM	1.0000	1.0000
33	CCV1	Unknown	50	25.0	Anions_AS18	default	Finished	9/17/2009 2:50:36 AM	1.0000	1.0000
34	Inst Blank4	Unknown	51	25.0	Anions_AS18	default	Finished	9/17/2009 3:09:04 AM	1.0000	1.0000

Sequence: 2009SEPT16_CDR02
Operator: Aaleszc2
Printed: 9/17/2009 7:33:20 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 34
Created: 9/16/2009 3:27:21 PM by Aaleszc2
Last Update: 9/17/2009 7:32:18 AM by Aaleszc2

No.	Name	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000	01		
2	STD2	1.0000	01		
3	STD3	1.0000	01		
4	STD4	1.0000	01		
5	STD5	1.0000	01		
6	STD6	1.0000	01		
7	STD7	1.0000	01		
8	STD8	1.0000	01		
9	STD9	1.0000	01		
10	STD10	1.0000	01		
11	Inst Blank1	1.0000	01		
12	ICB1	1.0000	01		
13	ICV1	1.0000	01		
14	BLK1 no sand	1.0000	01		
15	BS1 no sand	1.0000	01		
16	BLK1	1.0000	01		
17	BS1	1.0000	01		
18	0909007-05 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
19	0909007-06 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
20	0909007-07 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
21	0909007-08 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
22	0909007-09 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
23	0909007-10 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
24	0909007-11 no sand	1.0000	01		MDL-1 (Chloride, Sulfate, & Nitrate)
25	0909014-01	1.0000	01		
26	0909014-02	1.0000	01		
27	DUP1	1.0000	01		
28	MS1	1.0000	01		
29	0909014-03	1.0000	01		
30	0909014-04	1.0000	01		
31	0909014-05	1.0000	01		
32	CCB1	1.0000	01		
33	CCV1	1.0000	01		
34	Inst Blank4	1.0000	01		

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
          Sampler.AcquireExclusiveAccess
          Sample_Injector_Valve.Position =
          Column_TC.AcquireExclusiveAccess
          Compartment_TC.AcquireExclusiveAccess
          Flush                                   Volume = 2
          Pressure.LowerLimit =                   200 [psi]
          Pressure.UpperLimit =                   600 [psi]
          MaximumFlowPump =                       .00 [mL/m
          EA.Source =                             "Ram"
           R_TC =                                 [illegible]
           [illegible]                            [illegible]State
          Cat-[illegible]_Rate                    [illegible] [illegible]
          Temperature_Compensation =              [illegible]
          CellHeater.TemperatureSet               [illegible] [°C]
          Suppressor1.Type =                      [illegible]_4mm
          Current_Set =                           [illegible] [mA]
          Concentration =                         2.[illegible] [mM]
          Add_1.Type =
          Flow                                    1.0[illegible] [mL/[illegible]
          Pump_1.Type =
           Need_Reinj =                           [illegible] [mL]
          Current_Volume                          [illegible]
          Syringe-Speed
          Volume                                  [illegible]
          CellHeaterTemperature =                 False
          CellHeater.Mode                         On
          Suppressor1.Calibration =               .0
          Suppressor1.Bromide =                   [illegible]
          Suppressor1.Hydroxide =                 [illegible]
          Suppressor1.Tetrabo[illegible] =        [illegible]
          Suppressor1.Other[illegible] =          [illegible]
          Suppressor1.Recommended_Current =                    [illegible]
          Wait                                    SampleRead

0.010     Det1.Autozero
          Load
          Wait                                    [illegible]eTimeS[illegible]e
          Inject
          Wait                                    [illegible]ectStat[illegible]
          Co_1.Trigger
          Sampler.ReleaseExclusiveAccess

1.000     TD_1.Trigoff
          Compartment_TC.ReleaseExclusiveAccess
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
Co  m_T3.Peres eExclusiveAccess
End
```

Program File:	Anions_AS18	Printed: 9/17/2009 7:33:21 AM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:38:58 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	1.000	Inhibit Integration	Off	All Channels

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.100 AG	External	Area	LOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.100 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.400 min	0.300 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.100 min	4.000000	8.000000					
5	Nitrate	8.400 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.100 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.400 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.100 min			
5	Nitrate	8.400 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*4*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*6/15/2009 1:06:24 P*	
2	☒	STD2	2	5	25.0	1.0000	1.0000	1.0000	6/15/2009 1:24:29 P	
3	☒	STD3	3	6	25.0	1.0000	1.0000	1.0000	6/15/2009 1:42:32 P	
4	☒	STD4	4	7	25.0	1.0000	1.0000	1.0000	6/15/2009 2:00:37 P	
5	☒	STD5	5	8	25.0	1.0000	1.0000	1.0000	6/15/2009 2:18:41 P	
6	☒	STD6	6	9	25.0	1.0000	1.0000	1.0000	6/15/2009 2:36:45 P	
7	☒	STD7	7	10	25.0	1.0000	1.0000	1.0000	6/15/2009 2:54:49 P	
8	☒	STD8	8	11	25.0	1.0000	1.0000	1.0000	6/15/2009 3:12:54 P	
9	☒	STD9	9	12	25.0	1.0000	1.0000	1.0000	6/15/2009 3:30:59 P	
10	☒	STD1	10	13	25.0	1.0000	1.0000	1.0000	6/15/2009 3:49:03 P	

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib. Comment
1	☒	*STD1*	*Ok*
2	☒	STD2	Ok
3	☒	STD3	Ok
4	☒	STD4	Ok
5	☒	STD5	Ok
6	☒	STD6	Ok
7	☒	STD7	Ok
8	☒	STD8	Ok
9	☒	STD9	Ok
10	☒	STD1	Ok

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

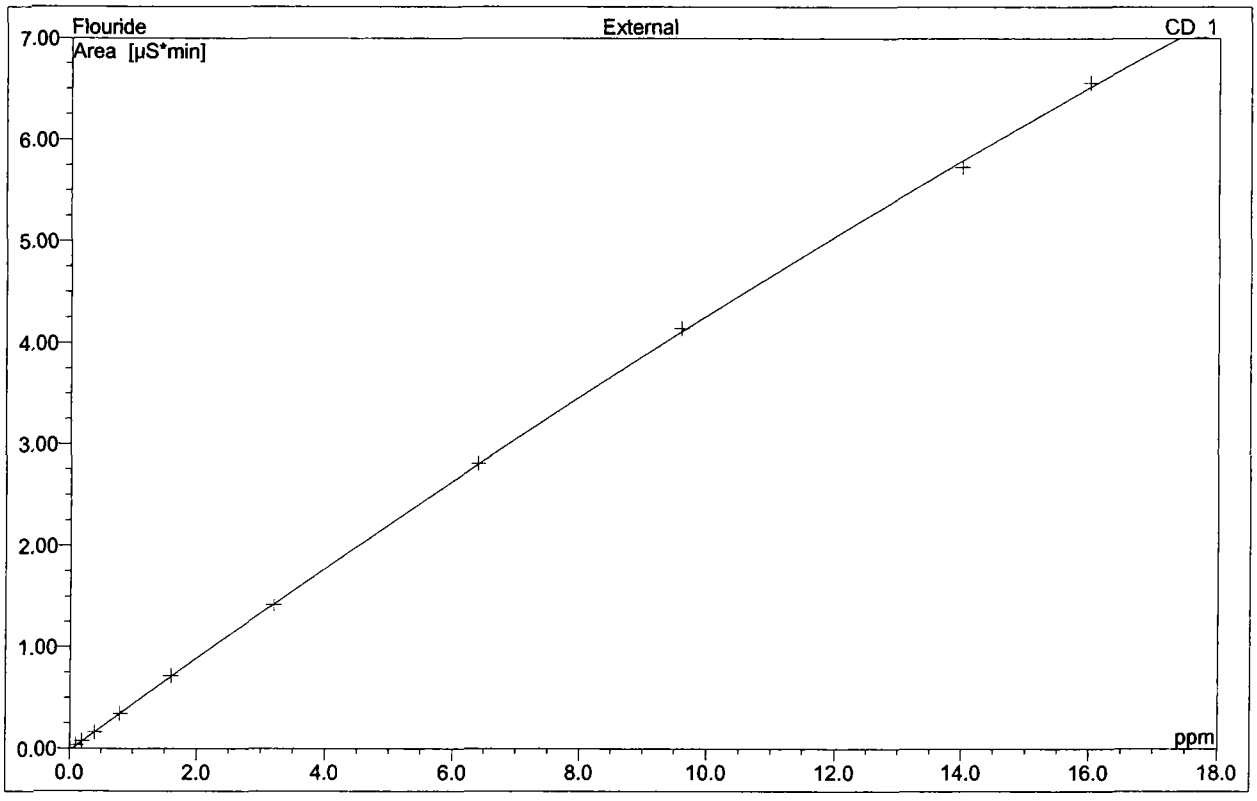
Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT16_CDR02.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

6 STD6

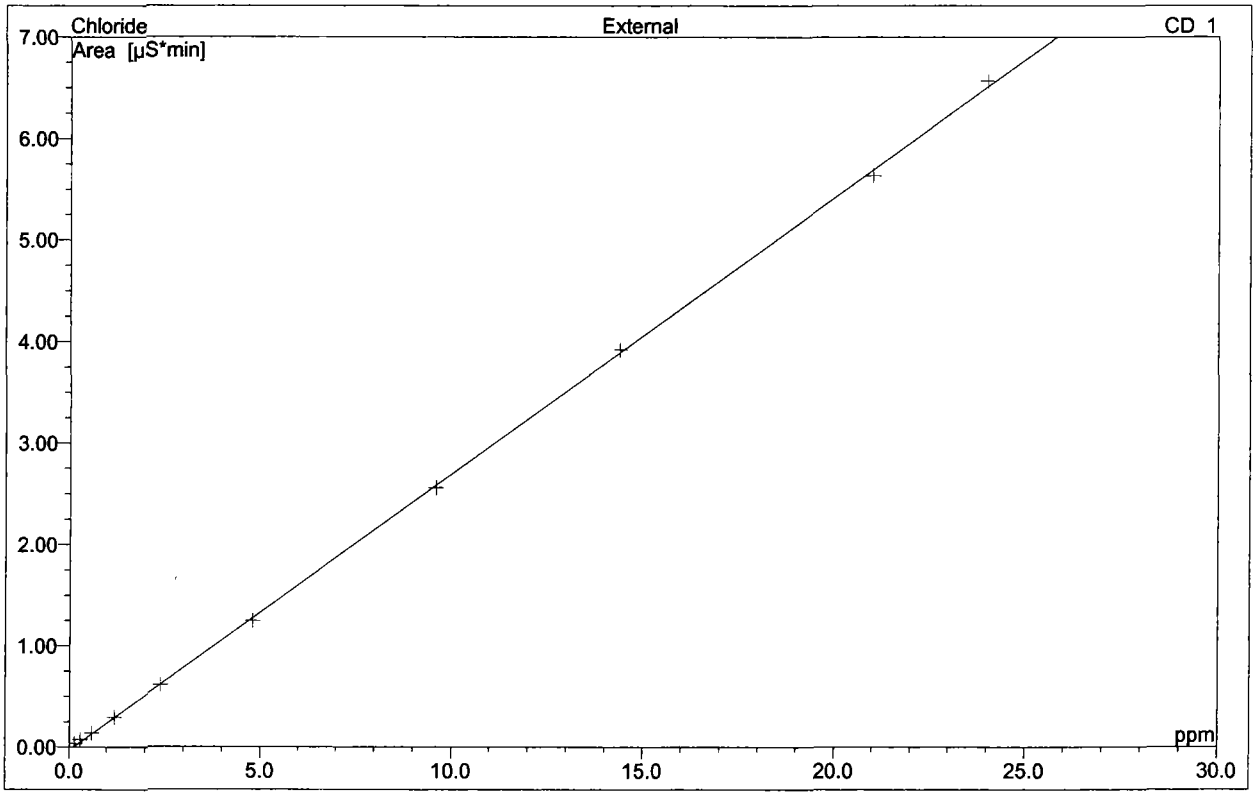
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

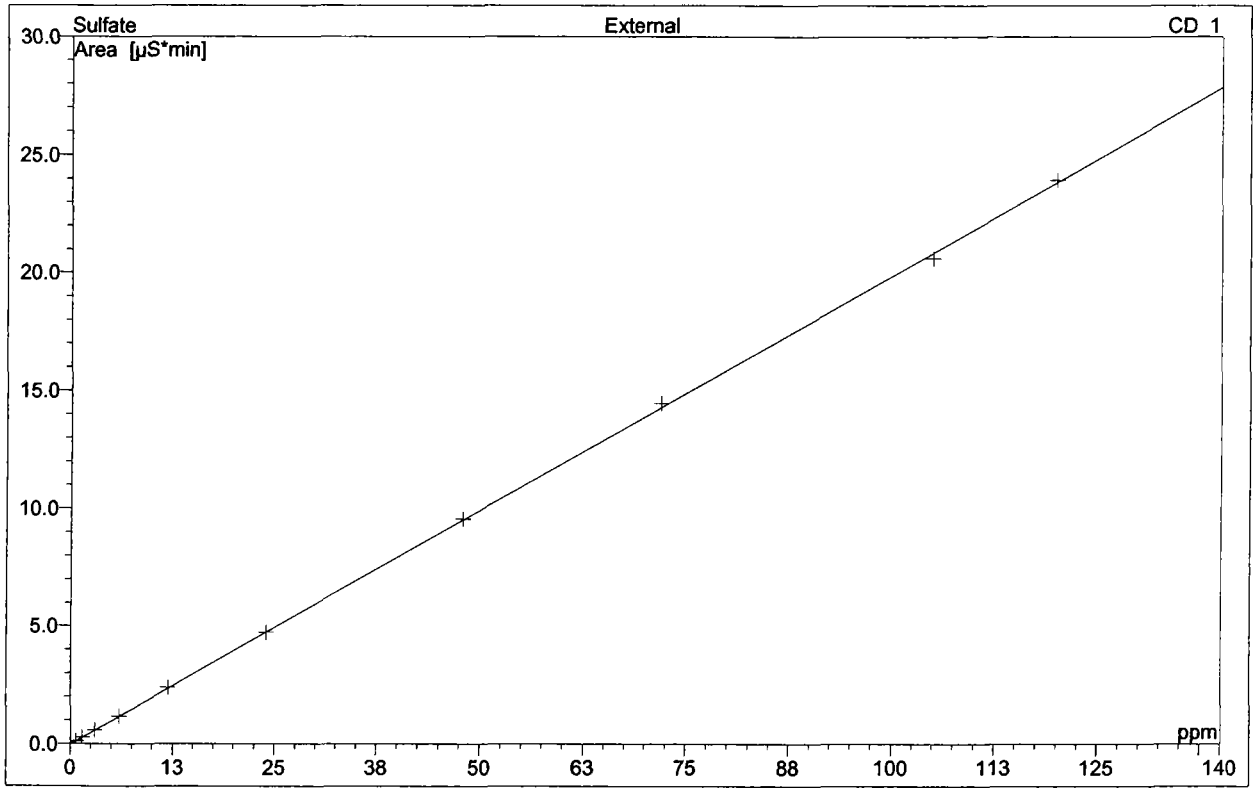
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

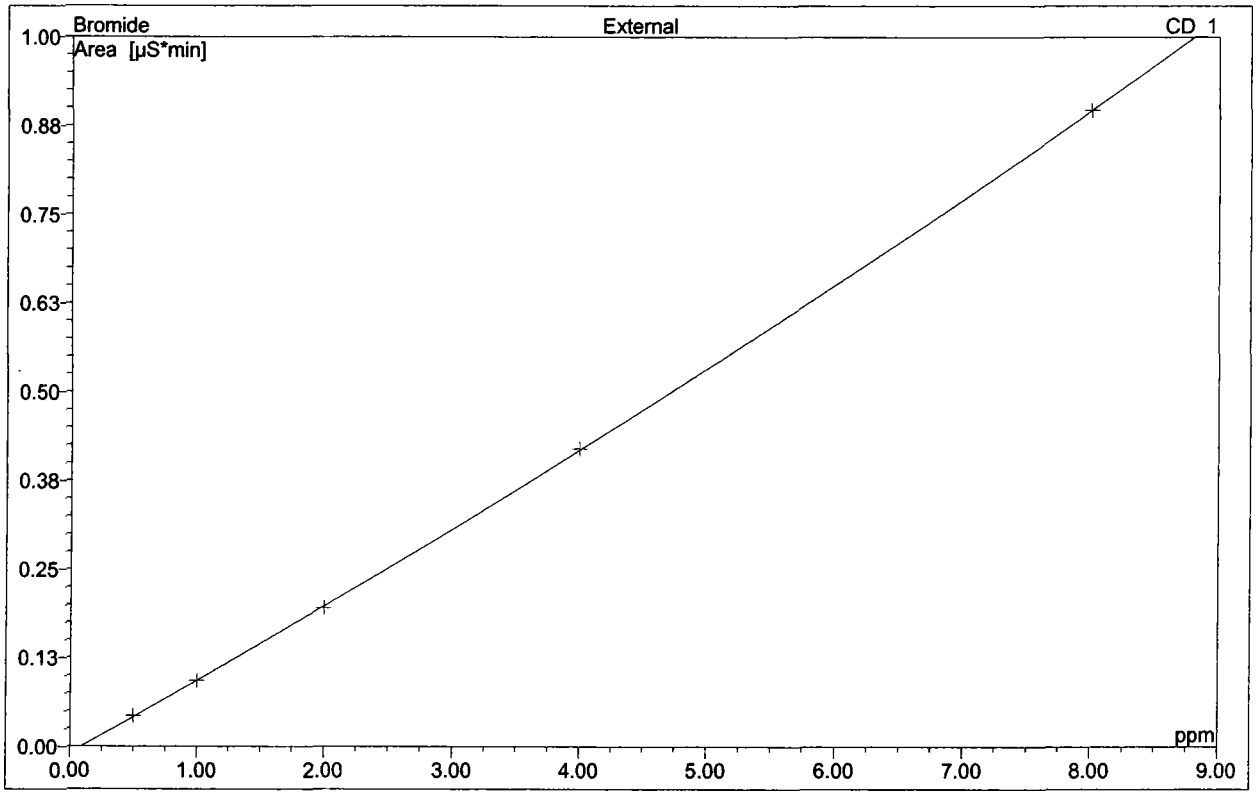
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

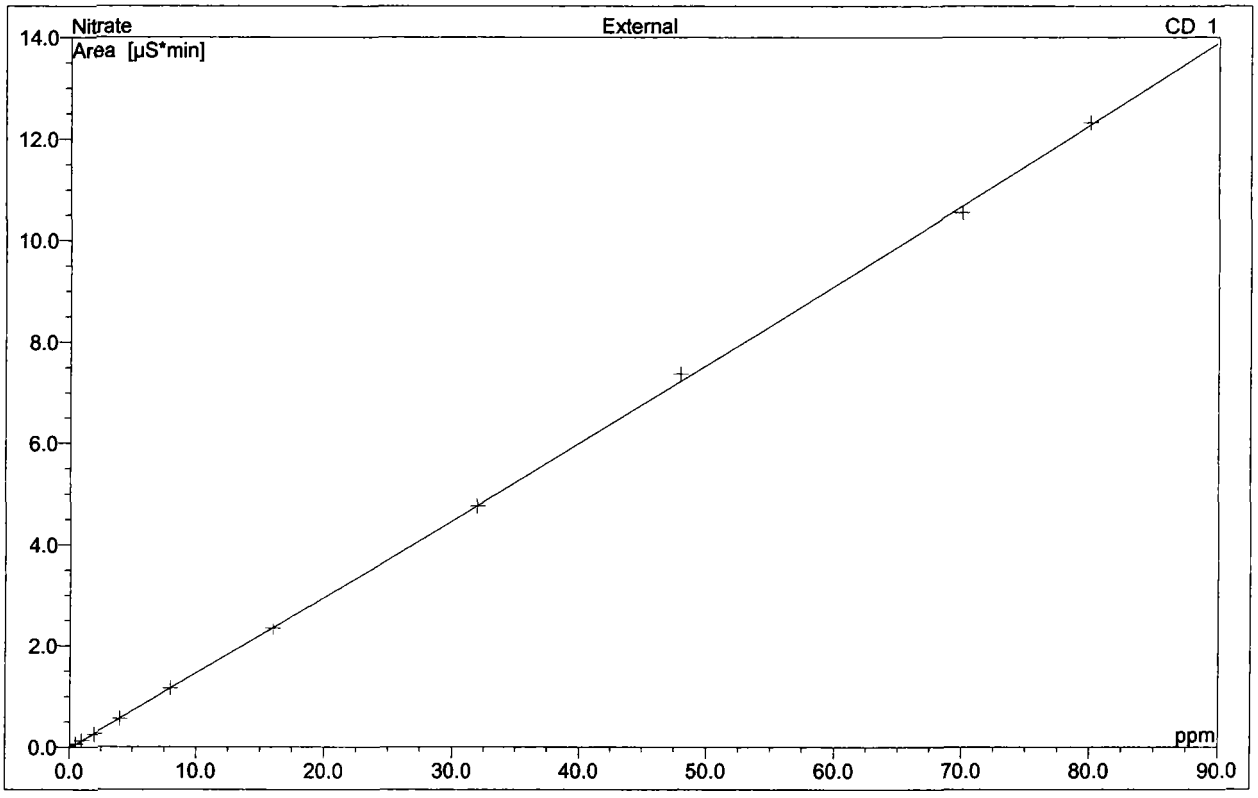
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

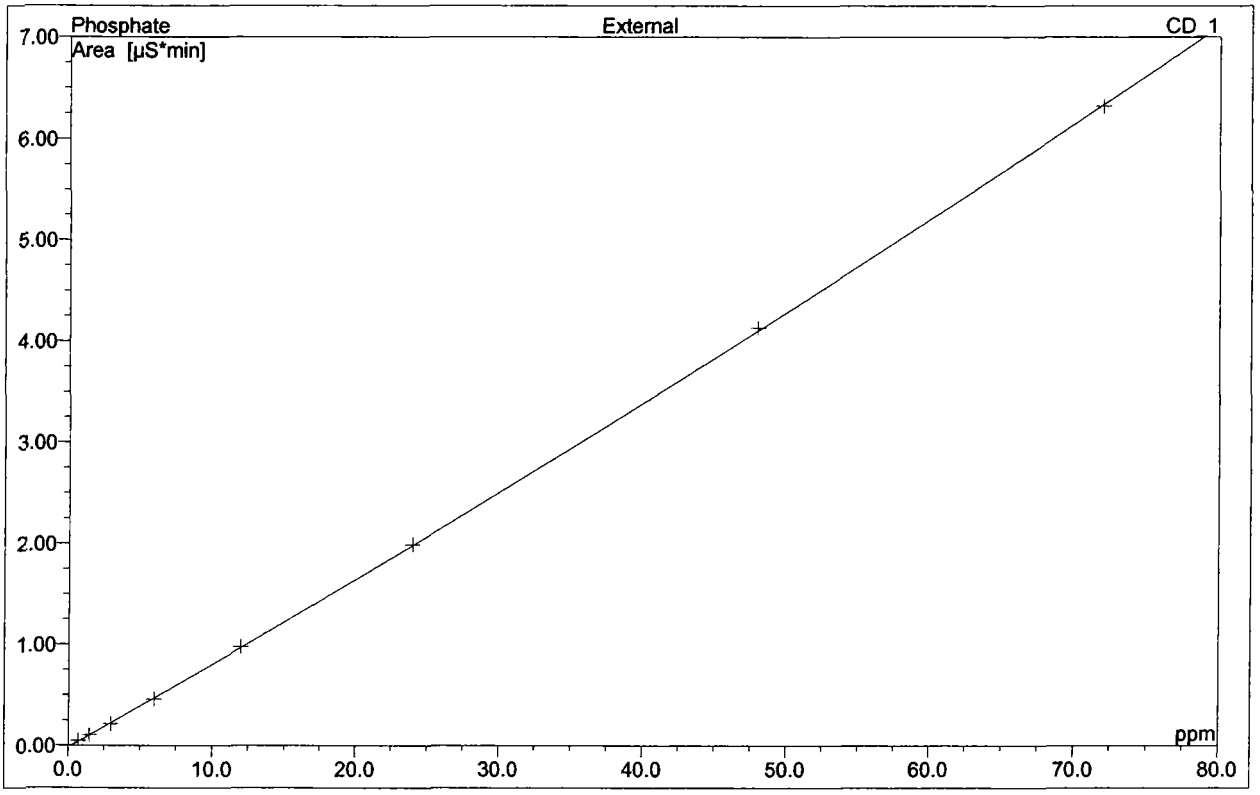
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

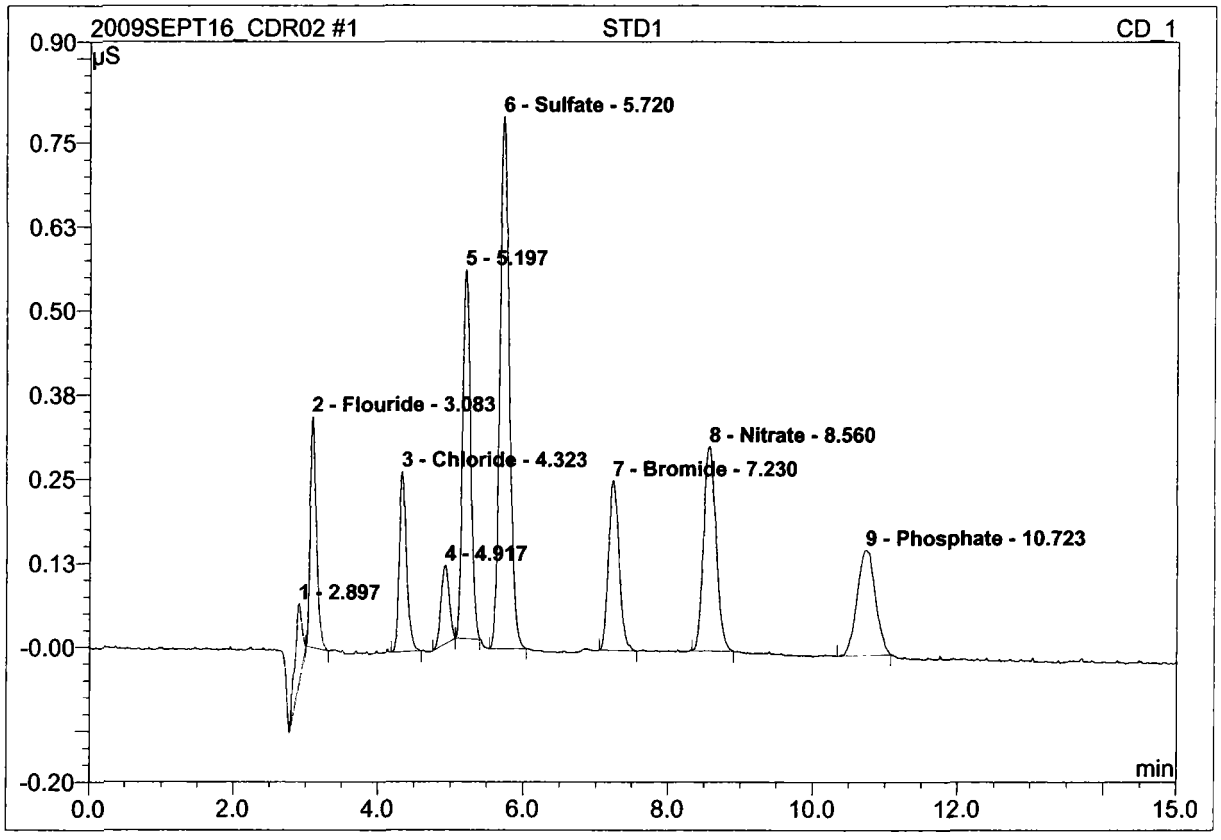
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

1 STD1

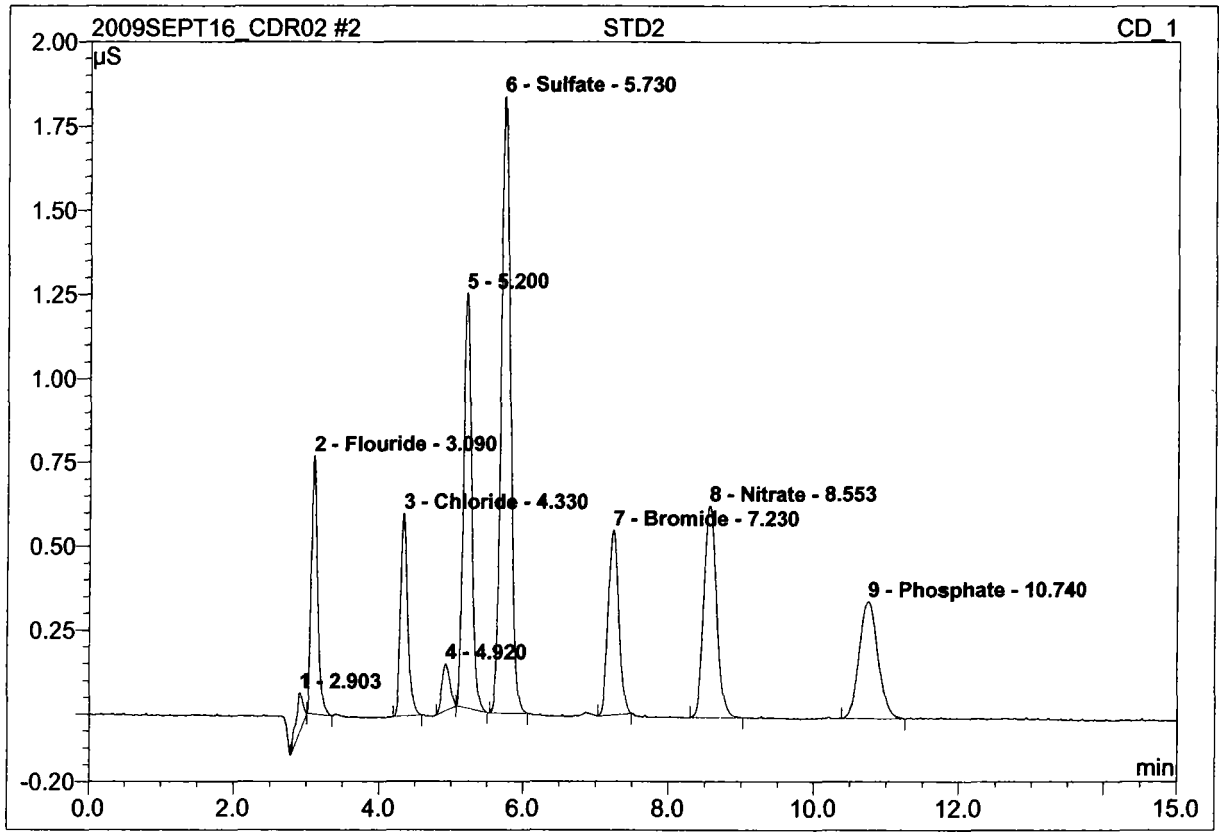
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.123	0.013	3.06	n.a.	BMB
2	3.08	Flouride	0.344	0.034	7.77	0.113	bMB
3	4.32	Chloride	0.269	0.032	7.30	0.233	BMB
4	4.92	n.a.	0.118	0.016	3.59	n.a.	BMB
5	5.20	n.a.	0.549	0.071	16.18	n.a.	BMB
6	5.72	Sulfate	0.792	0.121	27.63	0.736	BMB
7	7.23	Bromide	0.252	0.043	9.90	0.516	BMB
8	8.56	Nitrate	0.304	0.061	14.02	0.543	BMB
9	10.72	Phosphate	0.157	0.046	10.56	0.794	BMB
Total:			2.908	0.436	100.00	2.935	

2 STD2

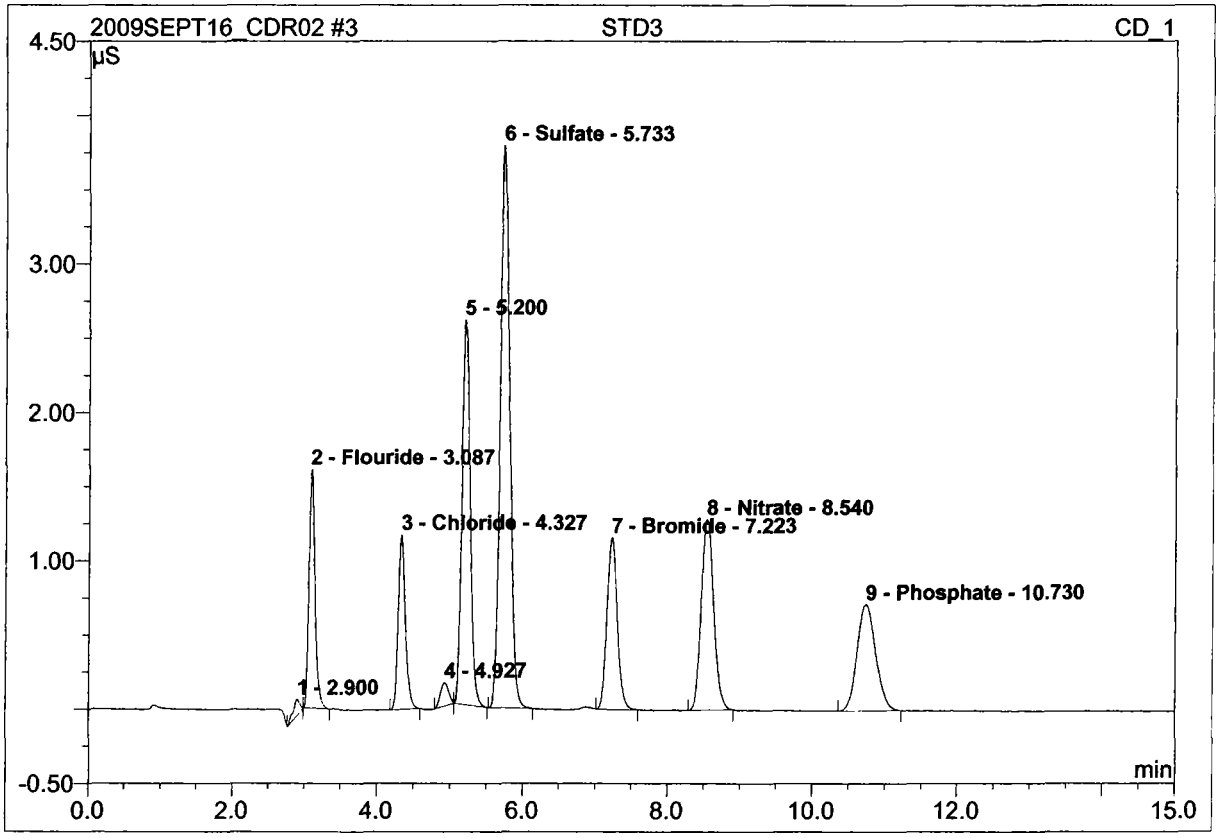
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.116	0.012	1.33	n.a.	BMB
2	3.09	Flouride	0.769	0.076	8.07	0.204	bMB
3	4.33	Chloride	0.605	0.071	7.51	0.374	BMB
4	4.92	n.a.	0.139	0.018	1.90	n.a.	BMB
5	5.20	n.a.	1.236	0.161	17.18	n.a.	BMB
6	5.73	Sulfate	1.835	0.277	29.49	1.521	BMB
7	7.23	Bromide	0.550	0.092	9.85	0.995	BMB
8	8.55	Nitrate	0.631	0.128	13.59	0.994	BMB
9	10.74	Phosphate	0.348	0.104	11.08	1.506	BMB
Total:			6.230	0.938	100.00	5.595	

3 STD3

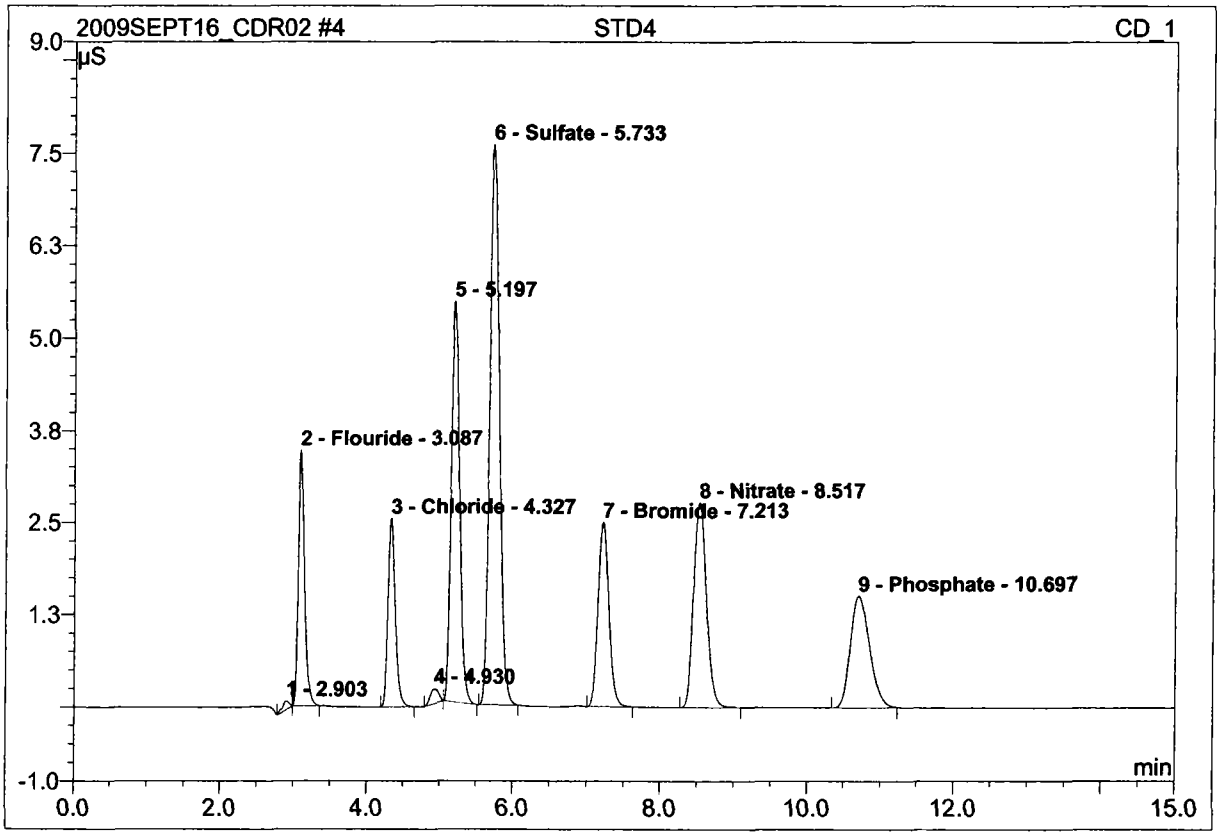
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.63	n.a.	BMB
2	3.09	Flouride	1.612	0.159	8.32	0.384	bMB
3	4.33	Chloride	1.180	0.136	7.15	0.616	BMB
4	4.93	n.a.	0.157	0.020	1.06	n.a.	BMB
5	5.20	n.a.	2.596	0.339	17.79	n.a.	BMB
6	5.73	Sulfate	3.792	0.574	30.11	3.016	BMB
7	7.22	Bromide	1.159	0.195	10.25	1.975	BMB
8	8.54	Nitrate	1.288	0.257	13.49	1.874	BMB
9	10.73	Phosphate	0.718	0.214	11.20	2.851	BMB
Total:			12.617	1.907	100.00	10.716	

4 STD4

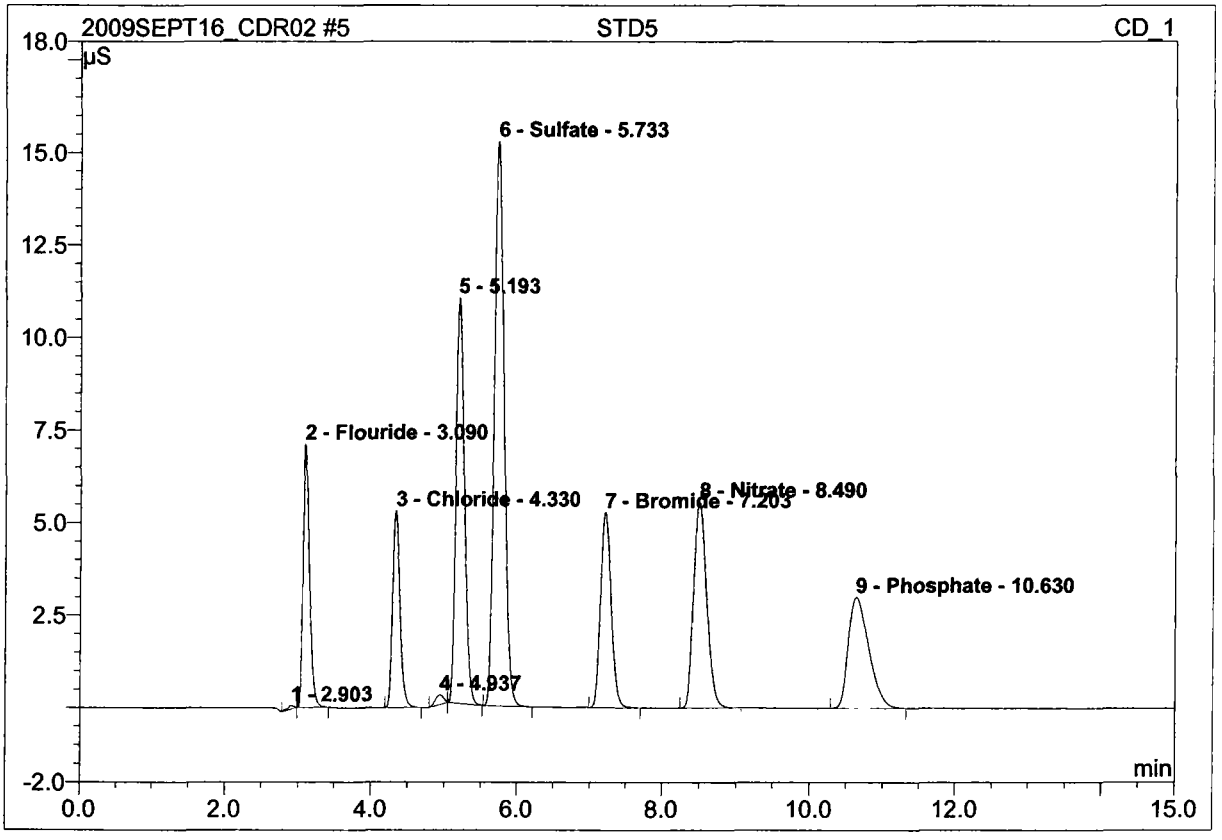
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.30	n.a.	BMB
2	3.09	Flouride	3.463	0.343	8.59	0.786	bMB
3	4.33	Chloride	2.554	0.295	7.38	1.196	BMB
4	4.93	n.a.	0.203	0.026	0.66	n.a.	BMB
5	5.20	n.a.	5.432	0.718	17.99	n.a.	BMB
6	5.73	Sulfate	7.589	1.158	29.03	5.952	BMB
7	7.21	Bromide	2.496	0.420	10.52	4.016	BMB
8	8.52	Nitrate	2.776	0.561	14.06	3.934	BMB
9	10.70	Phosphate	1.511	0.457	11.46	5.828	BMB
Total:			26.138	3.990	100.00	21.713	

5 STD5

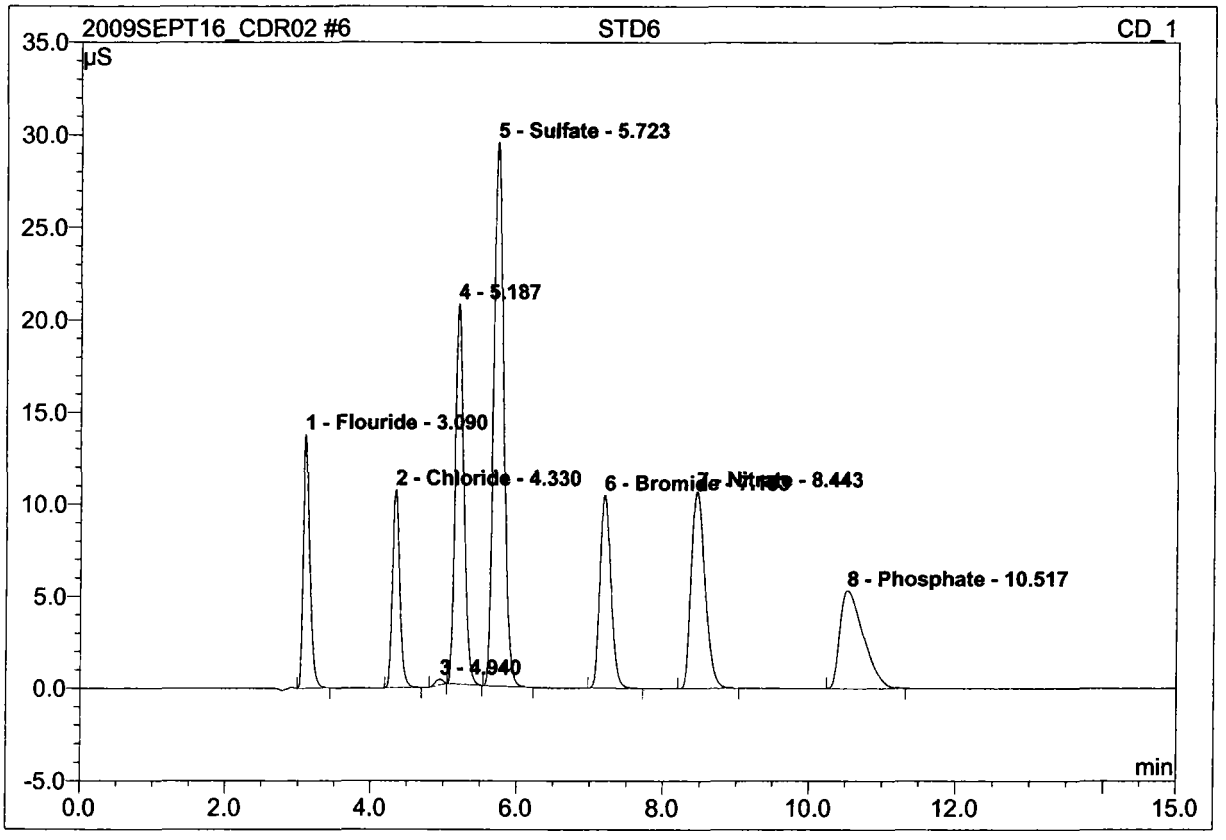
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.098	0.010	0.12	n.a.	BMB
2	3.09	Flouride	7.120	0.716	8.66	1.606	BMB
3	4.33	Chloride	5.325	0.614	7.43	2.367	BMB
4	4.94	n.a.	0.265	0.034	0.41	n.a.	BMB
5	5.19	n.a.	10.966	1.485	17.97	n.a.	BMB
6	5.73	Sulfate	15.266	2.376	28.75	12.073	BMB
7	7.20	Bromide	5.279	0.897	10.85	7.998	BMB
8	8.49	Nitrate	5.569	1.157	13.99	7.959	BMB
9	10.63	Phosphate	3.001	0.978	11.82	12.105	BMB
Total:			52.889	8.267	100.00	44.108	

6 STD6

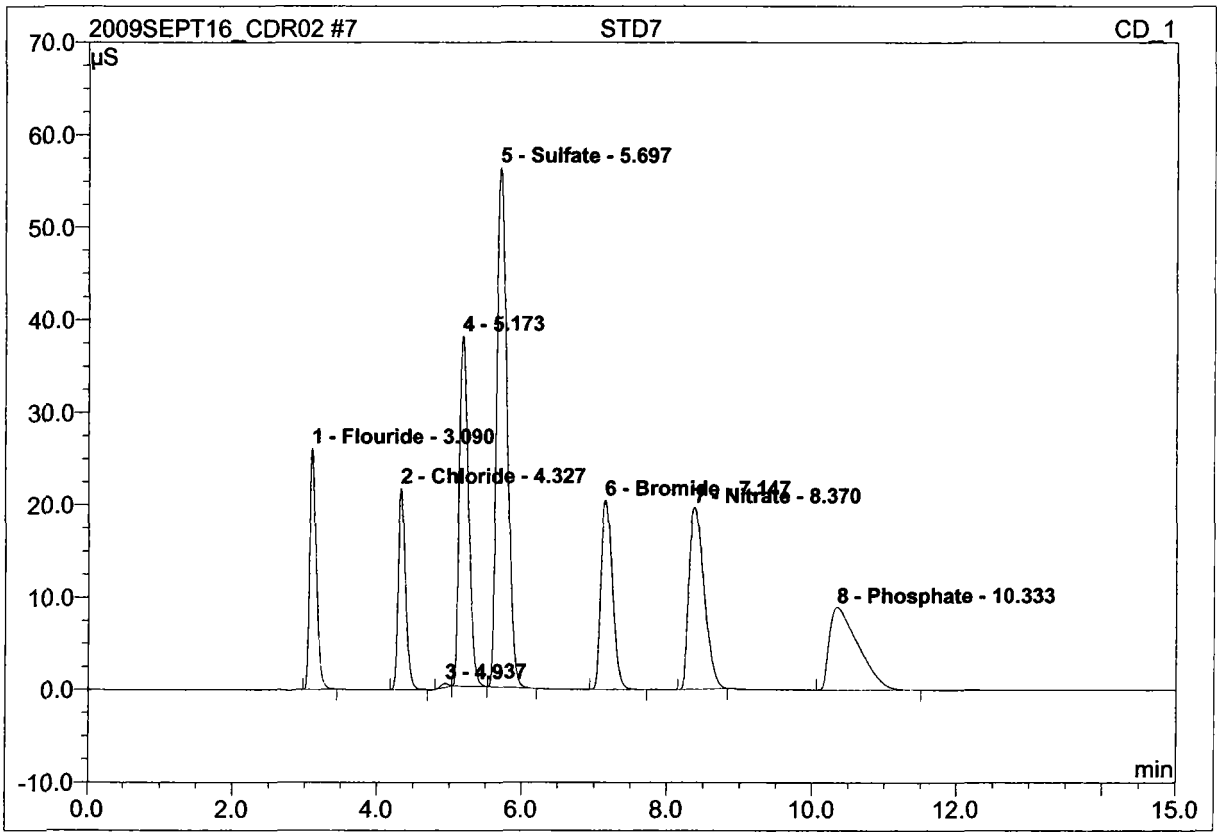
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	13.795	1.424	8.62	3.191	BMB
2	4.33	Chloride	10.749	1.246	7.55	4.686	BMB
3	4.94	n.a.	0.325	0.041	0.25	n.a.	BMB
4	5.19	n.a.	20.661	2.903	17.58	n.a.	BMB
5	5.72	Sulfate	29.488	4.732	28.65	23.910	BMB
6	7.18	Bromide	10.490	1.828	11.07	14.776	BMB
7	8.44	Nitrate	10.683	2.348	14.22	15.957	BMB
8	10.52	Phosphate	5.326	1.992	12.06	24.077	BMB
Total:			101.517	16.513	100.00	86.597	

7 STD7

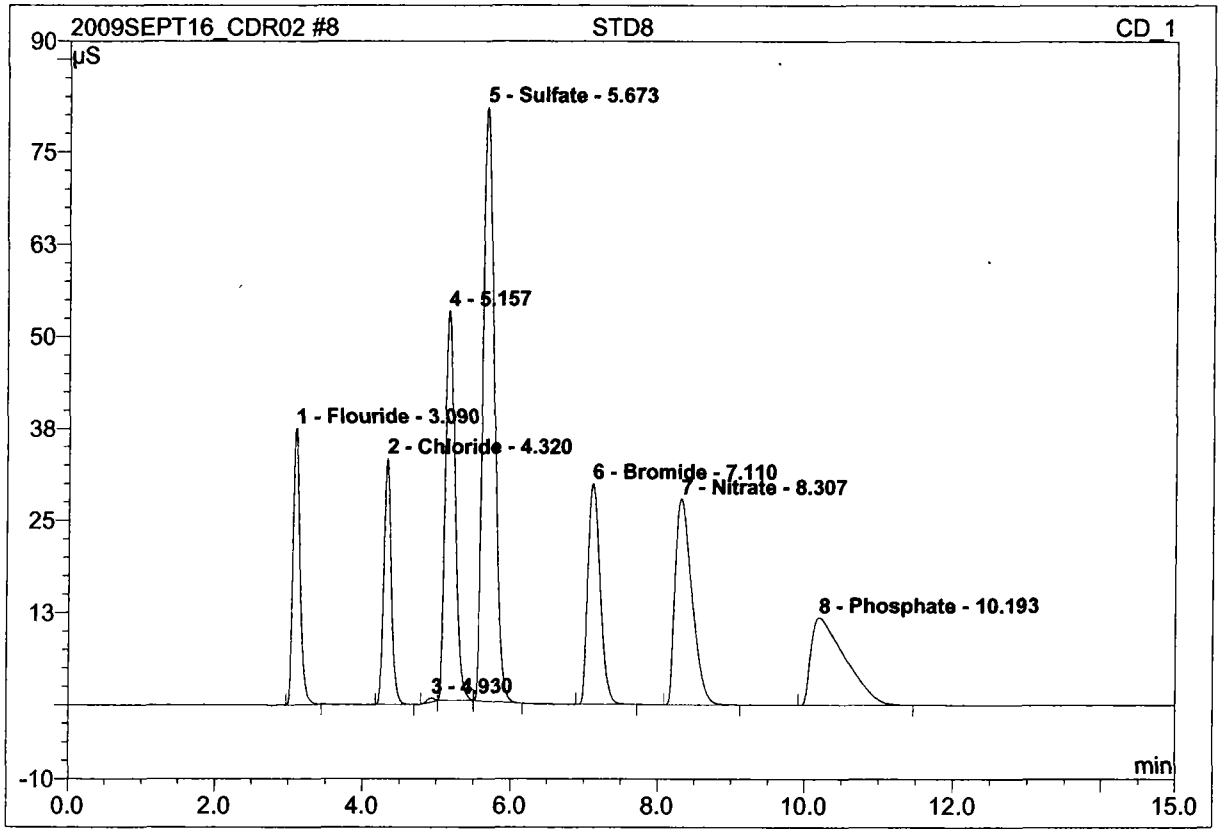
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	26.188	2.809	8.45	6.410	BMB
2	4.33	Chloride	21.884	2.560	7.70	9.503	BMB
3	4.94	n.a.	0.442	0.054	0.16	n.a.	BMb
4	5.17	n.a.	37.903	5.624	16.92	n.a.	bMB
5	5.70	Sulfate	56.252	9.544	28.71	48.091	BMB
6	7.15	Bromide	20.518	3.758	11.31	26.313	BMB
7	8.37	Nitrate	19.724	4.761	14.32	31.929	BMB
8	10.33	Phosphate	8.962	4.131	12.43	48.290	BMB
Total:			191.872	33.240	100.00	170.537	

8 STD8

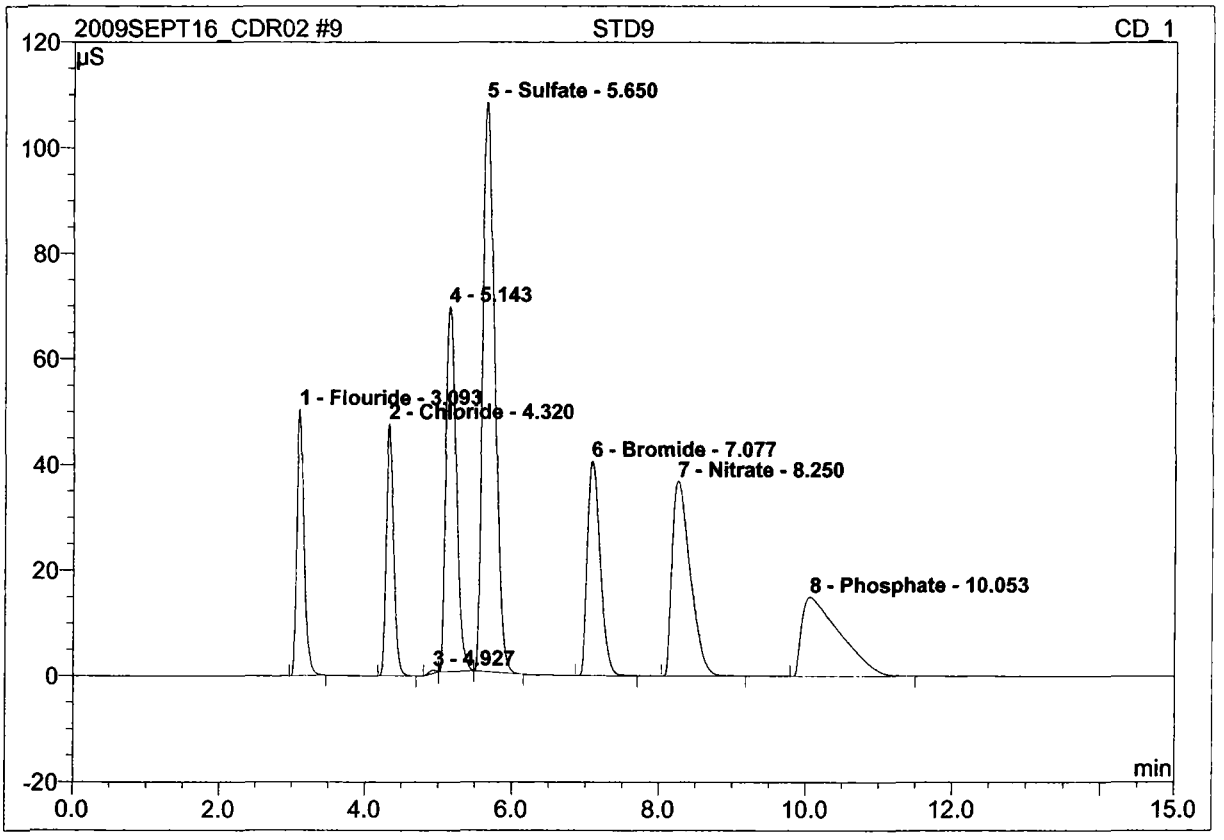
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	37.554	4.142	8.24	9.673	BMB
2	4.32	Chloride	33.384	3.921	7.80	14.496	BMB
3	4.93	n.a.	0.530	0.064	0.13	n.a.	BMB
4	5.16	n.a.	52.932	8.218	16.36	n.a.	bMB
5	5.67	Sulfate	80.582	14.462	28.78	72.806	BMB
6	7.11	Bromide	29.910	5.751	11.45	36.168	BMB
7	8.31	Nitrate	27.925	7.370	14.67	48.897	BMB
8	10.19	Phosphate	11.912	6.320	12.58	71.795	BMB
Total:			274.730	50.248	100.00	253.834	

9 STD9

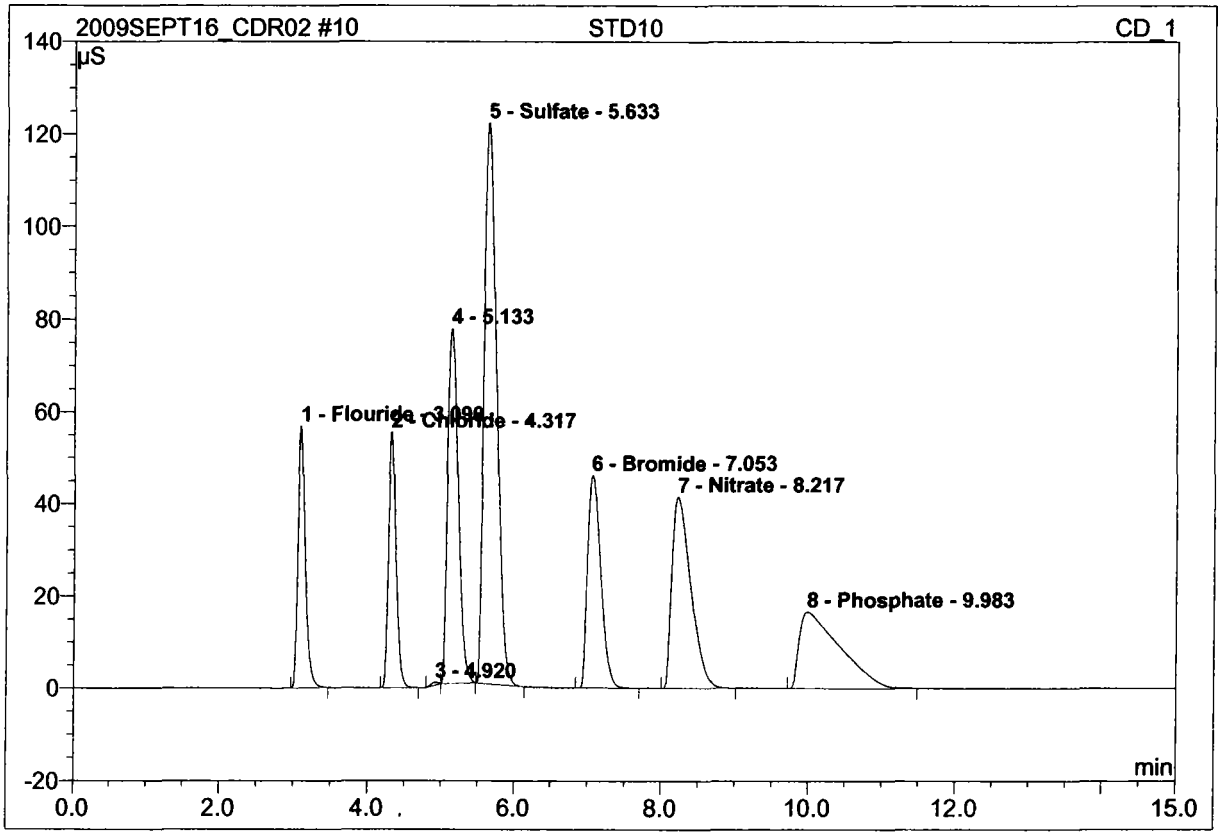
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	50.452	5.732	8.05	13.823	BMB
2	4.32	Chloride	47.792	5.636	7.91	20.783	BMB
3	4.93	n.a.	0.589	0.068	0.10	n.a.	BMb
4	5.14	n.a.	69.145	11.267	15.82	n.a.	bMb
5	5.65	Sulfate	107.896	20.610	28.93	103.704	bMB
6	7.08	Bromide	40.639	8.261	11.60	46.818	BMB
7	8.25	Nitrate	36.876	10.550	14.81	69.159	BMB
8	10.05	Phosphate	15.071	9.107	12.78	100.125	BMB
Total:			368.461	71.232	100.00	354.413	

10 STD10

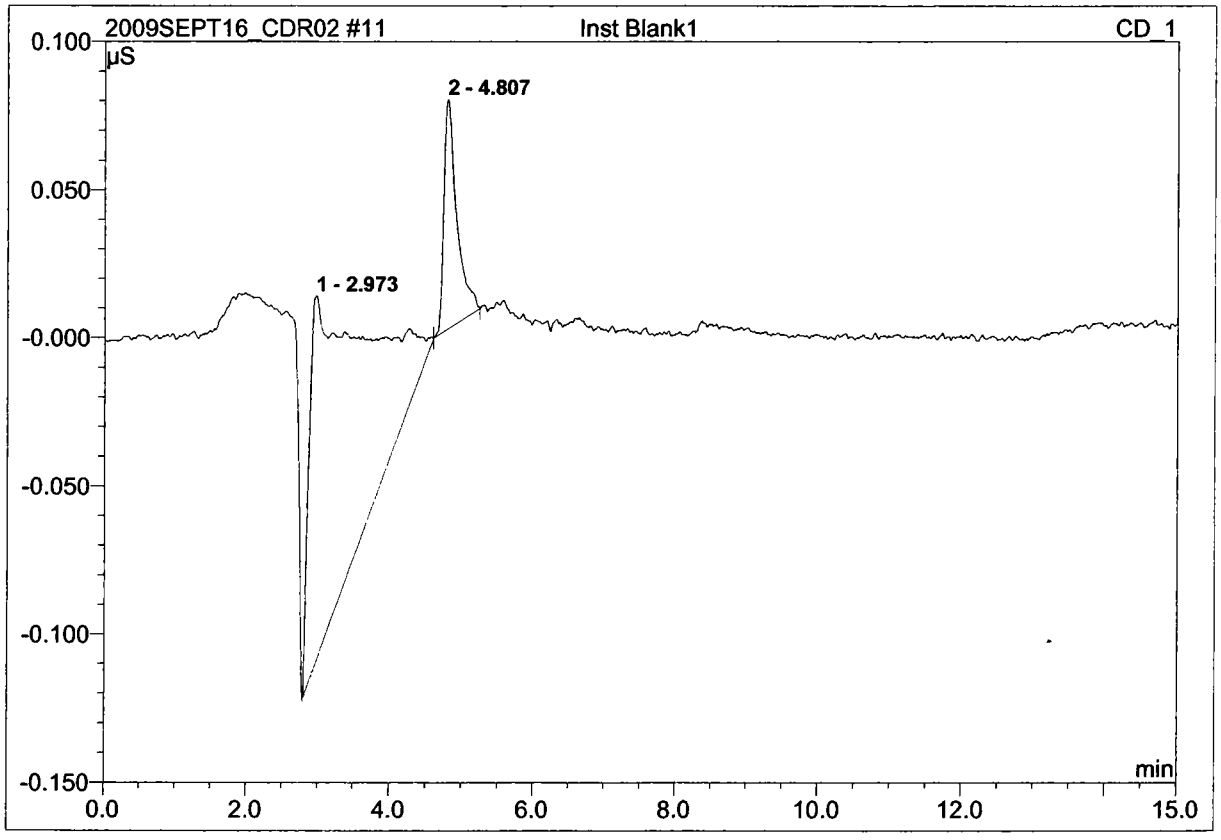
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	56.969	6.559	7.95	16.110	BMB
2	4.32	Chloride	55.581	6.566	7.95	24.195	BMB
3	4.92	n.a.	0.606	0.069	0.08	n.a.	BMb
4	5.13	n.a.	77.066	12.846	15.56	n.a.	bMB
5	5.63	Sulfate	121.538	23.941	29.00	120.441	BMB
6	7.05	Bromide	46.106	9.631	11.67	52.054	BMB
7	8.22	Nitrate	41.498	12.320	14.93	80.252	BMB
8	9.98	Phosphate	16.621	10.615	12.86	114.809	BMB
Total:			415.986	82.546	100.00	407.861	

11 Inst Blank1

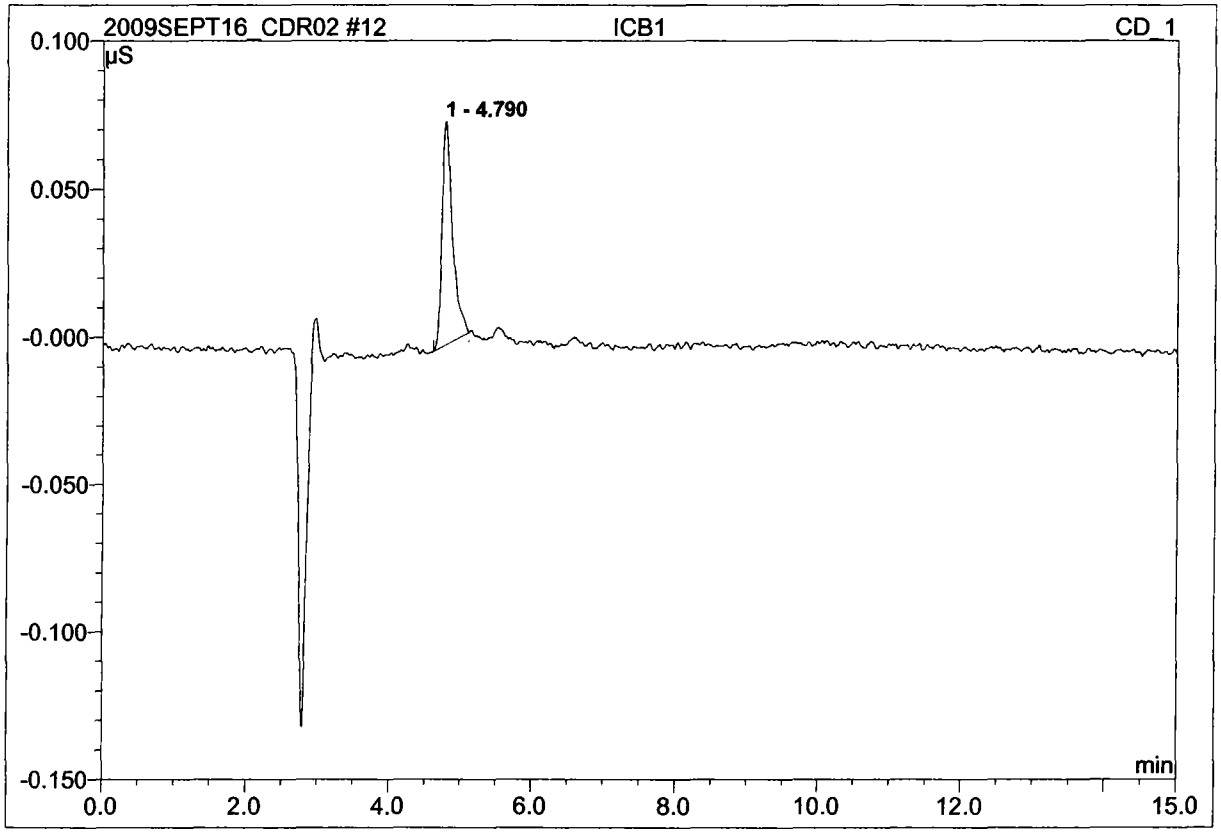
Sample Name:	**Inst Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 20:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.97	n.a.	0.124	0.105	86.62	n.a.	BMB
2	4.81	n.a.	0.078	0.016	13.38	n.a.	bMB
Total:			0.201	0.122	100.00	0.000	

12 ICB1

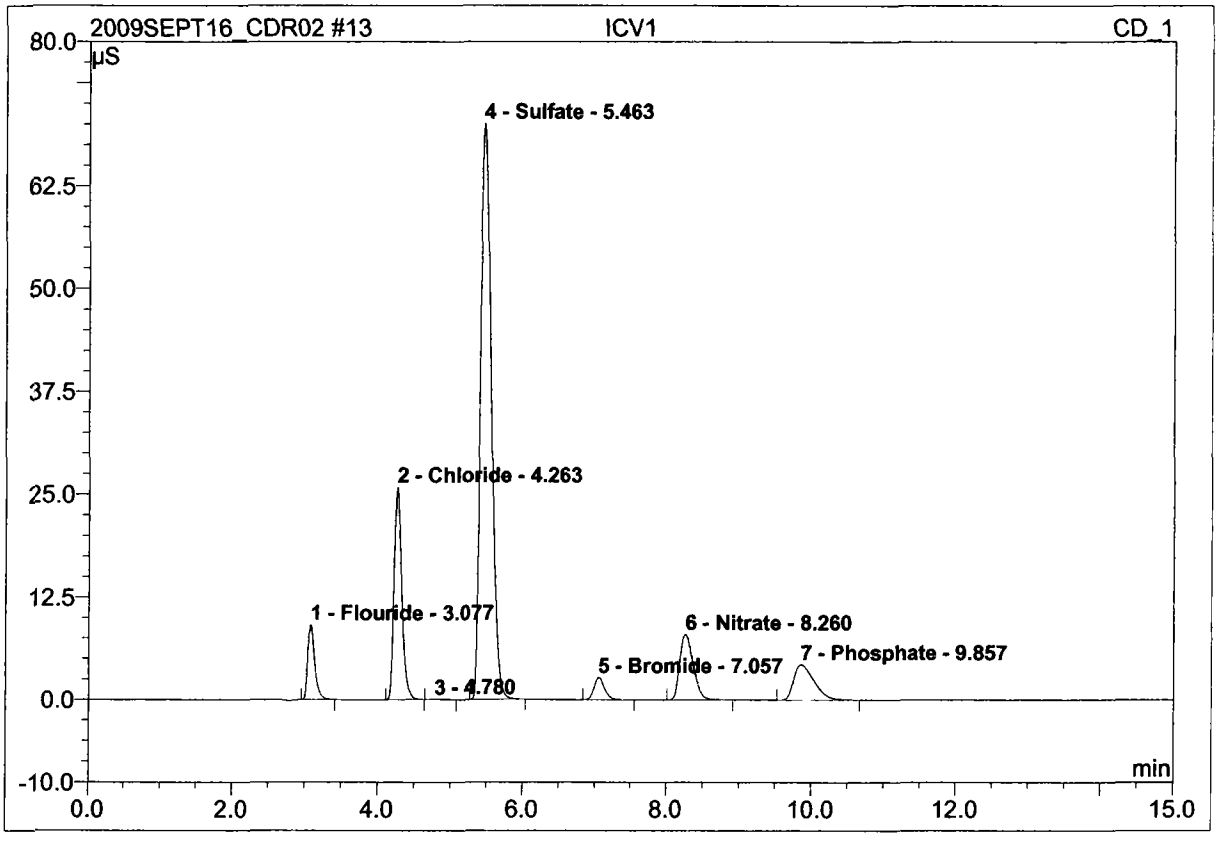
Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**29**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 20:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.79	n.a.	0.075	0.013	100.00	n.a.	BMB
Total:			0.075	0.013	100.00	0.000	

13 ICV1

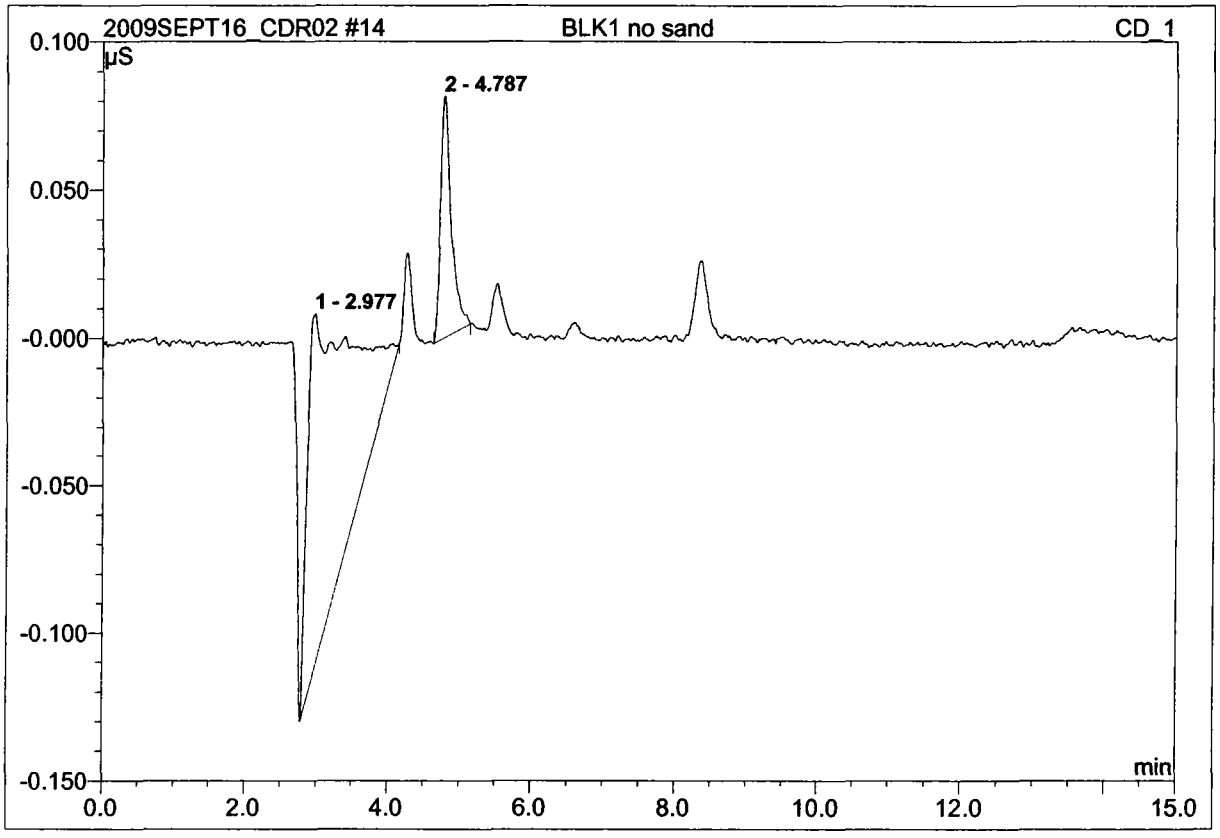
Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**30**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 20:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.167	1.001	5.07	2.239	BMB
2	4.26	Chloride	25.867	3.159	16.00	11.699	BMB
3	4.78	n.a.	0.075	0.011	0.06	n.a.	BMB
4	5.46	Sulfate	70.082	12.029	60.95	60.579	BMB
5	7.06	Bromide	2.698	0.454	2.30	4.313	BMB
6	8.26	Nitrate	8.008	1.695	8.59	11.579	BMB
7	9.86	Phosphate	4.299	1.389	7.04	17.007	BMB
Total:			120.195	19.737	100.00	107.415	

14 BLK1 no sand

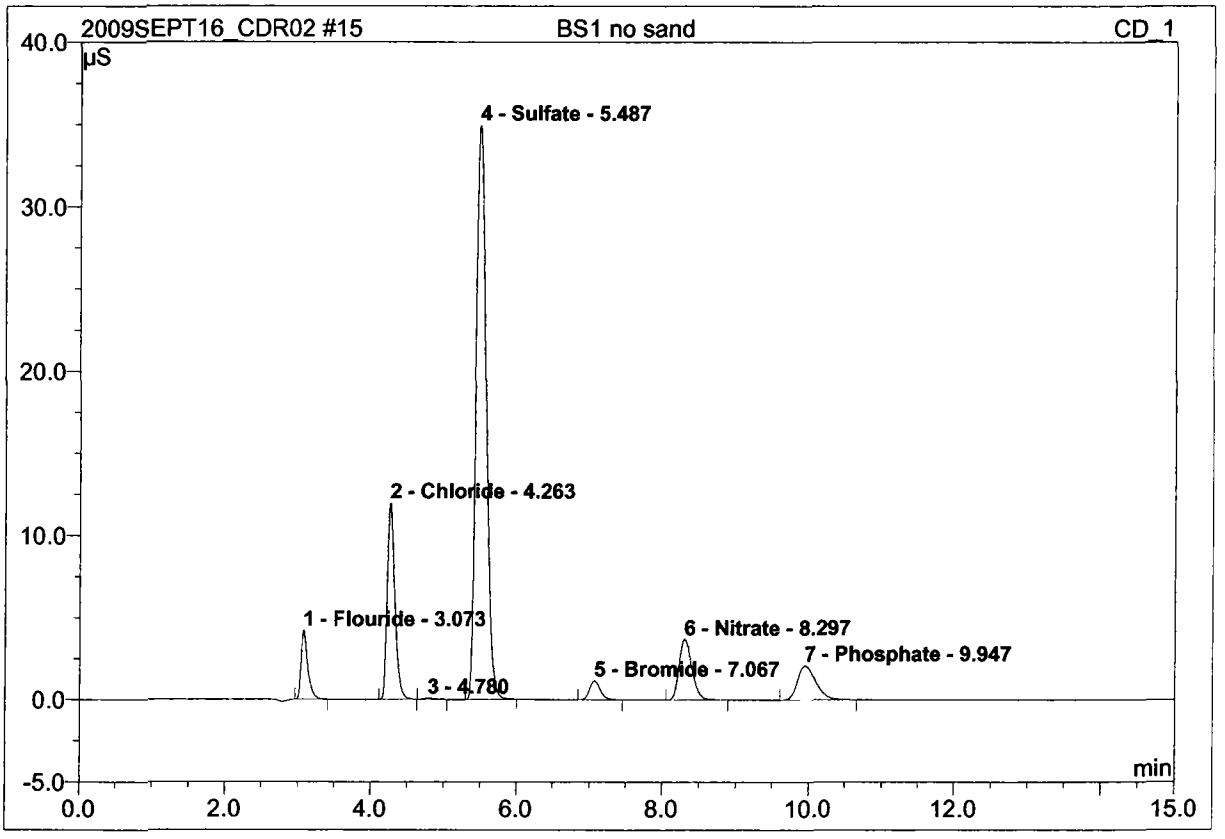
Sample Name:	**BLK1 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**31**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 20:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	n.a.	0.120	0.079	84.76	n.a.	BMB
2	4.79	n.a.	0.082	0.014	15.24	n.a.	BMB
Total:			0.202	0.093	100.00	0.000	

15 BS1 no sand

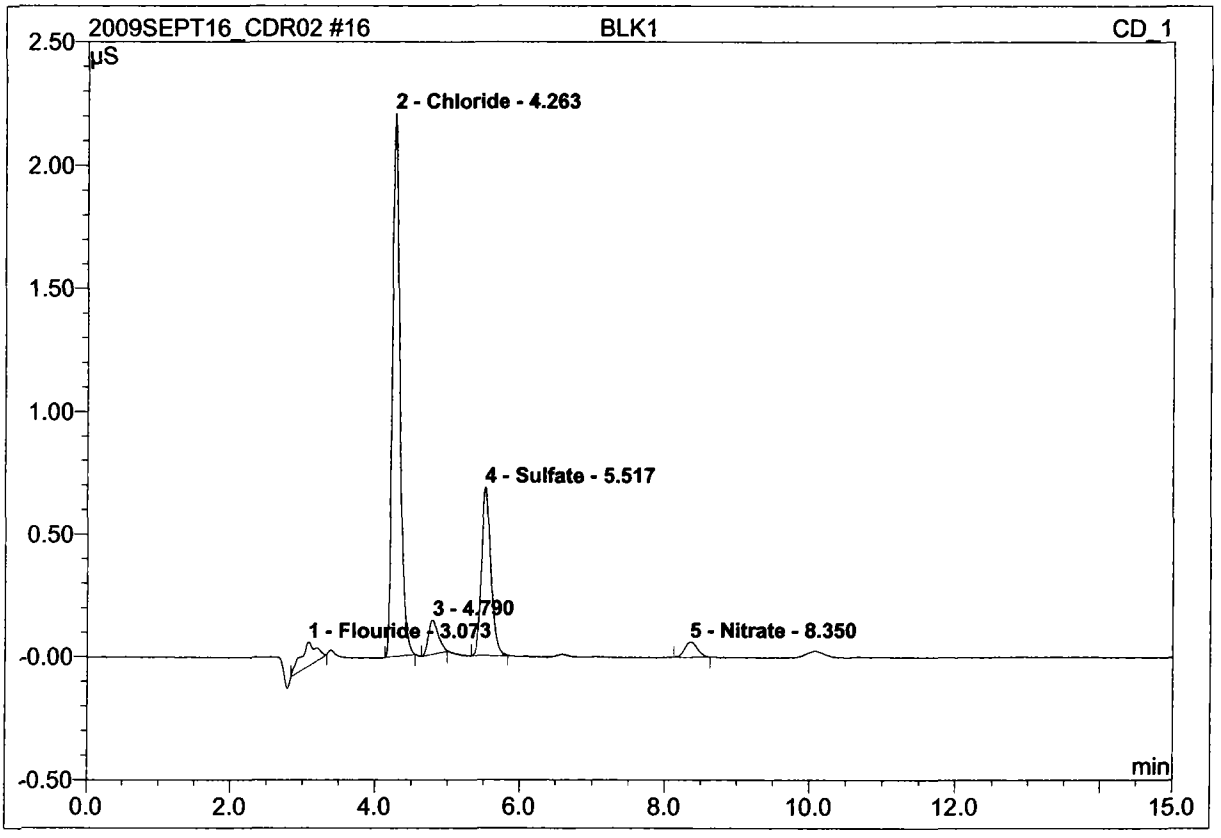
Sample Name:	**BS1 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**32**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 21:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	4.207	0.448	4.95	1.015	BMB
2	4.26	Chloride	11.980	1.439	15.92	5.392	BMB
3	4.78	n.a.	0.070	0.011	0.12	n.a.	BMB
4	5.49	Sulfate	34.931	5.599	61.94	28.268	BMB
5	7.07	Bromide	1.154	0.195	2.16	1.971	BMB
6	8.30	Nitrate	3.687	0.745	8.24	5.177	BMB
7	9.95	Phosphate	2.074	0.604	6.69	7.611	BMB
Total:			58.102	9.040	100.00	49.433	

16 BLK1

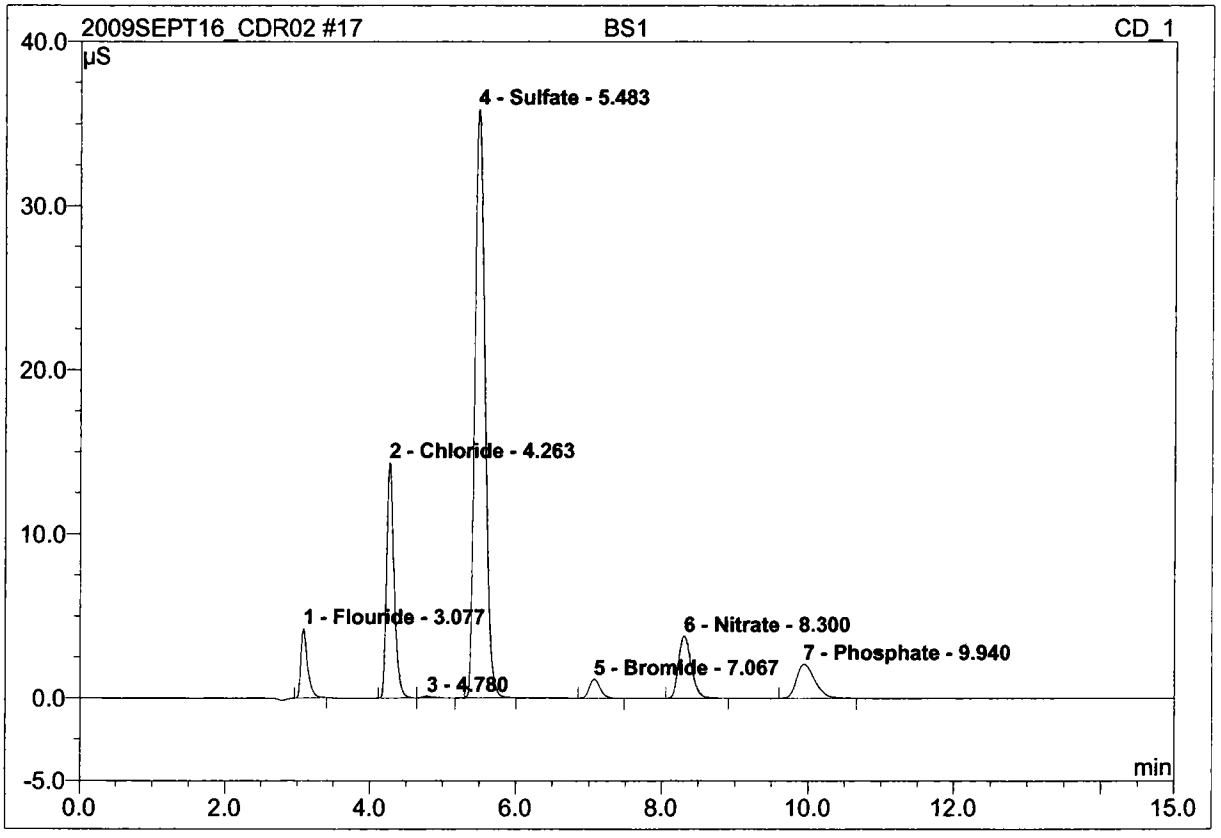
Sample Name:	**BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**33**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 21:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	0.097	0.023	5.53	0.091	BMB
2	4.26	Chloride	2.211	0.260	61.70	1.069	BMB
3	4.79	n.a.	0.140	0.022	5.18	n.a.	BMB
4	5.52	Sulfate	0.685	0.104	24.66	0.653	BMB
5	8.35	Nitrate	0.061	0.012	2.93	0.211	BMB
Total:			3.193	0.421	100.00	2.023	

17 BS1

Sample Name:	**BS1**	*Injection Volume:*	**25.0**
Vial Number:	**34**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 21:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

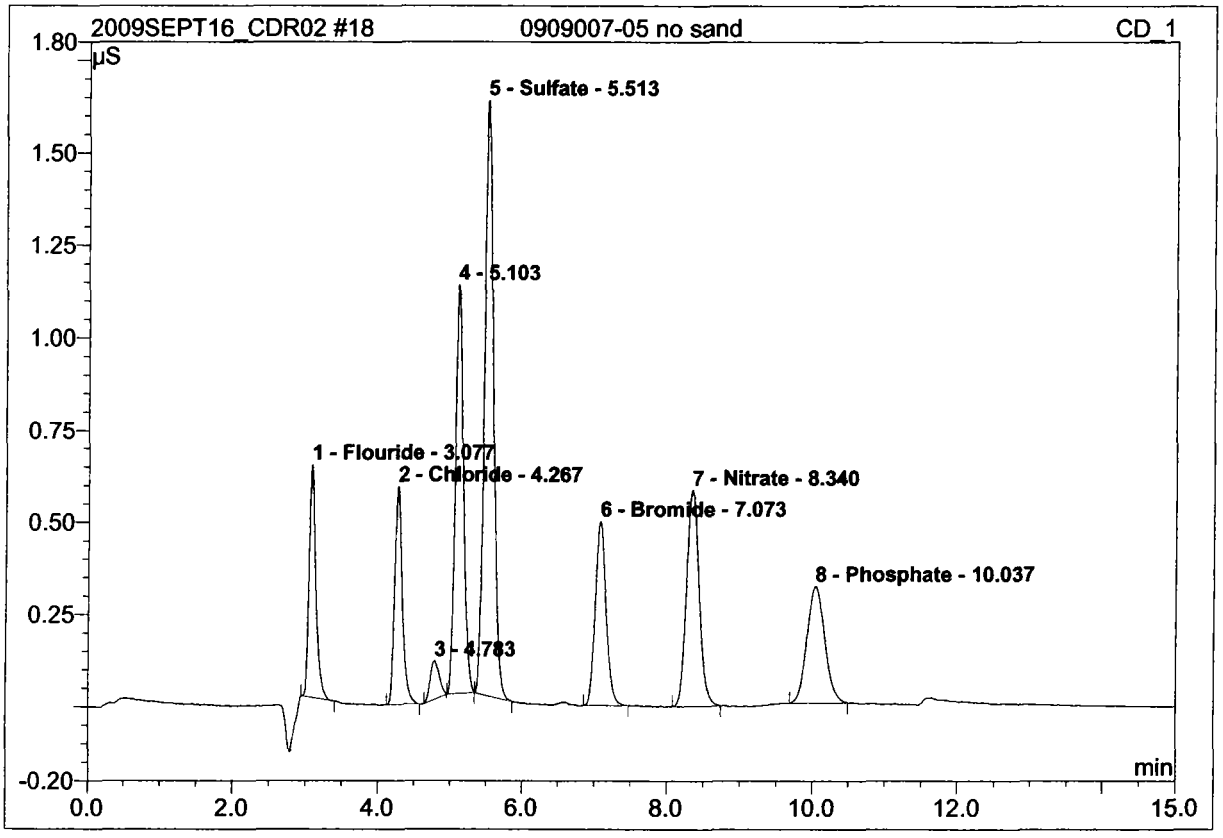


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.244	0.453	4.75	1.026	BMB
2	4.26	Chloride	14.378	1.734	18.20	6.476	BMB
3	4.78	n.a.	0.110	0.019	0.20	n.a.	bMB
4	5.48	Sulfate	35.877	5.757	60.41	29.064	BMB
5	7.07	Bromide	1.163	0.197	2.07	1.991	BMB
6	8.30	Nitrate	3.795	0.767	8.05	5.330	BMB
7	9.94	Phosphate	2.070	0.604	6.34	7.605	BMB
Total:			61.638	9.531	100.00	51.491	

18 0909007-05 no sand

MDL-1 (Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-05 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**35**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 22:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



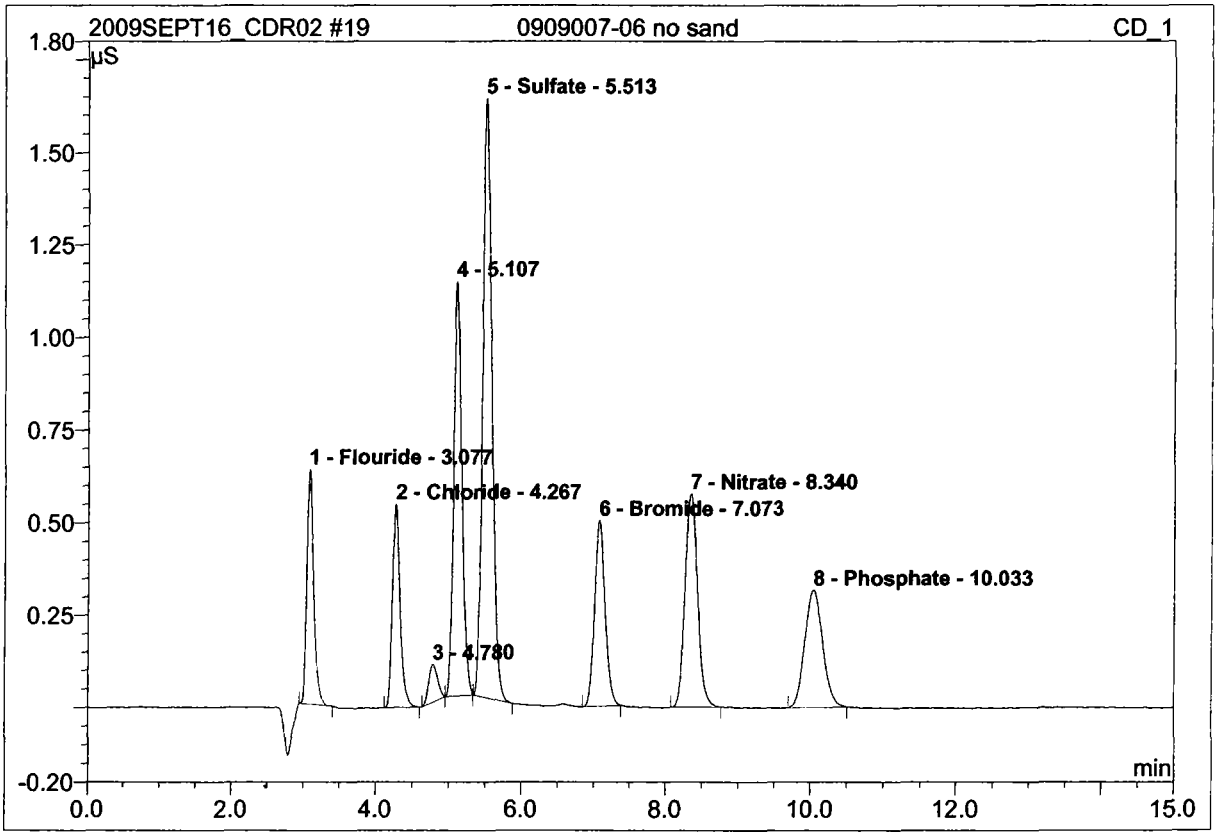
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.631	0.067	8.03	0.185	BMB
2	4.27	Chloride	0.592	0.072	8.62	0.378	BMB
3	4.78	n.a.	0.104	0.015	1.79	n.a.	BMB
4	5.10	n.a.	1.109	0.146	17.54	n.a.	BMB
5	5.51	Sulfate	1.613	0.238	28.64	1.327	BMB
6	7.07	Bromide	0.500	0.086	10.34	0.933	BMB
7	8.34	Nitrate	0.586	0.117	14.13	0.926	BMB
8	10.04	Phosphate	0.317	0.091	10.91	1.344	BMB
Total:			5.452	0.831	100.00	5.092	

19 0909007-06 no sand

2 AA 9-17-09

MDL-1 (Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-06 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**36**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 22:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



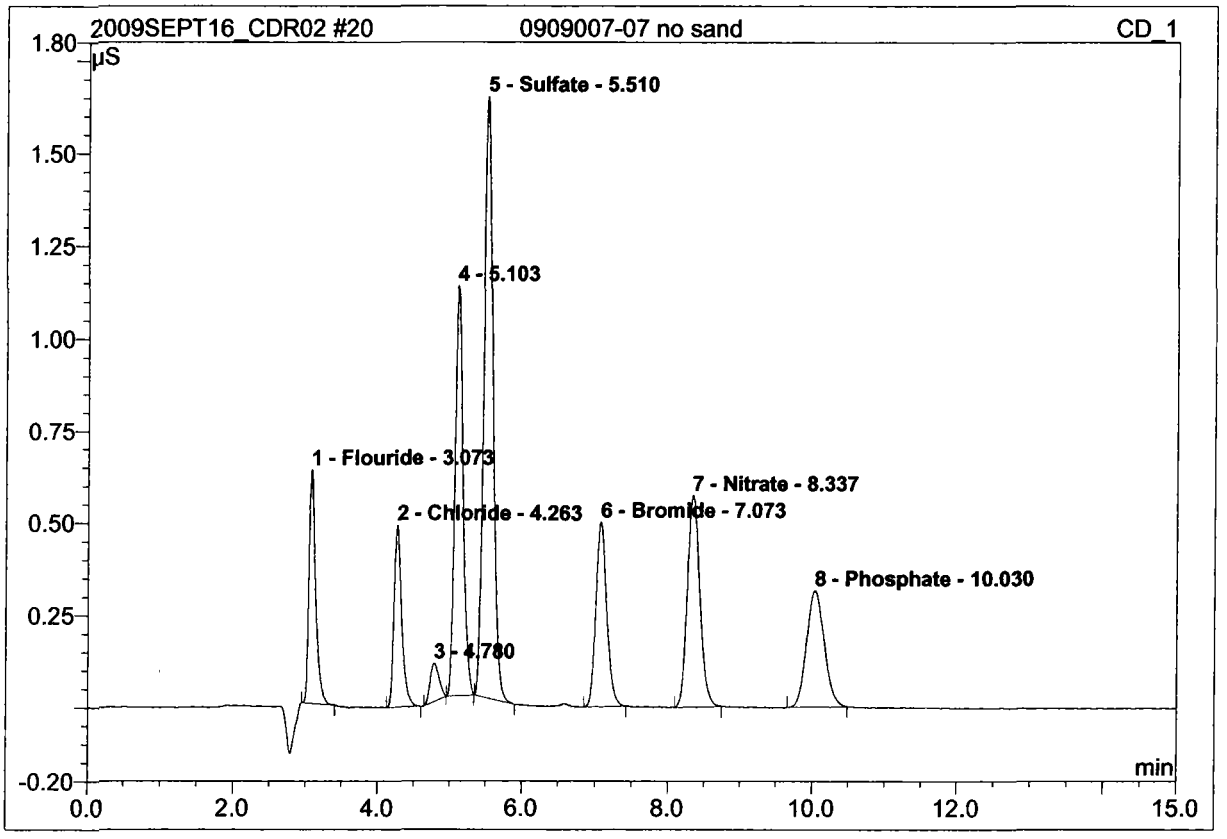
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.637	0.067	8.14	0.186	BMB
2	4.27	Chloride	0.552	0.067	8.09	0.361	BMB
3	4.78	n.a.	0.103	0.015	1.76	n.a.	BMB
4	5.11	n.a.	1.121	0.147	17.81	n.a.	BMB
5	5.51	Sulfate	1.620	0.239	28.89	1.333	BMB
6	7.07	Bromide	0.504	0.086	10.43	0.937	BMB
7	8.34	Nitrate	0.577	0.116	13.98	0.914	BMB
8	10.03	Phosphate	0.318	0.090	10.90	1.338	BMB
Total:			5.434	0.828	100.00	5.069	

20 0909007-07 no sand

3 AA 9-17-09

MDL-~~1~~(Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-07 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**37**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 22:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



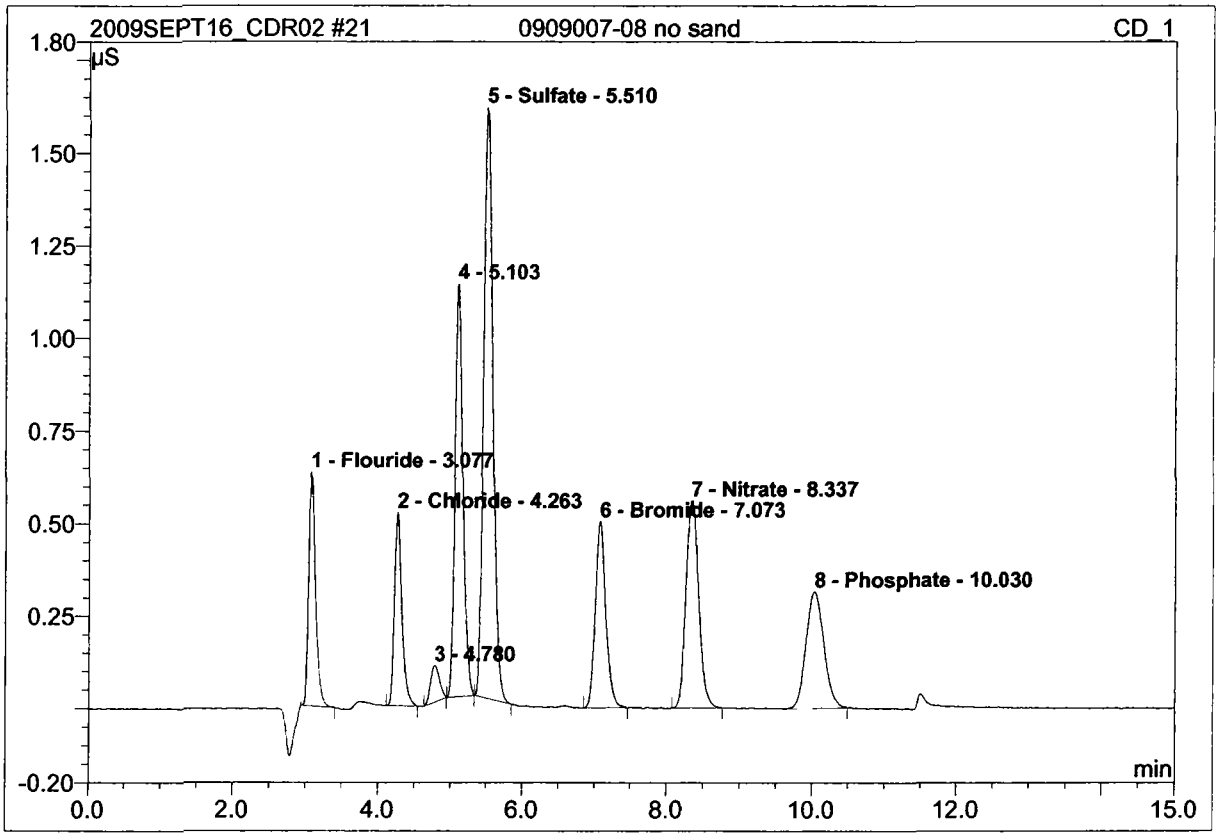
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	0.633	0.067	8.20	0.186	BMB
2	4.26	Chloride	0.493	0.060	7.32	0.336	BMB
3	4.78	n.a.	0.104	0.015	1.79	n.a.	BMB
4	5.10	n.a.	1.111	0.146	17.86	n.a.	BMB
5	5.51	Sulfate	1.628	0.240	29.35	1.339	BMB
6	7.07	Bromide	0.500	0.086	10.50	0.934	BMB
7	8.34	Nitrate	0.574	0.115	14.05	0.909	BMB
8	10.03	Phosphate	0.316	0.090	10.93	1.330	BMB
Total:			5.359	0.819	100.00	5.033	

21 0909007-08 no sand

4 AA 9-17-09

MDL-1 (Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-08 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**38**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 23:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



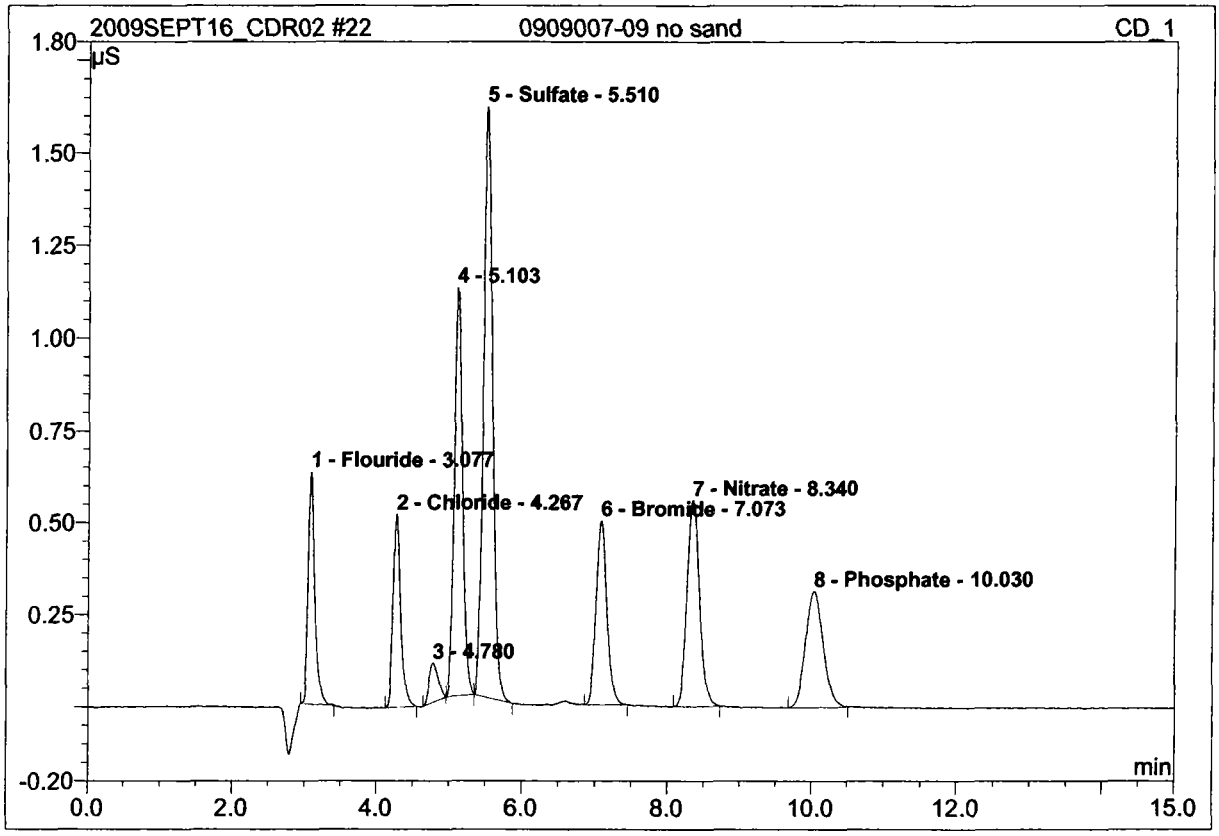
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.633	0.068	8.26	0.186	BMB
2	4.26	Chloride	0.524	0.063	7.74	0.348	BMB
3	4.78	n.a.	0.100	0.014	1.75	n.a.	BMB
4	5.10	n.a.	1.117	0.147	17.97	n.a.	BMB
5	5.51	Sulfate	1.596	0.236	28.78	1.314	BMB
6	7.07	Bromide	0.504	0.087	10.65	0.945	BMB
7	8.34	Nitrate	0.561	0.113	13.80	0.894	BMB
8	10.03	Phosphate	0.316	0.090	11.04	1.339	BMB
Total:			5.350	0.818	100.00	5.027	

22 0909007-09 no sand

5 AA 9-17-09

MDL-1 (Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-09 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**39**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 23:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



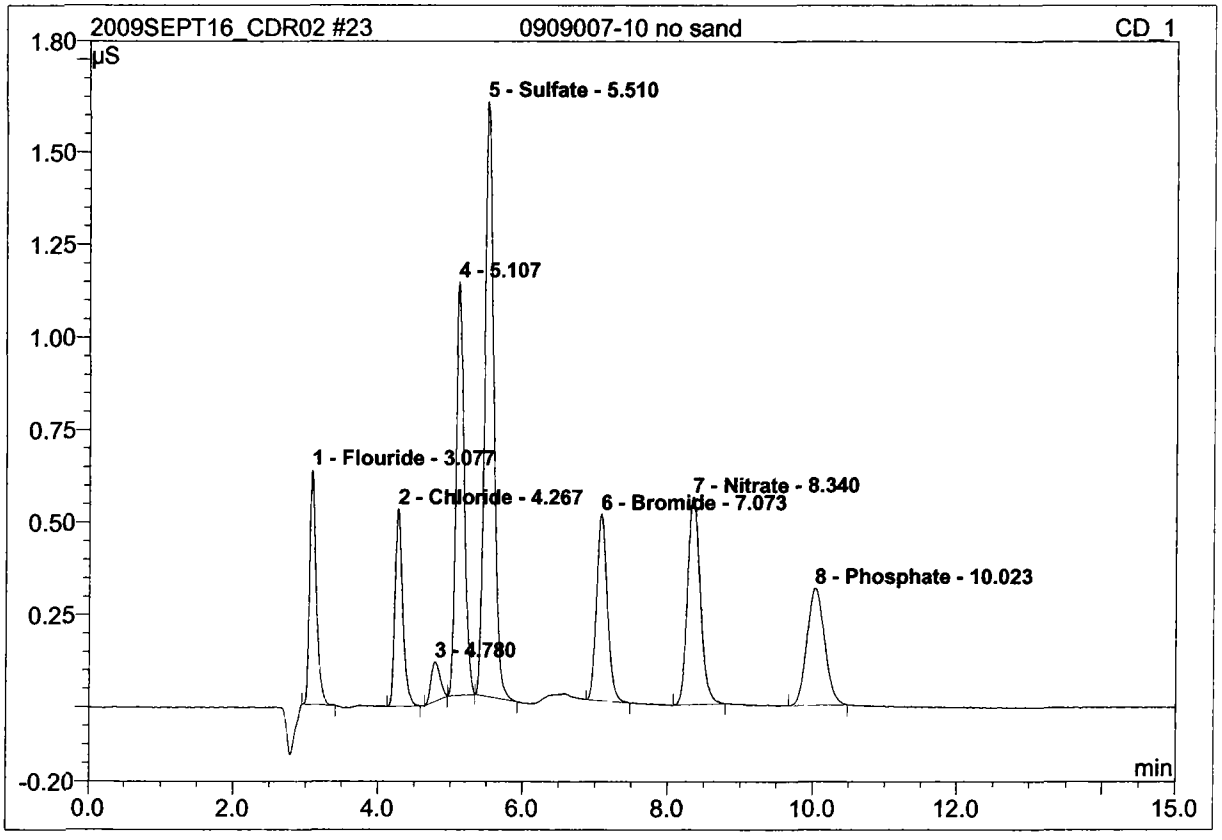
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.629	0.067	8.18	0.185	BMB
2	4.27	Chloride	0.524	0.063	7.78	0.349	BMB
3	4.78	n.a.	0.105	0.015	1.85	n.a.	BMB
4	5.10	n.a.	1.107	0.146	17.86	n.a.	BMB
5	5.51	Sulfate	1.600	0.236	28.98	1.319	BMB
6	7.07	Bromide	0.499	0.086	10.54	0.934	BMB
7	8.34	Nitrate	0.559	0.112	13.74	0.889	BMB
8	10.03	Phosphate	0.315	0.090	11.05	1.337	BMB
Total:			5.338	0.816	100.00	5.012	

23 0909007-10 no sand

6 AA 4-17-09

MDL-~~1~~(Chloride, Sulfate, & Nitrate)

Sample Name:	**0909007-10 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**40**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/16/2009 23:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



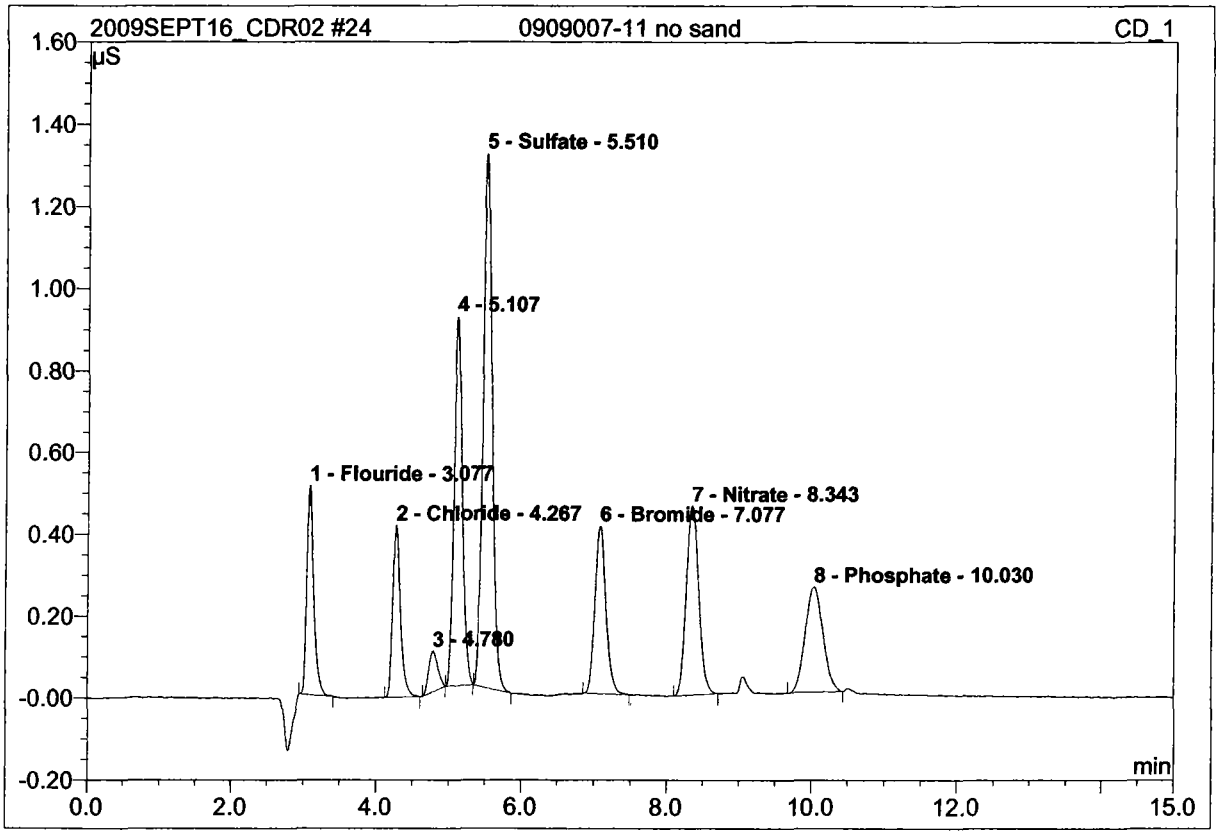
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.635	0.068	8.20	0.187	BMB
2	4.27	Chloride	0.535	0.065	7.88	0.354	BMB
3	4.78	n.a.	0.108	0.015	1.87	n.a.	BMB
4	5.11	n.a.	1.118	0.147	17.85	n.a.	BMB
5	5.51	Sulfate	1.610	0.239	28.94	1.330	BMB
6	7.07	Bromide	0.505	0.087	10.56	0.944	BMB
7	8.34	Nitrate	0.561	0.114	13.81	0.901	BMB
8	10.02	Phosphate	0.318	0.090	10.89	1.333	BMB
Total:			5.389	0.825	100.00	5.050	

24 0909007-11 no sand

7 AA 9-17-09

MDL-1 (Chloride, Sulfate, & Nitrate)

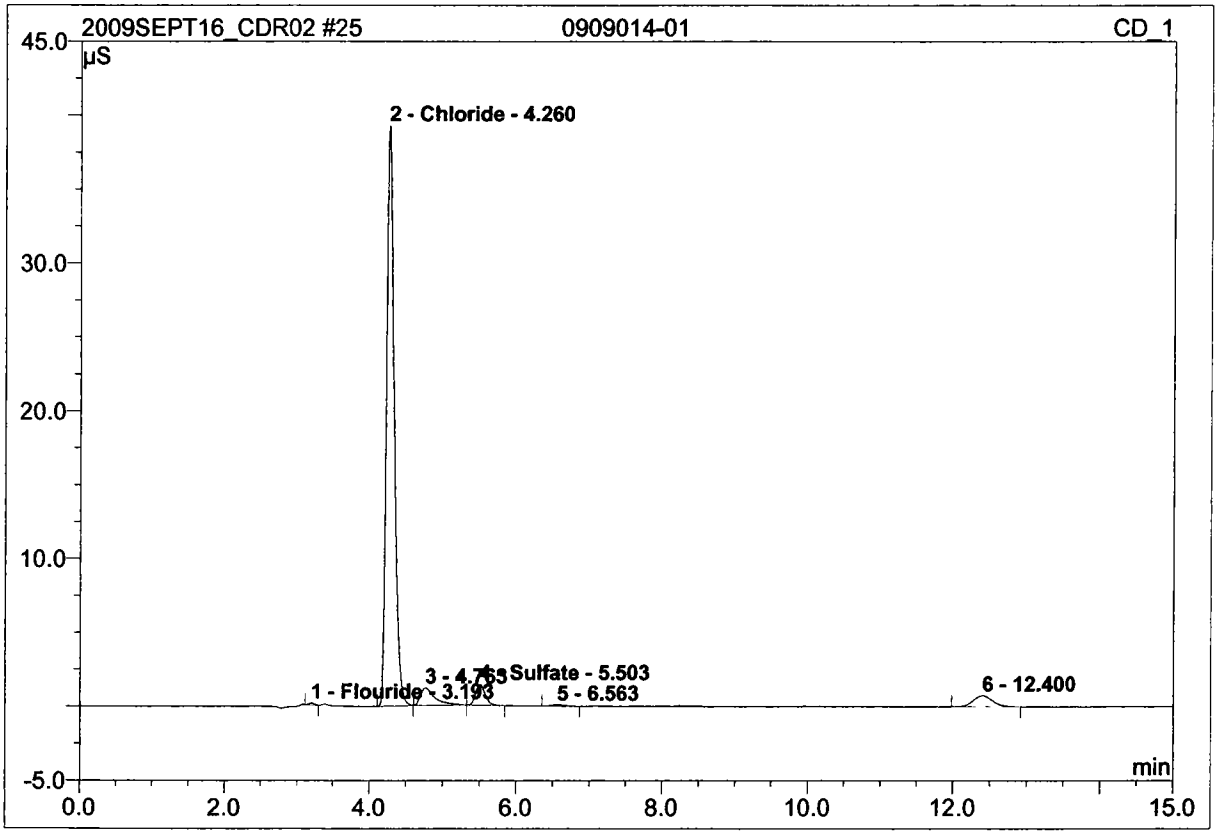
Sample Name:	**0909007-11 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**41**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 0:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.511	0.055	8.17	0.158	BMB
2	4.27	Chloride	0.420	0.052	7.71	0.305	BMB
3	4.78	n.a.	0.099	0.014	2.13	n.a.	BMB
4	5.11	n.a.	0.902	0.119	17.81	n.a.	BMB
5	5.51	Sulfate	1.304	0.193	28.90	1.102	BMB
6	7.08	Bromide	0.410	0.071	10.66	0.790	BMB
7	8.34	Nitrate	0.461	0.092	13.74	0.751	BMB
8	10.03	Phosphate	0.257	0.073	10.87	1.122	BMB
Total:			4.366	0.668	100.00	4.228	

25 0909014-01

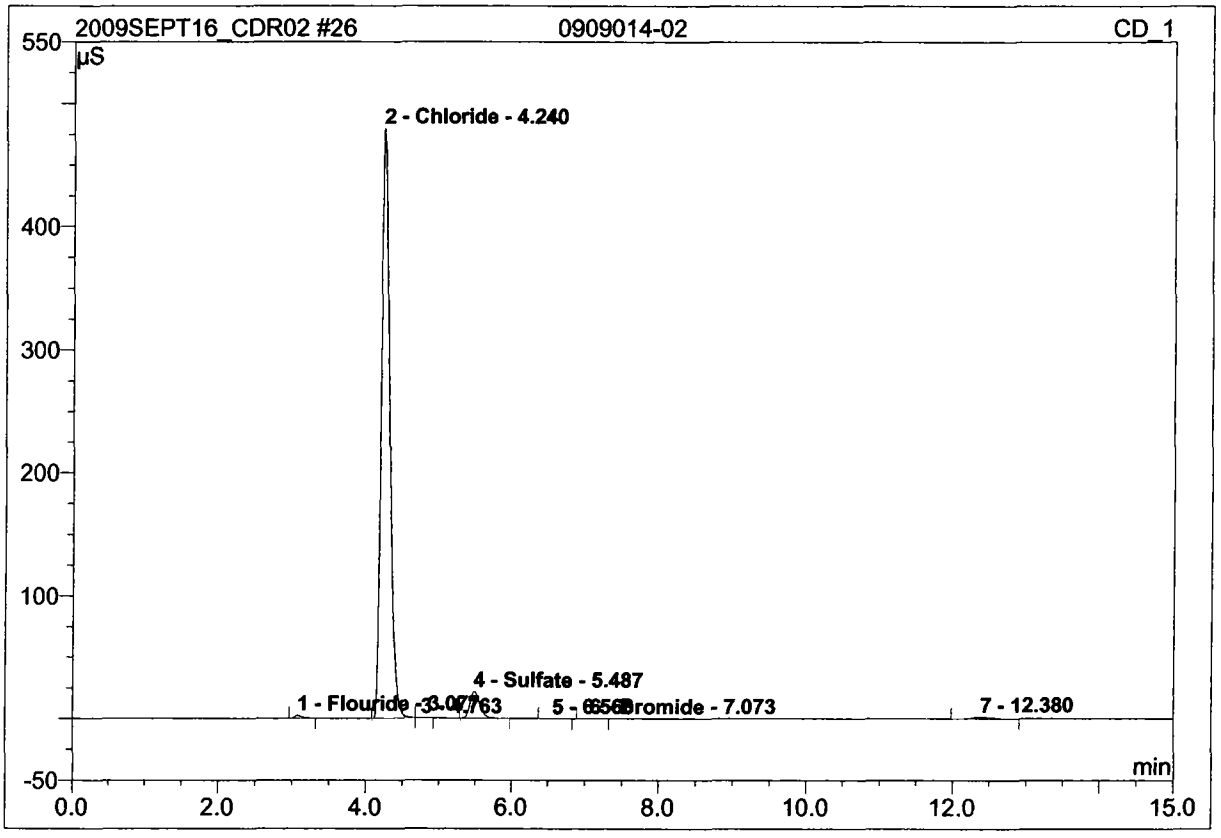
Sample Name:	**0909014-01**	*Injection Volume:*	**25.0**
Vial Number:	**42**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 0:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.19	Flouride	0.126	0.011	0.20	0.064	BMB
2	4.26	Chloride	39.303	4.838	86.87	17.857	BMB
3	4.76	n.a.	1.175	0.267	4.79	n.a.	BMb
4	5.50	Sulfate	1.403	0.209	3.76	1.183	bMB
5	6.56	n.a.	0.092	0.017	0.30	n.a.	BMB
6	12.40	n.a.	0.746	0.227	4.08	n.a.	BMB
Total:			42.846	5.569	100.00	19.104	

26 0909014-02

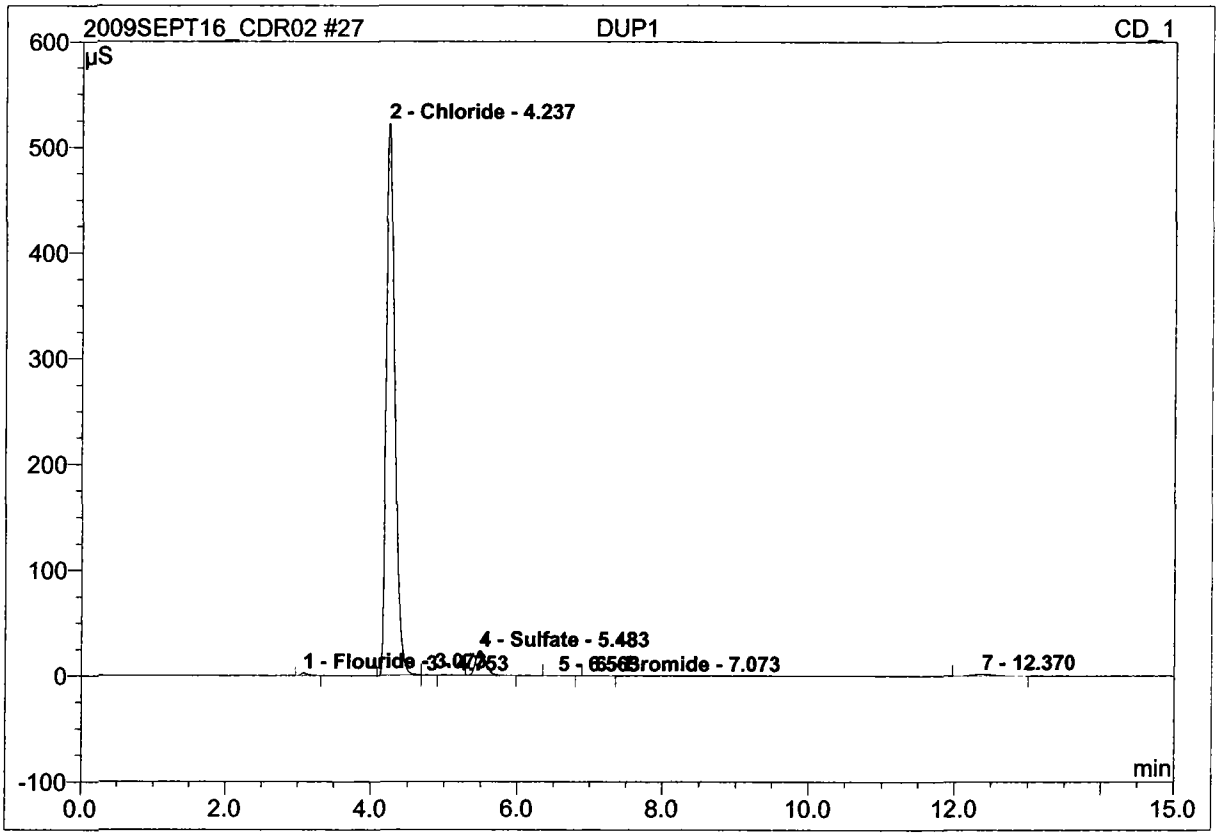
Sample Name:	**0909014-02**	*Injection Volume:*	**25.0**
Vial Number:	**43**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 0:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	2.433	0.265	0.38	0.615	BMB
2	4.24	Chloride	479.805	64.639	93.97	237.160	BMb
3	4.76	n.a.	0.120	0.014	0.02	n.a.	bMB
4	5.49	Sulfate	21.684	3.407	4.95	17.250	BMB
5	6.56	n.a.	0.081	0.014	0.02	n.a.	BMB
6	7.07	Bromide	0.064	0.011	0.02	0.198	BMB
7	12.38	n.a.	1.442	0.438	0.64	n.a.	BMB
Total:			505.629	68.788	100.00	255.222	

27 DUP1 Source 0909014-02

Sample Name:	**DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**44**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 0:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

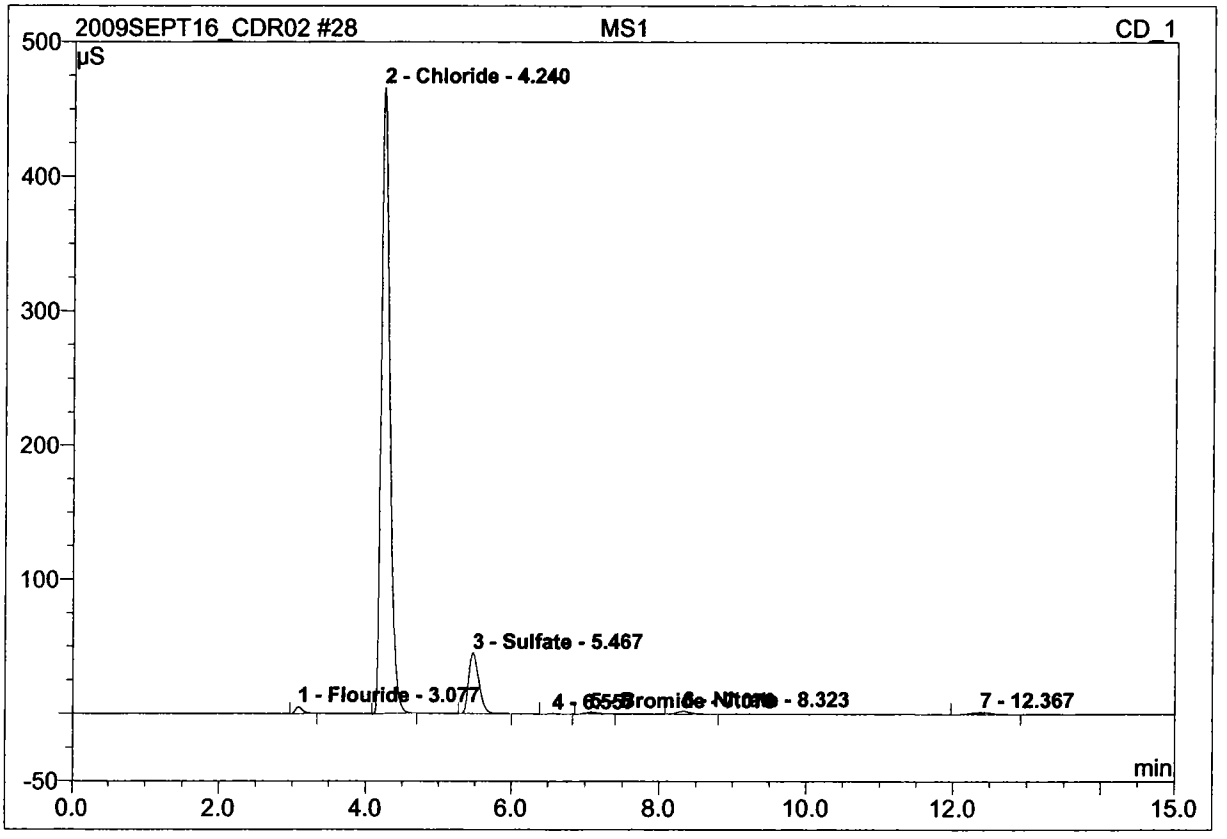


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	2.625	0.286	0.38	0.661	BMB
2	4.24	Chloride	522.181	70.769	94.05	259.638	BMb
3	4.75	n.a.	0.093	0.010	0.01	n.a.	bMB
4	5.48	Sulfate	23.323	3.676	4.89	18.602	BMB
5	6.56	n.a.	0.089	0.016	0.02	n.a.	BMB
6	7.07	Bromide	0.070	0.012	0.02	0.213	BMB
7	12.37	n.a.	1.561	0.474	0.63	n.a.	BMB
Total:			549.943	75.243	100.00	279.114	

28 MS1

Source 0909014-02

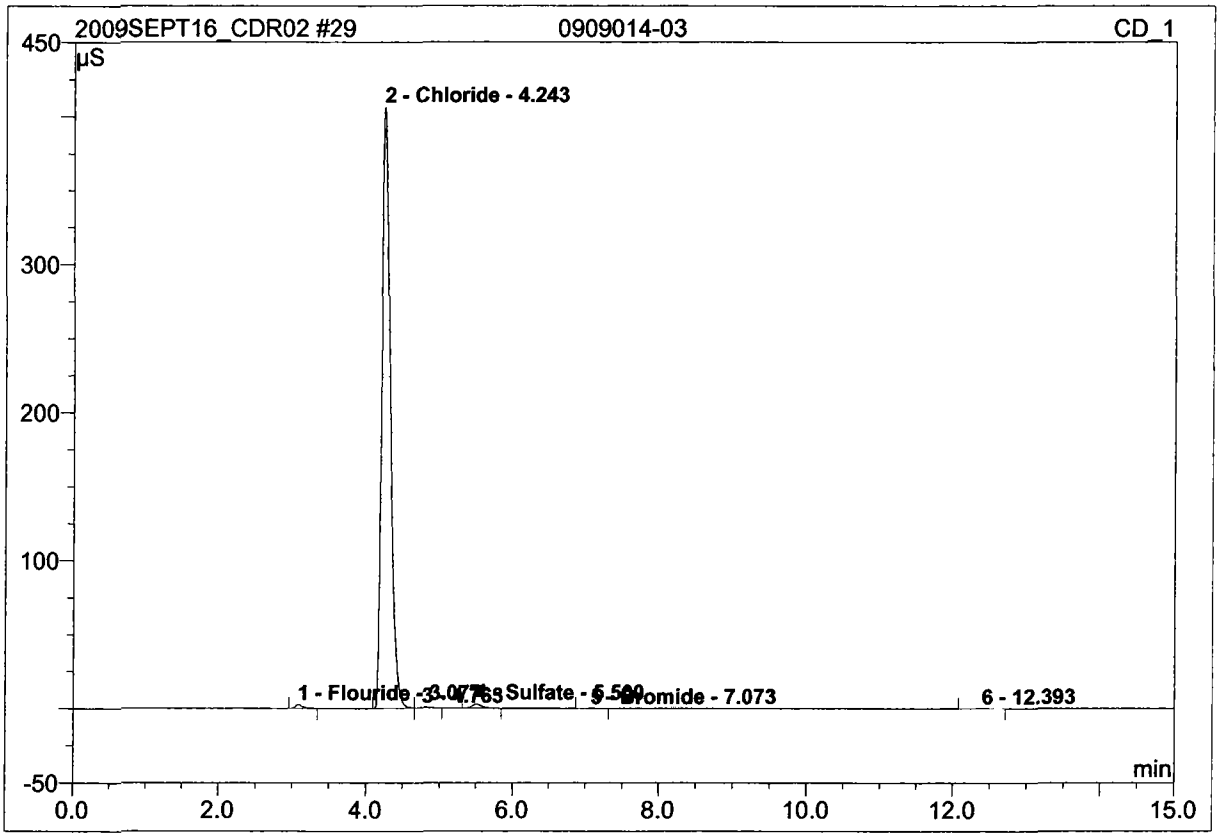
Sample Name:	**MS1**	*Injection Volume:*	**25.0**
Vial Number:	**45**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 1:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	5.076	0.553	0.77	1.246	BMB
2	4.24	Chloride	465.869	62.644	87.45	229.842	BMB
3	5.47	Sulfate	45.065	7.399	10.33	37.314	BMB
4	6.56	n.a.	0.060	0.011	0.02	n.a.	BMB
5	7.07	Bromide	1.035	0.176	0.25	1.794	BMB
6	8.32	Nitrate	2.034	0.407	0.57	2.891	BMB
7	12.37	n.a.	1.452	0.440	0.61	n.a.	BMB
Total:			520.592	71.630	100.00	273.086	

29 0909014-03

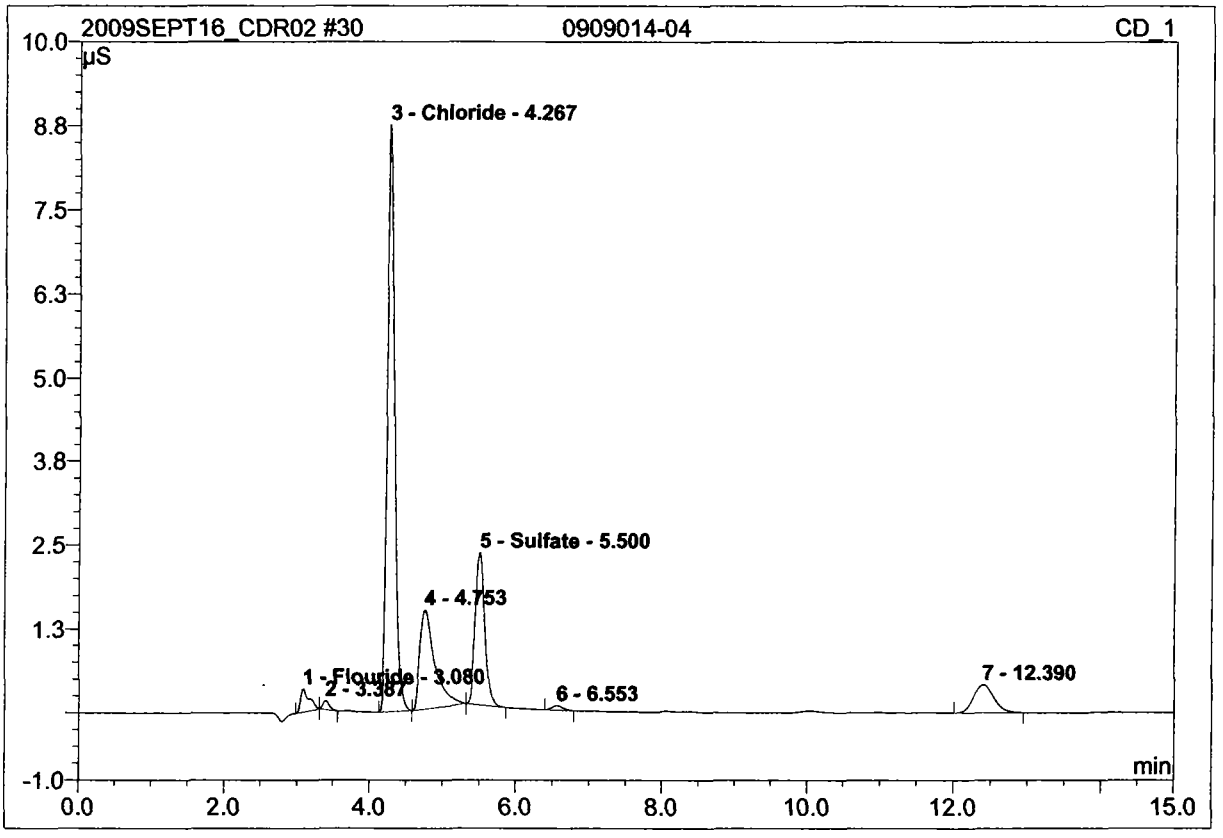
Sample Name:	**0909014-03**	*Injection Volume:*	**25.0**
Vial Number:	**46**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 1:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	2.649	0.282	0.52	0.653	BMB
2	4.24	Chloride	406.338	53.975	98.59	198.051	BMb
3	4.76	n.a.	0.317	0.045	0.08	n.a.	bMB
4	5.50	Sulfate	2.762	0.410	0.75	2.194	BMB
5	7.07	Bromide	0.063	0.011	0.02	0.197	BMB
6	12.39	n.a.	0.079	0.023	0.04	n.a.	BMB
Total:			412.207	54.746	100.00	201.095	

30 0909014-04

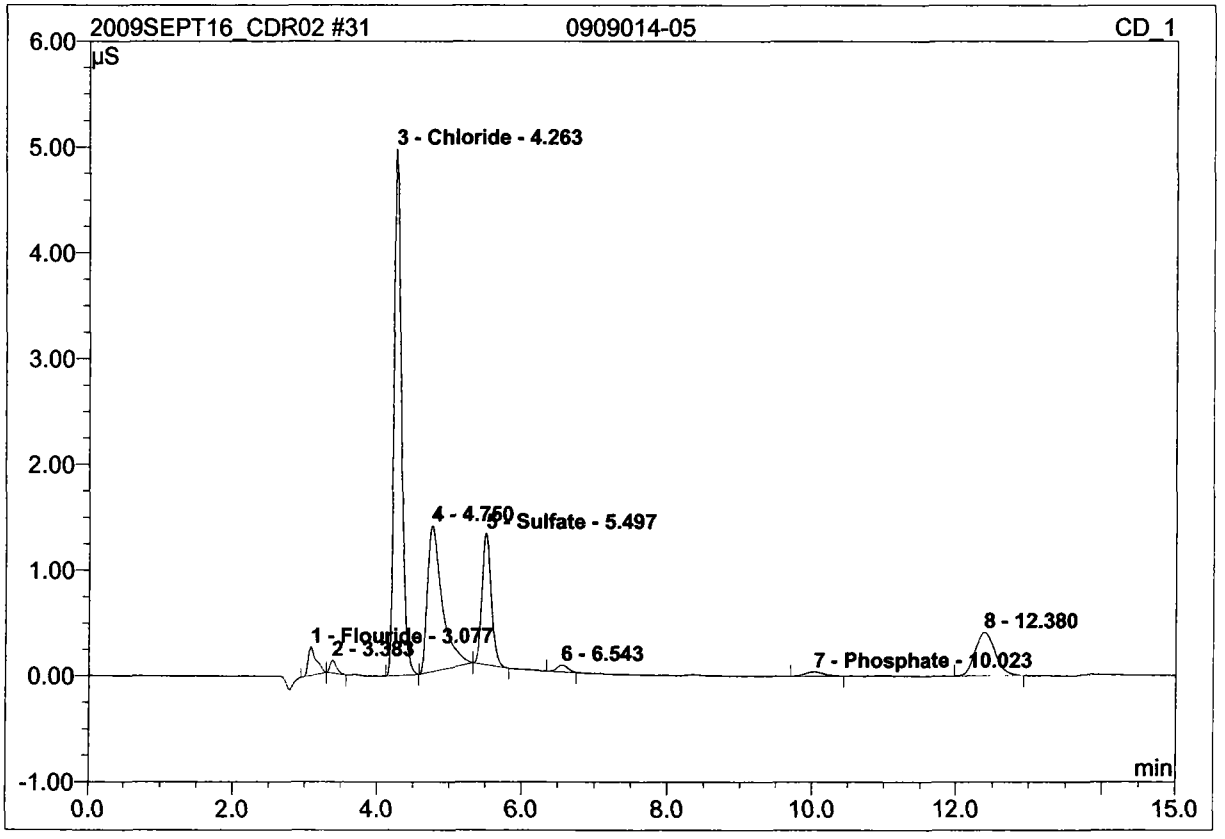
Sample Name:	**0909014-04**	*Injection Volume:*	**25.0**
Vial Number:	**47**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 1:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.345	0.048	2.47	0.144	BMB
2	3.39	n.a.	0.131	0.013	0.67	n.a.	bMB
3	4.27	Chloride	8.754	1.042	53.79	3.938	BMB
4	4.75	n.a.	1.487	0.353	18.23	n.a.	BMb
5	5.50	Sulfate	2.273	0.338	17.45	1.830	bMB
6	6.55	n.a.	0.069	0.012	0.61	n.a.	BMB
7	12.39	n.a.	0.418	0.131	6.77	n.a.	BMB
Total:			13.477	1.938	100.00	5.912	

31 0909014-05

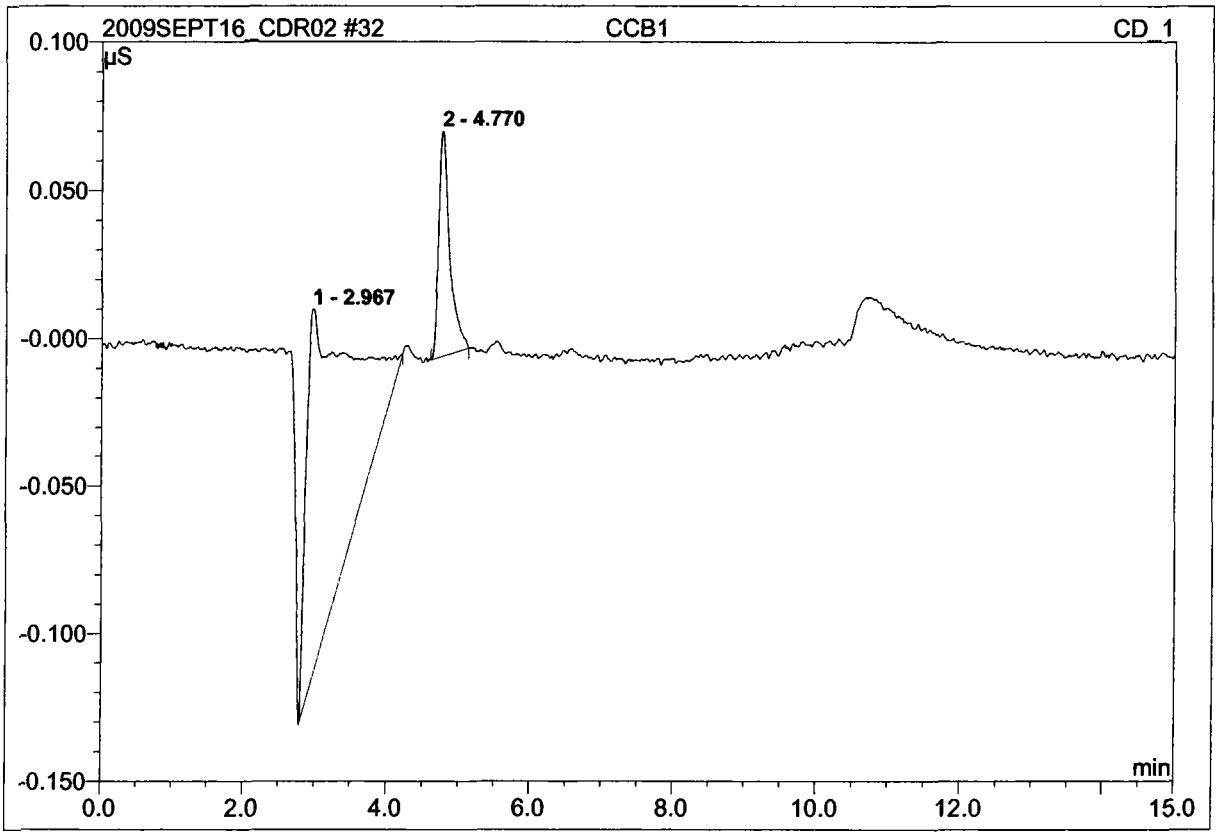
Sample Name:	**0909014-05**	*Injection Volume:*	**25.0**
Vial Number:	**48**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 2:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.271	0.035	2.69	0.116	BMb
2	3.38	n.a.	0.124	0.013	0.97	n.a.	bMB
3	4.26	Chloride	4.982	0.587	45.00	2.268	BMB
4	4.75	n.a.	1.385	0.328	25.19	n.a.	BMb
5	5.50	Sulfate	1.248	0.186	14.26	1.065	bMB
6	6.54	n.a.	0.065	0.012	0.88	n.a.	BMB
7	10.02	Phosphate	0.040	0.012	0.93	0.375	BMB
8	12.38	n.a.	0.416	0.131	10.08	n.a.	BMB
Total:			8.530	1.304	100.00	3.825	

32 CCB1

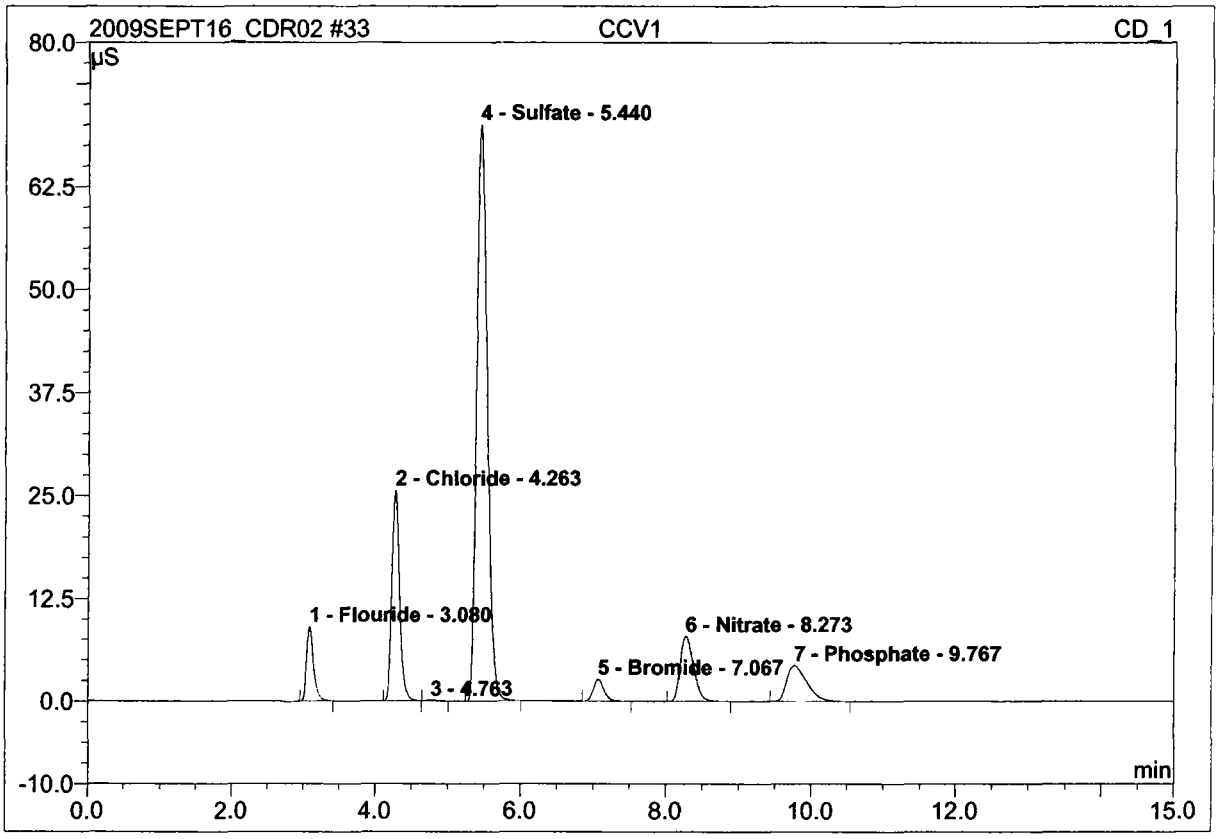
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**49**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 2:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.97	n.a.	0.125	0.081	85.64	n.a.	BMB
2	4.77	n.a.	0.076	0.014	14.36	n.a.	BMB
Total:			0.201	0.095	100.00	0.000	

33 CCV1

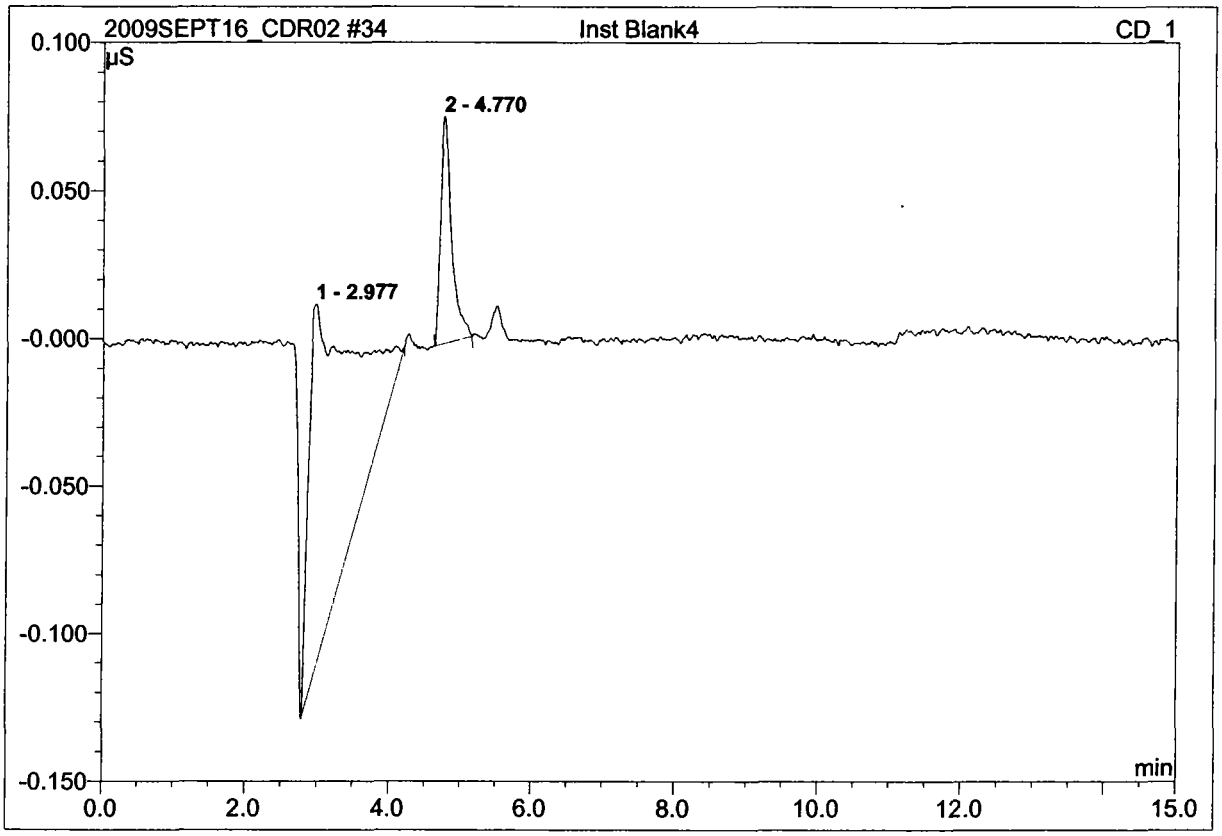
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**50**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 2:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.087	0.996	5.06	2.228	BMB
2	4.26	Chloride	25.686	3.144	15.99	11.645	BMB
3	4.76	n.a.	0.071	0.010	0.05	n.a.	BMB
4	5.44	Sulfate	70.043	11.990	60.97	60.386	BMB
5	7.07	Bromide	2.672	0.451	2.29	4.291	BMB
6	8.27	Nitrate	7.934	1.687	8.58	11.526	BMB
7	9.77	Phosphate	4.330	1.388	7.06	16.988	BMB
Total:			119.823	19.666	100.00	107.063	

34 Inst Blank4

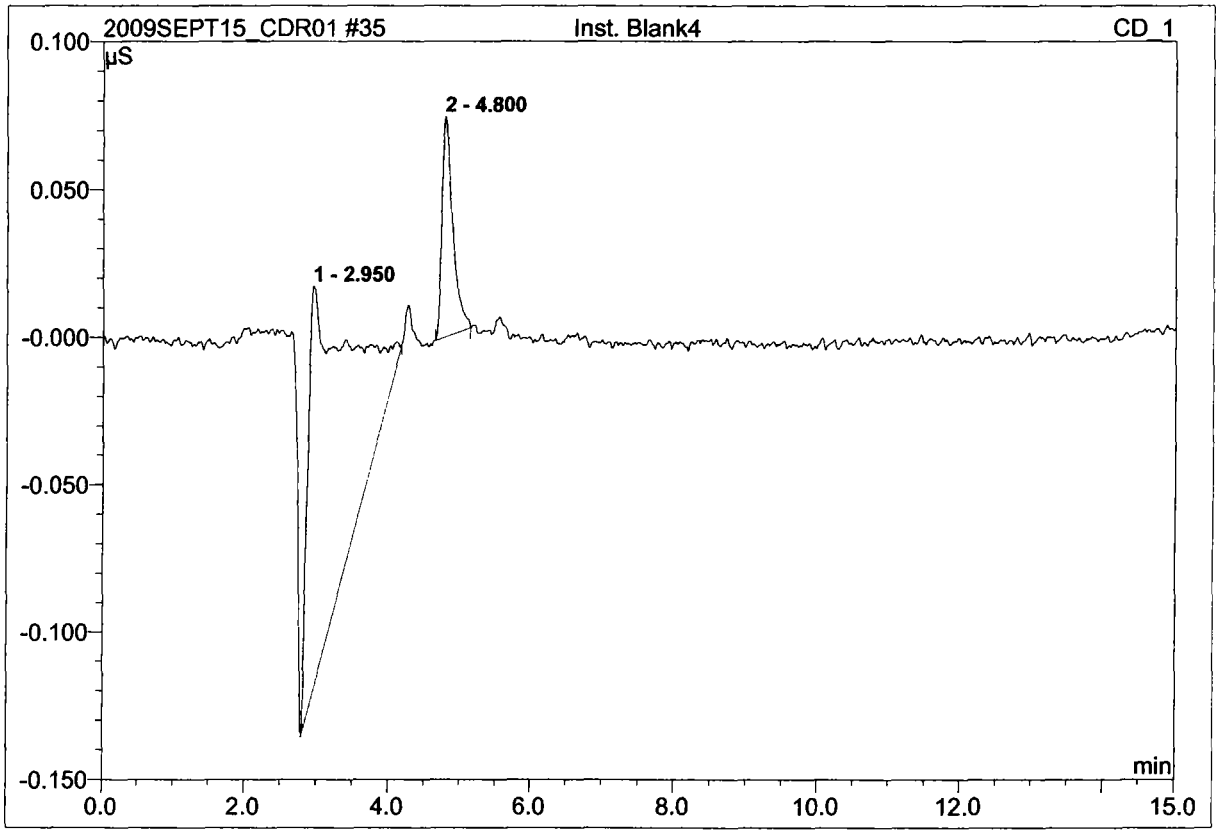
Sample Name:	**Inst Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**51**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 3:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	n.a.	0.124	0.081	85.51	n.a.	BMB
2	4.77	n.a.	0.077	0.014	14.49	n.a.	BMB
Total:			0.201	0.094	100.00	0.000	

35 Inst. Blank4

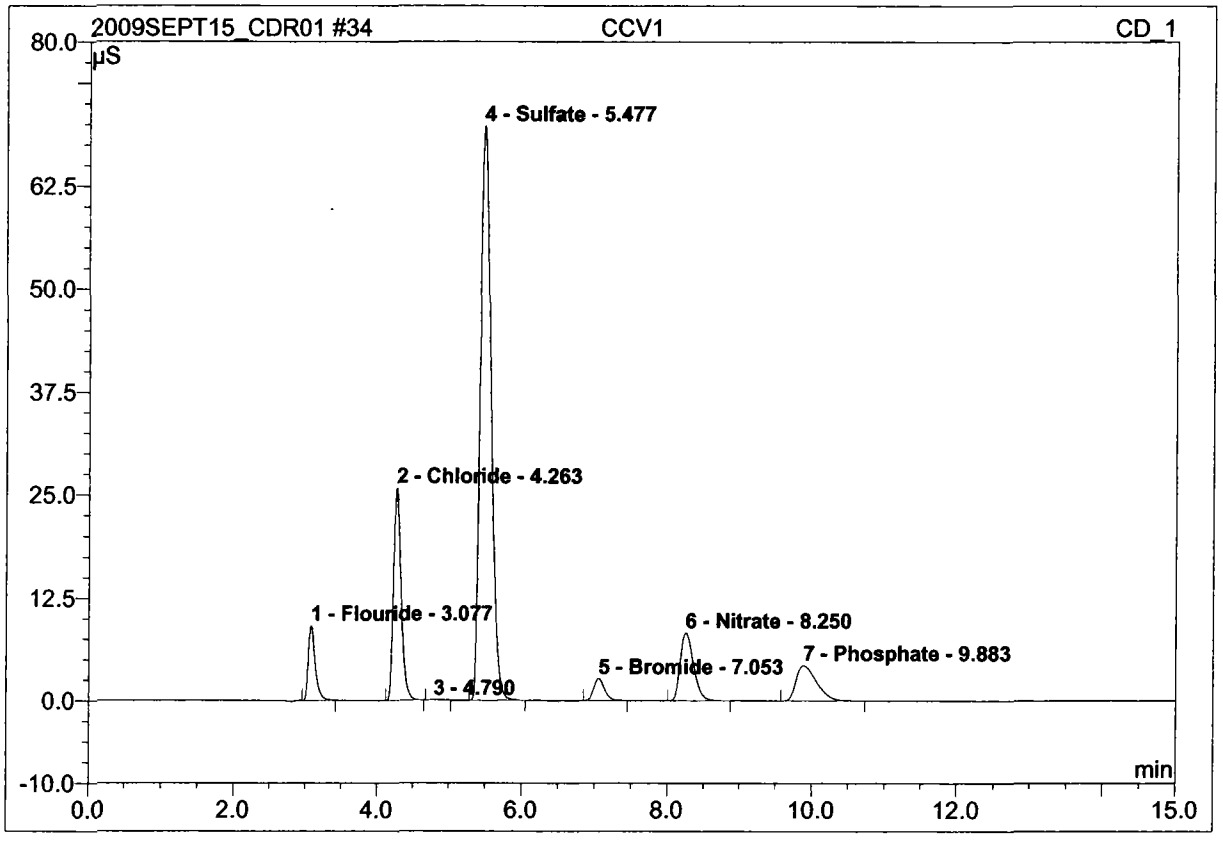
Sample Name:	**Inst. Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 18:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.95	n.a.	0.138	0.085	86.60	n.a.	BMB
2	4.80	n.a.	0.075	0.013	13.40	n.a.	BMB
Total:			0.212	0.099	100.00	0.000	

34 CCV1

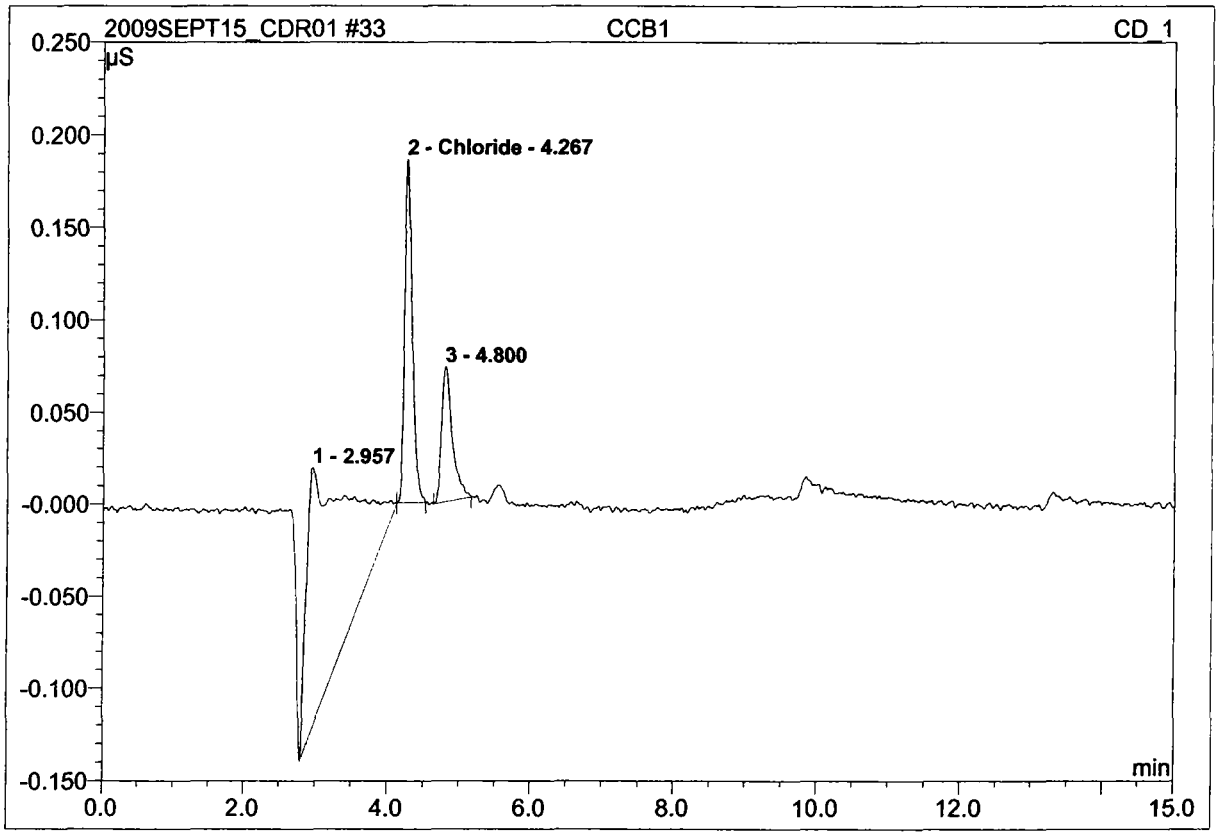
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 18:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.115	0.991	5.03	2.218	BMB
2	4.26	Chloride	25.809	3.138	15.93	11.623	BMB
3	4.79	n.a.	0.072	0.011	0.05	n.a.	BMB
4	5.48	Sulfate	69.751	11.970	60.78	60.284	BMB
5	7.05	Bromide	2.675	0.448	2.27	4.263	BMB
6	8.25	Nitrate	8.274	1.750	8.89	11.949	BMB
7	9.88	Phosphate	4.290	1.386	7.04	16.972	BMB
Total:			119.986	19.693	100.00	107.308	

33 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 18:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

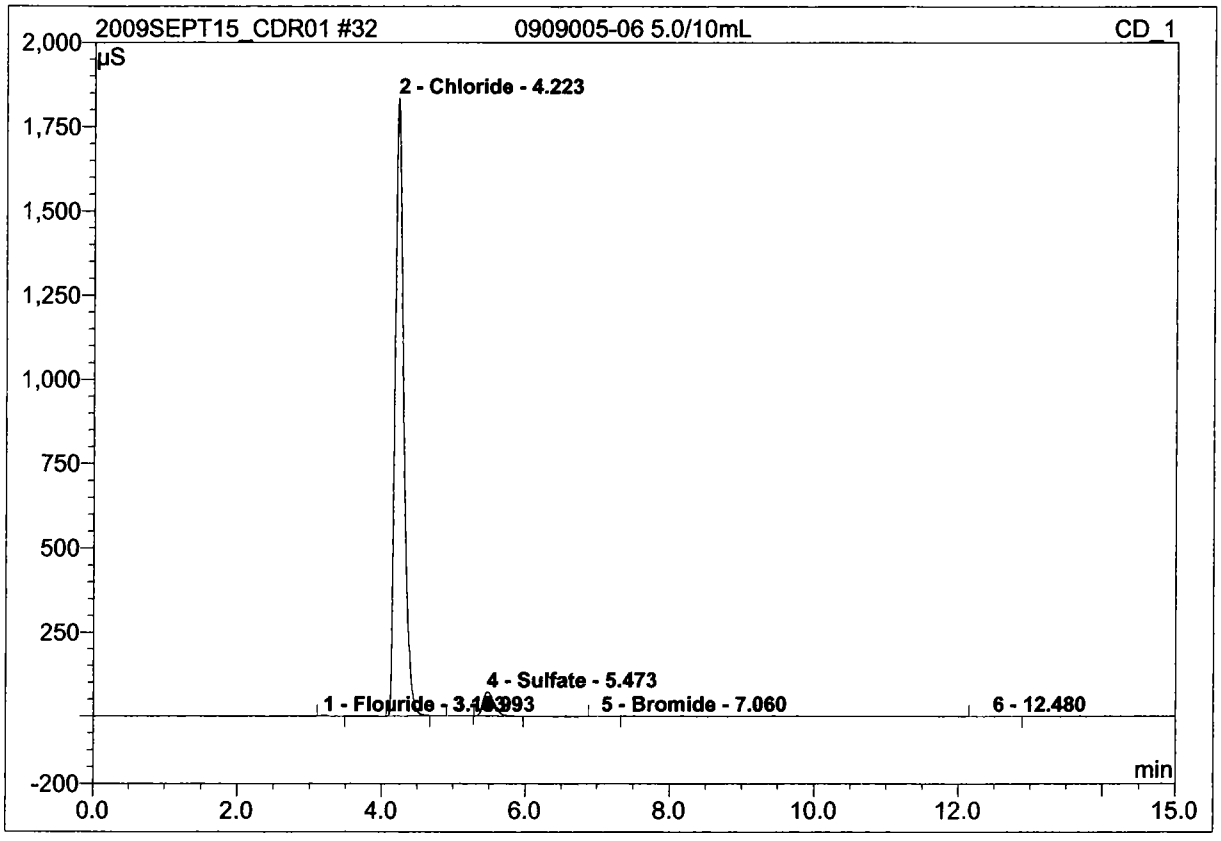


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.141	0.088	70.98	n.a.	BMB
2	4.27	Chloride	0.186	0.023	18.51	0.200	bMB
3	4.80	n.a.	0.074	0.013	10.51	n.a.	BMB
Total:			0.401	0.123	100.00	0.200	

32 0909005-06 5.0/10mL

Sulfate Dilution

Sample Name:	**0909005-06 5.0/10mL**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 18:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



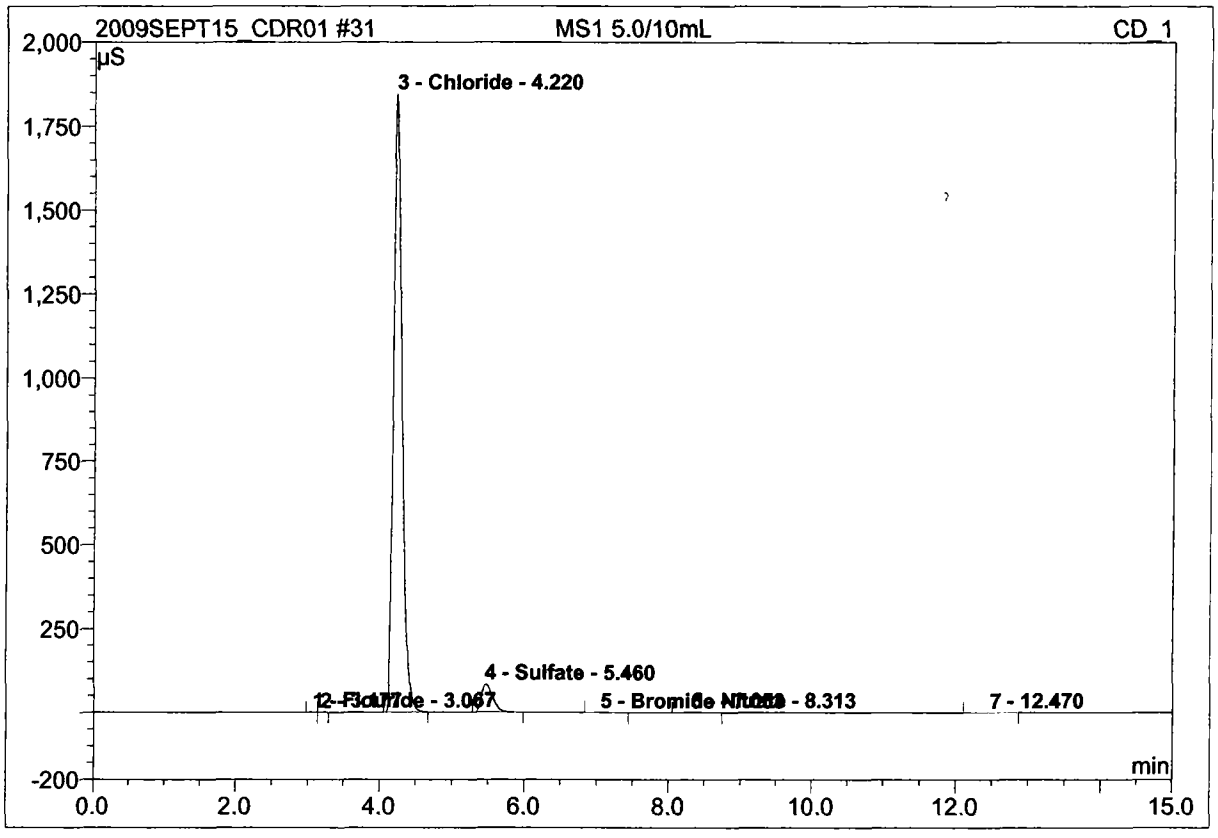
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.19	Flouride	0.323	0.037	0.01	0.120	BMB
2	4.22	Chloride	1833.778	252.524	95.24	926.169	BMB
3	4.99	n.a.	0.058	0.019	0.01	n.a.	BMB
4	5.47	Sulfate	71.639	12.501	4.71	62.953	BMB
5	7.06	Bromide	0.124	0.022	0.01	0.303	BMB
6	12.48	n.a.	0.158	0.049	0.02	n.a.	BMB
Total:			1906.080	265.151	100.00	989.545	

31 MS1 5.0/10mL

Source 0909005-07

Sulfate Dilution

Sample Name:	**MS1 5.0/10mL**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 17:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

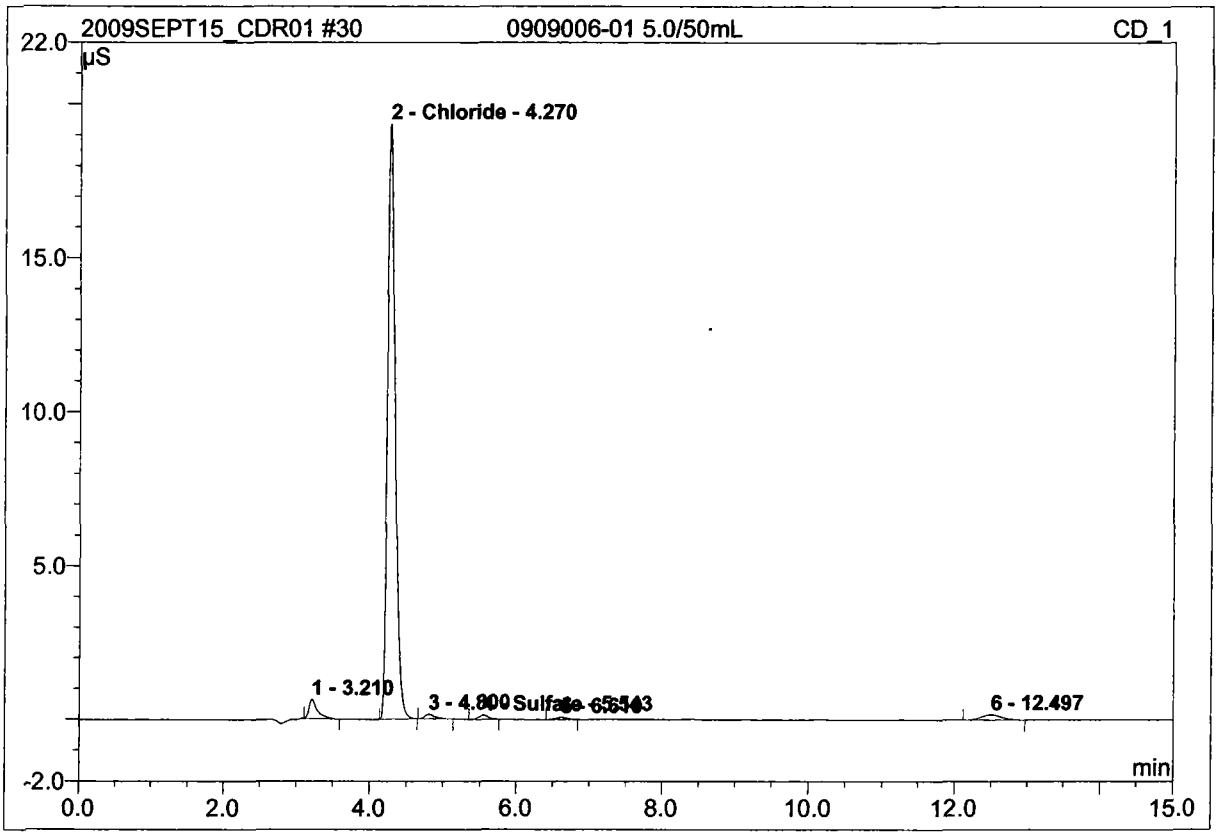


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	0.576	0.044	0.02	0.136	BMb
2	3.18	n.a.	0.145	0.012	0.00	n.a.	bMB
3	4.22	Chloride	1846.126	254.182	94.33	932.248	BMB
4	5.46	Sulfate	83.467	14.919	5.54	75.103	BMB
5	7.05	Bromide	0.554	0.097	0.04	1.044	BMB
6	8.31	Nitrate	0.811	0.164	0.06	1.241	BMB
7	12.47	n.a.	0.152	0.047	0.02	n.a.	BMB
Total:			1931.831	269.465	100.00	1009.771	

30 0909006-01 5.0/50mL

Chloride Dilution

Sample Name:	**0909006-01 5.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 17:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

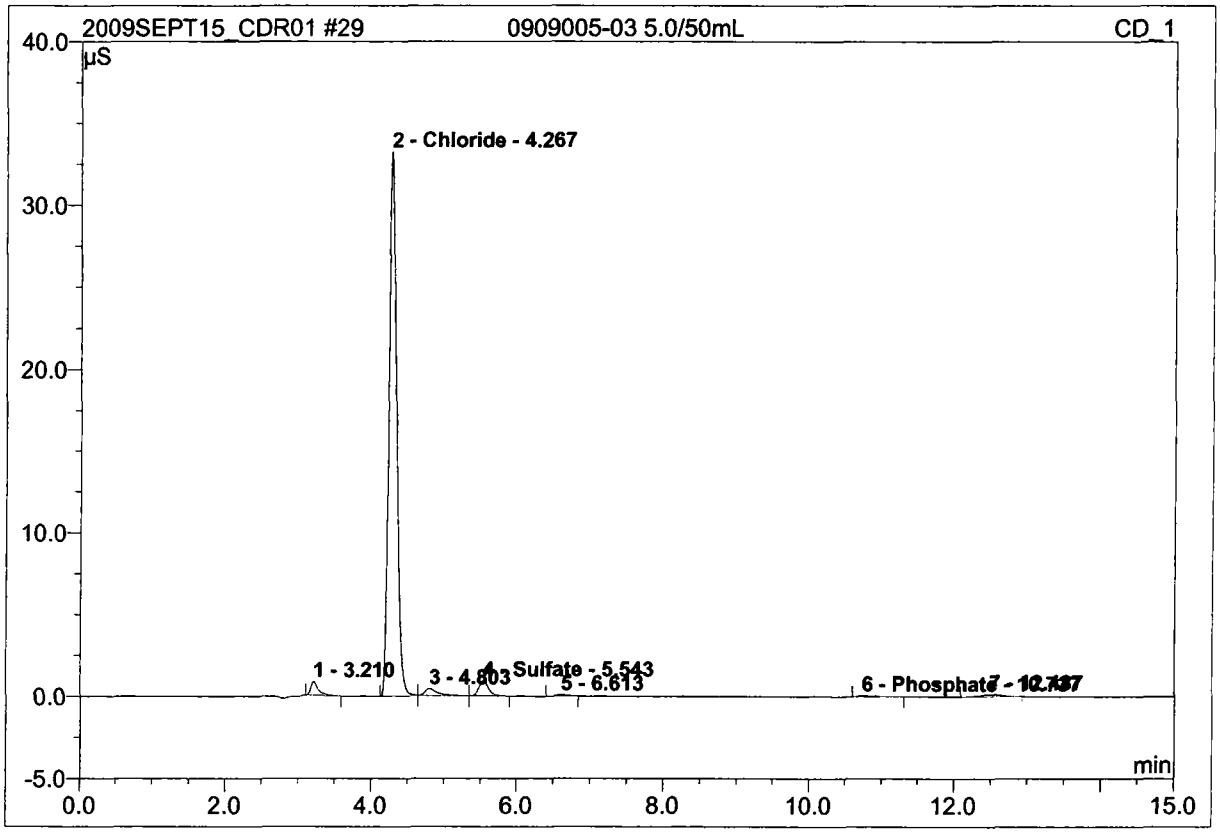


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.21	n.a.	0.615	0.079	3.14	n.a.	BMB
2	4.27	Chloride	19.355	2.342	92.47	8.703	BMB
3	4.80	n.a.	0.154	0.026	1.02	n.a.	BMB
4	5.54	Sulfate	0.131	0.020	0.80	0.233	BMB
5	6.61	n.a.	0.066	0.011	0.45	n.a.	BMB
6	12.50	n.a.	0.171	0.054	2.13	n.a.	BMB
Total:			20.492	2.532	100.00	8.936	

29 0909005-03 5.0/50mL

Chloride Dilution

Sample Name:	**0909005-03 5.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 17:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

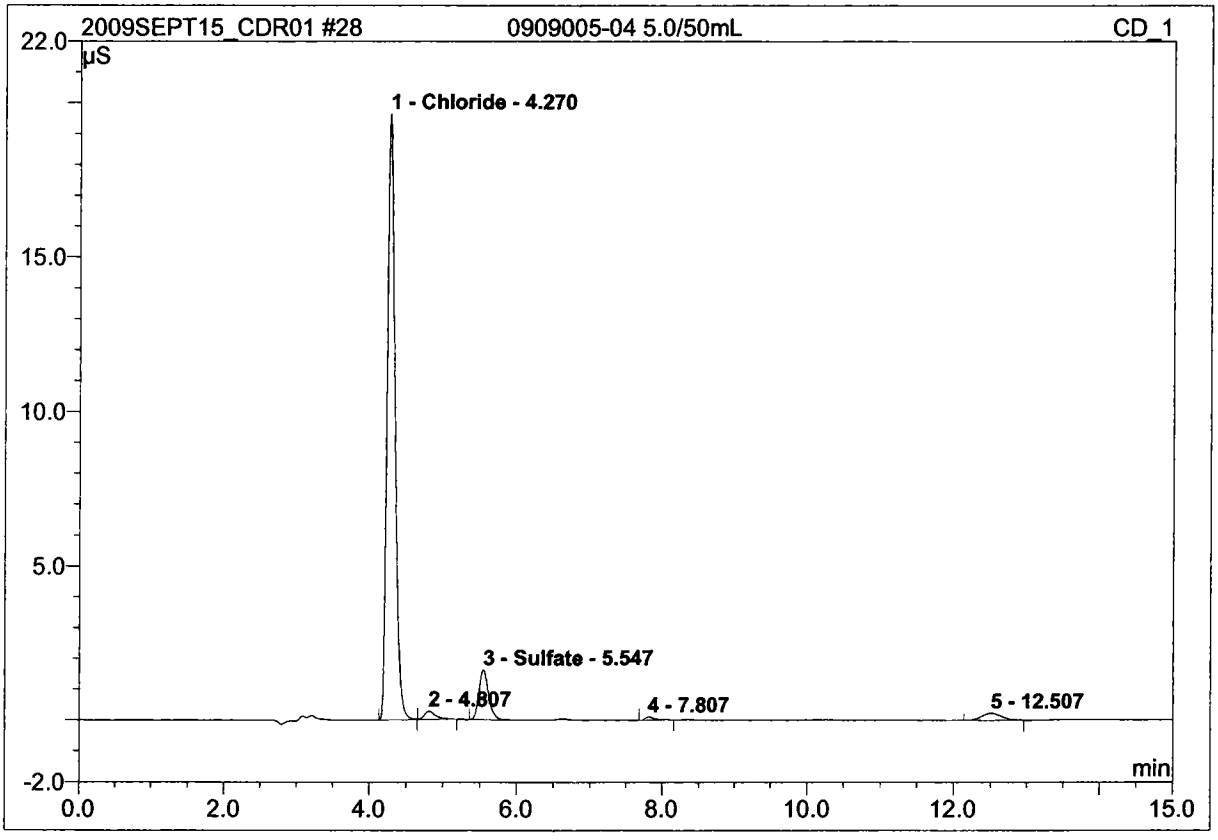


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.21	n.a.	0.834	0.102	2.29	n.a.	BMB
2	4.27	Chloride	33.257	4.067	91.08	15.030	BMB
3	4.80	n.a.	0.423	0.083	1.86	n.a.	BMB
4	5.54	Sulfate	0.922	0.140	3.13	0.832	BMB
5	6.61	n.a.	0.083	0.015	0.34	n.a.	BMB
6	10.74	Phosphate	0.062	0.016	0.36	0.425	BMB
7	12.49	n.a.	0.134	0.042	0.94	n.a.	BMB
Total:			35.715	4.465	100.00	16.288	

28 0909005-04 5.0/50mL

Chloride Dilution

Sample Name:	**0909005-04 5.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 16:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

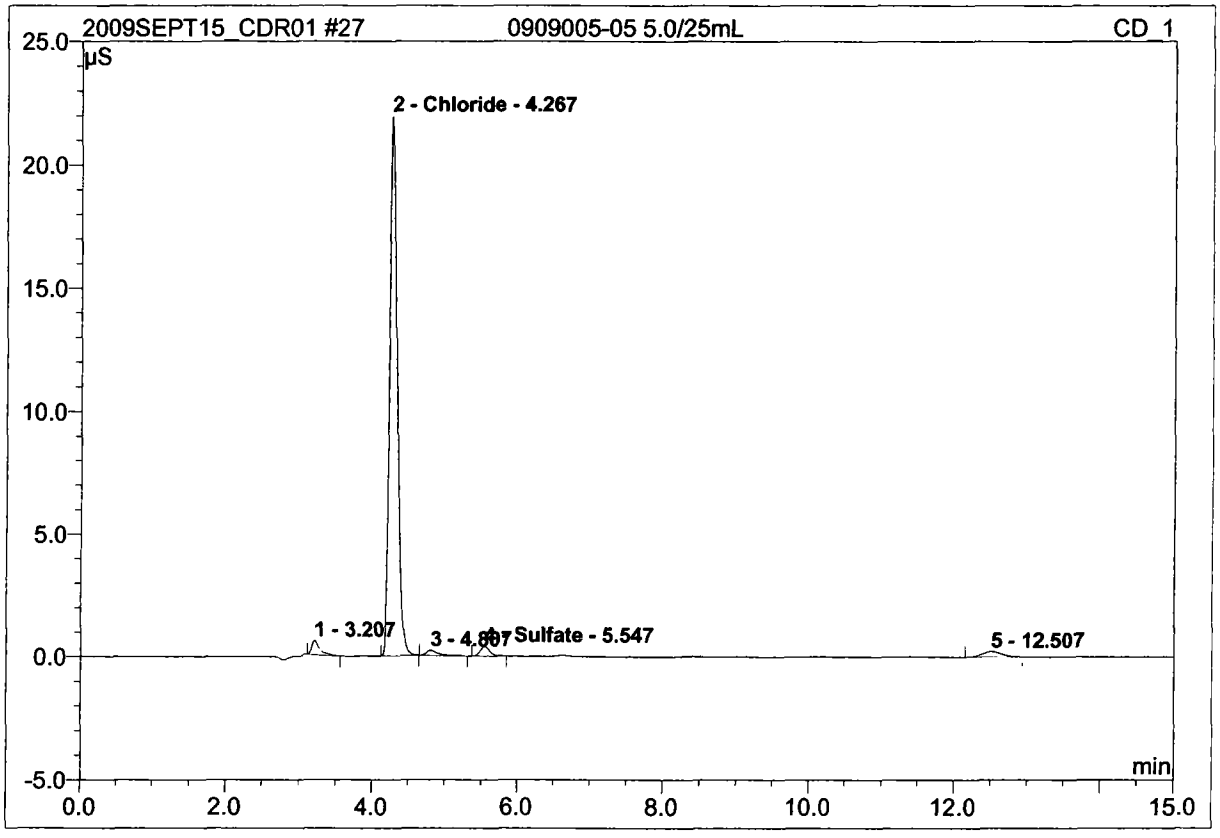


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	19.635	2.373	86.33	8.819	BMB
2	4.81	n.a.	0.266	0.047	1.72	n.a.	BMB
3	5.55	Sulfate	1.616	0.242	8.80	1.347	BMB
4	7.81	n.a.	0.106	0.015	0.55	n.a.	BMB
5	12.51	n.a.	0.230	0.071	2.60	n.a.	BMB
Total:			21.852	2.749	100.00	10.166	

27 0909005-05 5.0/25mL

Chloride Dilution

Sample Name:	**0909005-05 5.0/25mL**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 16:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

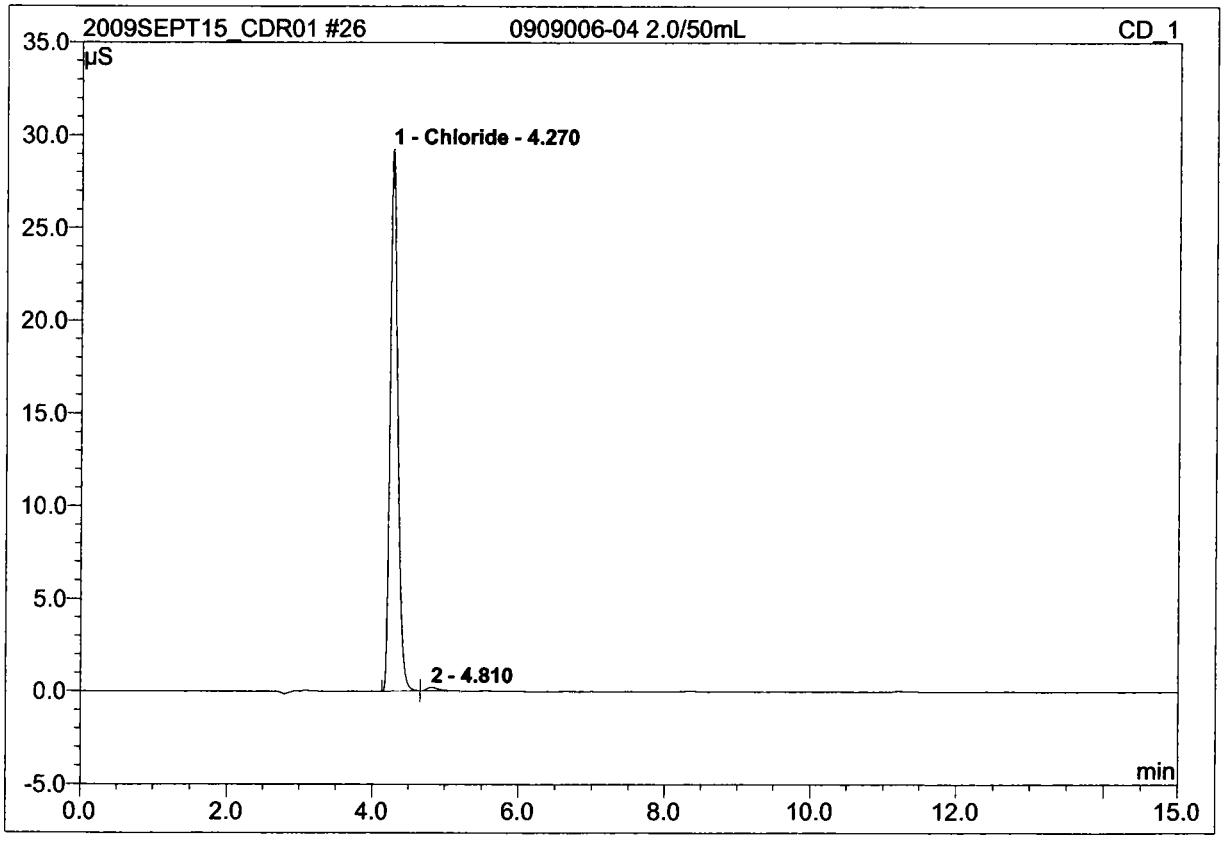


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.21	n.a.	0.579	0.072	2.50	n.a.	BMB
2	4.27	Chloride	21.948	2.661	91.76	9.874	BMB
3	4.81	n.a.	0.213	0.039	1.36	n.a.	BMB
4	5.55	Sulfate	0.399	0.061	2.10	0.437	BMB
5	12.51	n.a.	0.216	0.066	2.28	n.a.	BMB
Total:			23.355	2.900	100.00	10.311	

26 0909006-04 2.0/50mL

Chloride Dilution

Sample Name:	**0909006-04 2.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 16:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

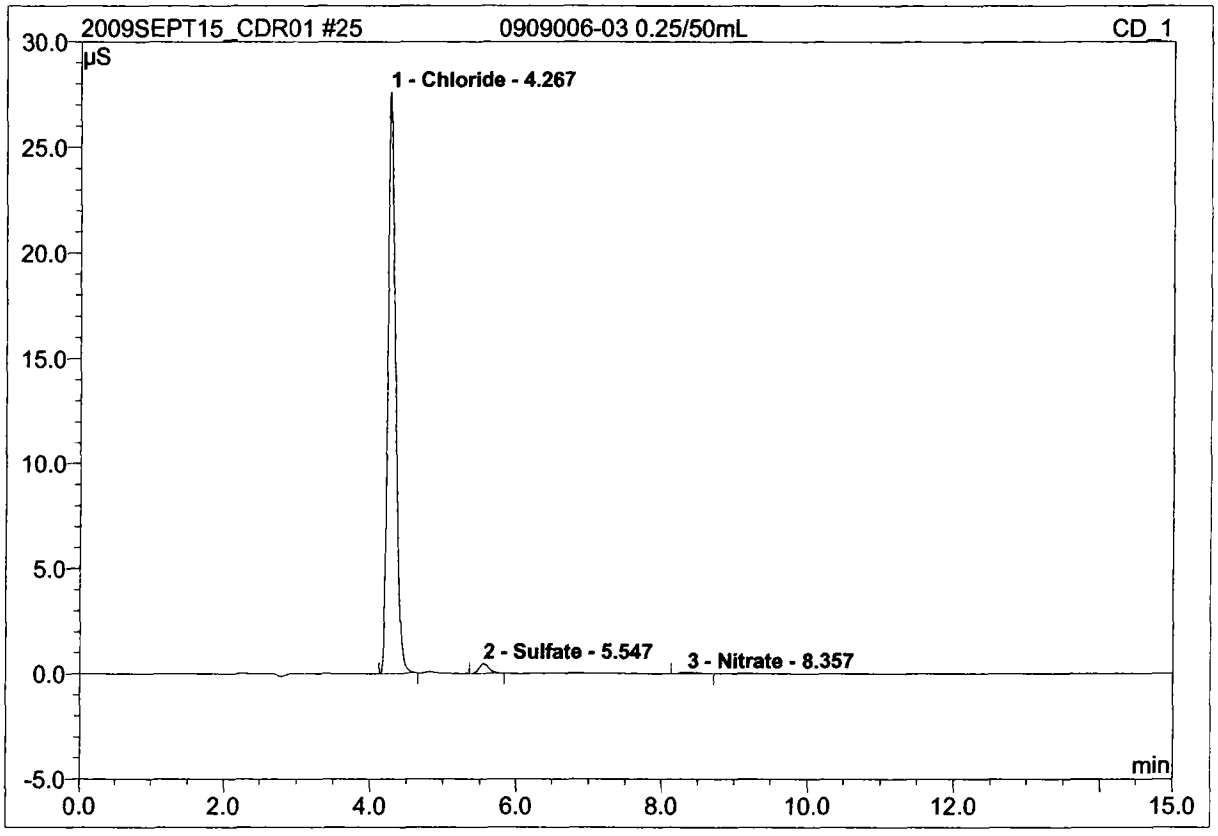


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	29.268	3.569	99.00	13.204	BMB
2	4.81	n.a.	0.203	0.036	1.00	n.a.	BMB
Total:			29.472	3.605	100.00	13.204	

25 0909006-03 0.25/50mL

Chloride Dilution

Sample Name:	**0909006-03 0.25/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

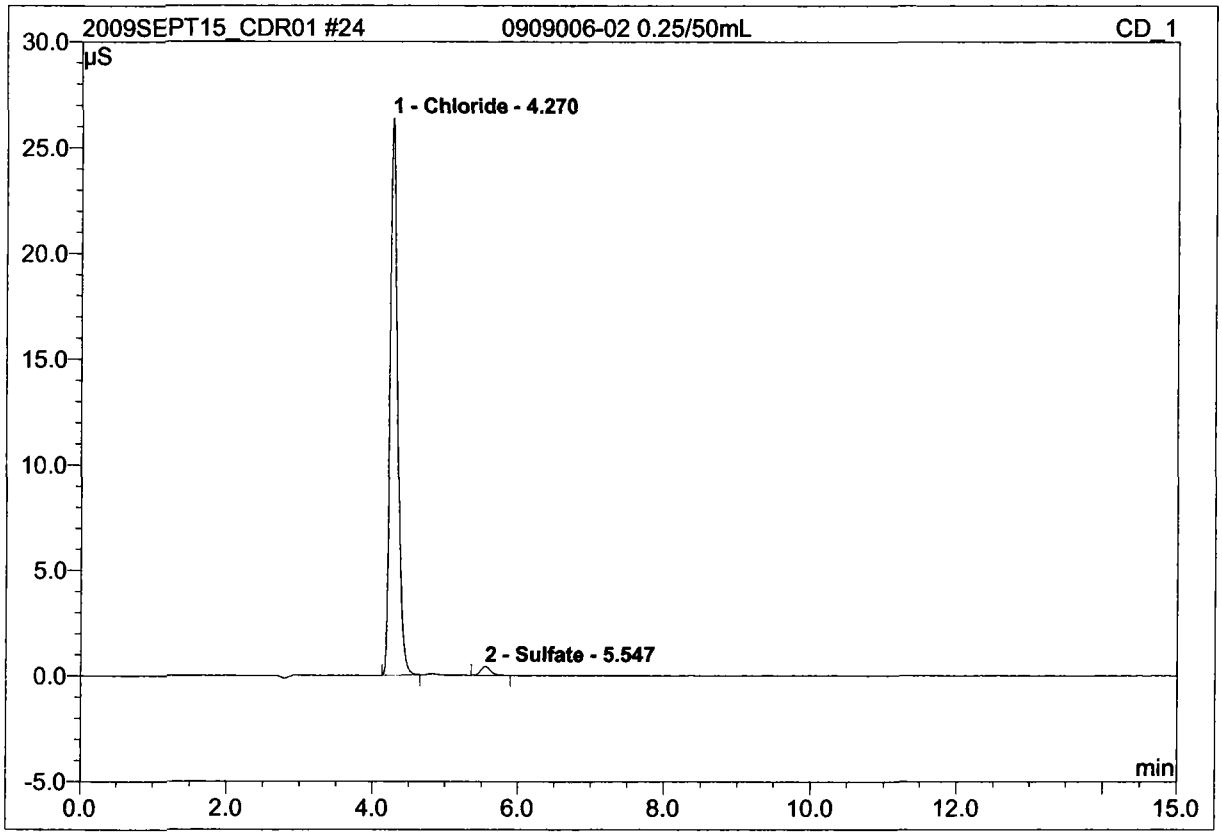


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	27.639	3.367	97.47	12.464	BMB
2	5.55	Sulfate	0.477	0.073	2.11	0.497	BMB
3	8.36	Nitrate	0.061	0.014	0.42	0.225	BMB
Total:			28.177	3.455	100.00	13.186	

24 0909006-02 0.25/50mL

Chloride Dilution

Sample Name:	**0909006-02 0.25/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 15:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

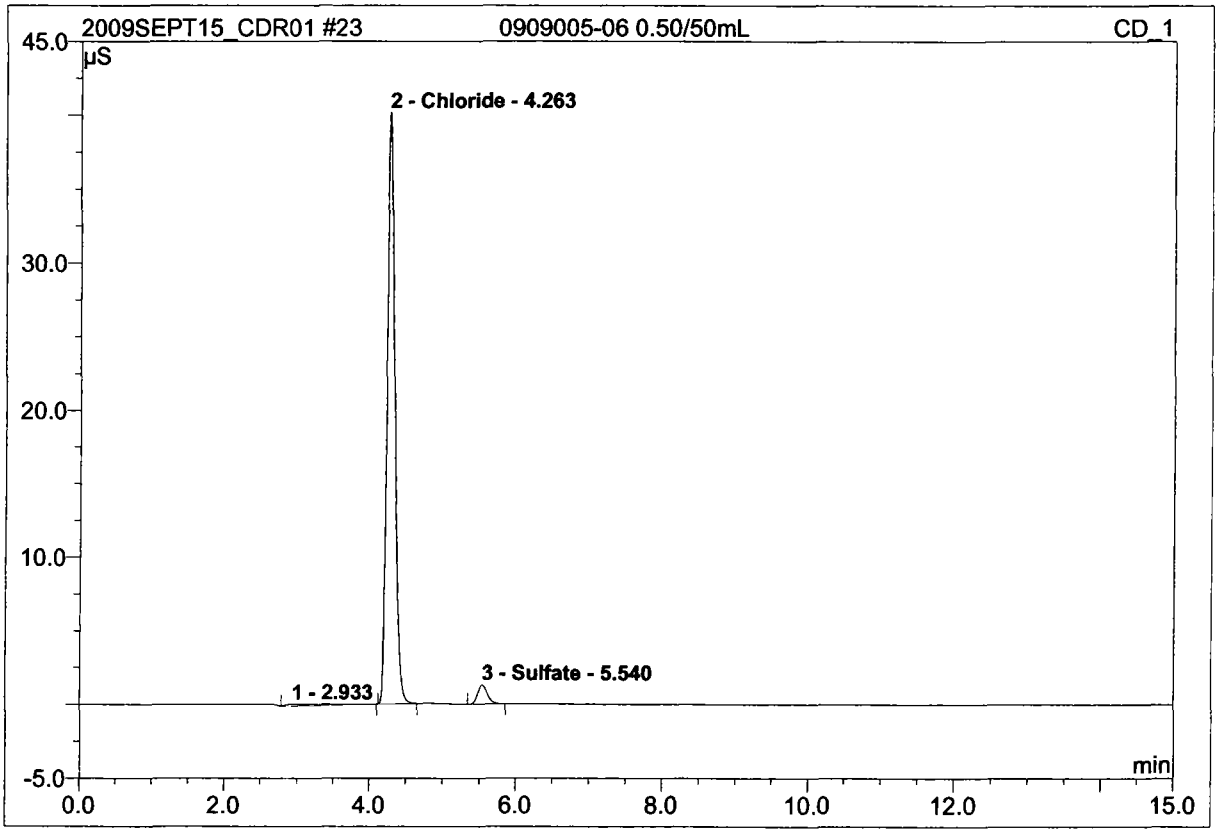


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	26.383	3.212	98.01	11.894	BMB
2	5.55	Sulfate	0.423	0.065	1.99	0.459	BMB
Total:			26.806	3.277	100.00	12.352	

23 0909005-06 0.50/50mL

Chloride Dilution

Sample Name:	**0909005-06 0.50/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 15:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

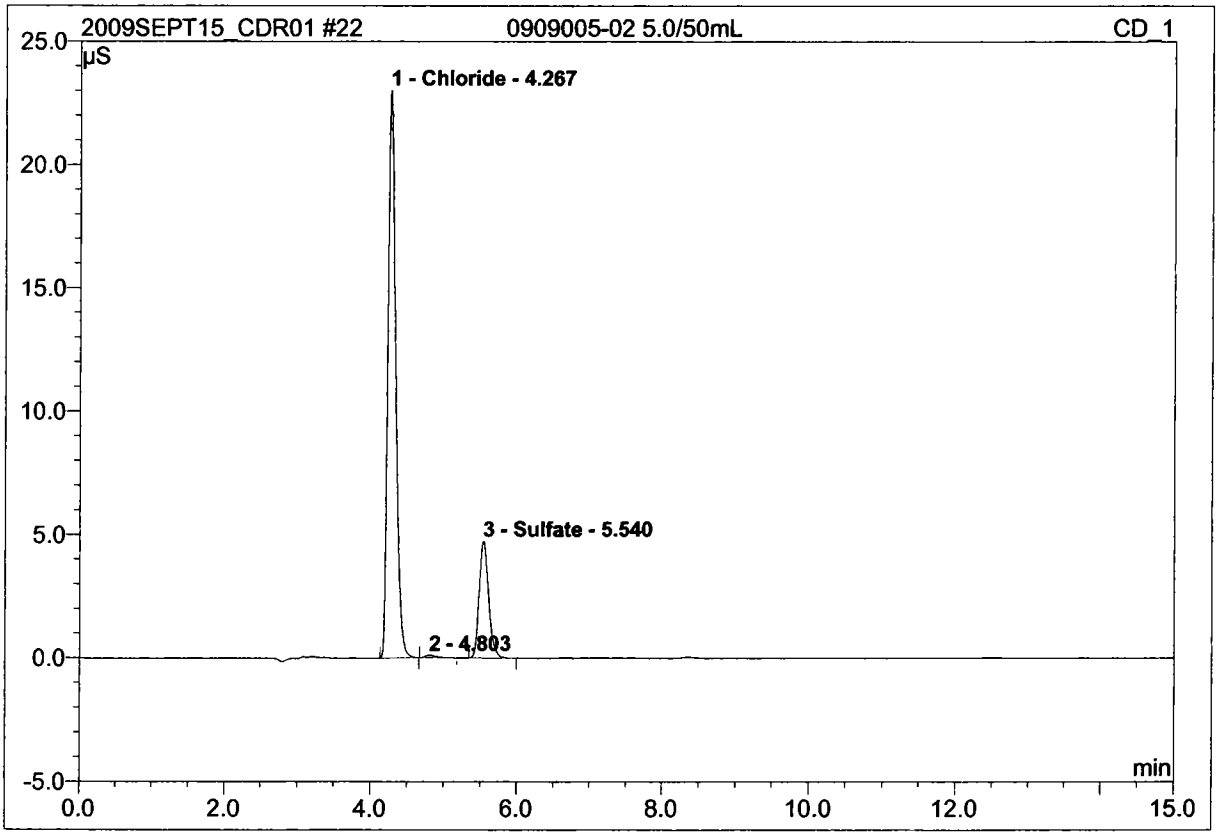


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.93	n.a.	0.138	0.077	1.48	n.a.	BMB
2	4.26	Chloride	40.168	4.938	94.70	18.224	BMB
3	5.54	Sulfate	1.330	0.200	3.83	1.134	BMB
Total:			41.636	5.215	100.00	19.358	

22 0909005-02 5.0/50mL

Chloride Dilution

Sample Name:	**0909005-02 5.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 14:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

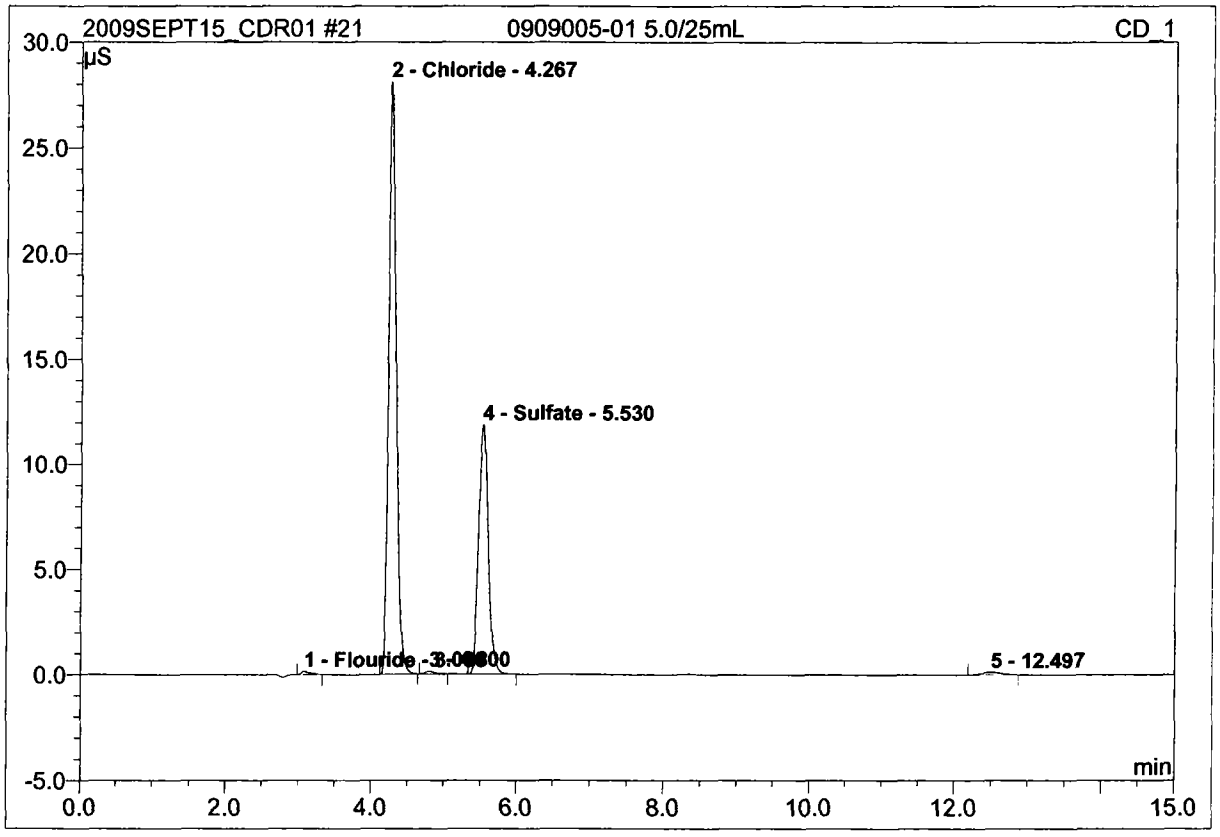


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	23.038	2.796	79.35	10.368	BMB
2	4.80	n.a.	0.105	0.017	0.48	n.a.	BMB
3	5.54	Sulfate	4.746	0.711	20.17	3.702	BMB
Total:			27.889	3.523	100.00	14.069	

21 0909005-01 5.0/25mL

Chloride Dilution

Sample Name:	**0909005-01 5.0/25mL**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 14:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

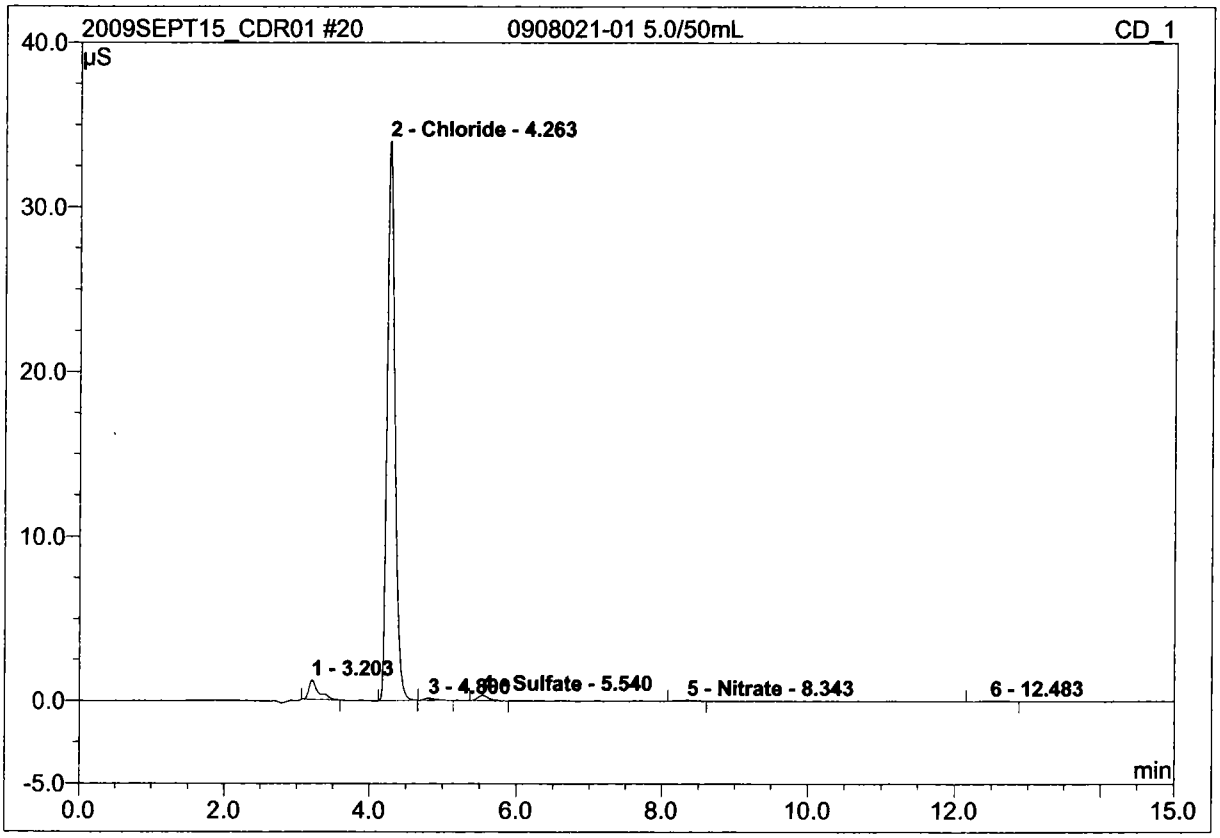


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.167	0.022	0.41	0.088	BMB
2	4.27	Chloride	28.116	3.425	64.39	12.678	BMB
3	4.80	n.a.	0.134	0.020	0.38	n.a.	BMB
4	5.53	Sulfate	11.873	1.815	34.11	9.250	BMB
5	12.50	n.a.	0.123	0.038	0.71	n.a.	BMB
Total:			40.414	5.320	100.00	22.015	

20 0908021-01 5.0/50mL

Chloride Dilution

Sample Name:	**0908021-01 5.0/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 14:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

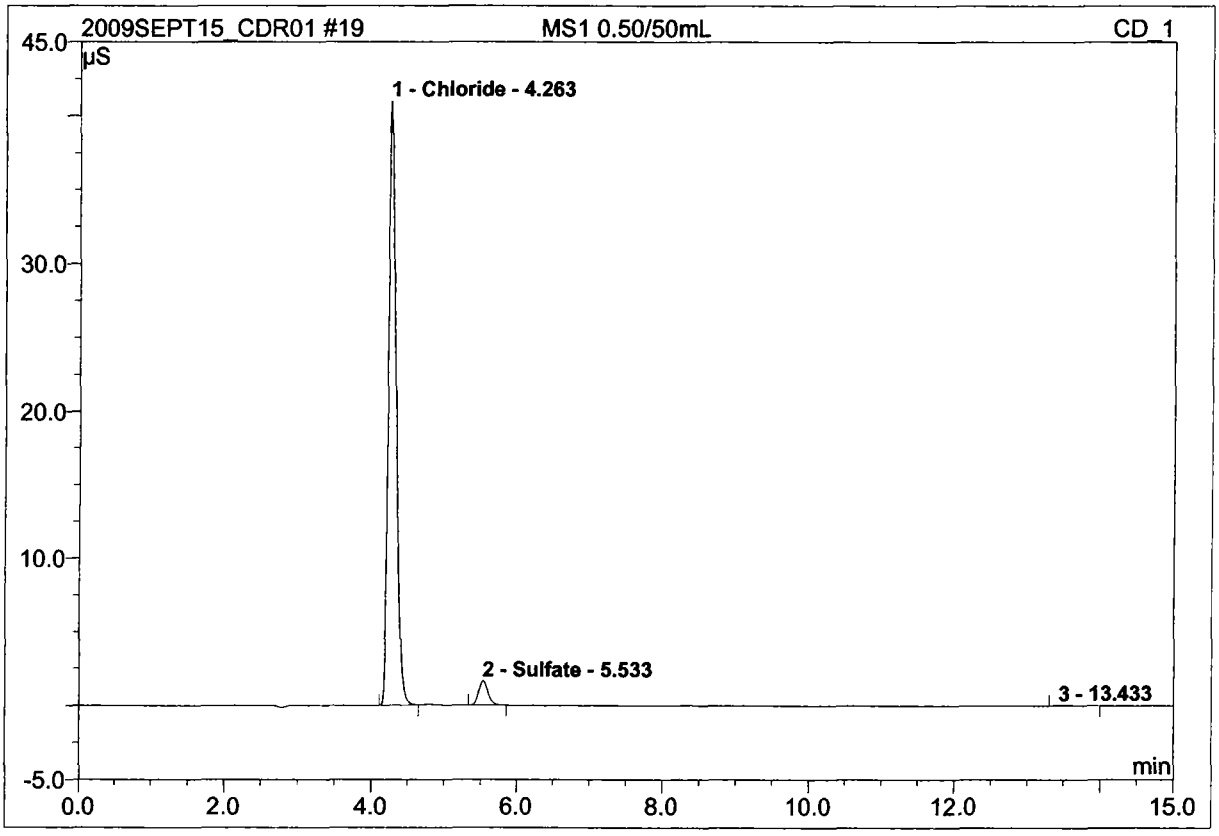


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.20	n.a.	1.178	0.179	4.02	n.a.	BMB
2	4.26	Chloride	34.012	4.178	93.71	15.438	BMB
3	4.80	n.a.	0.132	0.023	0.51	n.a.	BMB
4	5.54	Sulfate	0.325	0.053	1.20	0.399	BMB
5	8.34	Nitrate	0.052	0.011	0.24	0.200	BMB
6	12.48	n.a.	0.045	0.014	0.32	n.a.	BMB
Total:			35.743	4.459	100.00	16.037	

19 MS1 0.50/50mL source 0909005-07

Chloride Dilution

Sample Name:	**MS1 0.50/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 14:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

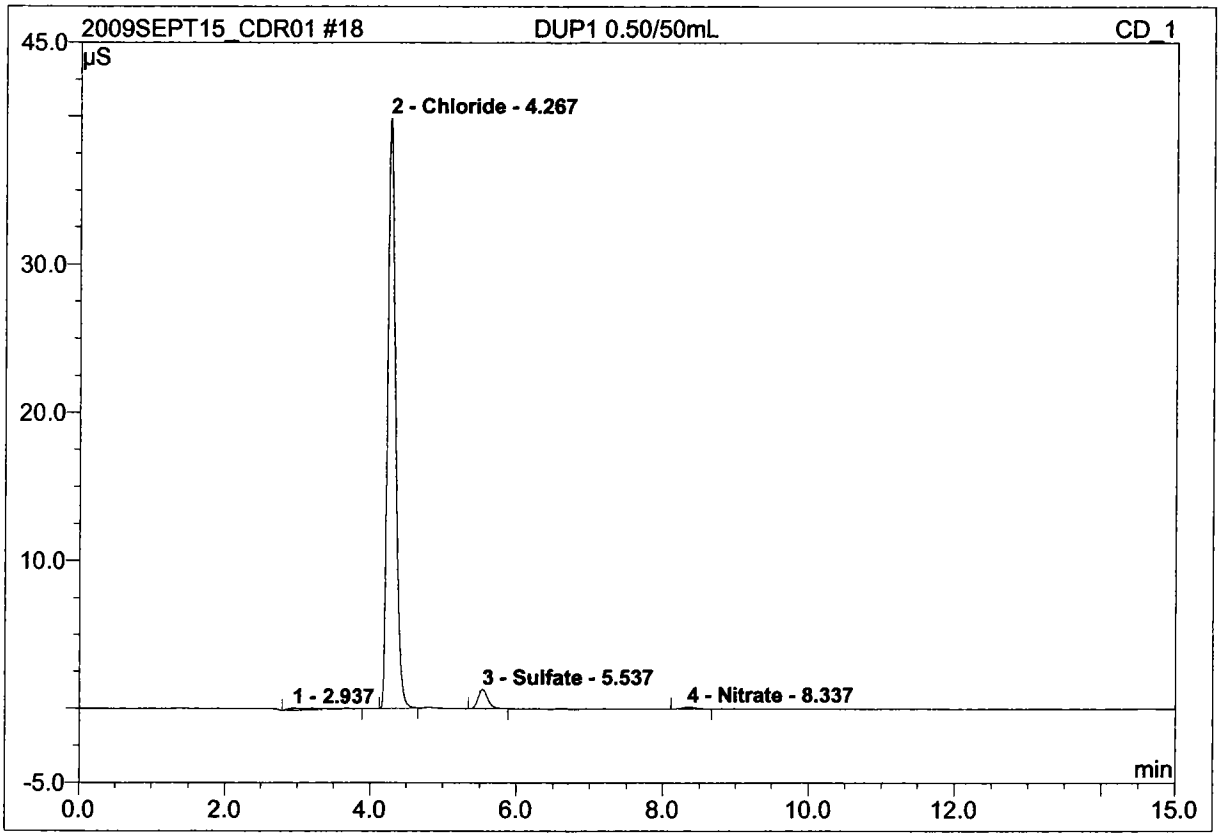


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.26	Chloride	41.011	5.042	95.02	18.605	BMB
2	5.53	Sulfate	1.653	0.247	4.65	1.372	BMB
3	13.43	n.a.	0.058	0.018	0.33	n.a.	BMB
Total:			42.723	5.306	100.00	19.977	

18 DUP1 0.50/50mL source 0909005-07

Chloride Dilution

Sample Name:	**DUP1 0.50/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

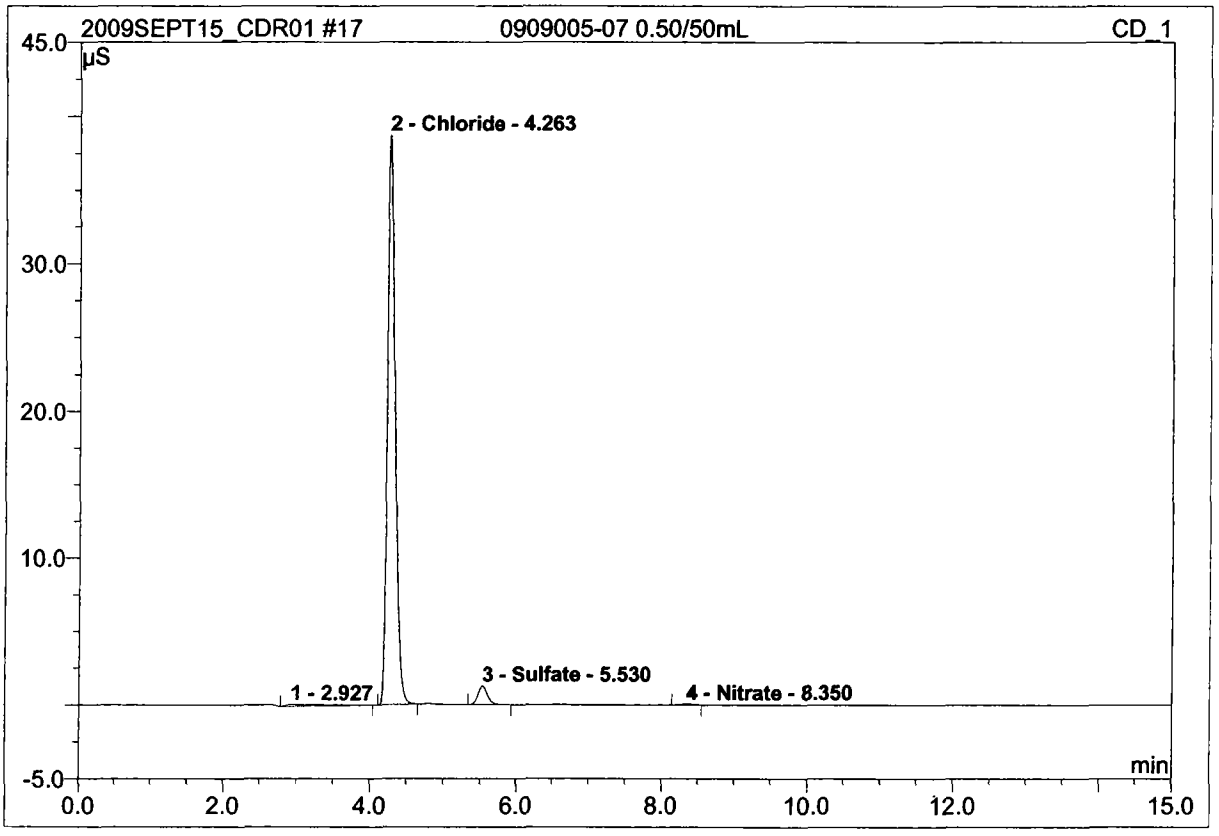


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.94	n.a.	0.142	0.069	1.33	n.a.	BMB
2	4.27	Chloride	39.892	4.902	94.40	18.092	BMB
3	5.54	Sulfate	1.309	0.196	3.77	1.116	BMB
4	8.34	Nitrate	0.127	0.026	0.49	0.301	BMB
Total:			41.469	5.193	100.00	19.508	

17 0909005-07 0.50/50mL

Chloride Dilution

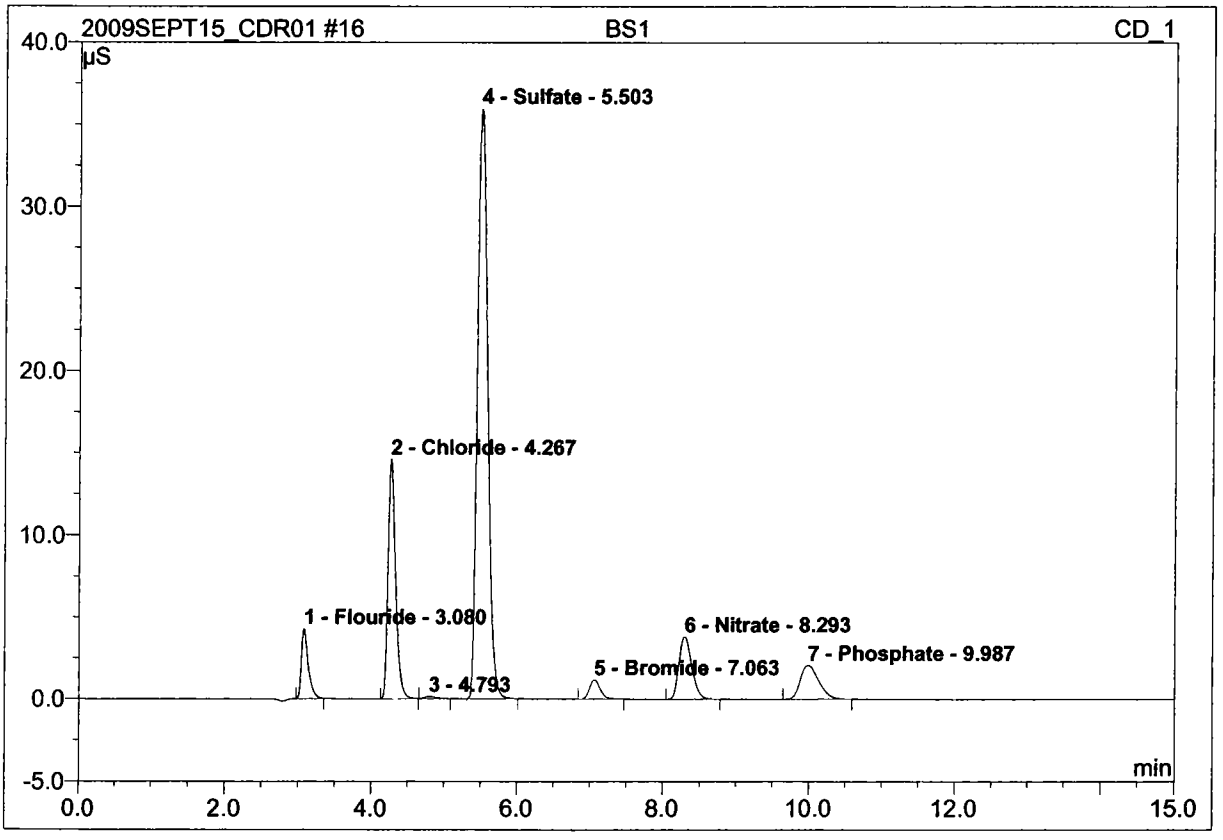
Sample Name:	**0909005-07 0.50/50mL**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.93	n.a.	0.139	0.077	1.52	n.a.	BMB
2	4.26	Chloride	38.712	4.757	94.45	17.562	BMB
3	5.53	Sulfate	1.283	0.193	3.83	1.101	BMB
4	8.35	Nitrate	0.053	0.010	0.20	0.195	BMB
Total:			40.187	5.037	100.00	18.857	

16 BS1

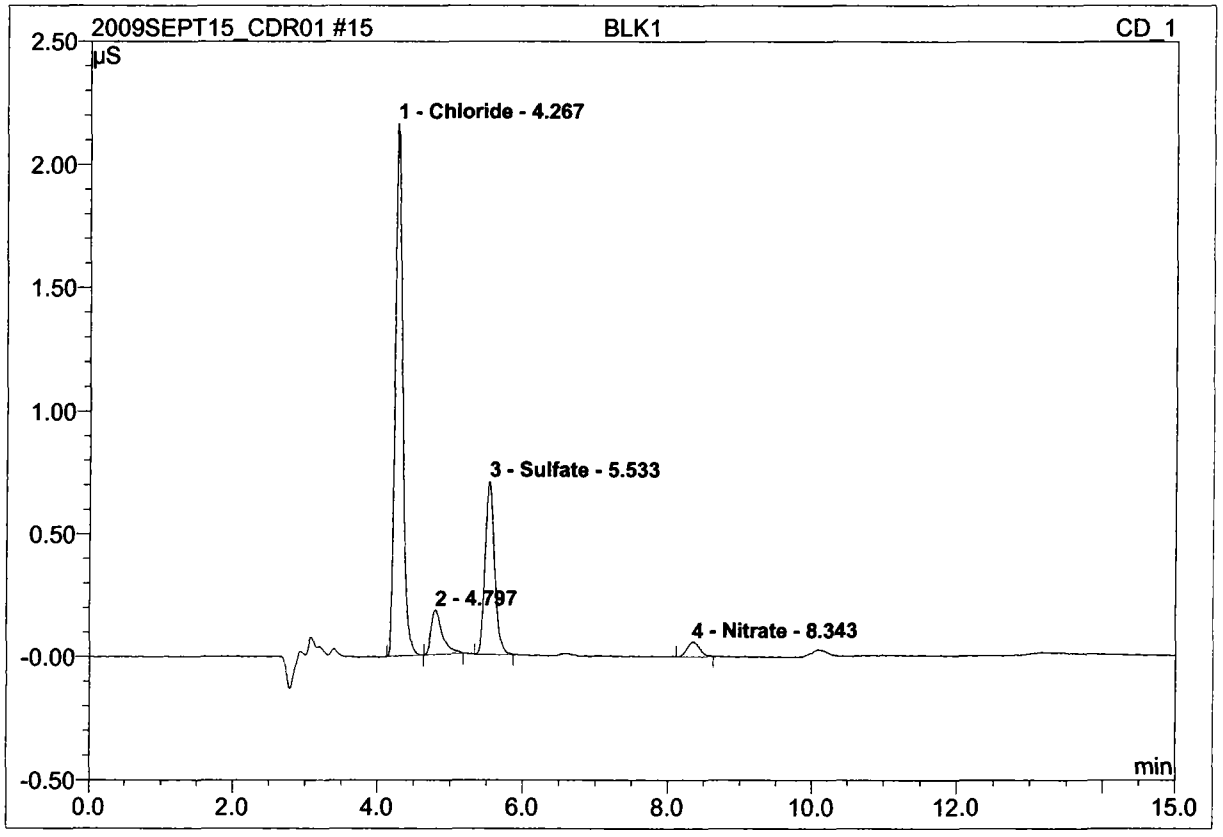
Sample Name:	**BS1**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 13:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.286	0.451	4.71	1.022	BMB
2	4.27	Chloride	14.621	1.757	18.37	6.559	BMB
3	4.79	n.a.	0.140	0.023	0.24	n.a.	BMB
4	5.50	Sulfate	35.941	5.760	60.23	29.079	BMB
5	7.06	Bromide	1.186	0.200	2.09	2.021	BMB
6	8.29	Nitrate	3.825	0.770	8.05	5.346	BMB
7	9.99	Phosphate	2.073	0.603	6.30	7.590	BMB
Total:			62.072	9.563	100.00	51.616	

15 BLK1

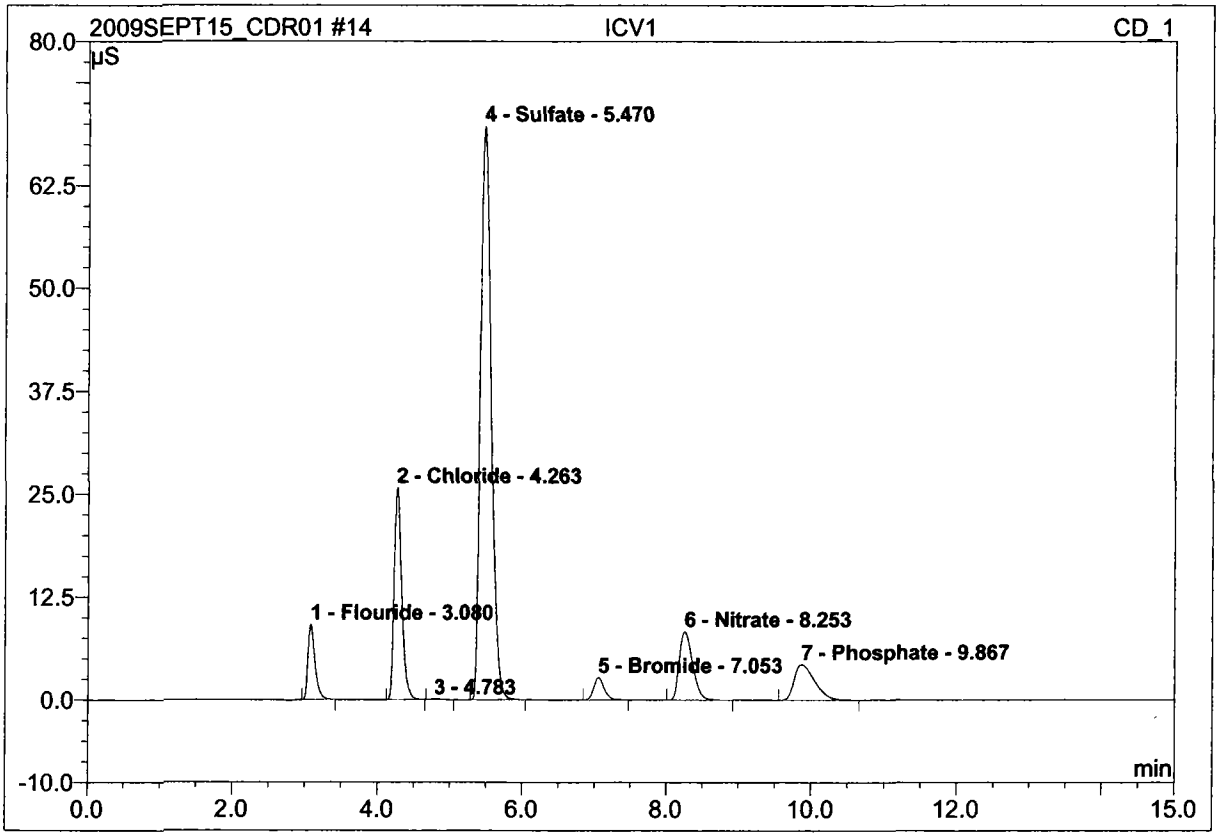
Sample Name:	**BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 12:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	2.167	0.255	62.66	1.052	BMB
2	4.80	n.a.	0.182	0.033	8.00	n.a.	BMB
3	5.53	Sulfate	0.705	0.107	26.35	0.670	BMB
4	8.34	Nitrate	0.061	0.012	2.99	0.210	BMB
Total:			3.114	0.407	100.00	1.932	

14 ICV1

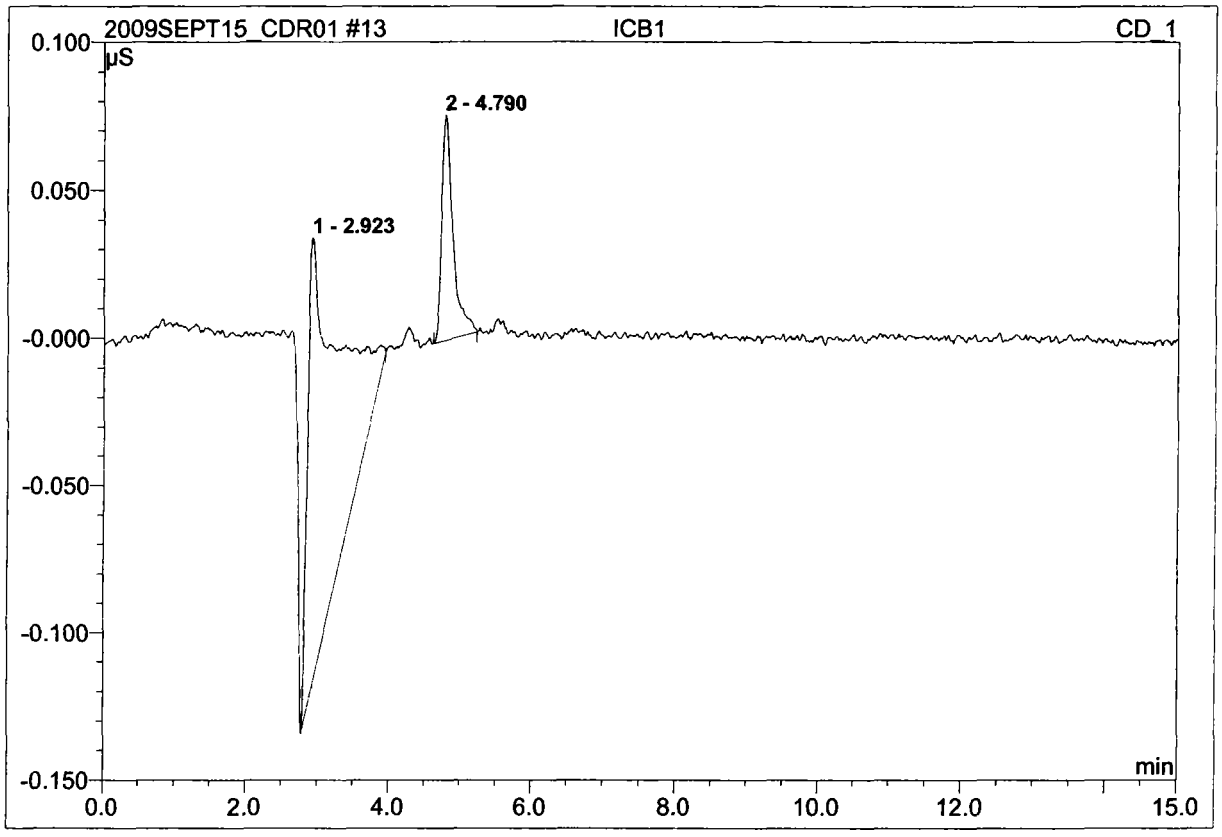
Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 12:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.150	0.994	5.05	2.223	BMB
2	4.26	Chloride	25.773	3.134	15.94	11.609	BMB
3	4.78	n.a.	0.073	0.011	0.06	n.a.	BMB
4	5.47	Sulfate	69.675	11.921	60.64	60.040	BMB
5	7.05	Bromide	2.700	0.452	2.30	4.300	BMB
6	8.25	Nitrate	8.310	1.759	8.95	12.010	BMB
7	9.87	Phosphate	4.305	1.387	7.06	16.982	BMB
Total:			119.985	19.658	100.00	107.163	

13 ICB1

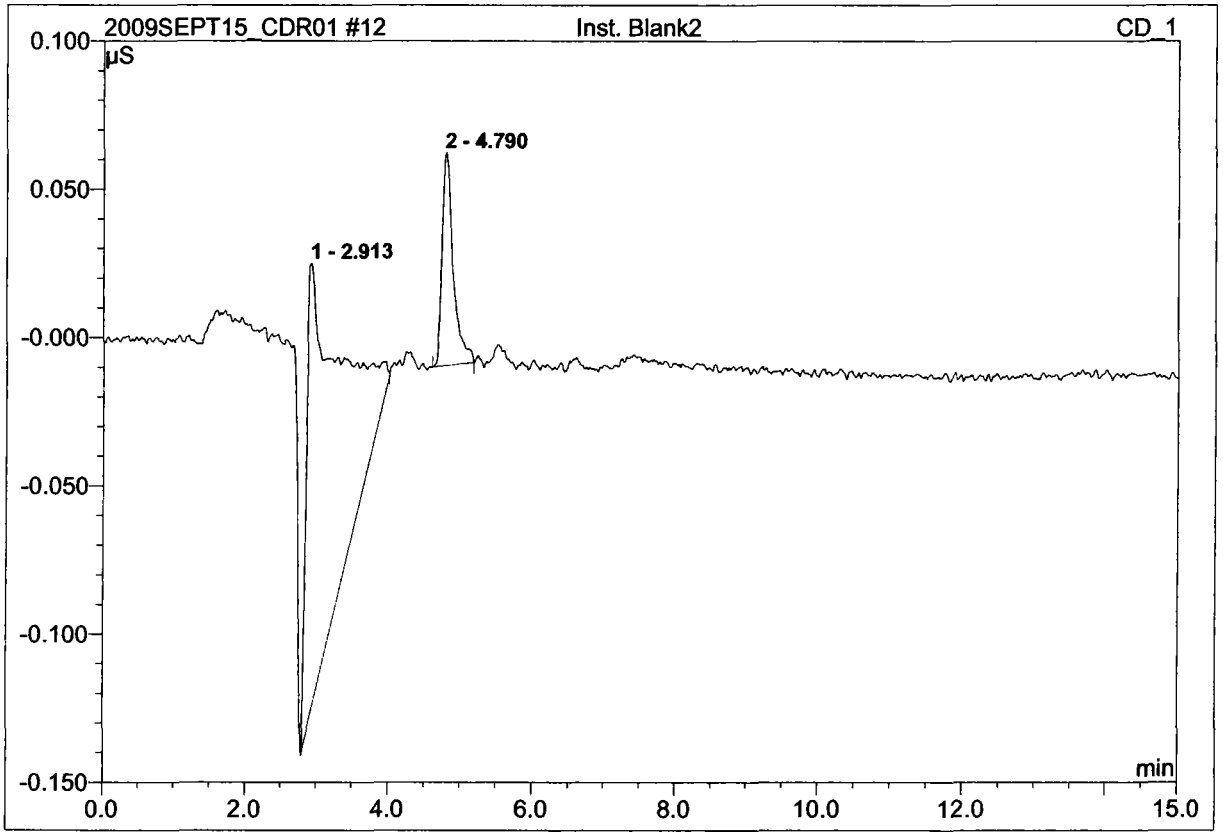
Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 12:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	n.a.	0.153	0.073	83.95	n.a.	BMB
2	4.79	n.a.	0.076	0.014	16.05	n.a.	BMB
Total:			0.229	0.087	100.00	0.000	

12 Inst. Blank2

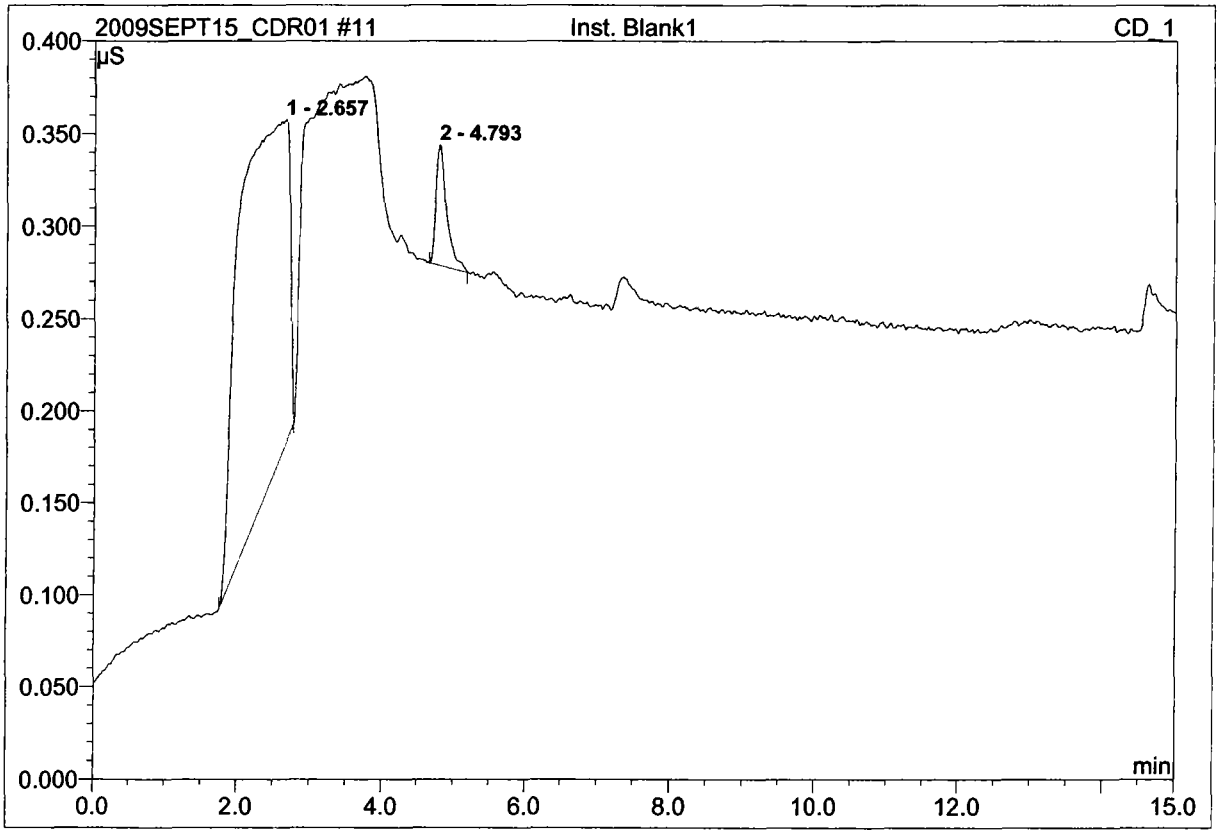
Sample Name:	**Inst. Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 11:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	n.a.	0.152	0.080	85.87	n.a.	BMB
2	4.79	n.a.	0.072	0.013	14.13	n.a.	BMB
Total:			0.224	0.093	100.00	0.000	

11 Inst. Blank1

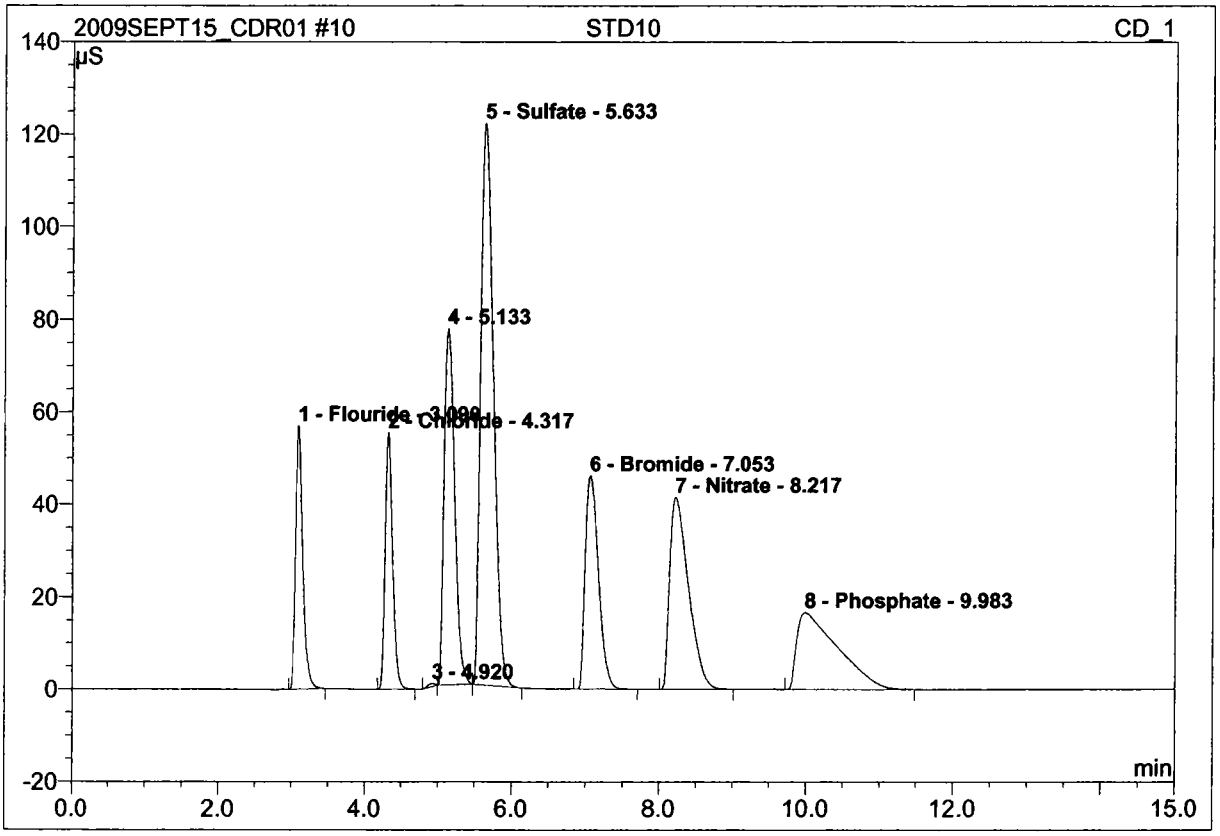
Sample Name:	**Inst. Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 11:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.66	n.a.	0.176	0.161	93.48	n.a.	BMB
2	4.79	n.a.	0.065	0.011	6.52	n.a.	BMB
Total:			0.241	0.172	100.00	0.000	

10 STD10

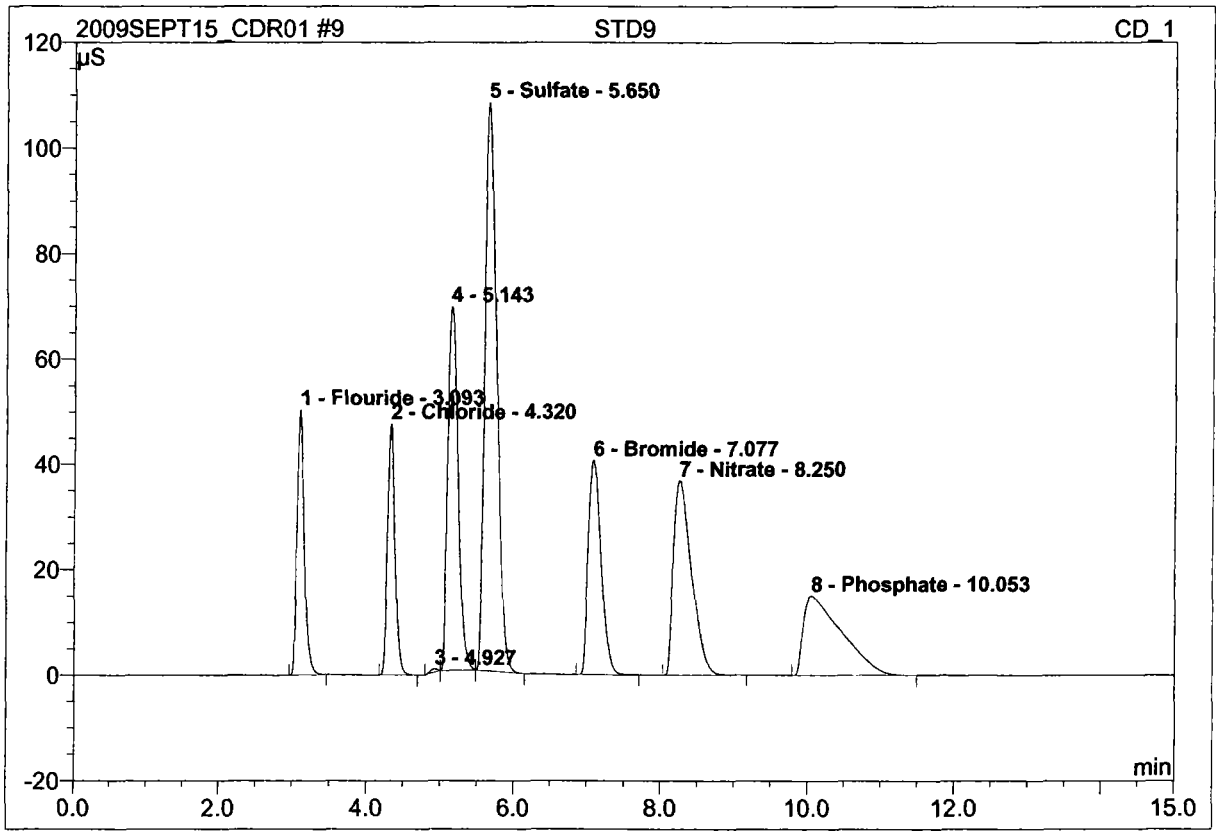
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	56.969	6.559	7.95	16.110	BMB
2	4.32	Chloride	55.581	6.566	7.95	24.195	BMB
3	4.92	n.a.	0.606	0.069	0.08	n.a.	BMb
4	5.13	n.a.	77.066	12.846	15.56	n.a.	bMB
5	5.63	Sulfate	121.538	23.941	29.00	120.441	BMB
6	7.05	Bromide	46.106	9.631	11.67	52.054	BMB
7	8.22	Nitrate	41.498	12.320	14.93	80.252	BMB
8	9.98	Phosphate	16.621	10.615	12.86	114.809	BMB
Total:			415.986	82.546	100.00	407.861	

9 STD9

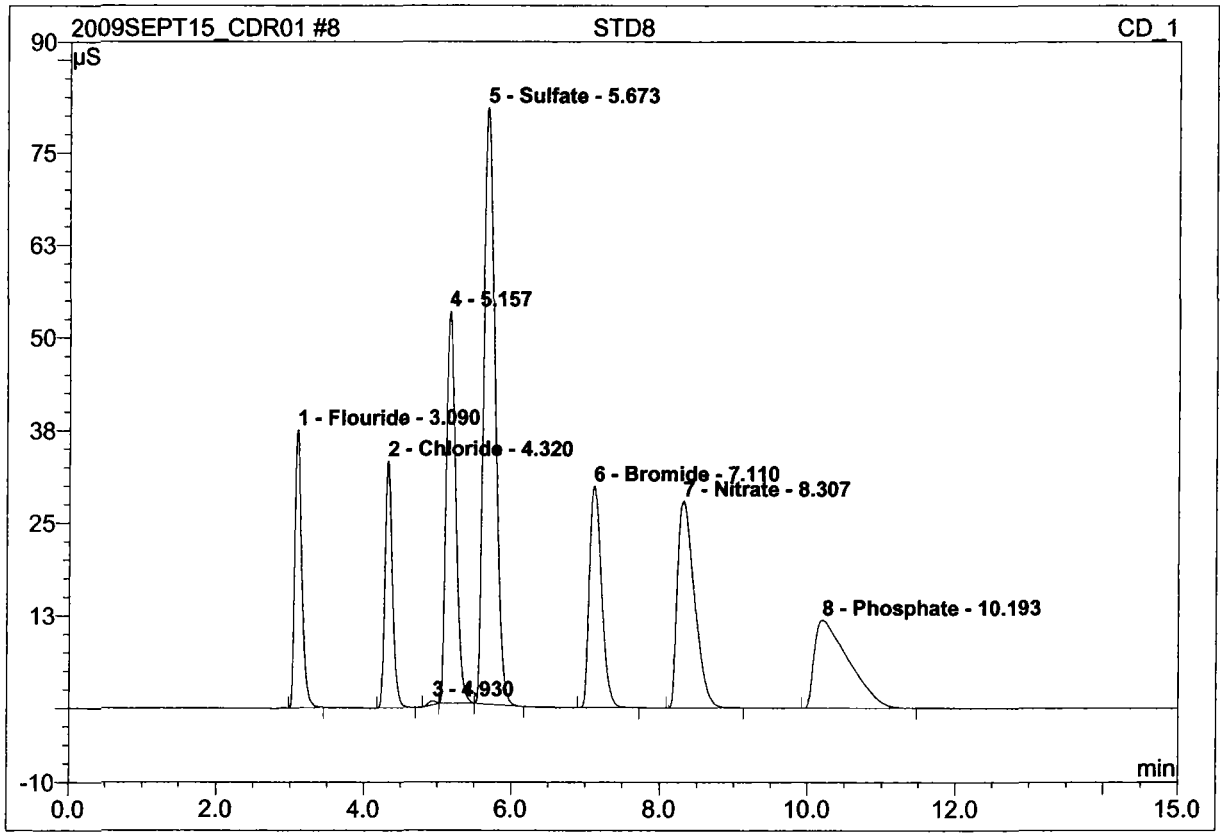
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	50.452	5.732	8.05	13.823	BMB
2	4.32	Chloride	47.792	5.636	7.91	20.783	BMB
3	4.93	n.a.	0.589	0.068	0.10	n.a.	BMb
4	5.14	n.a.	69.145	11.267	15.82	n.a.	bMb
5	5.65	Sulfate	107.896	20.610	28.93	103.704	bMB
6	7.08	Bromide	40.639	8.261	11.60	46.818	BMB
7	8.25	Nitrate	36.876	10.550	14.81	69.159	BMB
8	10.05	Phosphate	15.071	9.107	12.78	100.125	BMB
Total:			368.461	71.232	100.00	354.413	

8 STD8

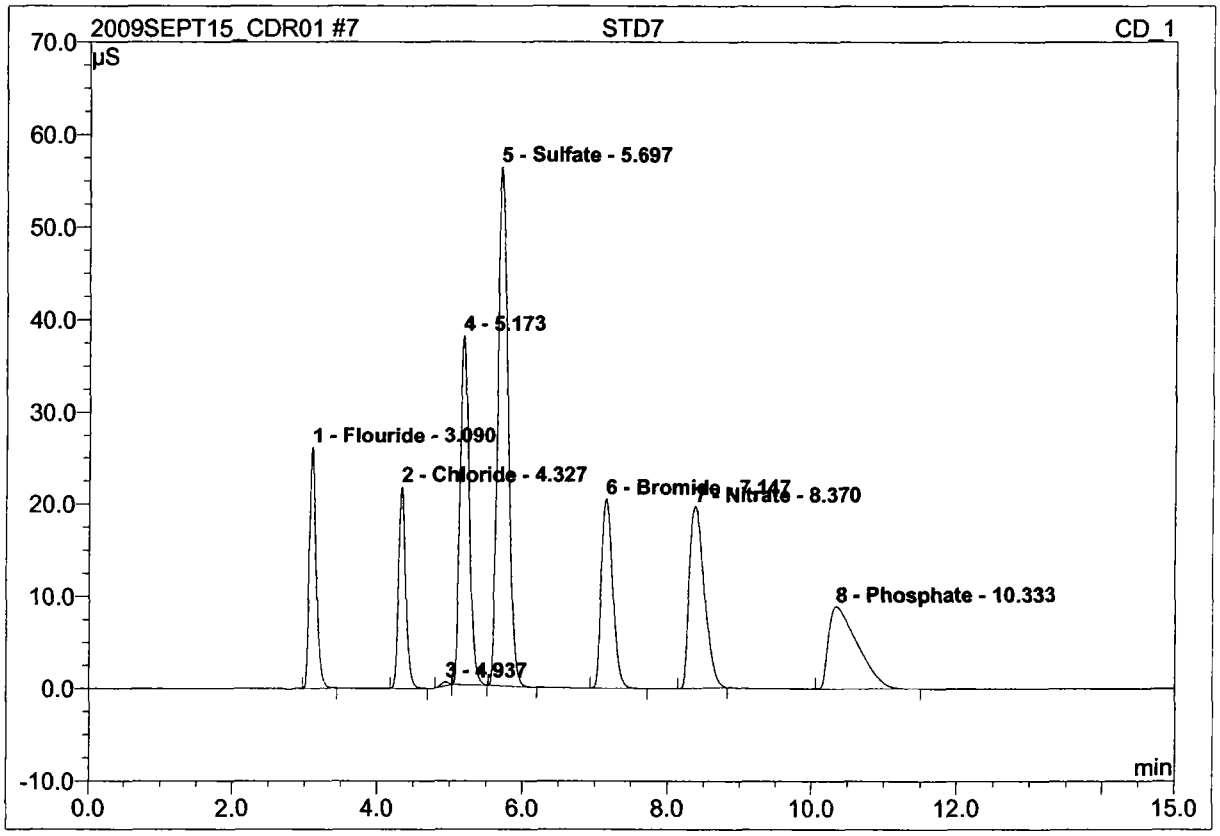
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	37.554	4.142	8.24	9.673	BMB
2	4.32	Chloride	33.384	3.921	7.80	14.496	BMB
3	4.93	n.a.	0.530	0.064	0.13	n.a.	BMB
4	5.16	n.a.	52.932	8.218	16.36	n.a.	bMB
5	5.67	Sulfate	80.582	14.462	28.78	72.806	BMB
6	7.11	Bromide	29.910	5.751	11.45	36.168	BMB
7	8.31	Nitrate	27.925	7.370	14.67	48.897	BMB
8	10.19	Phosphate	11.912	6.320	12.58	71.795	BMB
Total:			274.730	50.248	100.00	253.834	

7 STD7

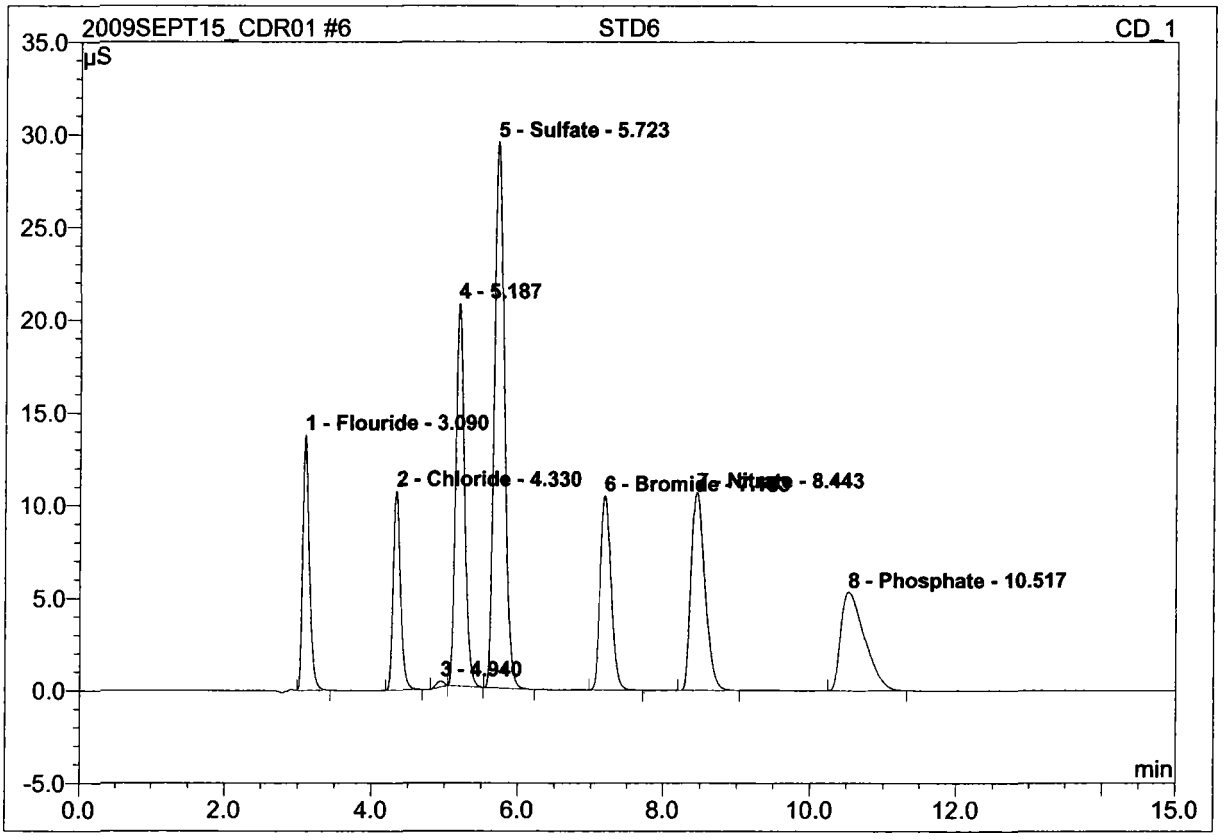
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	26.188	2.809	8.45	6.410	BMB
2	4.33	Chloride	21.884	2.560	7.70	9.503	BMB
3	4.94	n.a.	0.442	0.054	0.16	n.a.	BMb
4	5.17	n.a.	37.903	5.624	16.92	n.a.	bMB
5	5.70	Sulfate	56.252	9.544	28.71	48.091	BMB
6	7.15	Bromide	20.518	3.758	11.31	26.313	BMB
7	8.37	Nitrate	19.724	4.761	14.32	31.929	BMB
8	10.33	Phosphate	8.962	4.131	12.43	48.290	BMB
Total:			191.872	33.240	100.00	170.537	

6 STD6

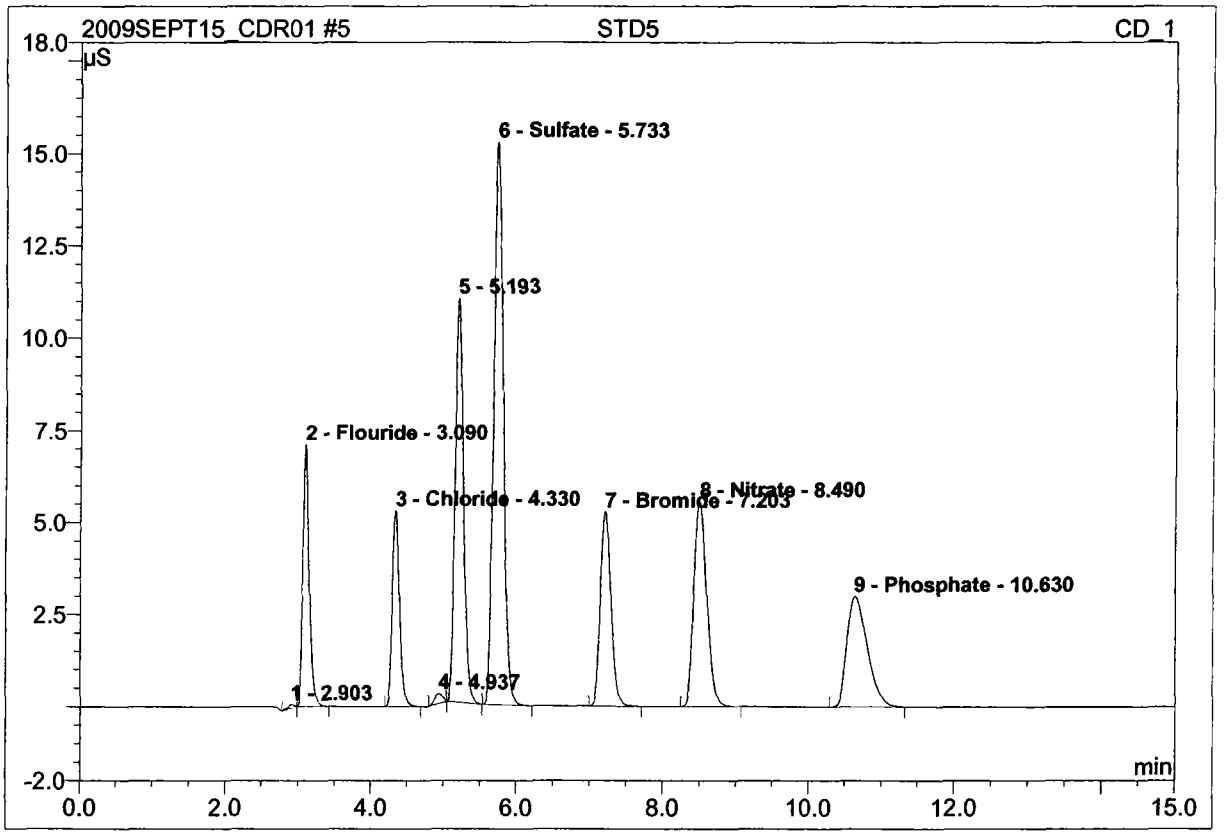
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	13.795	1.424	8.62	3.191	BMB
2	4.33	Chloride	10.749	1.246	7.55	4.686	BMB
3	4.94	n.a.	0.325	0.041	0.25	n.a.	BMB
4	5.19	n.a.	20.661	2.903	17.58	n.a.	BMB
5	5.72	Sulfate	29.488	4.732	28.65	23.910	BMB
6	7.18	Bromide	10.490	1.828	11.07	14.776	BMB
7	8.44	Nitrate	10.683	2.348	14.22	15.957	BMB
8	10.52	Phosphate	5.326	1.992	12.06	24.077	BMB
Total:			101.517	16.513	100.00	86.597	

5 STD5

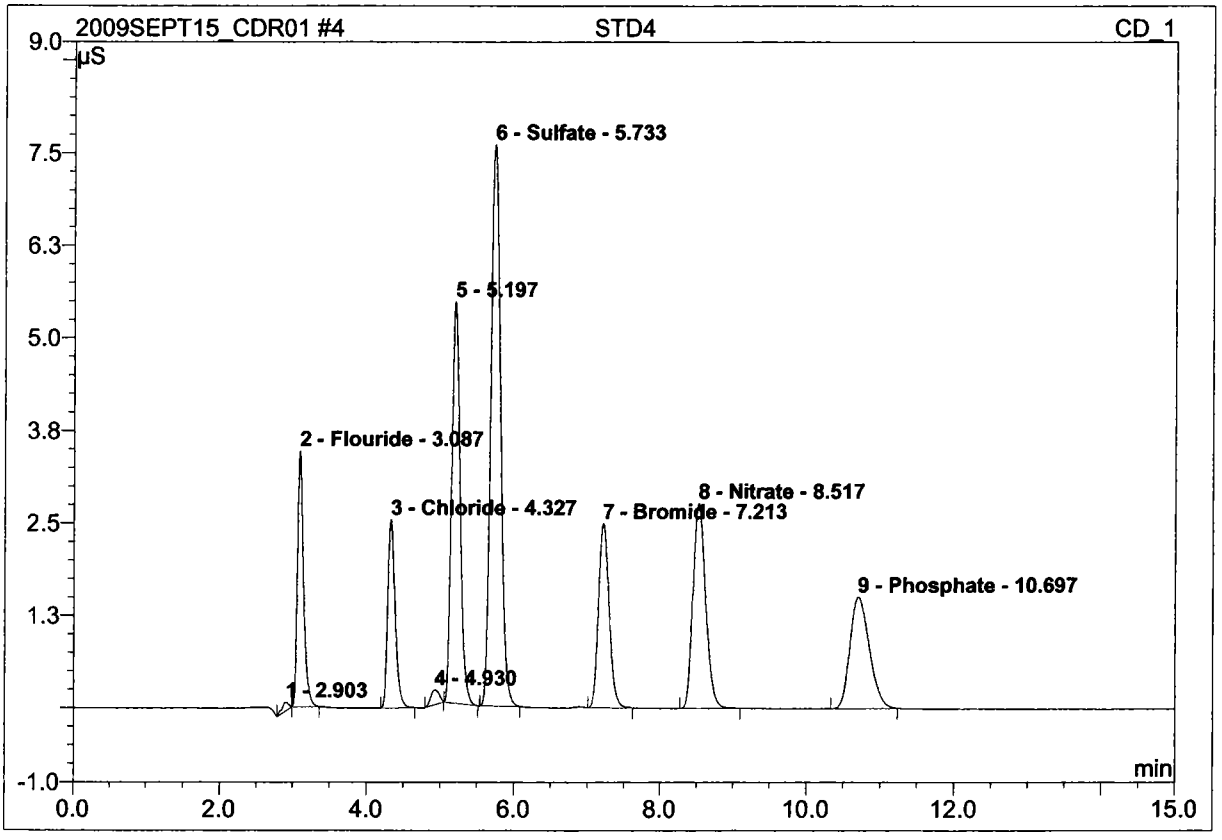
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.098	0.010	0.12	n.a.	BMB
2	3.09	Flouride	7.120	0.716	8.66	1.606	BMB
3	4.33	Chloride	5.325	0.614	7.43	2.367	BMB
4	4.94	n.a.	0.265	0.034	0.41	n.a.	BMB
5	5.19	n.a.	10.966	1.485	17.97	n.a.	BMB
6	5.73	Sulfate	15.266	2.376	28.75	12.073	BMB
7	7.20	Bromide	5.279	0.897	10.85	7.998	BMB
8	8.49	Nitrate	5.569	1.157	13.99	7.959	BMB
9	10.63	Phosphate	3.001	0.978	11.82	12.105	BMB
Total:			52.889	8.267	100.00	44.108	

4 STD4

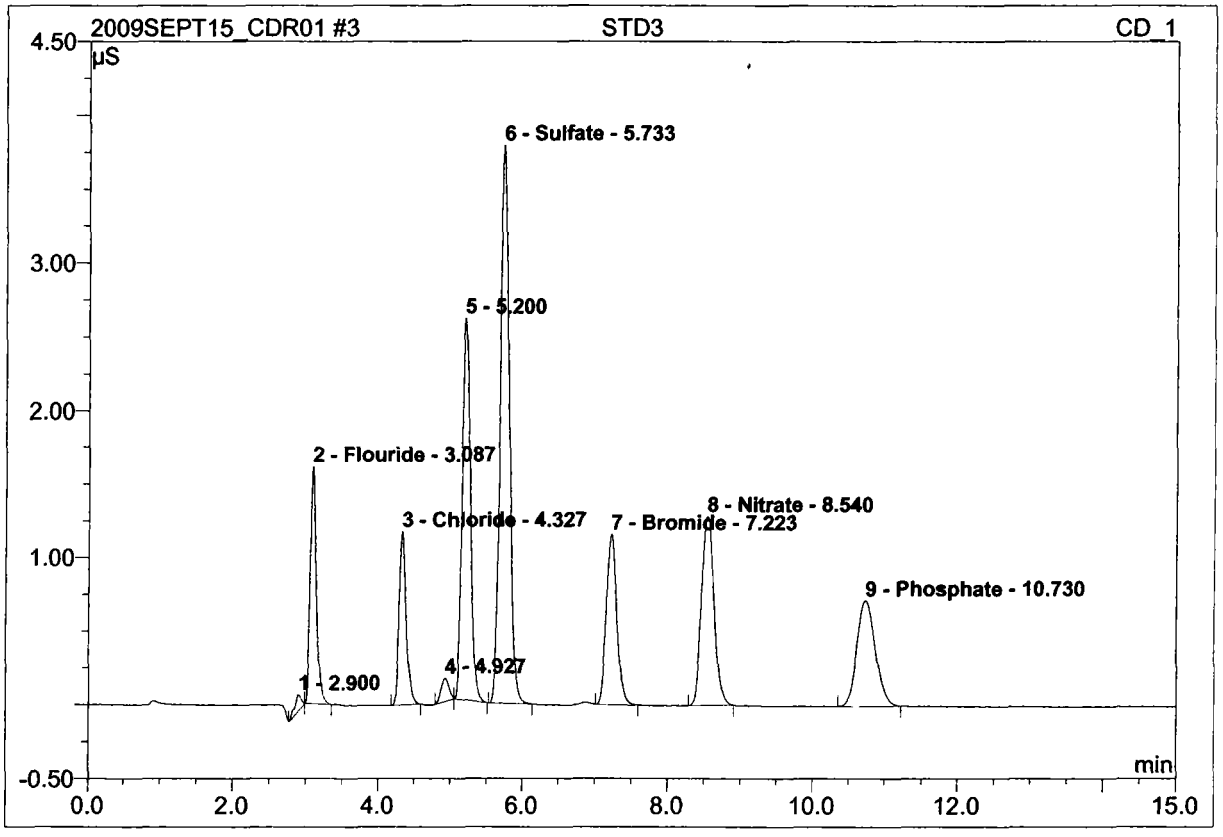
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.30	n.a.	BMB
2	3.09	Flouride	3.463	0.343	8.59	0.786	bMB
3	4.33	Chloride	2.554	0.295	7.38	1.196	BMB
4	4.93	n.a.	0.203	0.026	0.66	n.a.	BMB
5	5.20	n.a.	5.432	0.718	17.99	n.a.	BMB
6	5.73	Sulfate	7.589	1.158	29.03	5.952	BMB
7	7.21	Bromide	2.496	0.420	10.52	4.016	BMB
8	8.52	Nitrate	2.776	0.561	14.06	3.934	BMB
9	10.70	Phosphate	1.511	0.457	11.46	5.828	BMB
Total:			26.138	3.990	100.00	21.713	

3 STD3

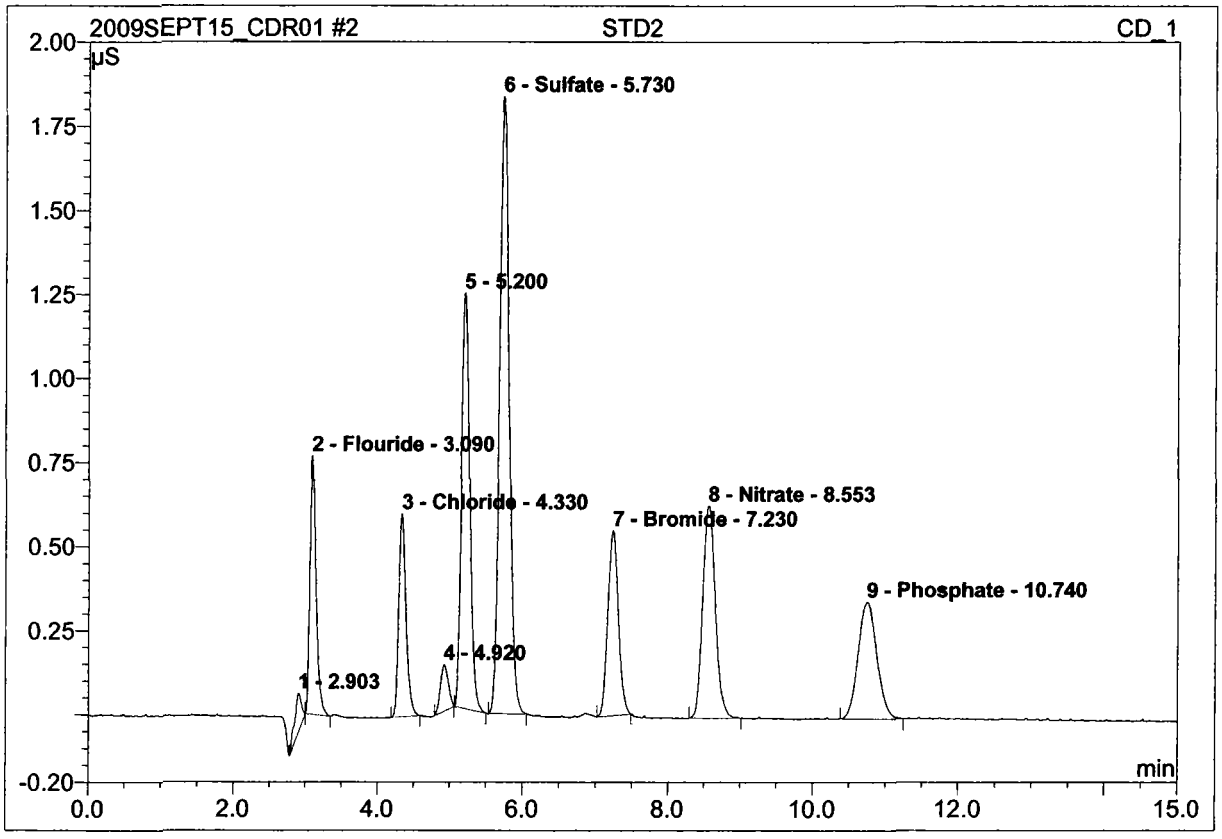
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.63	n.a.	BMB
2	3.09	Flouride	1.612	0.159	8.32	0.384	bMB
3	4.33	Chloride	1.180	0.136	7.15	0.616	BMB
4	4.93	n.a.	0.157	0.020	1.06	n.a.	BMB
5	5.20	n.a.	2.596	0.339	17.79	n.a.	BMB
6	5.73	Sulfate	3.792	0.574	30.11	3.016	BMB
7	7.22	Bromide	1.159	0.195	10.25	1.975	BMB
8	8.54	Nitrate	1.288	0.257	13.49	1.874	BMB
9	10.73	Phosphate	0.718	0.214	11.20	2.851	BMB
Total:			12.617	1.907	100.00	10.716	

2 STD2

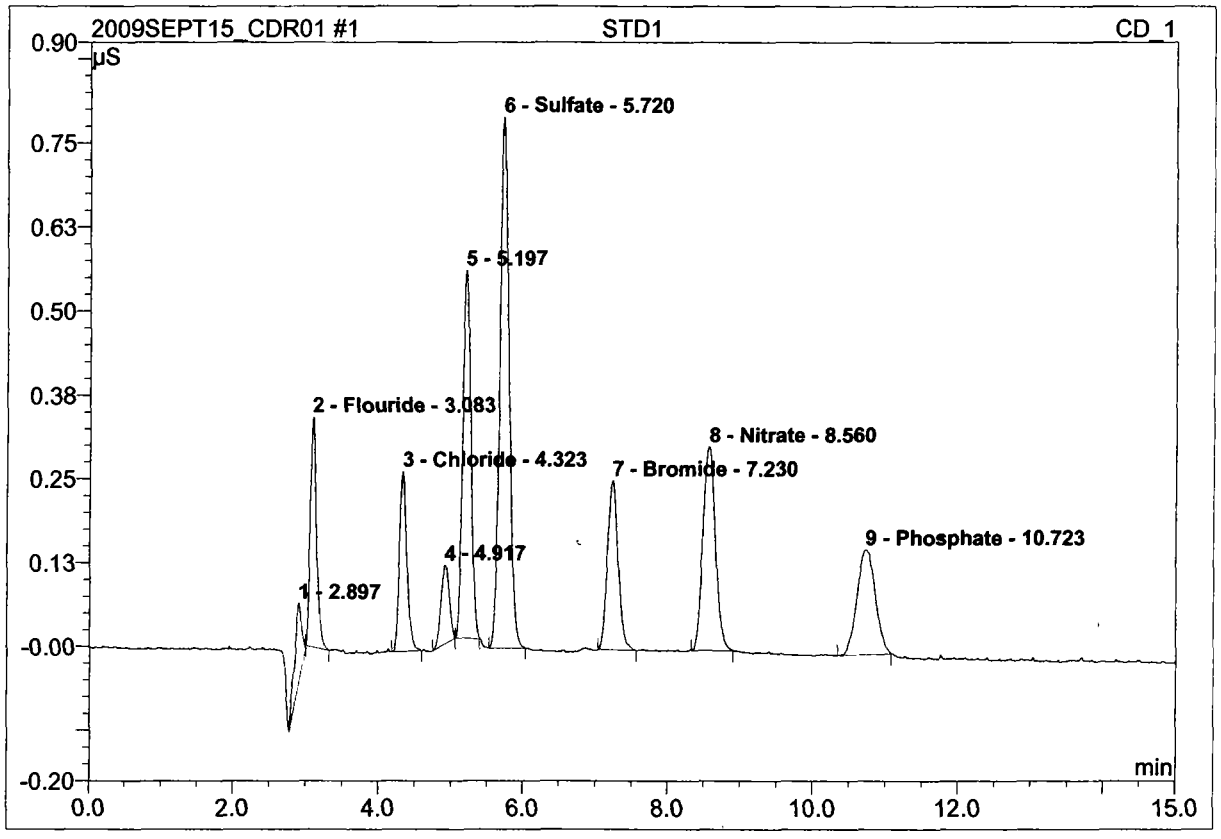
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.116	0.012	1.33	n.a.	BMB
2	3.09	Flouride	0.769	0.076	8.07	0.204	bMB
3	4.33	Chloride	0.605	0.071	7.51	0.374	BMB
4	4.92	n.a.	0.139	0.018	1.90	n.a.	BMB
5	5.20	n.a.	1.236	0.161	17.18	n.a.	BMB
6	5.73	Sulfate	1.835	0.277	29.49	1.521	BMB
7	7.23	Bromide	0.550	0.092	9.85	0.995	BMB
8	8.55	Nitrate	0.631	0.128	13.59	0.994	BMB
9	10.74	Phosphate	0.348	0.104	11.08	1.506	BMB
Total:			6.230	0.938	100.00	5.595	

1 STD1

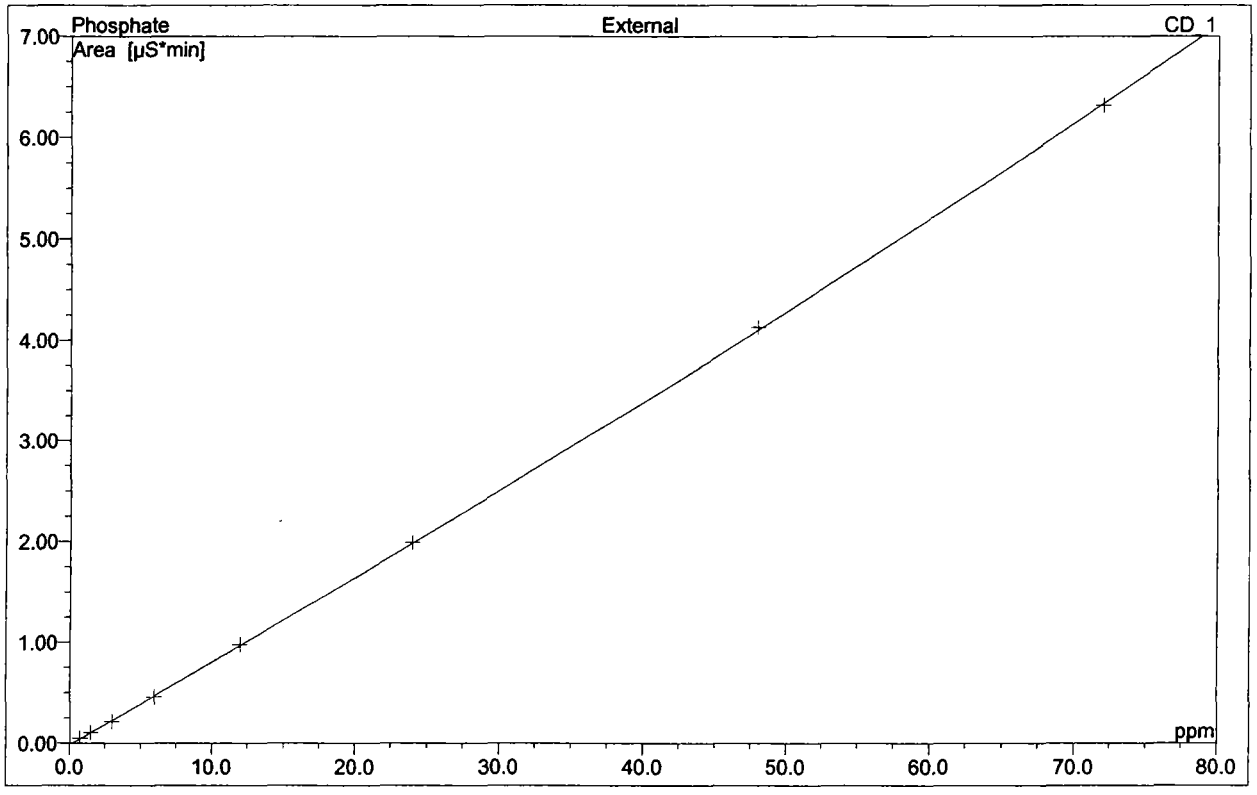
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.123	0.013	3.06	n.a.	BMB
2	3.08	Flouride	0.344	0.034	7.77	0.113	bMB
3	4.32	Chloride	0.269	0.032	7.30	0.233	BMB
4	4.92	n.a.	0.118	0.016	3.59	n.a.	BMB
5	5.20	n.a.	0.549	0.071	16.18	n.a.	BMB
6	5.72	Sulfate	0.792	0.121	27.63	0.736	BMB
7	7.23	Bromide	0.252	0.043	9.90	0.516	BMB
8	8.56	Nitrate	0.304	0.061	14.02	0.543	BMB
9	10.72	Phosphate	0.157	0.046	10.56	0.794	BMB
Total:			2.908	0.436	100.00	2.935	

6 STD6

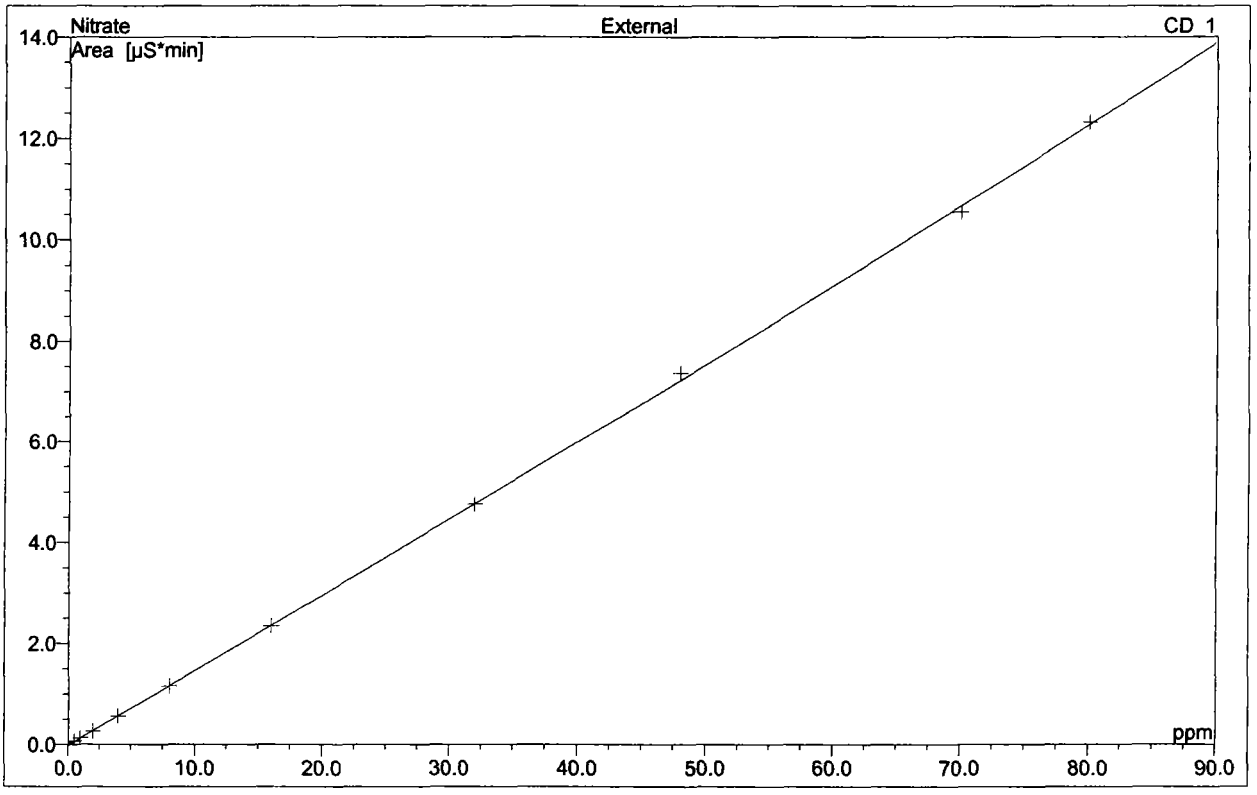
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

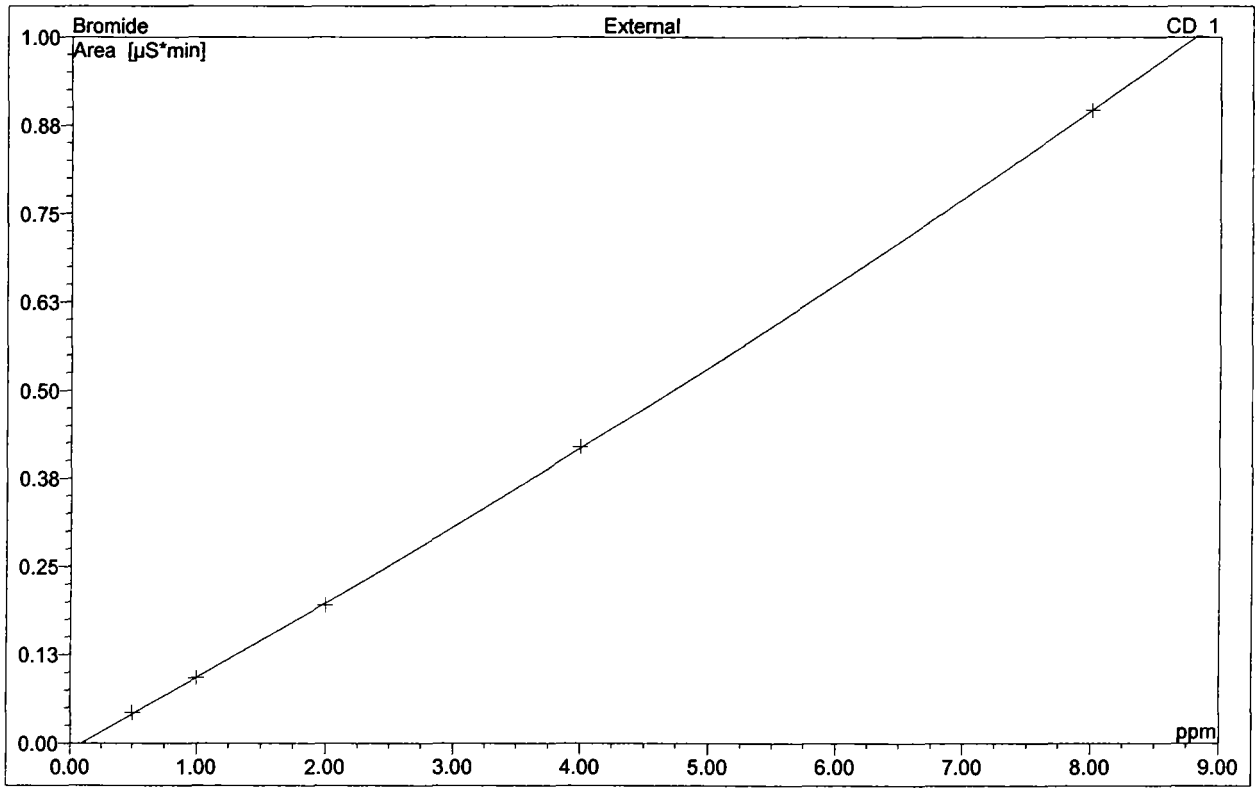
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

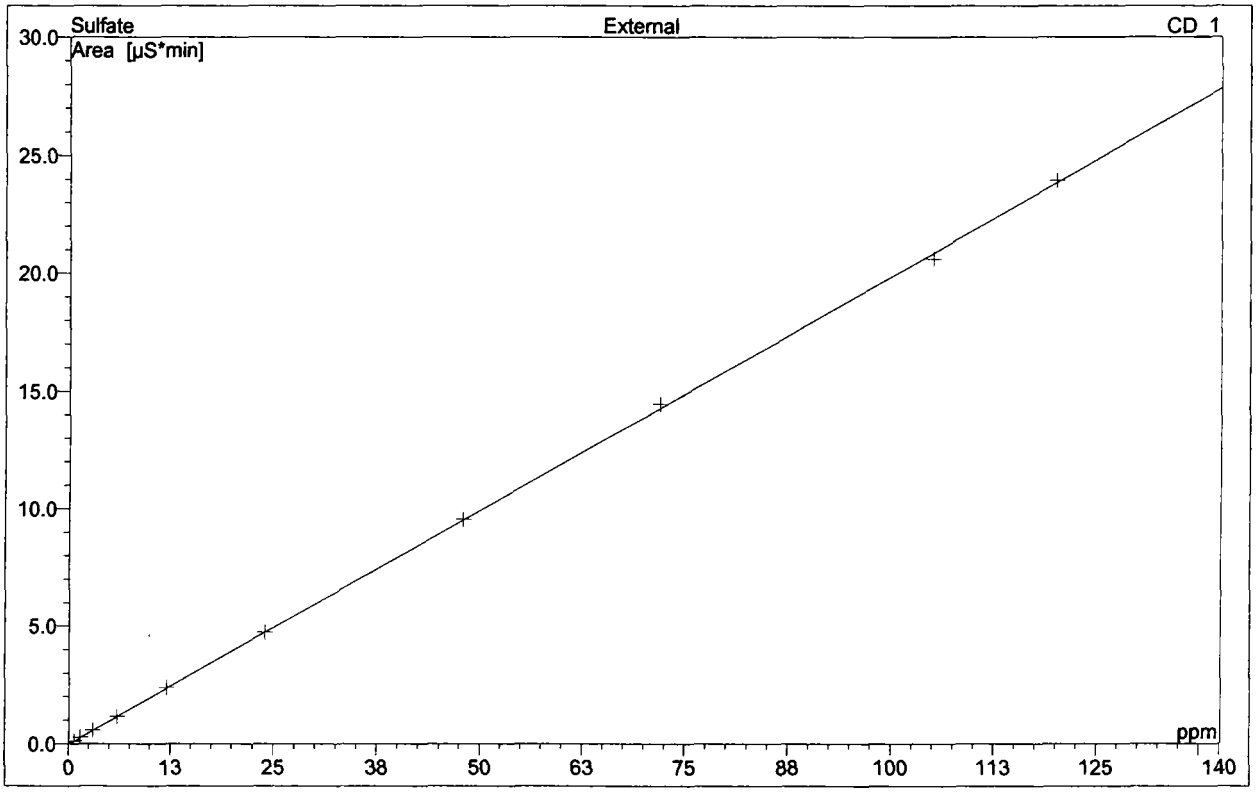
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

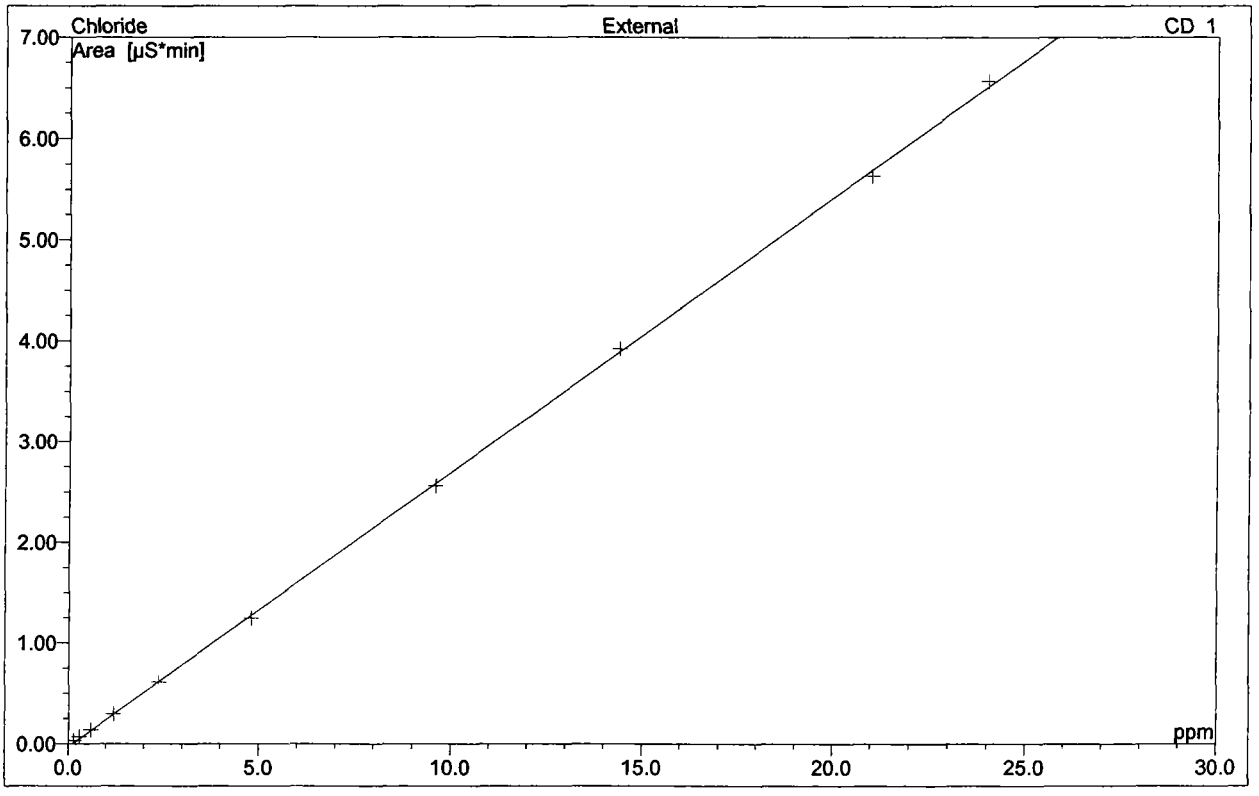
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

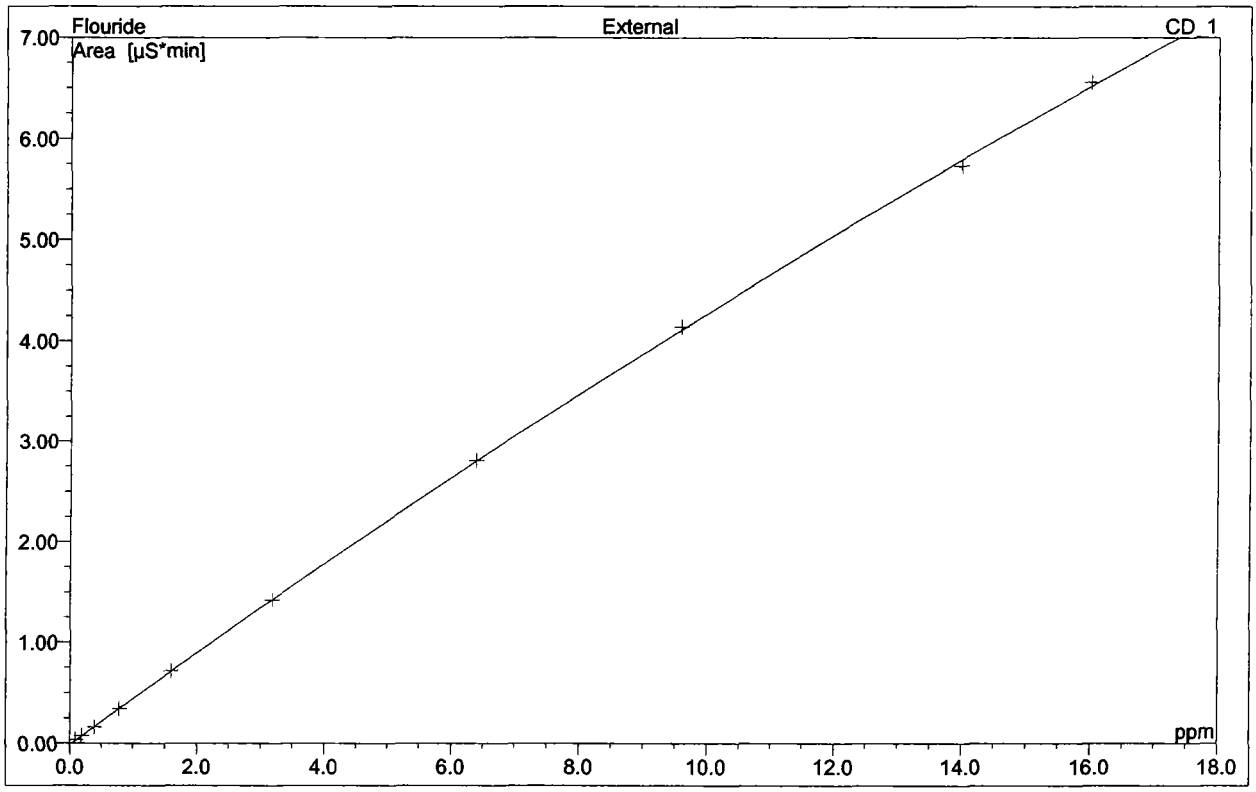
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	*STD1*	*Ok*	
2	☒	STD2	Ok	
3	☒	STD3	Ok	
4	☒	STD4	Ok	
5	☒	STD5	Ok	
6	☒	STD6	Ok	
7	☒	STD7	Ok	
8	☒	STD8	Ok	
9	☒	STD9	Ok	
10	☒	STD1	Ok	

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*4*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*6/15/2009 1:06:24 P*	
2	☒	STD2	2	5	25.0	1.0000	1.0000	1.0000	6/15/2009 1:24:29 P	
3	☒	STD3	3	6	25.0	1.0000	1.0000	1.0000	6/15/2009 1:42:32 P	
4	☒	STD4	4	7	25.0	1.0000	1.0000	1.0000	6/15/2009 2:00:37 P	
5	☒	STD5	5	8	25.0	1.0000	1.0000	1.0000	6/15/2009 2:18:41 P	
6	☒	STD6	6	9	25.0	1.0000	1.0000	1.0000	6/15/2009 2:36:45 P	
7	☒	STD7	7	10	25.0	1.0000	1.0000	1.0000	6/15/2009 2:54:49 P	
8	☒	STD8	8	11	25.0	1.0000	1.0000	1.0000	6/15/2009 3:12:54 P	
9	☒	STD9	9	12	25.0	1.0000	1.0000	1.0000	6/15/2009 3:30:59 P	
10	☒	STD1	10	13	25.0	1.0000	1.0000	1.0000	6/15/2009 3:49:03 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.100 min			
5	Nitrate	8.400 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.100 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.400 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.100 min	4.000000	8.000000					
5	Nitrate	8.400 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.100 AG	External	Area	LOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.100 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.400 min	0.300 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	1.000	Inhibit Integration	Off	All Channels

Program File:	Anions_AS18	Printed: 9/16/2009 7:27:11 AM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:38:58 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
Column_Table.ReleaseExclusiveAccess
End
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT15_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
        Sampler.AcquireExclusiveAccess
        Sample_DiverterValve.Position =
        Column_TC.AcquireExclusiveAccess
        Compartment_TC.AcquireExclusiveAccess
        Flush                                   Volume = 2
        Pressure.LowerLimit =                   [illegible] psi]
        Pressure.UpperLimit =                   [illegible] psi]
        MaximumFlowRamp =                       [illegible] [ml/min]
        SA.Equate =                             "SA"
        PR_TC =                                 [illegible]
        Wait                                    [illegible]DashState
        Data_Collection_Rate =                  [illegible] [Hz]
        Temperature_Compensation                [illegible] [%/°C]
        Cell.Heater.Temperature.Set =           [illegible] °C
        Suppressor1.Type =                      ASRS_4mm
        Current.Set =                           [illegible] [mA]
        Concentration =                         2.[illegible] [mM]
        EGC_1.Curve =                           [illegible]
        Flow =                                  [illegible] [ml/min]
        Pump_1.Curve =                          [illegible]
        Needle.Height                           [illegible] [mm]
        Cut-Segment Volume =                    [illegible] [µl]
        Syringe.Speed =                         [illegible]
        Cycle.Time =                            [illegible] [min]
        Wait For Temperature =                  False
        Cell.Heater.Mode                        On
        ; Suppressor1.Carbonate =              [illegible]
        ; Suppressor1.Bicarbonate              [illegible]
        ; Suppressor1.Hydroxide =              [illegible]
        ; Suppressor1.Tetraborate =            [illegible]
        ; Suppressor1.Other Eluent             [illegible]
        ; Suppressor1.Recommended Current                    [illegible]
        Wait                                    SampleReady

[illegible].000 Cycle1.Autozero
        Load
        Wait                                    Cycle.TimeState
        Inject
        Wait                                    Inject.State
        CD_1.AcqOn
        Sampler.ReleaseExclusiveAccess

[illegible].000 CD_1.AcqOff
        Compartment_TC.ReleaseExclusiveAccess
```

Sequence: 2009SEPT15_CDR01
Operator: Aaleszc2
Printed: 9/16/2009 7:27:11 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 35
Created: 9/15/2009 10:52:07 AM by Aaleszc2
Last Update: 9/15/2009 11:28:13 AM by Aaleszc2

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000	1.0000		01	
2	STD2	1.0000	1.0000		01	
3	STD3	1.0000	1.0000		01	
4	STD4	1.0000	1.0000		01	
5	STD5	1.0000	1.0000		01	
6	STD6	1.0000	1.0000		01	
7	STD7	1.0000	1.0000		01	
8	STD8	1.0000	1.0000		01	
9	STD9	1.0000	1.0000		01	
10	STD10	1.0000	1.0000		01	
11	Inst. Blank1	1.0000	1.0000		01	
12	Inst. Blank2	1.0000	1.0000		01	
13	ICB1	1.0000	1.0000		01	
14	ICV1	1.0000	1.0000		01	
15	BLK1	1.0000	1.0000		01	
16	BS1	1.0000	1.0000		01	
17	0909005-07 0.50/50mL	1.0000	1.0000		01	Chloride Dilution
18	DUP1 0.50/50mL	1.0000	1.0000		01	Chloride Dilution
19	MS1 0.50/50mL	1.0000	1.0000		01	Chloride Dilution
20	0908021-01 5.0/50mL	1.0000	1.0000		01	Chloride Dilution
21	0909005-01 5.0/25mL	1.0000	1.0000		01	Chloride Dilution
22	0909005-02 5.0/50mL	1.0000	1.0000		01	Chloride Dilution
23	0909005-06 0.50/50mL	1.0000	1.0000		01	Chloride Dilution
24	0909006-02 0.25/50mL	1.0000	1.0000		01	Chloride Dilution
25	0909006-03 0.25/50mL	1.0000	1.0000		01	Chloride Dilution
26	0909006-04 2.0/50mL	1.0000	1.0000		01	Chloride Dilution
27	0909005-05 5.0/25mL	1.0000	1.0000		01	Chloride Dilution
28	0909005-04 5.0/50mL	1.0000	1.0000		01	Chloride Dilution
29	0909005-03 5.0/50mL	1.0000	1.0000		01	Chloride Dilution
30	0909006-01 5.0/50mL	1.0000	1.0000		01	Chloride Dilution
31	MS1 5.0/10mL	1.0000	1.0000		01	Sulfate Dilution
32	0909005-06 5.0/10mL	1.0000	1.0000		01	Sulfate Dilution
33	CCB1	1.0000	1.0000		01	
34	CCV1	1.0000	1.0000		01	
35	Inst. Blank4	1.0000	1.0000		01	

Sequence: 2009SEPT15_CDR01
Operator: Aaleszc2
Printed: 9/16/2009 7:27:11 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 35

Created: 9/15/2009 10:52:07 AM by Aaleszc2
Last Update: 9/15/2009 11:28:13 AM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	STD1	Standard	4	25.0	Anions_AS18	default	Finished	6/15/2009 1:06:24 PM	1.0000
2	STD2	Standard	5	25.0	Anions_AS18	default	Finished	6/15/2009 1:24:29 PM	1.0000
3	STD3	Standard	6	25.0	Anions_AS18	default	Finished	6/15/2009 1:42:32 PM	1.0000
4	STD4	Standard	7	25.0	Anions_AS18	default	Finished	6/15/2009 2:00:37 PM	1.0000
5	STD5	Standard	8	25.0	Anions_AS18	default	Finished	6/15/2009 2:18:41 PM	1.0000
6	STD6	Standard	9	25.0	Anions_AS18	default	Finished	6/15/2009 2:36:45 PM	1.0000
7	STD7	Standard	10	25.0	Anions_AS18	default	Finished	6/15/2009 2:54:49 PM	1.0000
8	STD8	Standard	11	25.0	Anions_AS18	default	Finished	6/15/2009 3:12:54 PM	1.0000
9	STD9	Standard	12	25.0	Anions_AS18	default	Finished	6/15/2009 3:30:59 PM	1.0000
10	STD10	Standard	13	25.0	Anions_AS18	default	Finished	6/15/2009 3:49:03 PM	1.0000
11	Inst. Blank1	Unknown	1	25.0	Anions_AS18	default	Finished	9/15/2009 11:33:14 AM	1.0000
12	Inst. Blank2	Unknown	2	25.0	Anions_AS18	default	Finished	9/15/2009 11:51:43 AM	1.0000
13	ICB1	Unknown	3	25.0	Anions_AS18	default	Finished	9/15/2009 12:10:11 PM	1.0000
14	ICV1	Unknown	4	25.0	Anions_AS18	default	Finished	9/15/2009 12:28:39 PM	1.0000
15	BLK1	Unknown	5	25.0	Anions_AS18	default	Finished	9/15/2009 12:47:08 PM	1.0000
16	BS1	Unknown	6	25.0	Anions_AS18	default	Finished	9/15/2009 1:05:36 PM	1.0000
17	0909005-07 0.50/50mL	Unknown	7	25.0	Anions_AS18	default	Finished	9/15/2009 1:24:04 PM	1.0000
18	DUP1 0.50/50mL	Unknown	8	25.0	Anions_AS18	default	Finished	9/15/2009 1:42:32 PM	1.0000
19	MS1 0.50/50mL	Unknown	9	25.0	Anions_AS18	default	Finished	9/15/2009 2:01:01 PM	1.0000
20	0908021-01 5.0/50mL	Unknown	10	25.0	Anions_AS18	default	Finished	9/15/2009 2:19:29 PM	1.0000
21	0909005-01 5.0/25mL	Unknown	11	25.0	Anions_AS18	default	Finished	9/15/2009 2:37:58 PM	1.0000
22	0909005-02 5.0/50mL	Unknown	12	25.0	Anions_AS18	default	Finished	9/15/2009 2:56:26 PM	1.0000
23	0909005-06 0.50/50mL	Unknown	13	25.0	Anions_AS18	default	Finished	9/15/2009 3:14:54 PM	1.0000
24	0909006-02 0.25/50mL	Unknown	14	25.0	Anions_AS18	default	Finished	9/15/2009 3:33:23 PM	1.0000
25	0909006-03 0.25/50mL	Unknown	15	25.0	Anions_AS18	default	Finished	9/15/2009 3:51:51 PM	1.0000
26	0909006-04 2.0/50mL	Unknown	16	25.0	Anions_AS18	default	Finished	9/15/2009 4:10:19 PM	1.0000
27	0909005-05 5.0/25mL	Unknown	17	25.0	Anions_AS18	default	Finished	9/15/2009 4:28:48 PM	1.0000
28	0909005-04 5.0/50mL	Unknown	18	25.0	Anions_AS18	default	Finished	9/15/2009 4:47:16 PM	1.0000
29	0909005-03 5.0/50mL	Unknown	19	25.0	Anions_AS18	default	Finished	9/15/2009 5:05:45 PM	1.0000
30	0909006-01 5.0/50mL	Unknown	20	25.0	Anions_AS18	default	Finished	9/15/2009 5:24:13 PM	1.0000
31	MS1 5.0/10mL	Unknown	21	25.0	Anions_AS18	default	Finished	9/15/2009 5:42:41 PM	1.0000
32	0909005-06 5.0/10mL	Unknown	22	25.0	Anions_AS18	default	Finished	9/15/2009 6:01:09 PM	1.0000
33	CCB1	Unknown	23	25.0	Anions_AS18	default	Finished	9/15/2009 6:19:38 PM	1.0000
34	CCV1	Unknown	24	25.0	Anions_AS18	default	Finished	9/15/2009 6:38:06 PM	1.0000
35	Inst. Blank4	Unknown	25	25.0	Anions_AS18	default	Finished	9/15/2009 6:56:34 PM	1.0000

CCV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	~	~	~
	Chloride	**90-110**	**12.00**	**11.623**	**96.9**
	Sulfate	**90-110**	**60.00**	**60.284**	**100.5**
	Bromide	90-110	~	~	~
	Nitrate	90-110	~	~	~
	O-Phosphate	90-110	~	~	~

BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**1.052**	**0.02**
	Sulfate	**0.67**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

BS1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~
	Chloride	**80-120**	**6**	**6.559**	**109.3**
	Sulfate	**80-120**	**30**	**29.079**	**96.9**
	Bromide	80-120	~	~	~
	Nitrate	80-120	~	~	~
	O-Phosphate	80-120	~	~	~

DUPLICATE 0909005-07	Anions	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	20	~	~	~	~
	Chloride	**20**	**1756.2**	**1809.2**	**53**	**2.97**
	Sulfate	20	~	~	~	~
	Bromide	20	~	~	~	~
	Nitrate	20	~	~	~	~
	O-Phosphate	20	~	~	~	~

SPIKE (MS) 0909005-07	Anions	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~	~
	Chloride	**80-120**	**18.605**	**17.562**	**6.00**	**17.4**
	Sulfate	80-120	~	~	~	~
	Bromide	80-120	~	~	~	~
	Nitrate	80-120	~	~	~	~
	O-Phosphate	80-120	~	~	~	~

*** No dilution factor was applied for spike recovery. Sample was diluted 100 fold.**

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**0.200**	**0.02**
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

BEGINNING 9/15/2009 Sequence: 2009SEPT15_CDR01

ICB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

ICV1	**Anions**	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	~	~	~
	Chloride	**90-110**	**12.00**	**11.609**	**96.7**
	Sulfate	**90-110**	**60.00**	**60.040**	**100.1**
	Bromide	90-110	~	~	~
	Nitrate	90-110	~	~	~
	O-Phosphate	90-110	~	~	~

BLK1 (NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

BS1 (NO SAND)	**Anions**	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~
	Chloride	**80-120**	**6.00**	**5.508**	**91.8**
	Sulfate	**80-120**	**30.00**	**28.765**	**95.9**
	Bromide	80-120	~	~	~
	Nitrate	80-120	~	~	~
	O-Phosphate	80-120	~	~	~

***BLK1 and BS1 (NO SAND) data is from 2009SEPT14_CDR01 analysis run**

ANALYSIS SEQUENCE

9I17003

Instrument: IC 5

Calibnration ID: 9063001

Printed: 9/17/2009 2:22:38PM

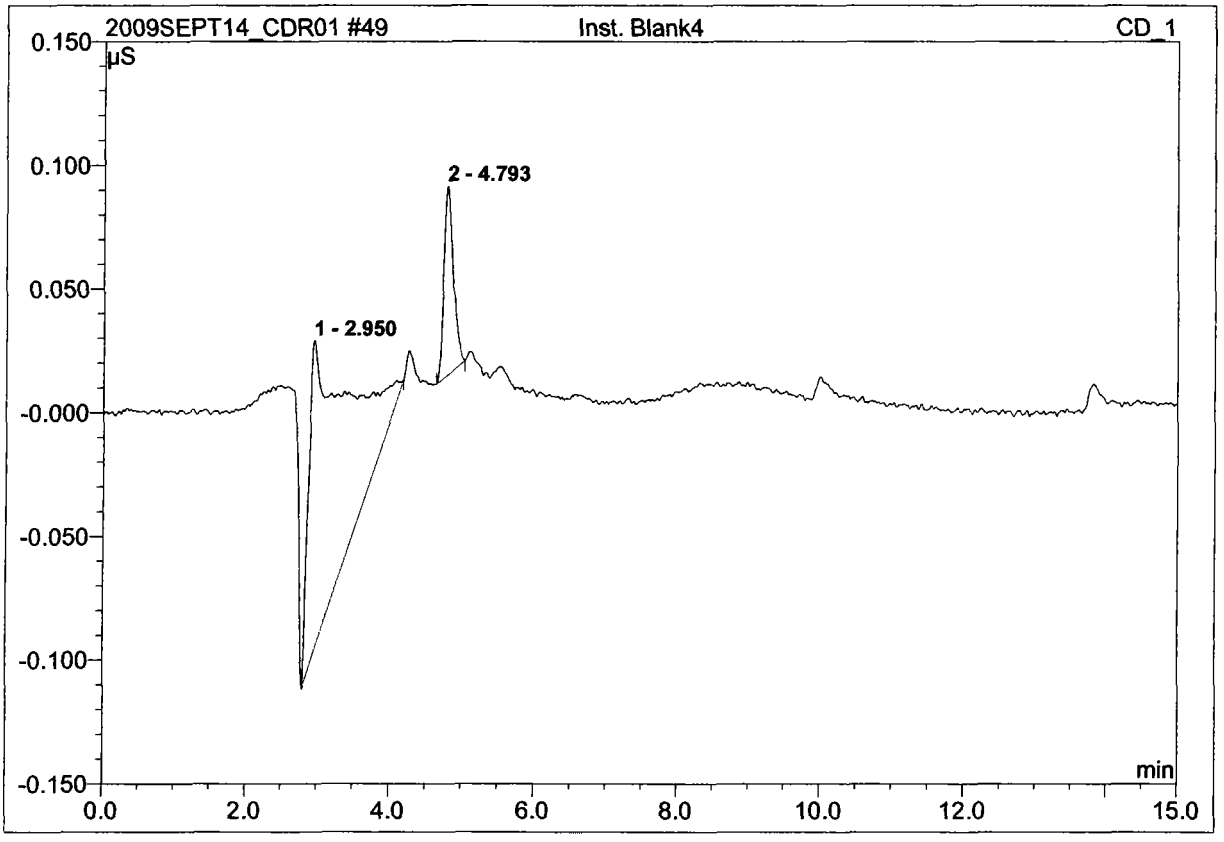
Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
9I17003-IBL1	QC	Inst Blank1		1				
9I17003-IBL2	QC	Inst Blank2		2				
9I17003-ICB1	QC	ICB1		3				
9I17003-ICV1	QC	ICV1		4		9091703		
9I17003-CCB1	QC	CCB1		5				
9I17003-CCV1	QC	CCV1		6		9091703		
9I17003-IBL3	QC	Inst Blank4		7				

Samples Loaded By Date

Data Processed By Date

49 Inst. Blank4

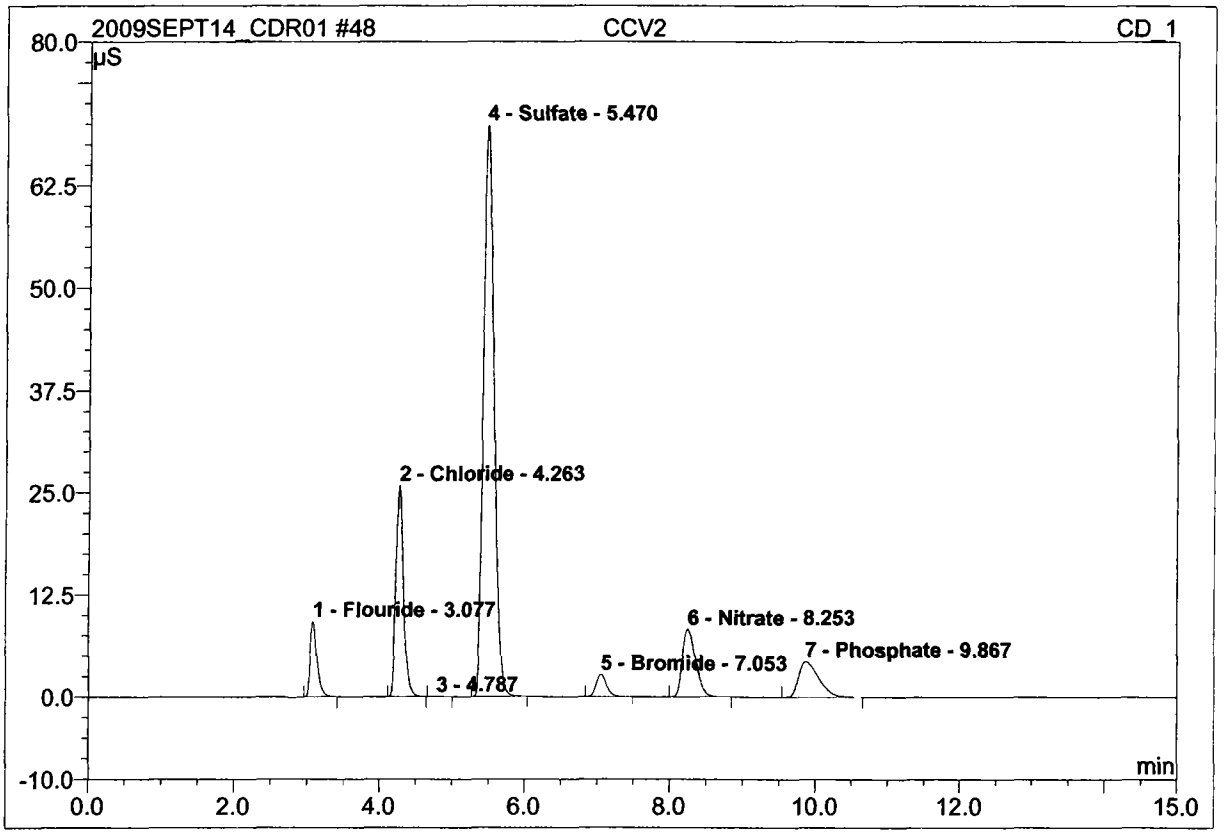
Sample Name:	**Inst. Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**39**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 2:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.95	n.a.	0.126	0.074	86.43	n.a.	BMB
2	4.79	n.a.	0.077	0.012	13.57	n.a.	BMB
Total:			0.203	0.086	100.00	0.000	

48 CCV2

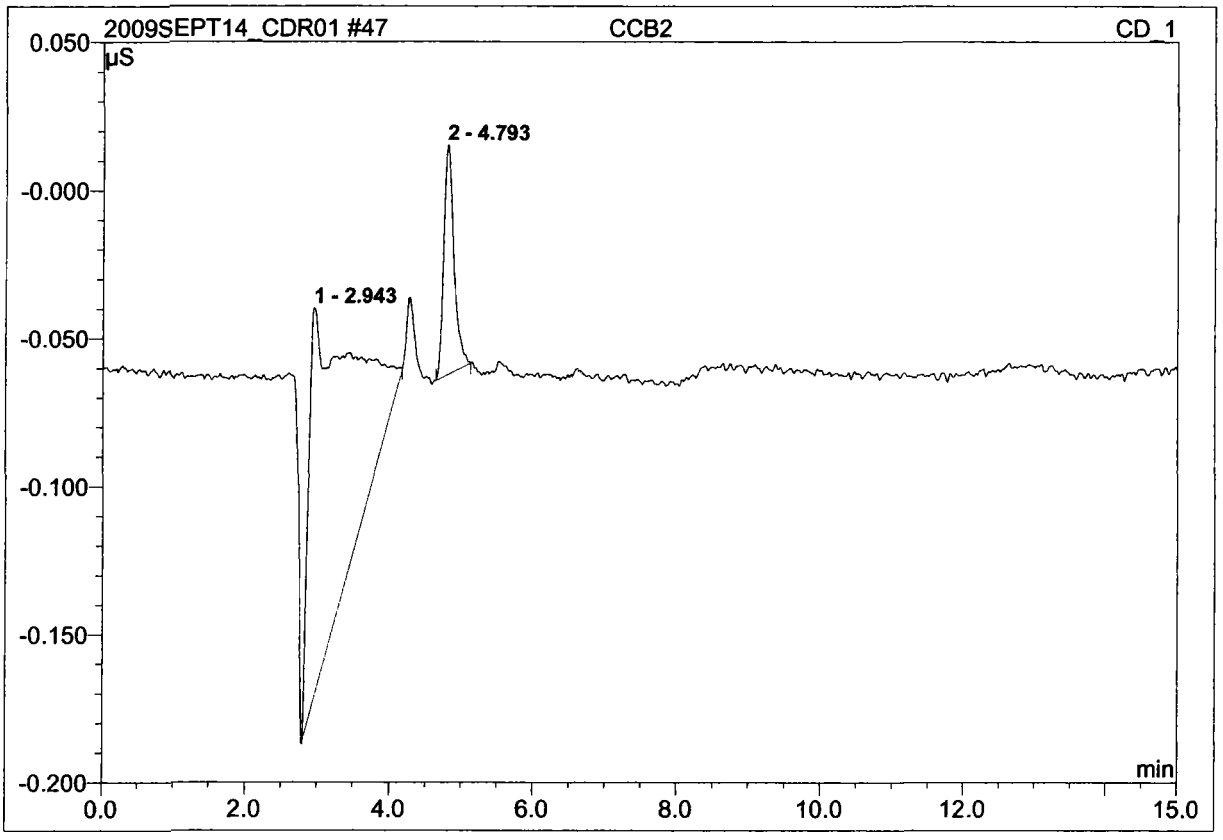
Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**38**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 2:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.234	1.000	5.08	2.236	BMB
2	4.26	Chloride	25.848	3.138	15.94	11.623	BMB
3	4.79	n.a.	0.074	0.011	0.05	n.a.	BMB
4	5.47	Sulfate	69.828	11.930	60.61	60.085	BMB
5	7.05	Bromide	2.722	0.455	2.31	4.327	BMB
6	8.25	Nitrate	8.280	1.751	8.89	11.956	BMB
7	9.87	Phosphate	4.345	1.401	7.12	17.147	BMB
Total:			120.330	19.685	100.00	107.374	

47 CCB2

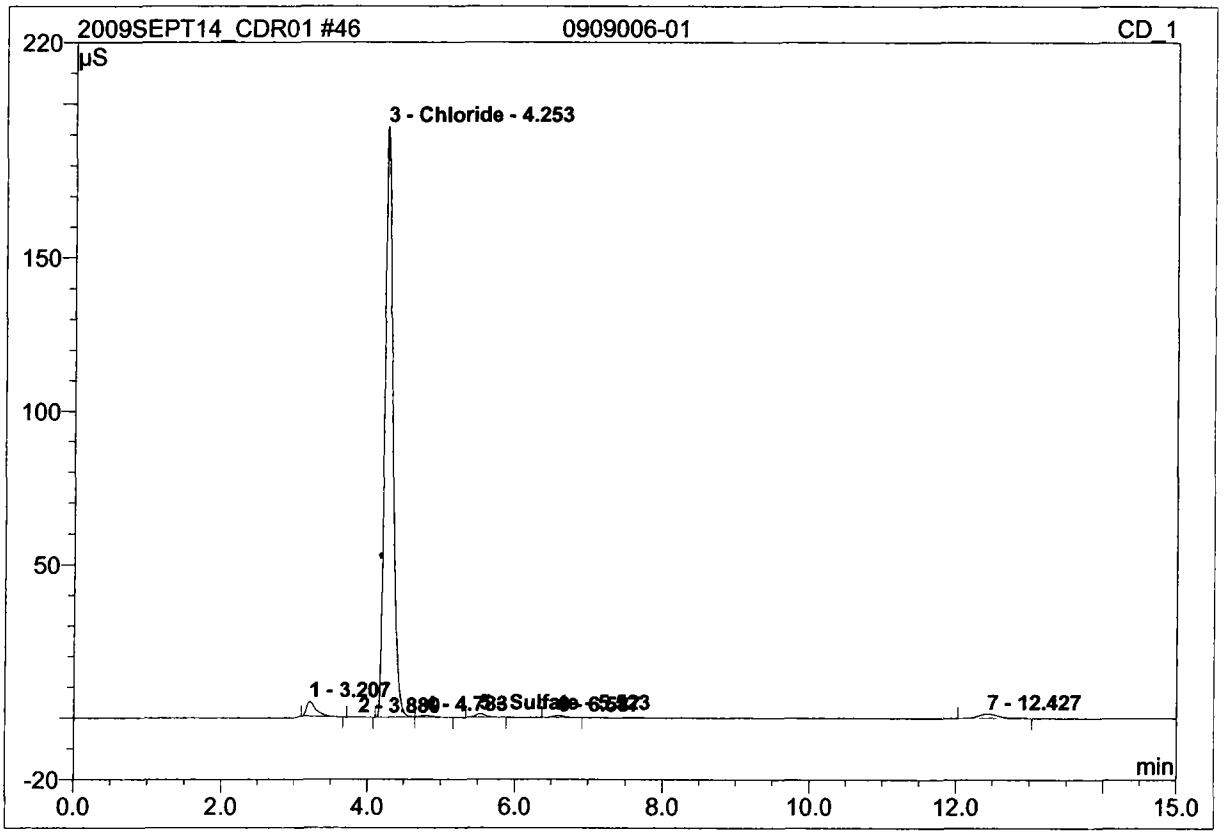
Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**37**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 2:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.94	n.a.	0.133	0.084	86.51	n.a.	BMB
2	4.79	n.a.	0.078	0.013	13.49	n.a.	BMB
Total:			0.210	0.097	100.00	0.000	

46 0909006-01

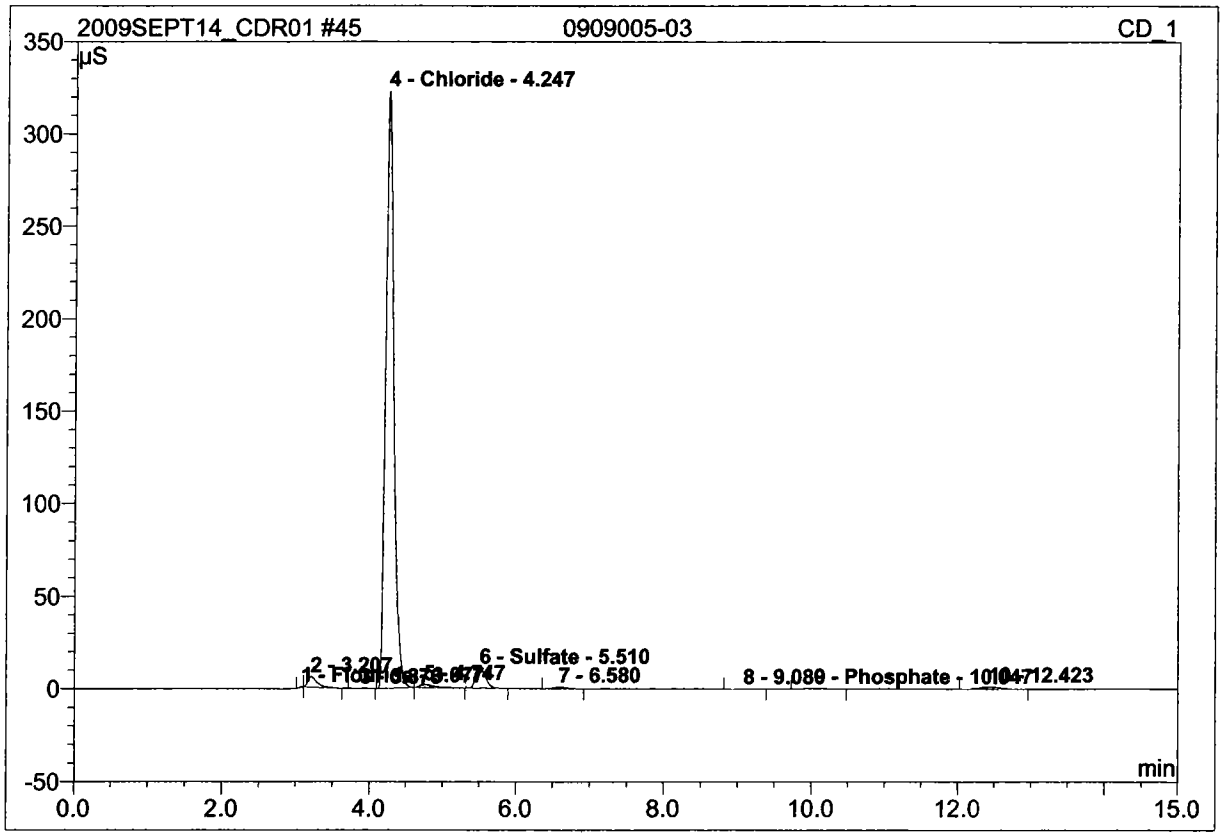
Sample Name:	**0909006-01**	*Injection Volume:*	**25.0**
Vial Number:	**36**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 1:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.21	n.a.	4.728	0.709	2.71	n.a.	BMB
2	3.88	n.a.	0.110	0.015	0.06	n.a.	BMB
3	4.25	Chloride	192.595	24.635	94.13	90.456	BMB
4	4.78	n.a.	0.541	0.094	0.36	n.a.	BMB
5	5.52	Sulfate	1.155	0.174	0.66	1.003	BMB
6	6.59	n.a.	0.650	0.114	0.44	n.a.	BMB
7	12.43	n.a.	1.401	0.430	1.64	n.a.	BMB
Total:			201.180	26.170	100.00	91.459	

45 0909005-03

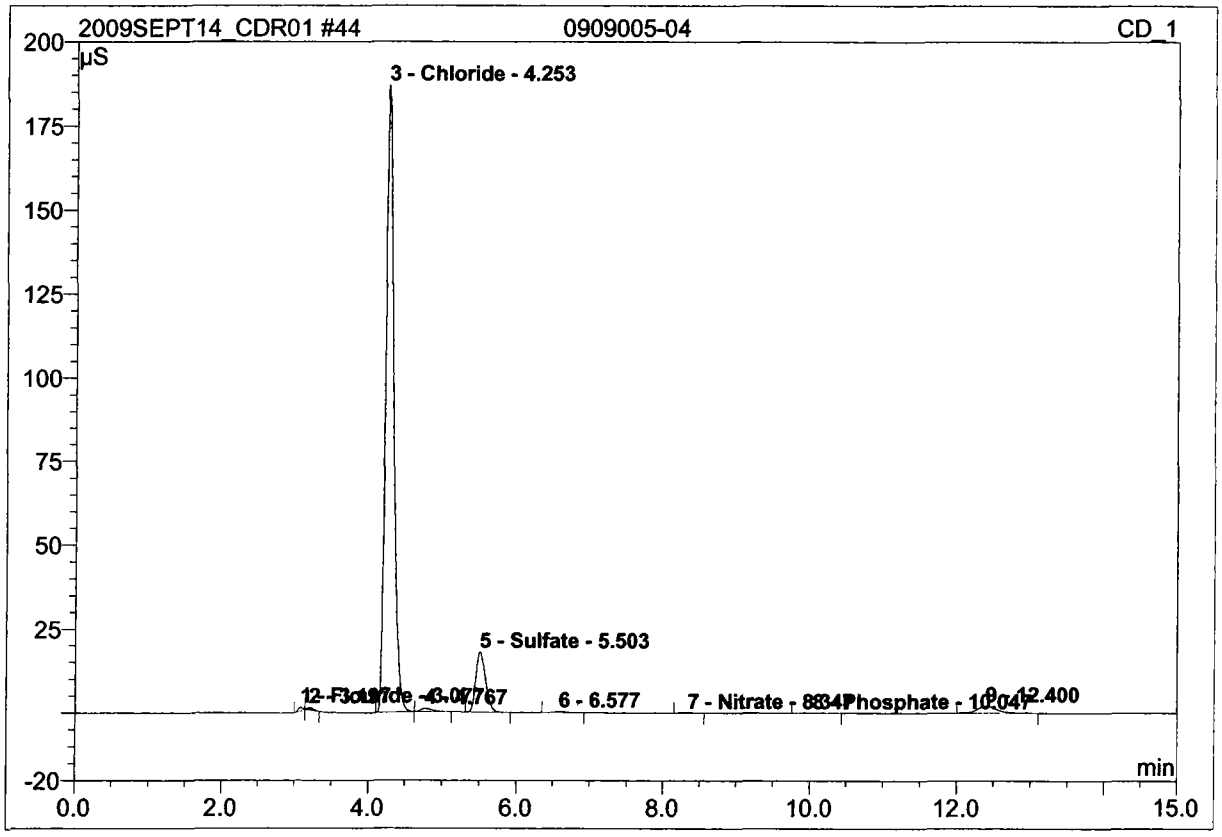
Sample Name:	**0909005-03**	*Injection Volume:*	**25.0**
Vial Number:	**35**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 1:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.331	0.019	0.04	0.082	BMb
2	3.21	n.a.	5.620	0.810	1.79	n.a.	bMB
3	3.87	n.a.	0.113	0.015	0.03	n.a.	BMB
4	4.25	Chloride	323.103	41.724	92.22	153.127	BMb
5	4.75	n.a.	1.766	0.401	0.89	n.a.	bMB
6	5.51	Sulfate	10.832	1.657	3.66	8.455	BMB
7	6.58	n.a.	0.881	0.155	0.34	n.a.	BMB
8	9.08	n.a.	0.053	0.014	0.03	n.a.	BMB
9	10.05	Phosphate	0.259	0.073	0.16	1.124	BMB
10	12.42	n.a.	1.226	0.375	0.83	n.a.	BMB
Total:			344.185	45.243	100.00	162.789	

44 0909005-04

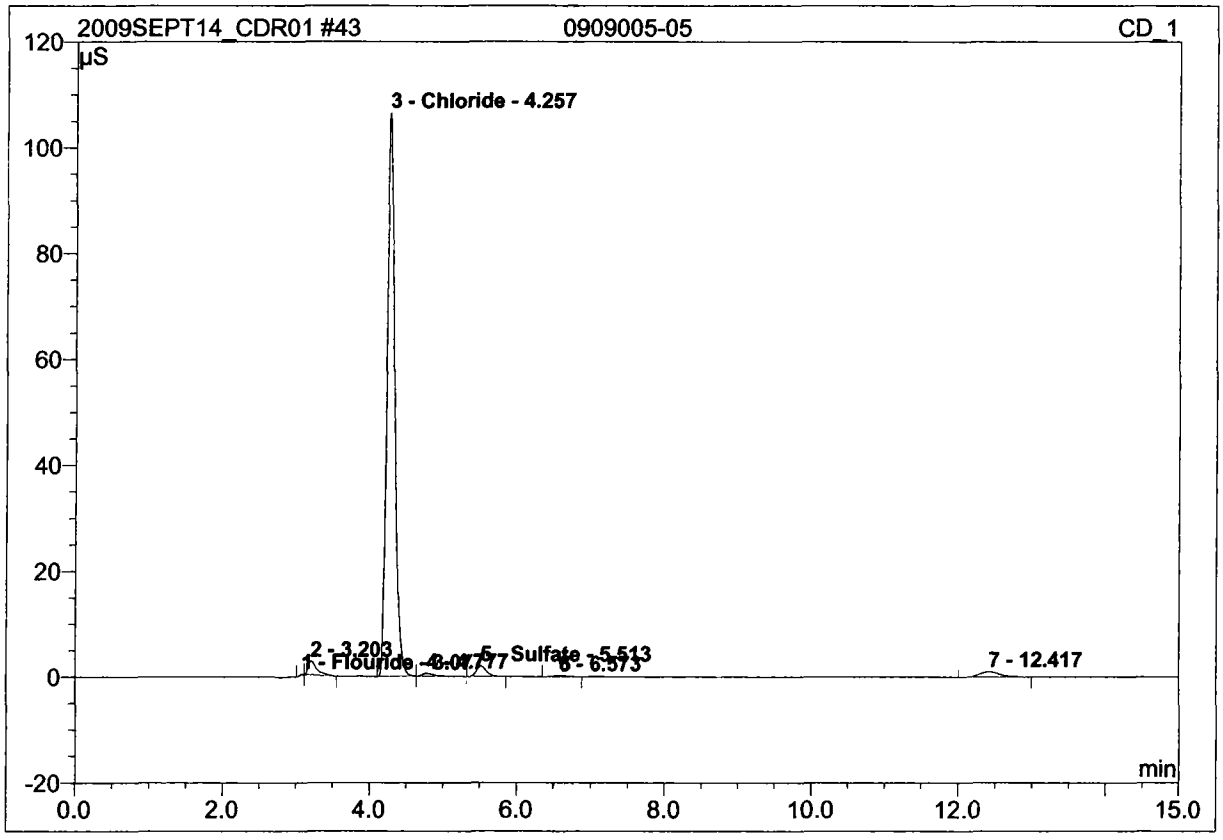
Sample Name:	**0909005-04**	*Injection Volume:*	**25.0**
Vial Number:	**34**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 1:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	1.120	0.077	0.28	0.206	BMb
2	3.20	n.a.	0.772	0.066	0.24	n.a.	bMB
3	4.25	Chloride	187.002	23.915	86.13	87.817	BMB
4	4.77	n.a.	1.040	0.199	0.72	n.a.	BMB
5	5.50	Sulfate	17.990	2.775	9.99	14.076	BMB
6	6.58	n.a.	0.354	0.063	0.23	n.a.	BMB
7	8.35	Nitrate	0.057	0.011	0.04	0.201	BMB
8	10.05	Phosphate	0.061	0.017	0.06	0.438	BMB
9	12.40	n.a.	2.093	0.645	2.32	n.a.	BMB
Total:			210.489	27.767	100.00	102.739	

43 0909005-05

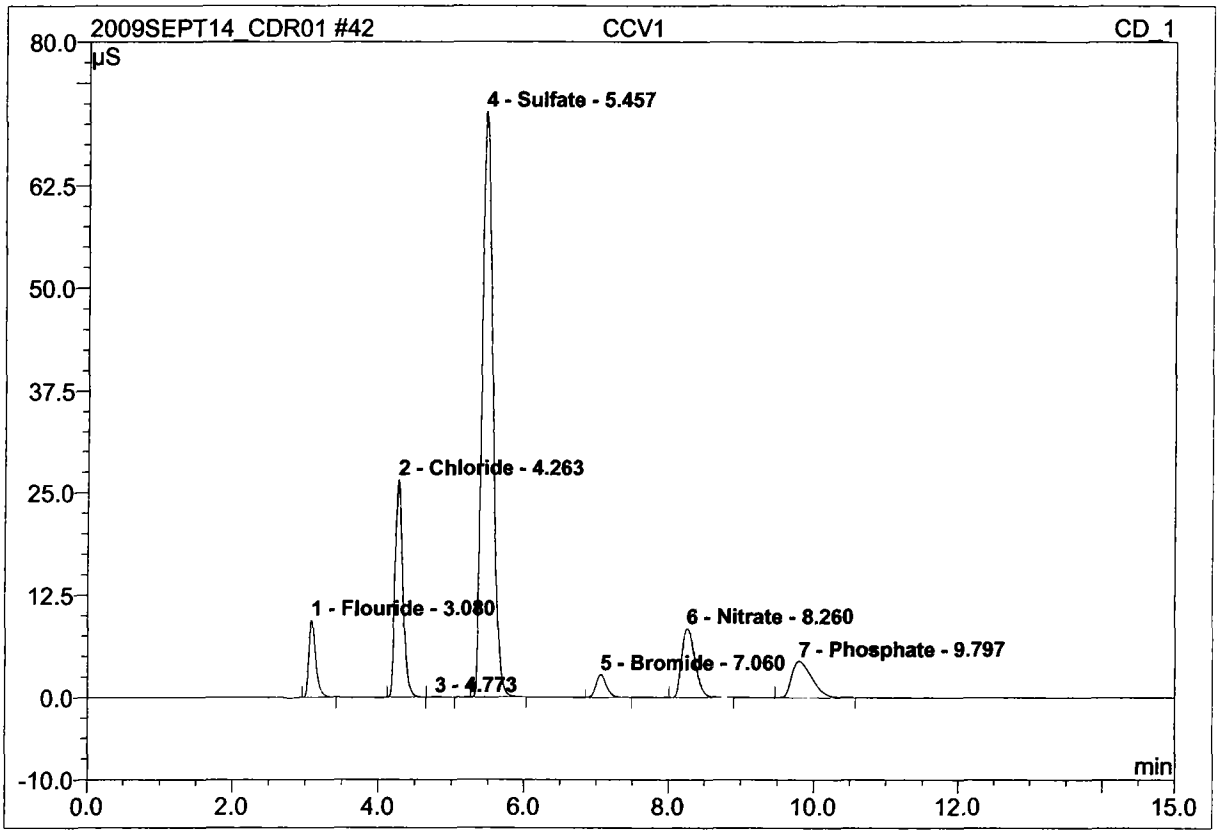
Sample Name:	**0909005-05**	*Injection Volume:*	**25.0**
Vial Number:	**33**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 0:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.208	0.012	0.08	0.066	BMb
2	3.20	n.a.	2.542	0.340	2.36	n.a.	bMB
3	4.26	Chloride	106.514	13.374	92.56	49.160	BMB
4	4.78	n.a.	0.534	0.102	0.71	n.a.	BMB
5	5.51	Sulfate	1.944	0.289	2.00	1.582	BMB
6	6.57	n.a.	0.205	0.036	0.25	n.a.	BMB
7	12.42	n.a.	0.971	0.296	2.05	n.a.	BMB
Total:			112.918	14.449	100.00	50.808	

42 CCV1

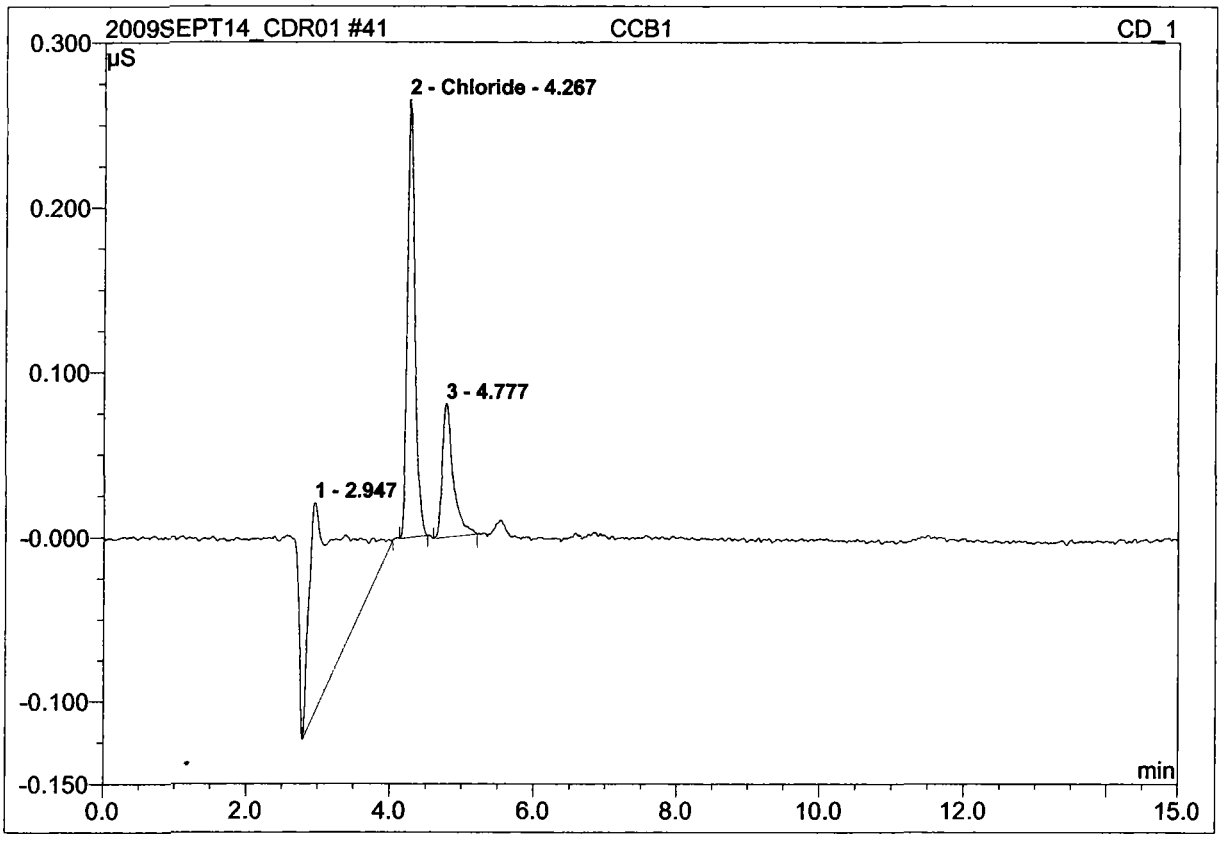
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**32**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 0:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.457	1.025	5.08	2.294	BMB
2	4.26	Chloride	26.579	3.227	15.99	11.950	BMB
3	4.77	n.a.	0.075	0.011	0.05	n.a.	BMB
4	5.46	Sulfate	71.505	12.217	60.54	61.524	BMB
5	7.06	Bromide	2.798	0.471	2.33	4.461	BMB
6	8.26	Nitrate	8.450	1.794	8.89	12.242	BMB
7	9.80	Phosphate	4.463	1.435	7.11	17.552	BMB
Total:			123.327	20.179	100.00	110.022	

41 CCB1

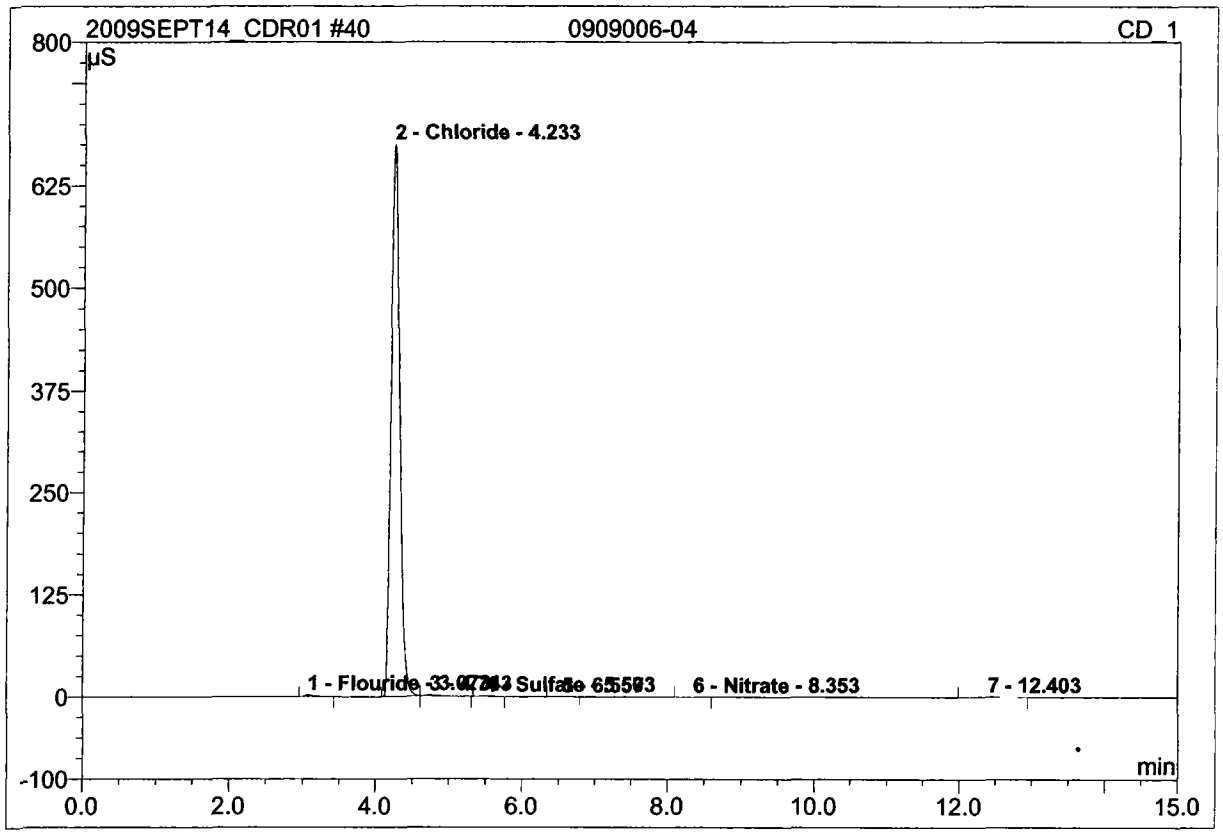
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**31**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/15/2009 0:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.95	n.a.	0.128	0.070	59.97	n.a.	BMB
2	4.27	Chloride	0.266	0.032	27.71	0.234	BMB
3	4.78	n.a.	0.081	0.014	12.32	n.a.	BMB
Total:			0.475	0.117	100.00	0.234	

40 0909006-04

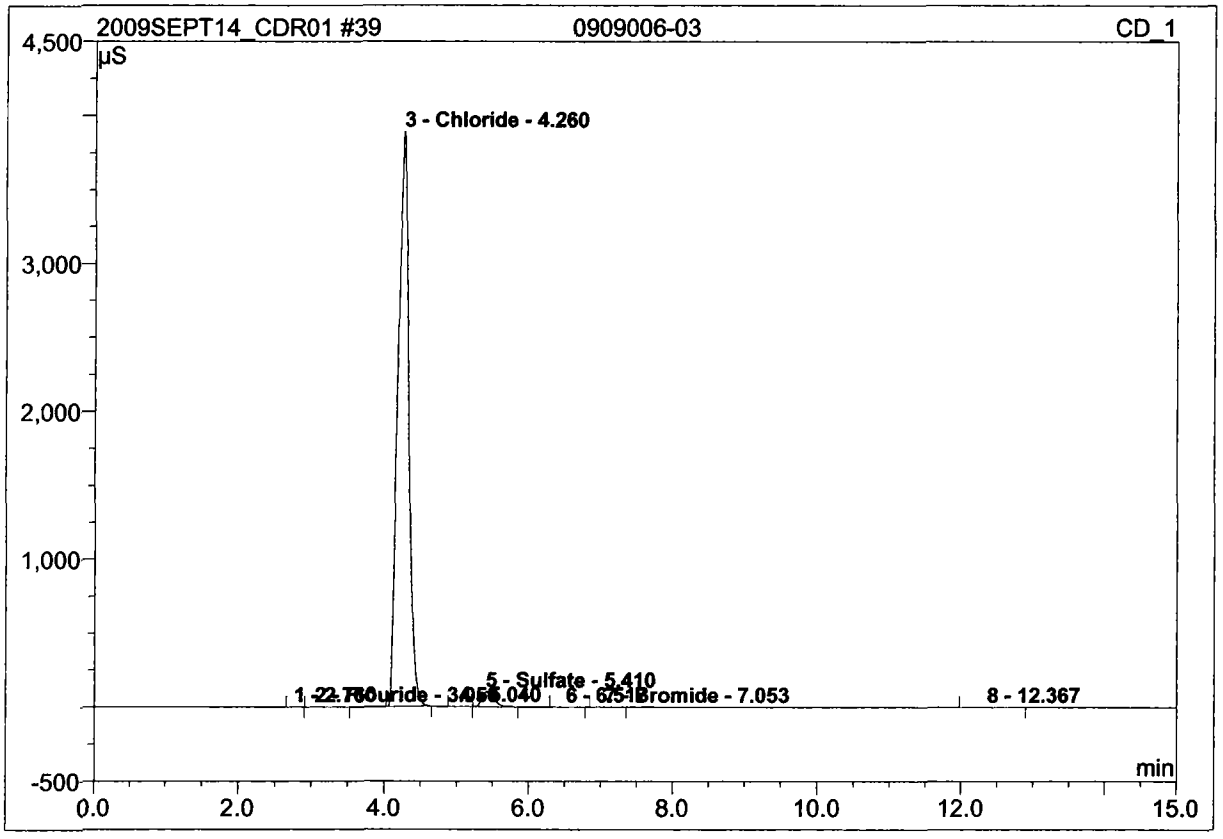
Sample Name:	**0909006-04**	*Injection Volume:*	**25.0**
Vial Number:	**30**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 23:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	2.481	0.300	0.32	0.693	BMB
2	4.23	Chloride	675.647	91.983	99.07	337.436	BMb
3	4.74	n.a.	1.361	0.270	0.29	n.a.	bMB
4	5.50	Sulfate	0.655	0.097	0.10	0.616	BMB
5	6.56	n.a.	0.070	0.012	0.01	n.a.	BMB
6	8.35	Nitrate	0.054	0.011	0.01	0.202	BMB
7	12.40	n.a.	0.562	0.172	0.19	n.a.	BMB
Total:			680.831	92.845	100.00	338.946	

39 0909006-03

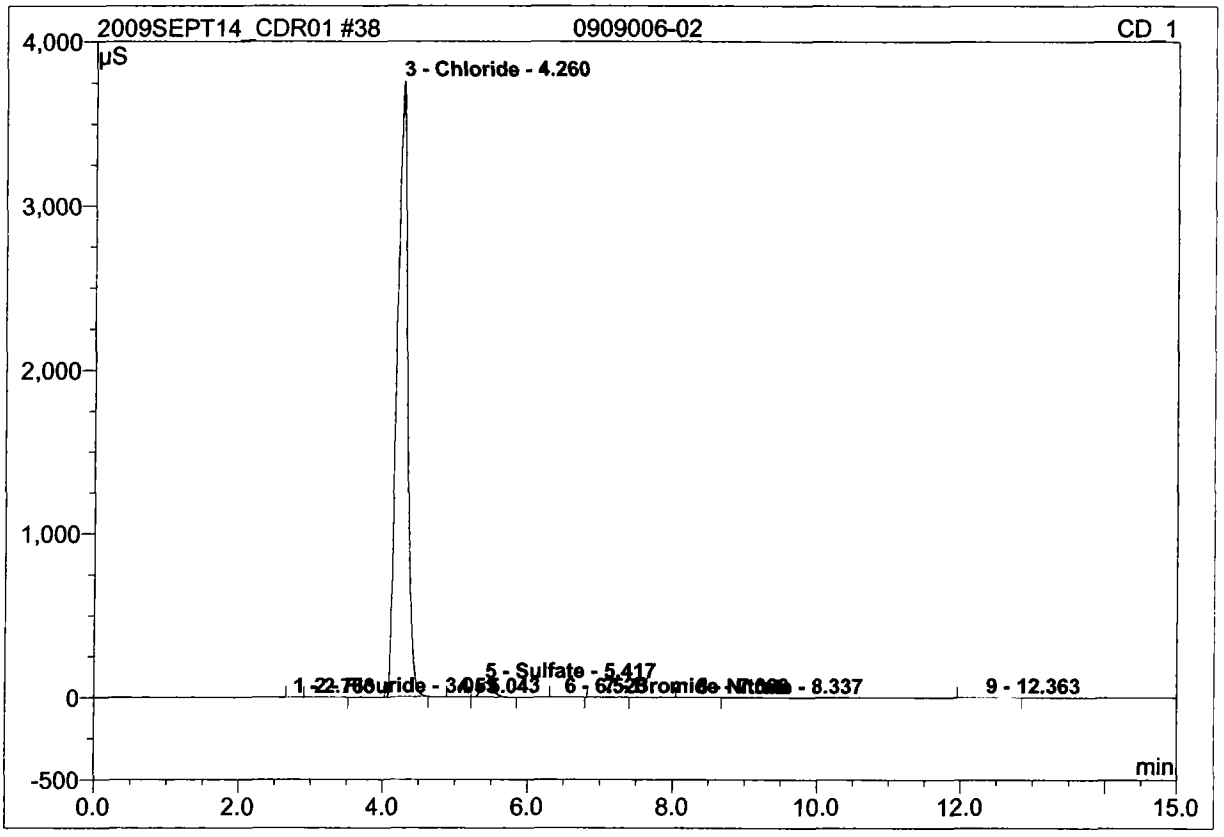
Sample Name:	**0909006-03**	*Injection Volume:*	**25.0**
Vial Number:	**29**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 23:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.223	0.022	0.00	n.a.	BMB
2	3.05	Flouride	1.458	0.234	0.03	0.548	BMB
3	4.26	Chloride	3890.101	677.519	97.19	2484.708	BMB
4	5.04	n.a.	0.199	0.039	0.01	n.a.	BMB
5	5.41	Sulfate	101.046	19.039	2.73	95.809	BMB
6	6.52	n.a.	0.103	0.020	0.00	n.a.	BMB
7	7.05	Bromide	0.313	0.057	0.01	0.647	BMB
8	12.37	n.a.	0.464	0.147	0.02	n.a.	BMB
Total:			3993.907	697.077	100.00	2581.712	

38 0909006-02

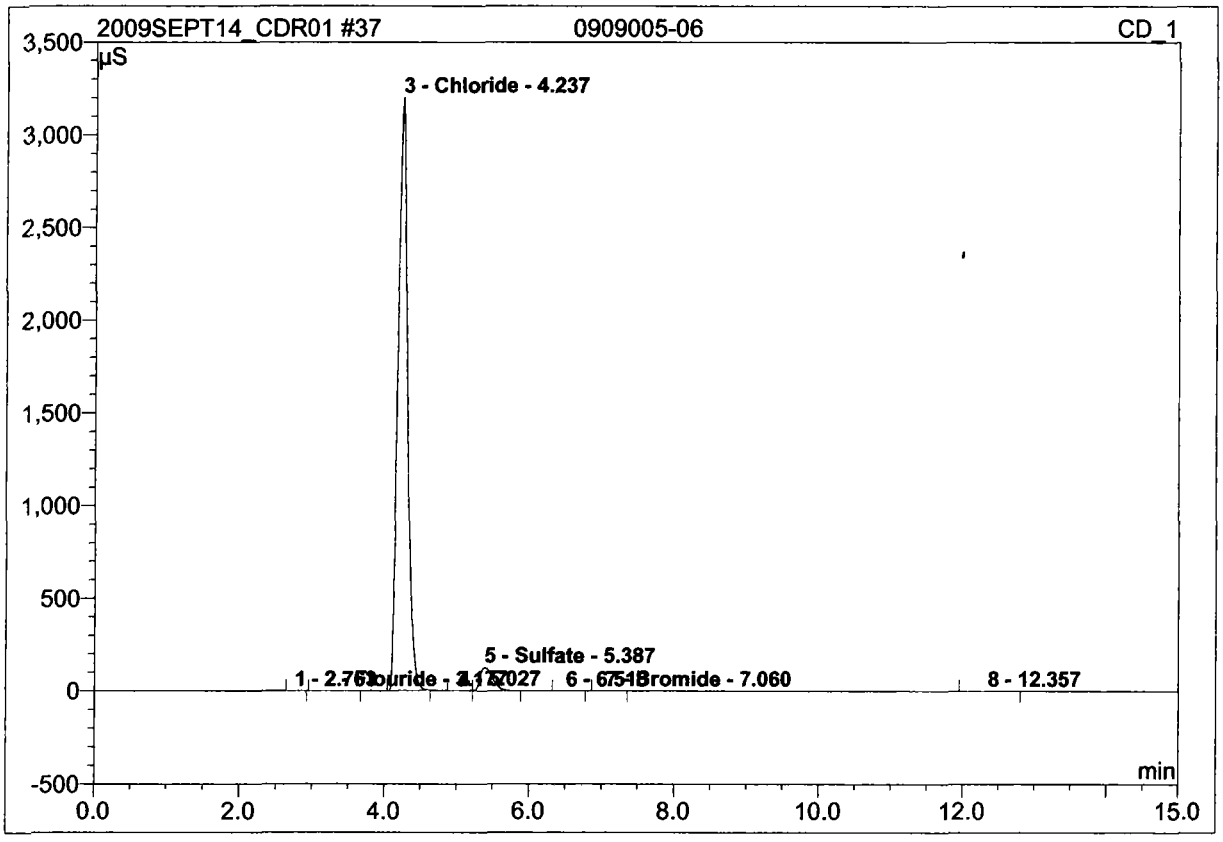
Sample Name:	**0909006-02**	*Injection Volume:*	**25.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 23:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.199	0.020	0.00	n.a.	BMB
2	3.05	Flouride	1.232	0.193	0.03	0.459	BMB
3	4.26	Chloride	3760.018	635.978	97.39	2332.367	BMB
4	5.04	n.a.	0.199	0.041	0.01	n.a.	BMb
5	5.42	Sulfate	90.296	16.616	2.54	83.634	bMB
6	6.52	n.a.	0.089	0.017	0.00	n.a.	BMB
7	7.06	Bromide	0.296	0.053	0.01	0.616	BMB
8	8.34	Nitrate	0.113	0.024	0.00	0.289	BMB
9	12.36	n.a.	0.339	0.107	0.02	n.a.	BMB
Total:			3852.780	653.049	100.00	2417.364	

37 0909005-06

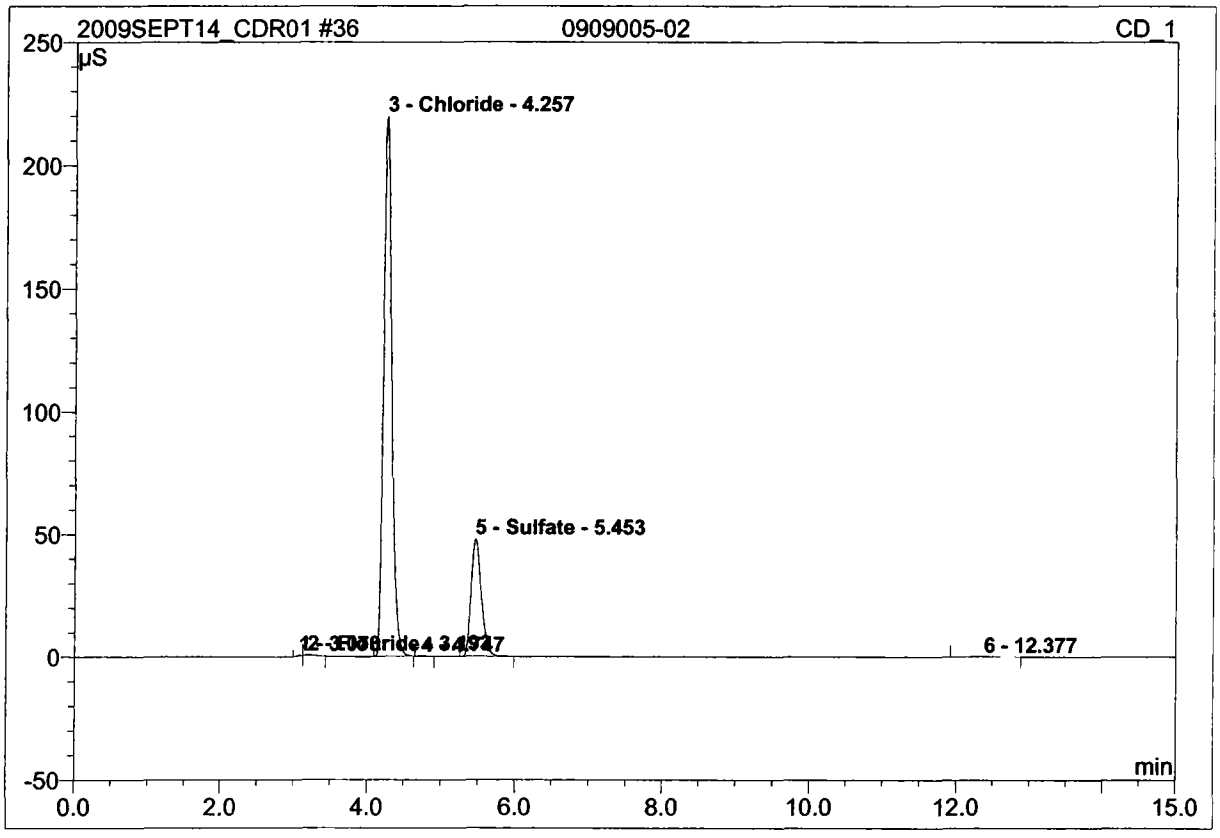
Sample Name:	**0909005-06**	*Injection Volume:*	**25.0**
Vial Number:	**27**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 23:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.117	0.013	0.00	n.a.	BMB
2	3.18	Flouride	0.888	0.193	0.04	0.458	BMB
3	4.24	Chloride	3200.418	488.138	95.21	1790.210	BMB
4	5.03	n.a.	0.137	0.029	0.01	n.a.	BMB
5	5.39	Sulfate	125.283	24.185	4.72	121.667	BMB
6	6.51	n.a.	0.065	0.012	0.00	n.a.	BMB
7	7.06	Bromide	0.243	0.043	0.01	0.518	BMB
8	12.36	n.a.	0.319	0.100	0.02	n.a.	BMB
Total:			3327.471	512.711	100.00	1912.853	

36 0909005-02

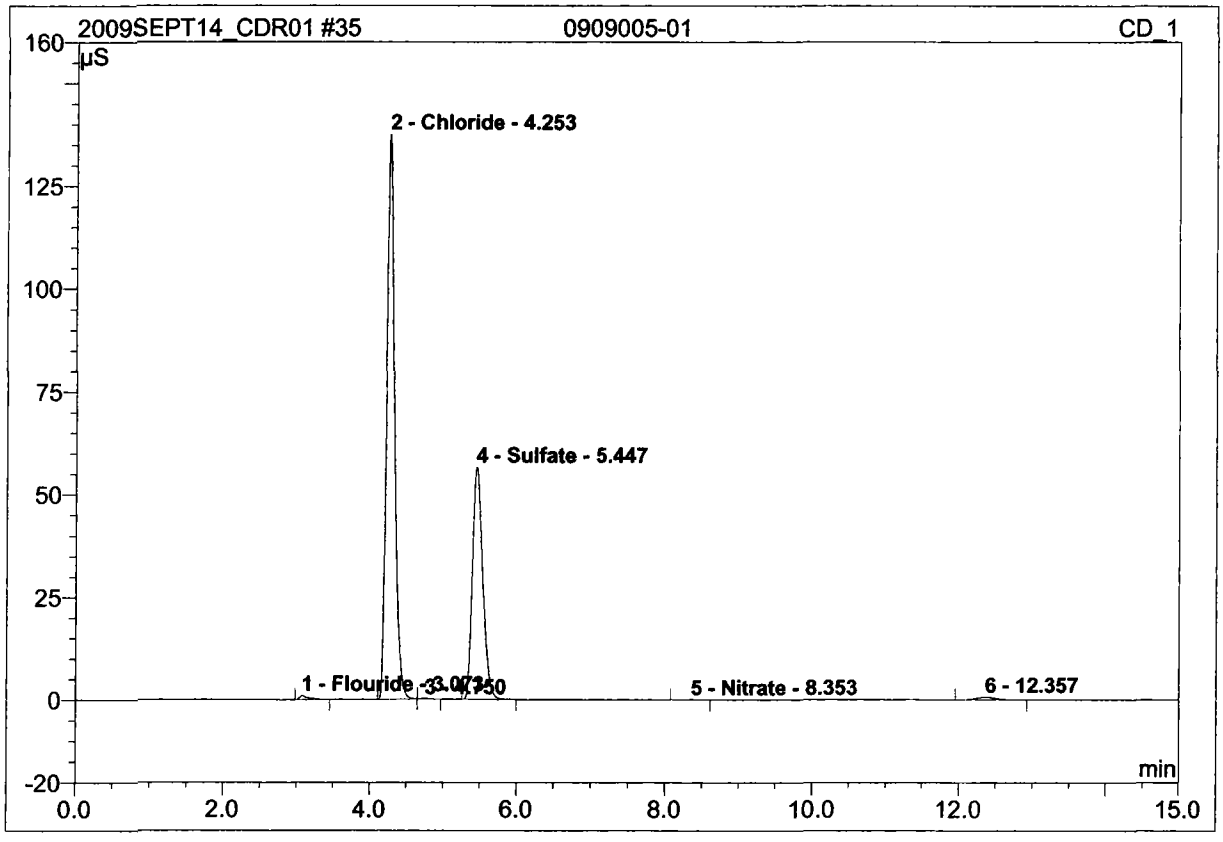
Sample Name:	**0909005-02**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 22:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	n.a.	0.444	0.029	0.08	n.a.	BMb
2	3.19	Flouride	0.458	0.049	0.13	0.145	bMB
3	4.26	Chloride	219.861	28.630	78.18	105.107	BMB
4	4.75	n.a.	0.100	0.012	0.03	n.a.	BMB
5	5.45	Sulfate	47.980	7.840	21.41	39.531	BMB
6	12.38	n.a.	0.194	0.062	0.17	n.a.	BMB
Total:			269.036	36.621	100.00	144.783	

35 0909005-01

Sample Name:	**0909005-01**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 22:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

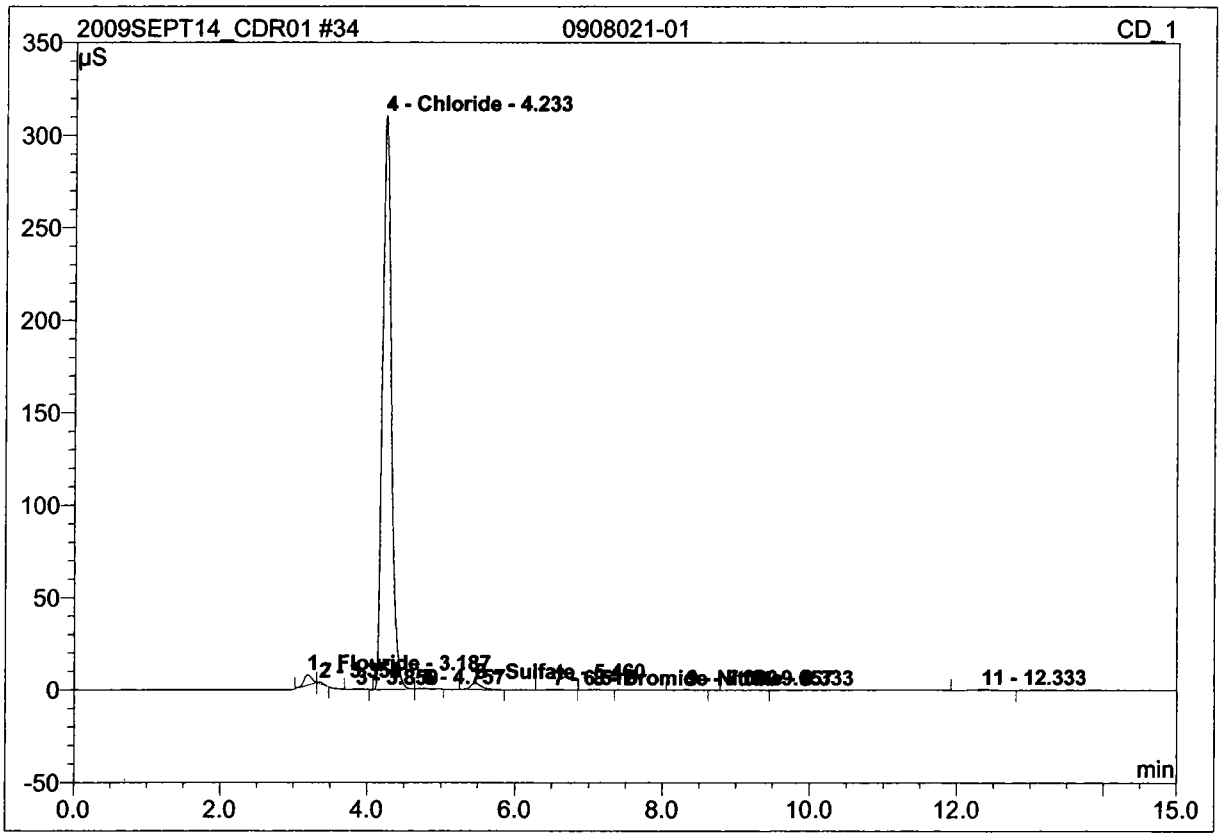


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	0.960	0.133	0.49	0.328	BMB
2	4.25	Chloride	137.514	17.407	64.09	63.950	BMb
3	4.75	n.a.	0.124	0.016	0.06	n.a.	bMB
4	5.45	Sulfate	56.589	9.387	34.56	47.303	BMB
5	8.35	Nitrate	0.054	0.011	0.04	0.202	BMB
6	12.36	n.a.	0.672	0.204	0.75	n.a.	BMB
Total:			195.913	27.158	100.00	111.783	

Total:		321.701	44.383	100.00	162.050

34 0908021-01

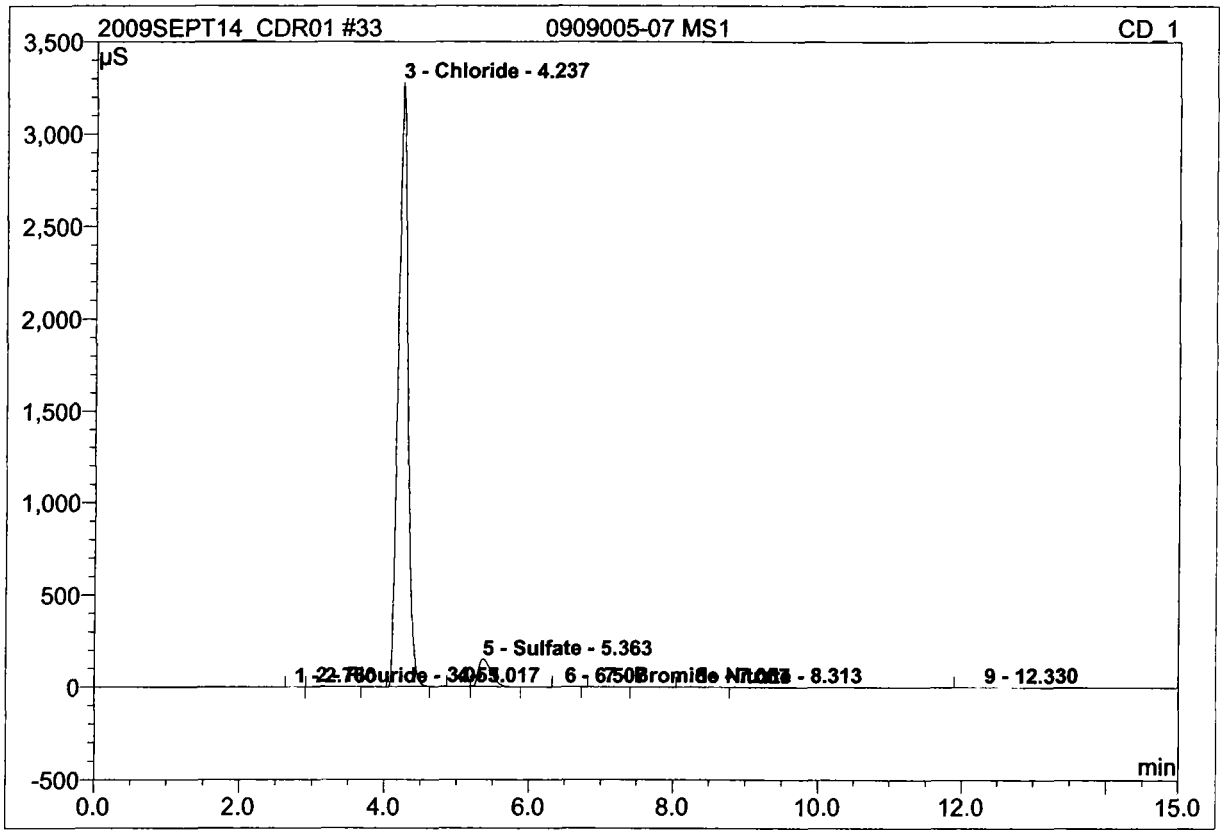
Sample Name:	**0908021-01**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 22:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.19	Flouride	5.534	0.659	1.48	1.480	BMb
2	3.35	n.a.	0.876	0.082	0.18	n.a.	bMB
3	3.85	n.a.	0.142	0.019	0.04	n.a.	BMB
4	4.23	Chloride	310.485	42.754	96.33	156.902	BMb
5	4.76	n.a.	0.185	0.036	0.08	n.a.	bMB
6	5.46	Sulfate	3.443	0.573	1.29	3.013	BMB
7	6.52	n.a.	0.235	0.044	0.10	n.a.	BMB
8	7.06	Bromide	0.152	0.027	0.06	0.359	BMB
9	8.33	Nitrate	0.118	0.025	0.06	0.297	BMB
10	9.06	n.a.	0.045	0.012	0.03	n.a.	BMB
11	12.33	n.a.	0.485	0.151	0.34	n.a.	BMB

33 0909005-07 MS1

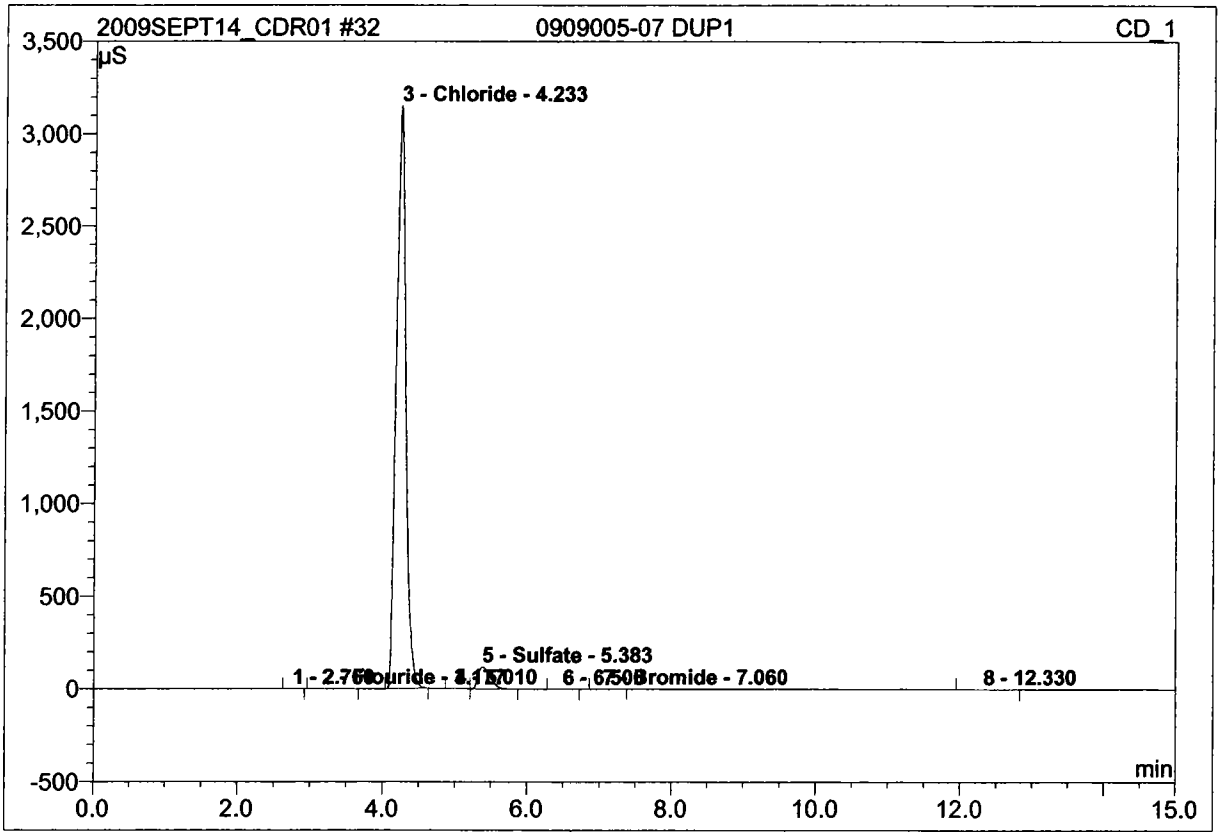
Sample Name:	**0909005-07 MS1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.132	0.014	0.00	n.a.	BMB
2	3.05	Flouride	1.788	0.389	0.07	0.887	BMB
3	4.24	Chloride	3277.519	506.016	94.19	1855.775	BMB
4	5.02	n.a.	0.139	0.028	0.01	n.a.	BMb
5	5.36	Sulfate	149.815	30.083	5.60	151.306	bMB
6	6.51	n.a.	0.066	0.012	0.00	n.a.	BMB
7	7.06	Bromide	1.186	0.209	0.04	2.103	BMB
8	8.31	Nitrate	1.706	0.350	0.07	2.501	BMB
9	12.33	n.a.	0.321	0.101	0.02	n.a.	BMB
Total:			3432.672	537.202	100.00	2012.572	

32 0909005-07 DUP1

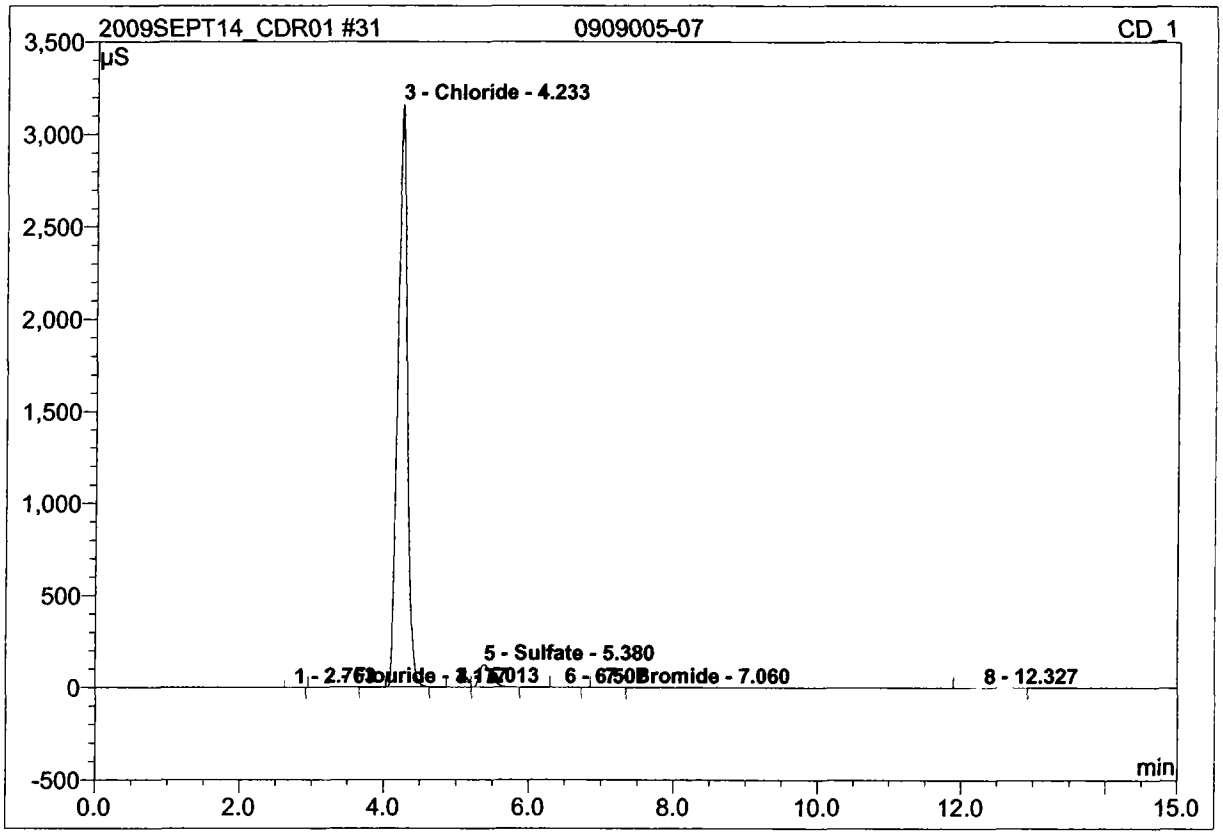
Sample Name:	**0909005-07 DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 21:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.115	0.013	0.00	n.a.	BMB
2	3.18	Flouride	0.839	0.177	0.04	0.425	BMB
3	4.23	Chloride	3150.680	476.532	95.44	1747.648	BMB
4	5.01	n.a.	0.145	0.031	0.01	n.a.	BMb
5	5.38	Sulfate	118.270	22.410	4.49	112.747	bMB
6	6.50	n.a.	0.067	0.012	0.00	n.a.	BMB
7	7.06	Bromide	0.238	0.043	0.01	0.510	BMB
8	12.33	n.a.	0.256	0.080	0.02	n.a.	BMB
Total:			3270.610	499.299	100.00	1861.330	

31 0909005-07

Sample Name:	**0909005-07**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 21:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

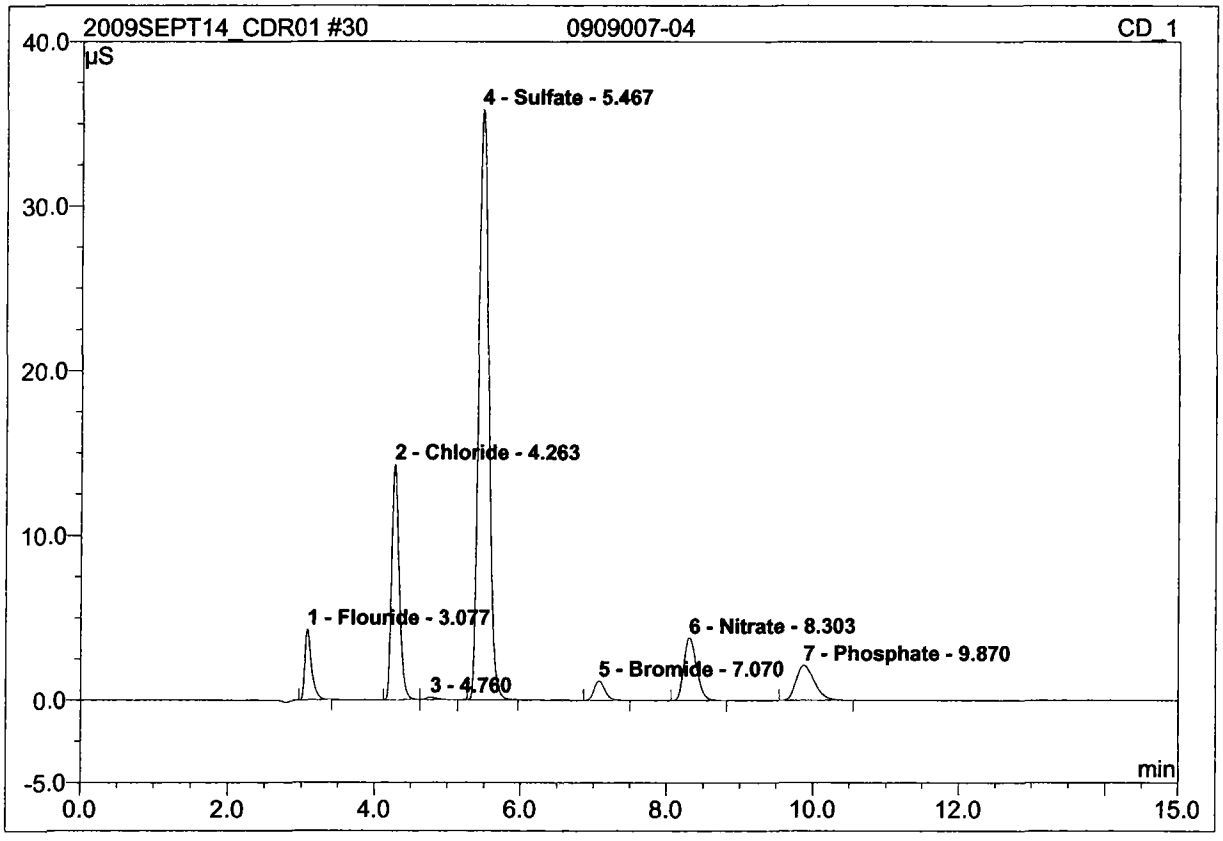


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.76	n.a.	0.129	0.015	0.00	n.a.	BMB
2	3.18	Flouride	0.866	0.187	0.04	0.445	BMB
3	4.23	Chloride	3162.448	478.783	95.27	1755.903	BMB
4	5.01	n.a.	0.143	0.031	0.01	n.a.	BMB
5	5.38	Sulfate	122.645	23.411	4.66	117.779	BMB
6	6.51	n.a.	0.068	0.012	0.00	n.a.	BMB
7	7.06	Bromide	0.239	0.042	0.01	0.507	BMB
8	12.33	n.a.	0.292	0.092	0.02	n.a.	BMB
Total:			3286.830	502.573	100.00	1874.635	

30 0909007-04

P&A-4

Sample Name:	**0909007-04**	*Injection Volume:*	**25.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 20:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

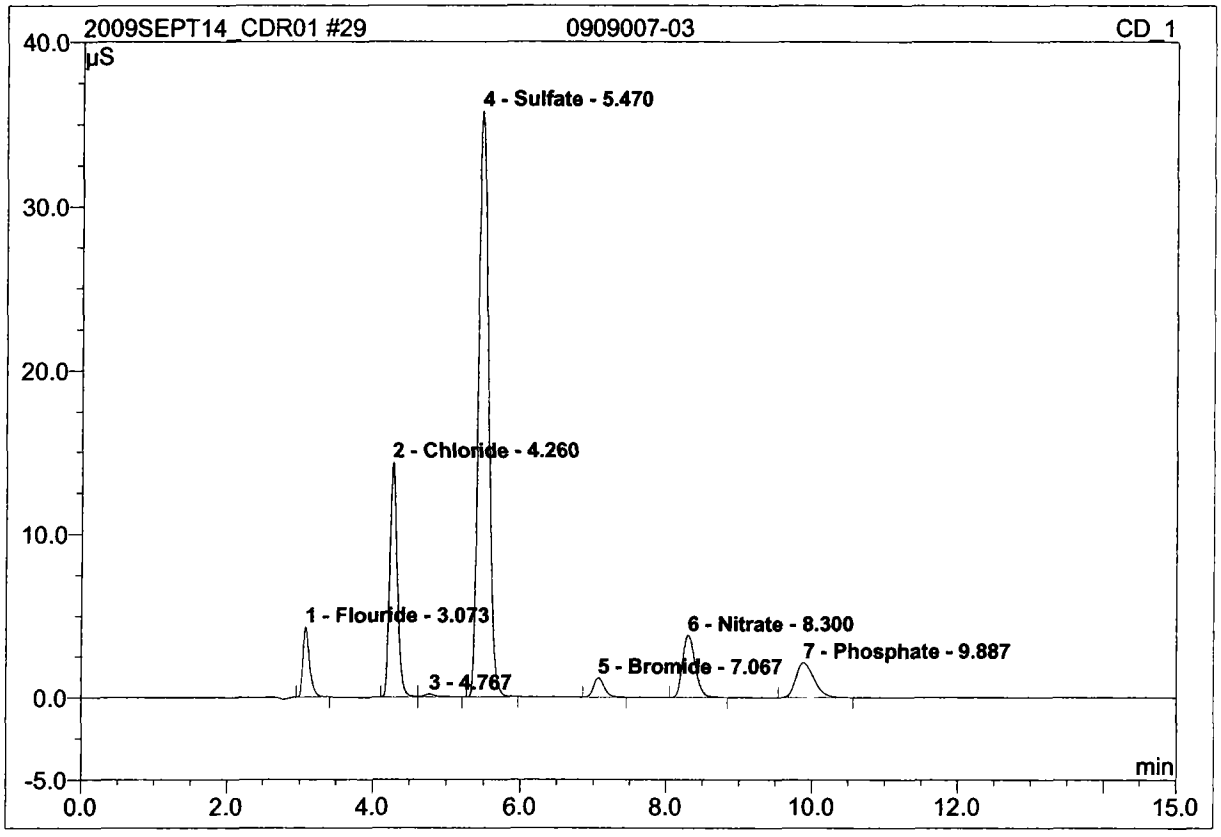


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.305	0.455	4.81	1.031	BMB
2	4.26	Chloride	14.298	1.712	18.10	6.394	BMB
3	4.76	n.a.	0.165	0.027	0.29	n.a.	BMB
4	5.47	Sulfate	35.864	5.695	60.20	28.748	BMB
5	7.07	Bromide	1.175	0.198	2.10	2.002	BMB
6	8.30	Nitrate	3.800	0.764	8.08	5.311	BMB
7	9.87	Phosphate	2.113	0.608	6.42	7.650	BMB
Total:			61.720	9.459	100.00	51.135	

29 0909007-03

P&A-3

Sample Name:	**0909007-03**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 20:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

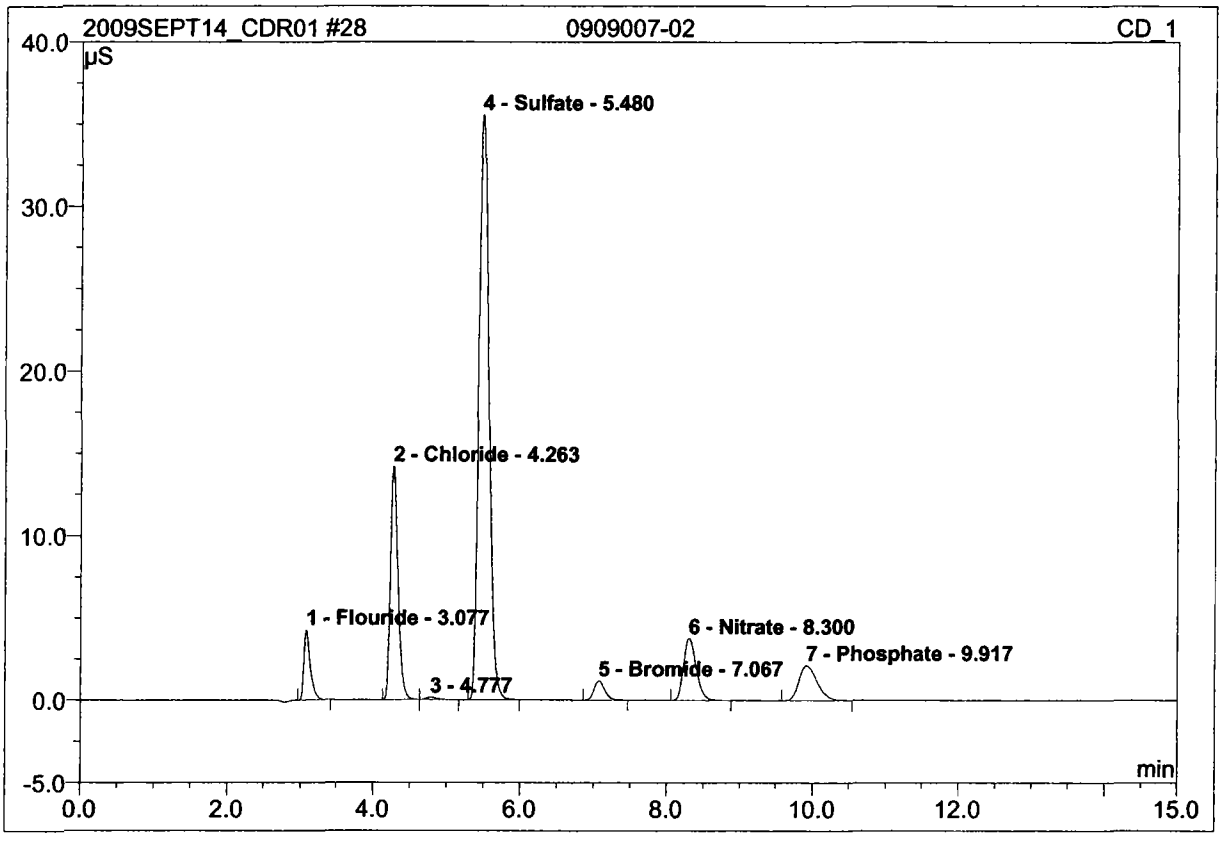


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.07	Flouride	4.308	0.453	4.79	1.027	BMB
2	4.26	Chloride	14.333	1.712	18.11	6.393	BMb
3	4.77	n.a.	0.172	0.030	0.32	n.a.	bMB
4	5.47	Sulfate	35.777	5.686	60.17	28.706	BMB
5	7.07	Bromide	1.177	0.198	2.10	2.000	BMB
6	8.30	Nitrate	3.793	0.762	8.07	5.297	BMB
7	9.89	Phosphate	2.114	0.609	6.44	7.664	BMB
Total:			61.675	9.450	100.00	51.086	

28 0909007-02

P&A-2

Sample Name:	**0909007-02**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 20:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

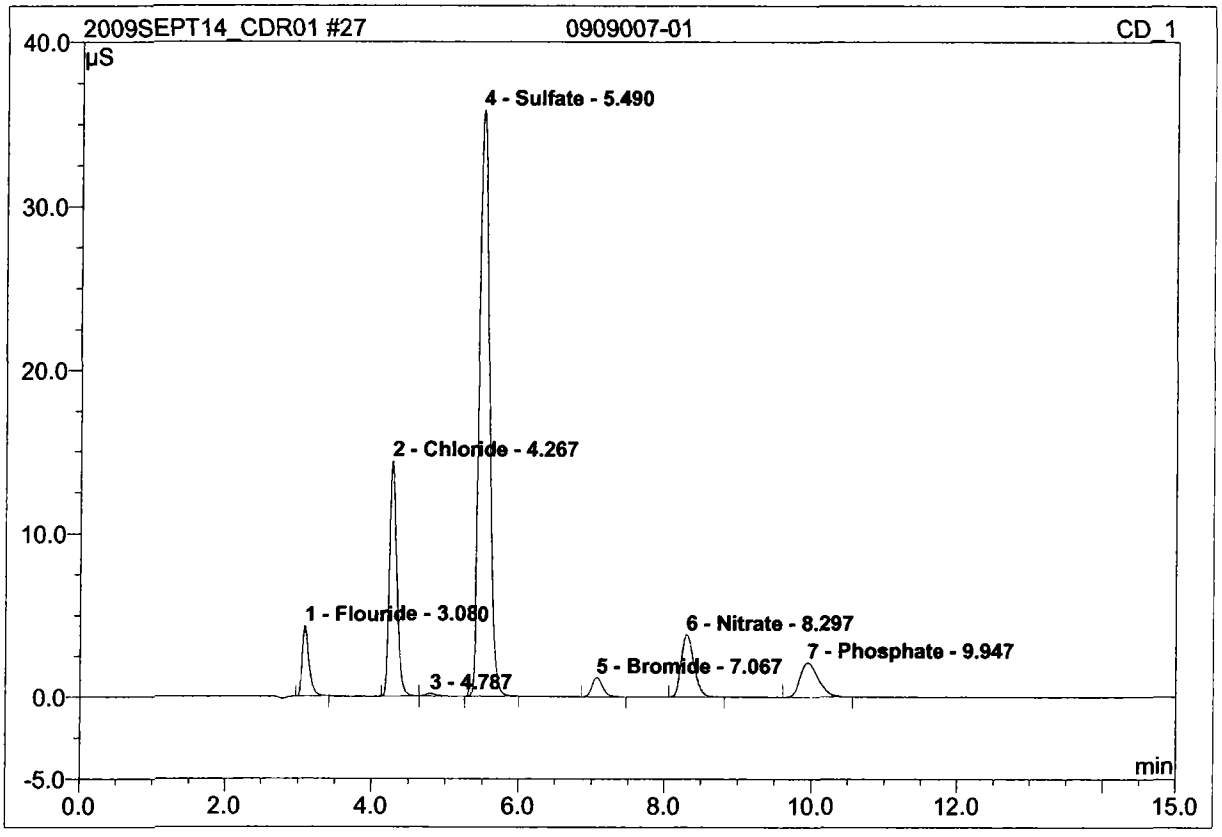


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.269	0.449	4.79	1.019	BMB
2	4.26	Chloride	14.210	1.698	18.10	6.343	BMB
3	4.78	n.a.	0.155	0.026	0.28	n.a.	BMB
4	5.48	Sulfate	35.537	5.651	60.23	28.527	BMB
5	7.07	Bromide	1.172	0.197	2.10	1.993	BMB
6	8.30	Nitrate	3.758	0.755	8.05	5.247	BMB
7	9.92	Phosphate	2.106	0.606	6.46	7.629	BMB
Total:			61.208	9.382	100.00	50.758	

27 0909007-01

P&A-1

Sample Name:	**0909007-01**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 19:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

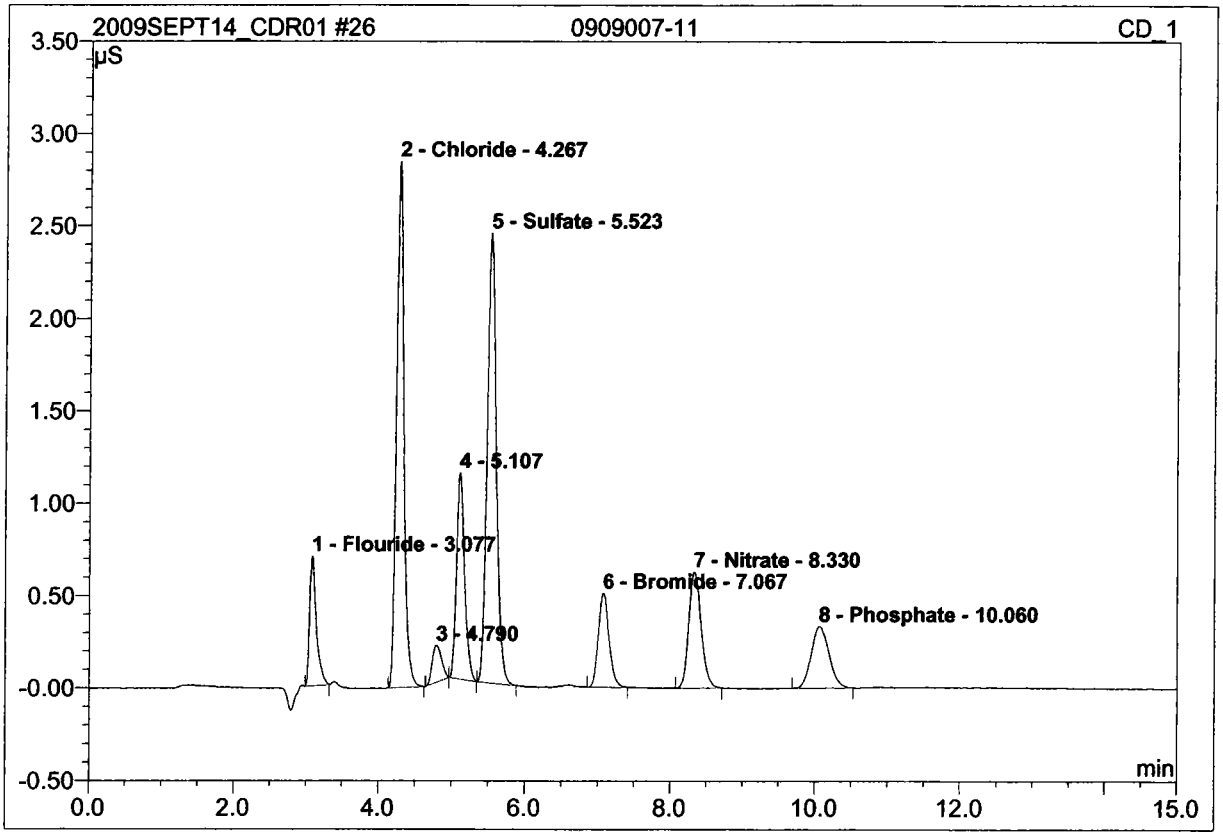


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.331	0.457	4.82	1.035	BMB
2	4.27	Chloride	14.402	1.721	18.15	6.425	BMb
3	4.79	n.a.	0.177	0.031	0.32	n.a.	bMB
4	5.49	Sulfate	35.835	5.701	60.14	28.781	BMB
5	7.07	Bromide	1.184	0.199	2.10	2.007	BMB
6	8.30	Nitrate	3.812	0.765	8.07	5.316	BMB
7	9.95	Phosphate	2.102	0.607	6.40	7.638	BMB
Total:			61.843	9.480	100.00	51.202	

26 0909007-11

MDL-7

Sample Name:	**0909007-11**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 19:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

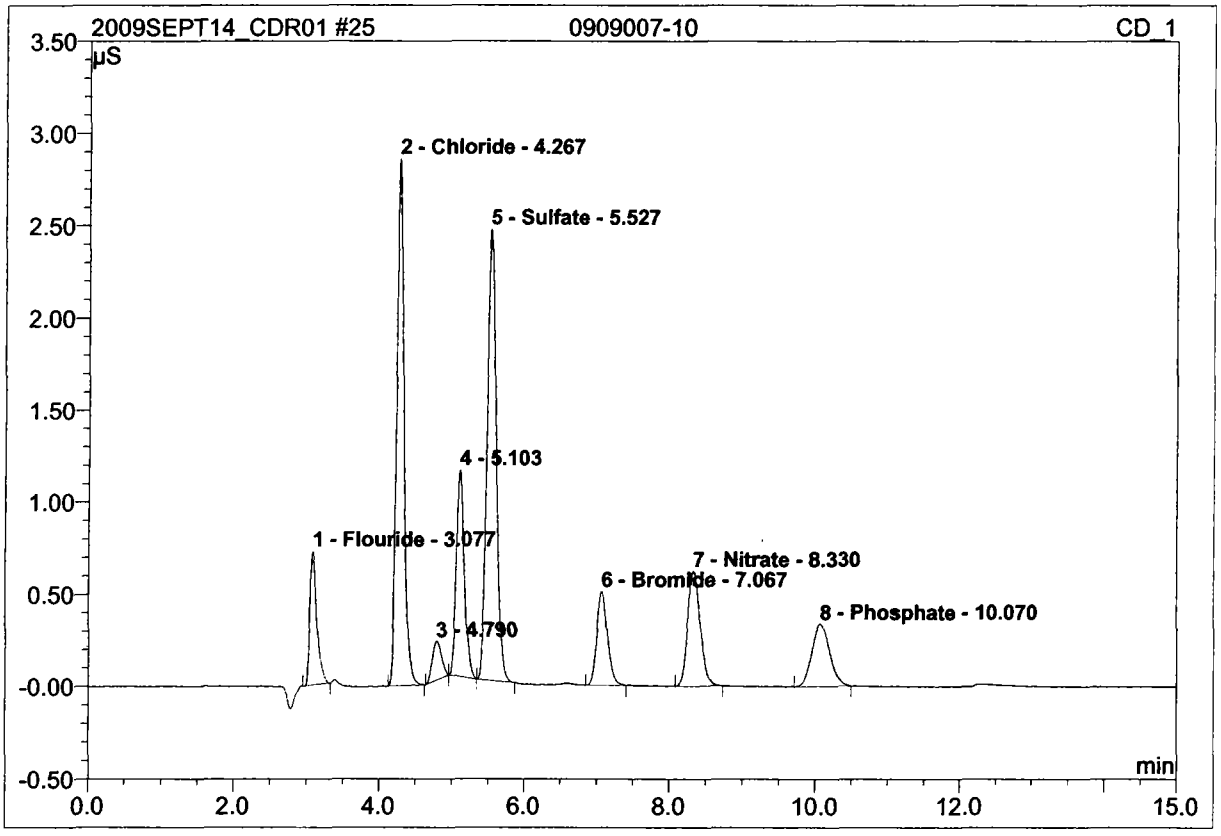


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.705	0.075	6.05	0.203	BMB
2	4.27	Chloride	2.848	0.334	26.75	1.339	BMB
3	4.79	n.a.	0.200	0.029	2.35	n.a.	BMB
4	5.11	n.a.	1.117	0.145	11.63	n.a.	bMB
5	5.52	Sulfate	2.436	0.358	28.70	1.929	BMB
6	7.07	Bromide	0.509	0.087	6.95	0.940	BMB
7	8.33	Nitrate	0.630	0.125	10.01	0.975	BMB
8	10.06	Phosphate	0.335	0.094	7.56	1.388	BMB
Total:			8.780	1.247	100.00	6.775	

25 0909007-10

MDL-6

Sample Name:	**0909007-10**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 19:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

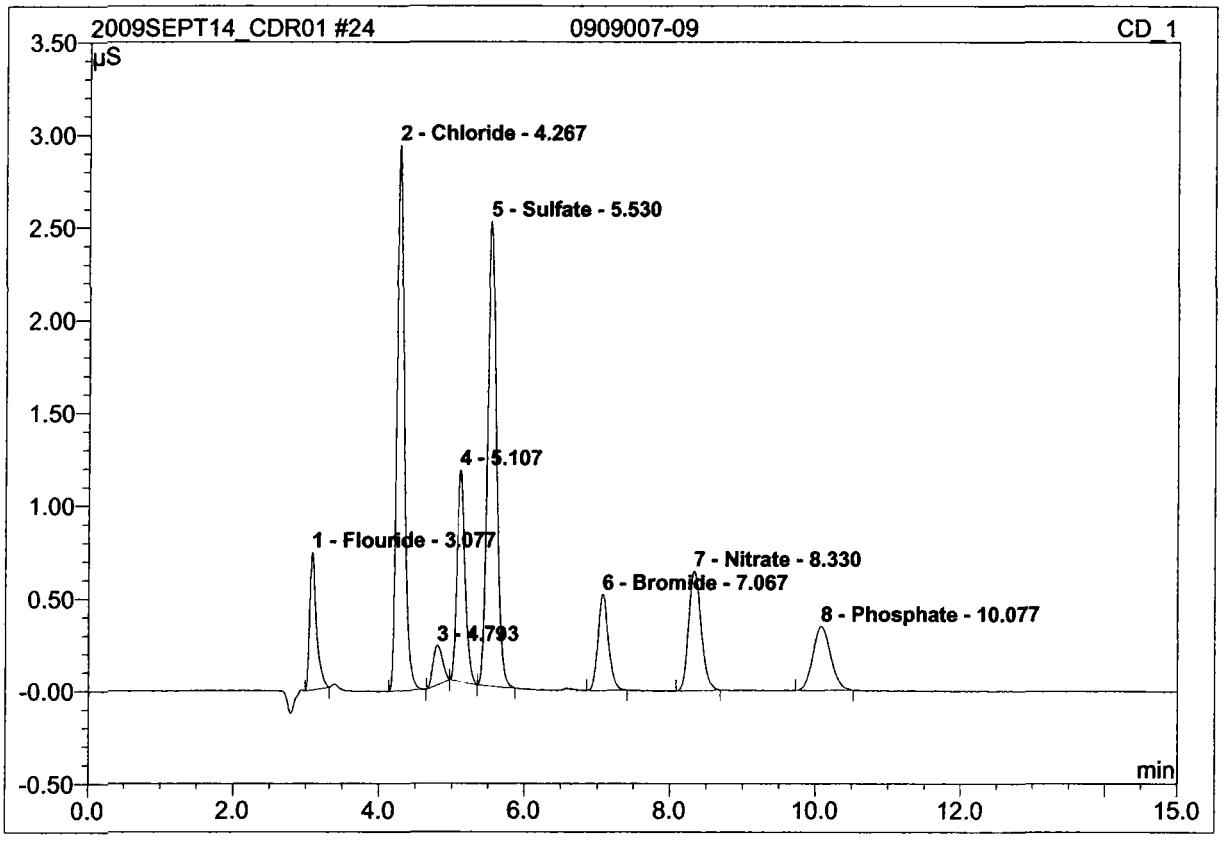


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.728	0.077	6.17	0.208	BMB
2	4.27	Chloride	2.860	0.335	26.67	1.345	BMB
3	4.79	n.a.	0.211	0.031	2.46	n.a.	BMb
4	5.10	n.a.	1.122	0.146	11.58	n.a.	bMB
5	5.53	Sulfate	2.452	0.360	28.68	1.942	BMB
6	7.07	Bromide	0.511	0.087	6.95	0.946	BMB
7	8.33	Nitrate	0.624	0.124	9.86	0.969	BMB
8	10.07	Phosphate	0.339	0.096	7.64	1.409	BMB
Total:			8.847	1.257	100.00	6.818	

24 0909007-09

MDL-5

Sample Name:	**0909007-09**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 19:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

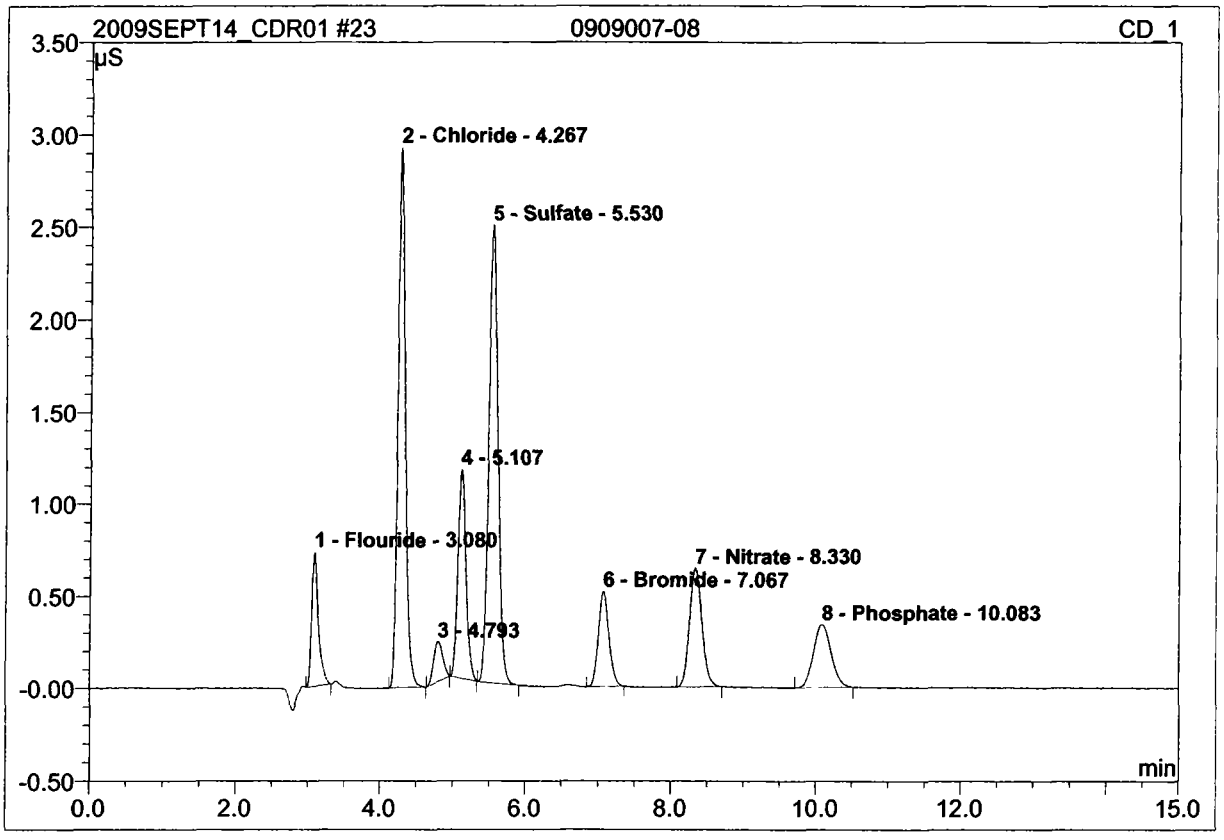


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.745	0.080	6.20	0.213	BMB
2	4.27	Chloride	2.945	0.345	26.74	1.380	BMB
3	4.79	n.a.	0.216	0.032	2.47	n.a.	BMb
4	5.11	n.a.	1.143	0.149	11.53	n.a.	bMB
5	5.53	Sulfate	2.508	0.369	28.62	1.984	BMB
6	7.07	Bromide	0.521	0.089	6.87	0.958	BMB
7	8.33	Nitrate	0.647	0.128	9.94	0.998	BMB
8	10.08	Phosphate	0.349	0.098	7.63	1.438	BMB
Total:			9.074	1.289	100.00	6.971	

23 0909007-08

MDL-4

Sample Name:	**0909007-08**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 18:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

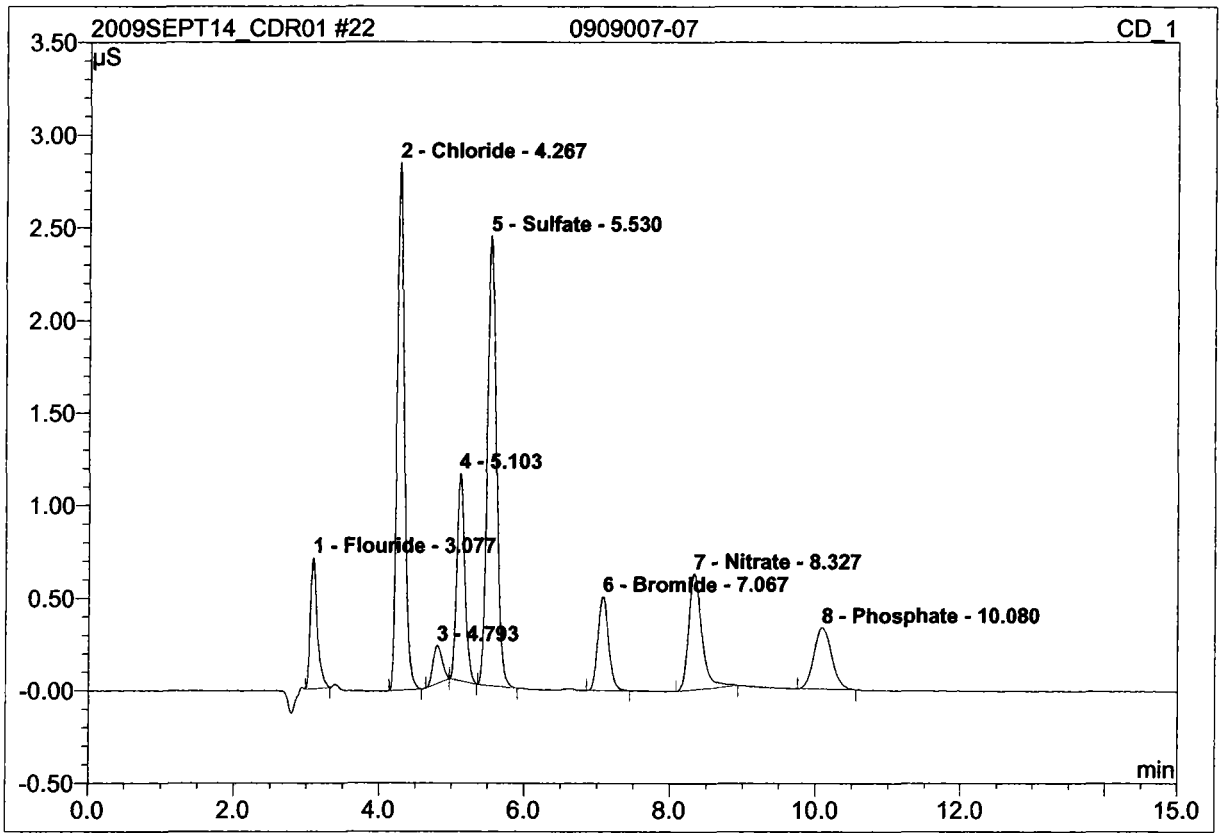


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.731	0.078	6.12	0.209	BMB
2	4.27	Chloride	2.930	0.343	26.83	1.373	BMB
3	4.79	n.a.	0.218	0.032	2.51	n.a.	BMB
4	5.11	n.a.	1.135	0.147	11.52	n.a.	BMB
5	5.53	Sulfate	2.483	0.366	28.61	1.968	BMB
6	7.07	Bromide	0.518	0.088	6.85	0.949	BMB
7	8.33	Nitrate	0.645	0.128	9.98	0.994	BMB
8	10.08	Phosphate	0.341	0.097	7.57	1.418	BMB
Total:			9.001	1.278	100.00	6.911	

22 0909007-07

MDL-3

Sample Name:	**0909007-07**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 18:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

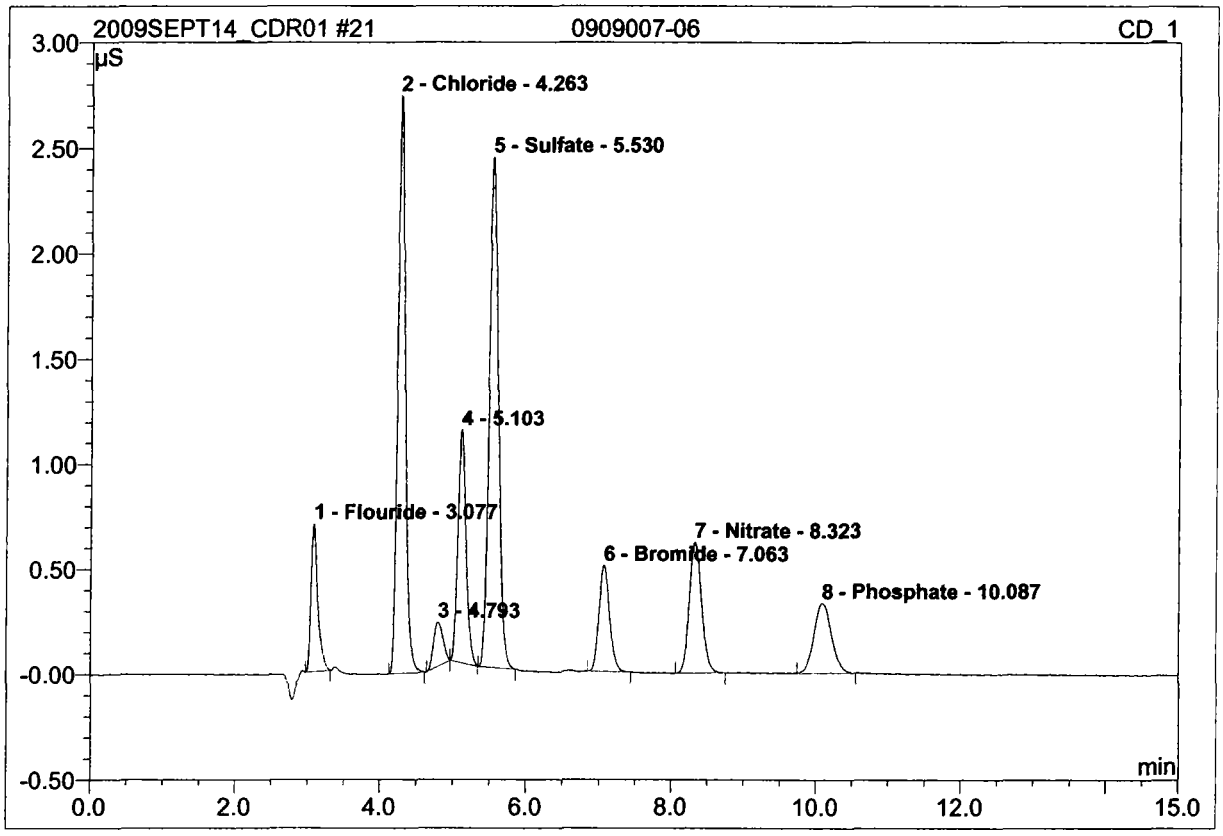


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.708	0.076	6.03	0.204	BMB
2	4.27	Chloride	2.850	0.332	26.52	1.335	BMB
3	4.79	n.a.	0.207	0.030	2.41	n.a.	BMB
4	5.10	n.a.	1.121	0.146	11.61	n.a.	BMB
5	5.53	Sulfate	2.429	0.358	28.56	1.930	BMB
6	7.07	Bromide	0.509	0.087	6.91	0.940	BMB
7	8.33	Nitrate	0.628	0.132	10.50	1.022	BMB
8	10.08	Phosphate	0.333	0.093	7.46	1.378	BMB
Total:			8.785	1.254	100.00	6.808	

21 0909007-06

MDL-2

Sample Name:	**0909007-06**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 18:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

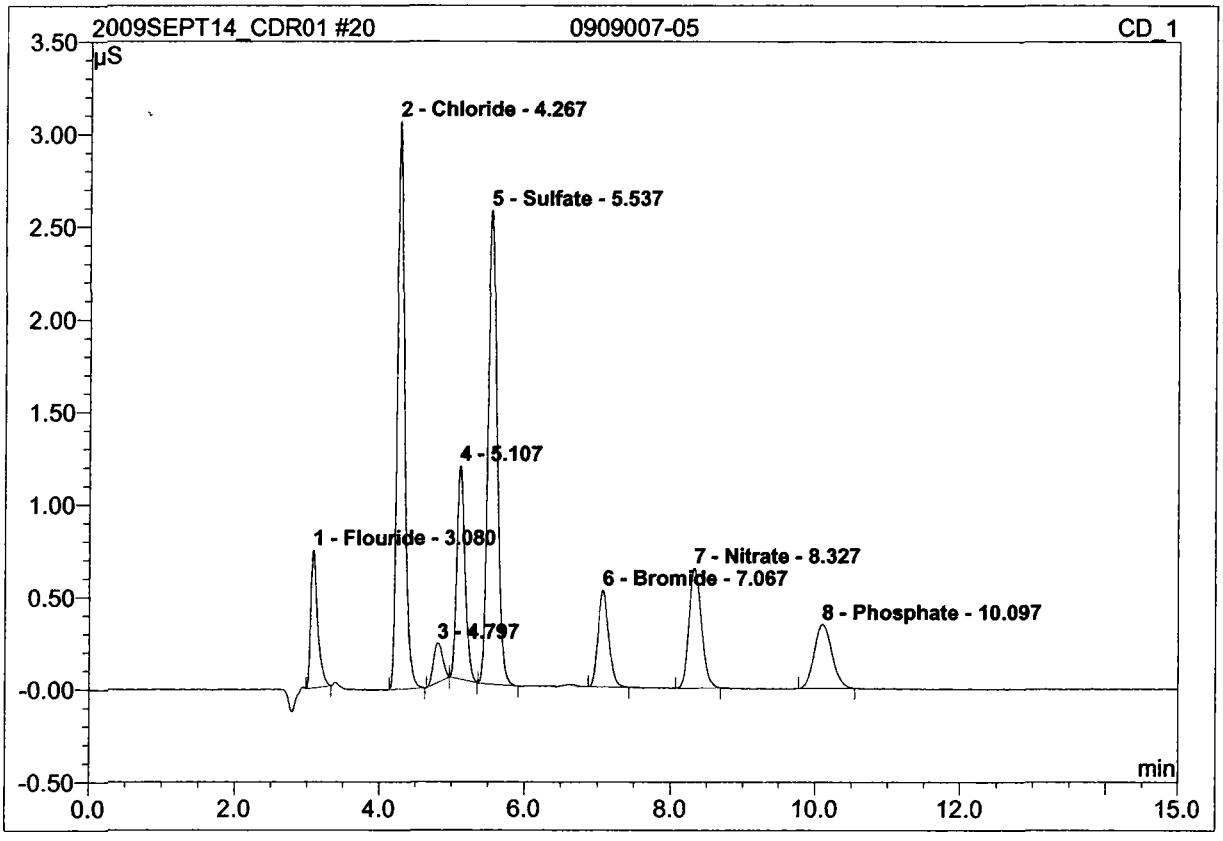


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.707	0.075	6.09	0.203	BMB
2	4.26	Chloride	2.746	0.322	26.09	1.297	BMB
3	4.79	n.a.	0.213	0.031	2.52	n.a.	BMB
4	5.10	n.a.	1.110	0.144	11.69	n.a.	BMB
5	5.53	Sulfate	2.428	0.357	28.97	1.927	BMB
6	7.06	Bromide	0.507	0.086	6.97	0.934	BMB
7	8.32	Nitrate	0.624	0.124	10.02	0.968	BMB
8	10.09	Phosphate	0.334	0.094	7.65	1.389	BMB
Total:			8.668	1.234	100.00	6.717	

20 0909007-05

MDL-1

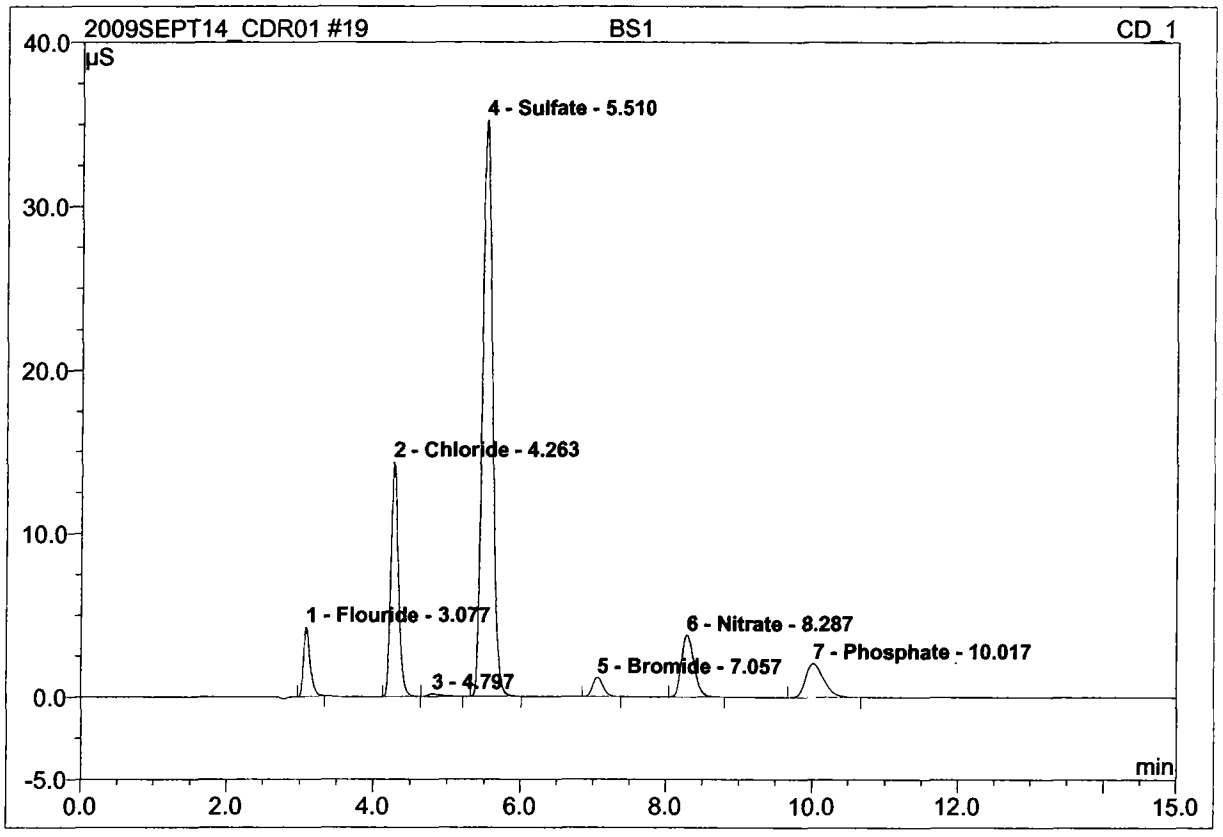
Sample Name:	**0909007-05**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 17:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.747	0.080	6.11	0.214	BMB
2	4.27	Chloride	3.069	0.359	27.37	1.433	BMB
3	4.80	n.a.	0.214	0.031	2.35	n.a.	BMb
4	5.11	n.a.	1.155	0.150	11.41	n.a.	bMB
5	5.54	Sulfate	2.560	0.377	28.71	2.023	BMB
6	7.07	Bromide	0.525	0.089	6.82	0.967	BMB
7	8.33	Nitrate	0.649	0.129	9.82	1.002	BMB
8	10.10	Phosphate	0.347	0.097	7.42	1.425	BMB
Total:			9.267	1.312	100.00	7.063	

19 BS1

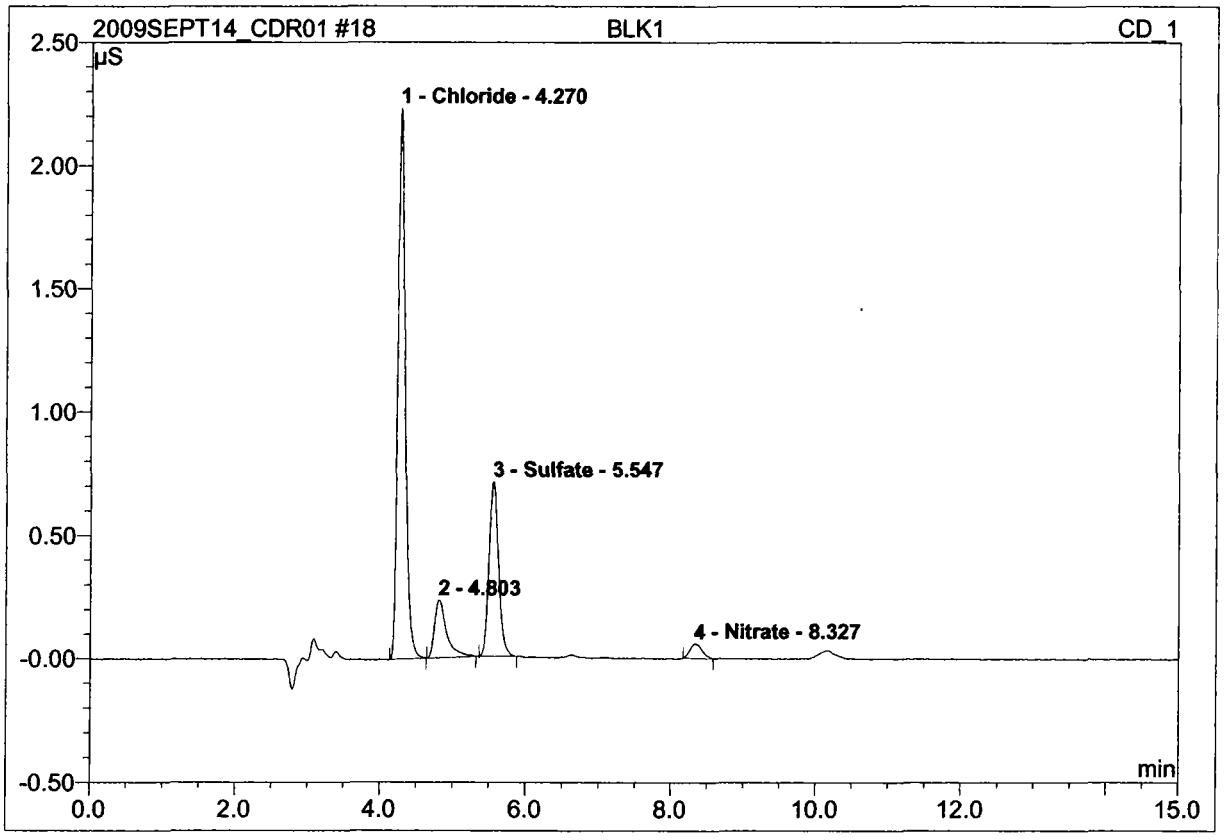
Sample Name:	**BS1**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 17:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.281	0.447	4.78	1.014	BMB
2	4.26	Chloride	14.368	1.713	18.31	6.398	BMB
3	4.80	n.a.	0.183	0.032	0.34	n.a.	BMB
4	5.51	Sulfate	35.261	5.618	60.03	28.363	BMB
5	7.06	Bromide	1.173	0.196	2.09	1.978	BMB
6	8.29	Nitrate	3.781	0.755	8.07	5.251	BMB
7	10.02	Phosphate	2.060	0.597	6.38	7.518	BMB
Total:			61.107	9.358	100.00	50.522	

18 BLK1

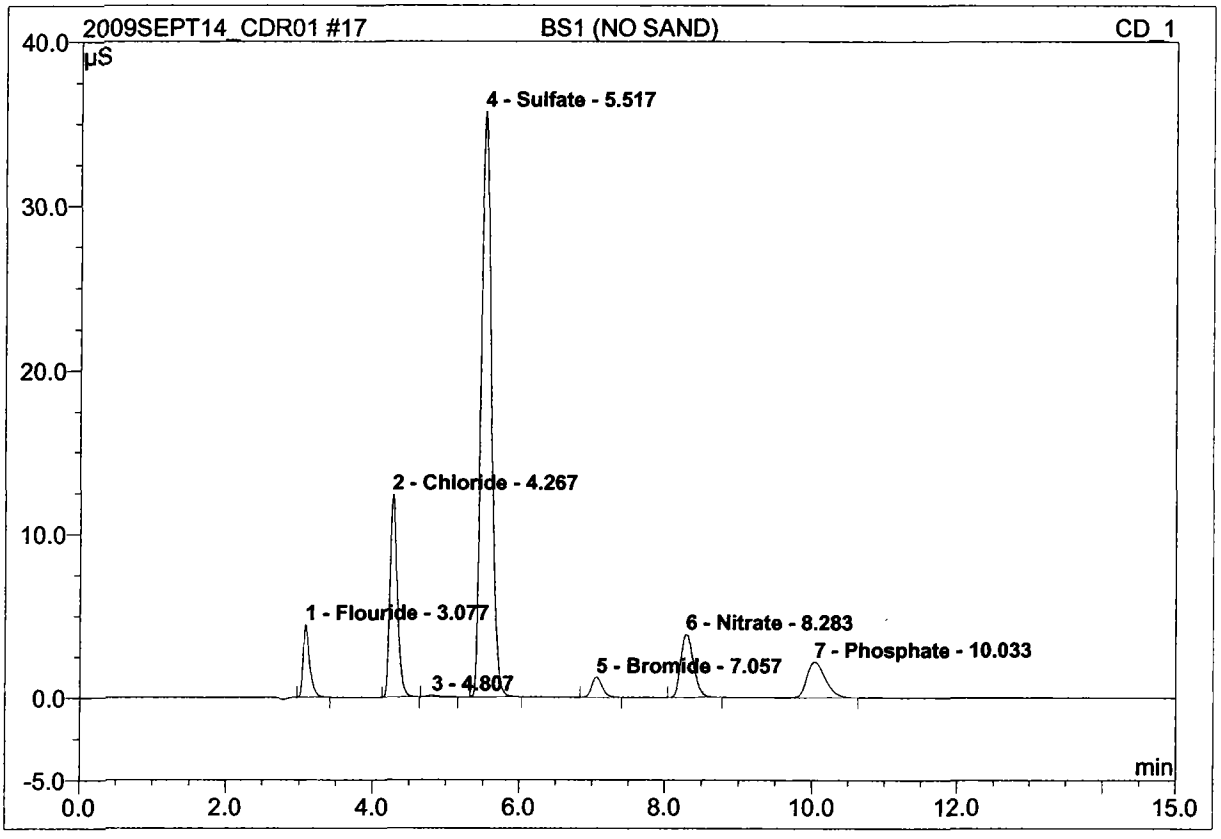
Sample Name:	**BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 17:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.27	Chloride	2.237	0.262	61.78	1.077	BMB
2	4.80	n.a.	0.236	0.045	10.54	n.a.	BMB
3	5.55	Sulfate	0.709	0.106	25.07	0.665	BMB
4	8.33	Nitrate	0.060	0.011	2.60	0.202	BMB
Total:			3.241	0.424	100.00	1.943	

17 BS1 (NO SAND)

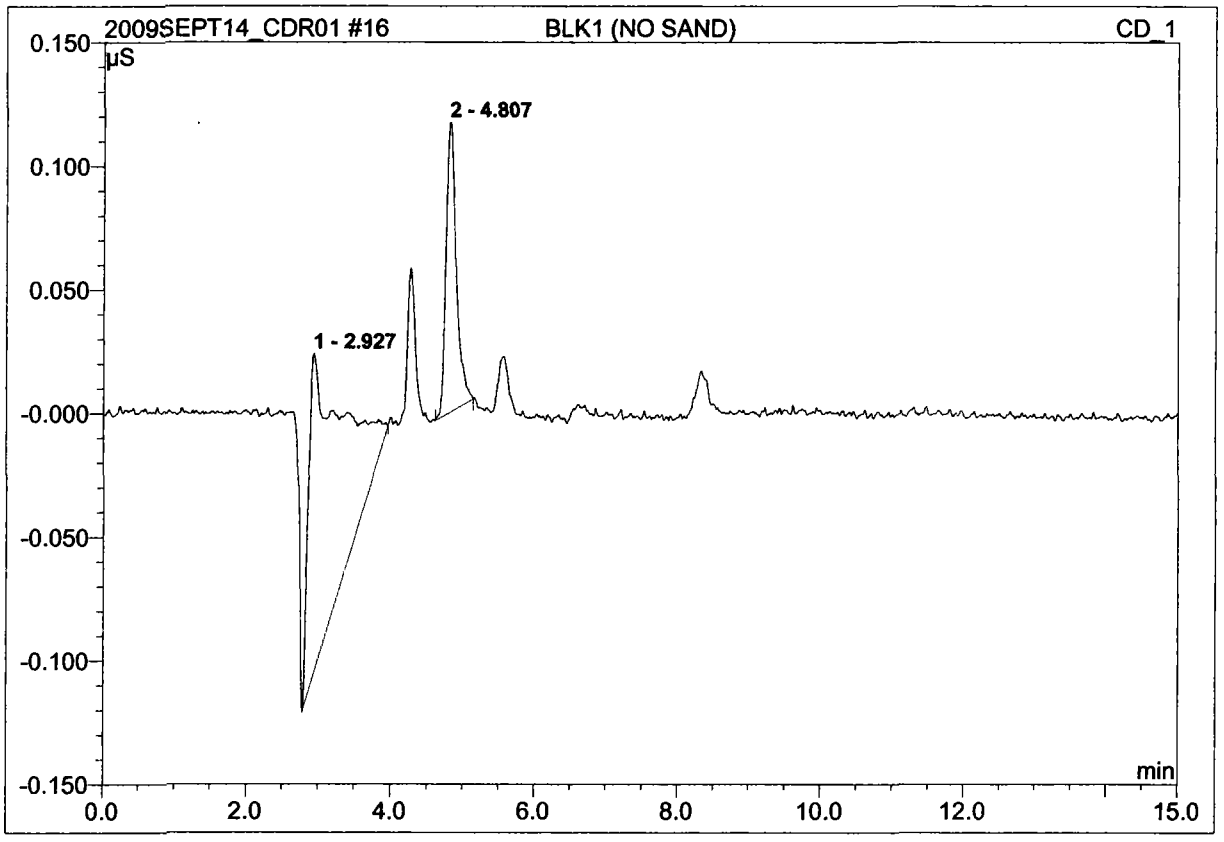
Sample Name:	**BS1 (NO SAND)**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 16:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.442	0.464	5.01	1.050	BMB
2	4.27	Chloride	12.387	1.470	15.88	5.508	BMB
3	4.81	n.a.	0.107	0.018	0.19	n.a.	BMB
4	5.52	Sulfate	35.734	5.698	61.54	28.765	BMB
5	7.06	Bromide	1.220	0.204	2.20	2.052	BMB
6	8.28	Nitrate	3.861	0.771	8.32	5.353	BMB
7	10.03	Phosphate	2.175	0.635	6.85	7.978	BMB
Total:			59.925	9.258	100.00	50.705	

16 BLK1 (NO SAND)

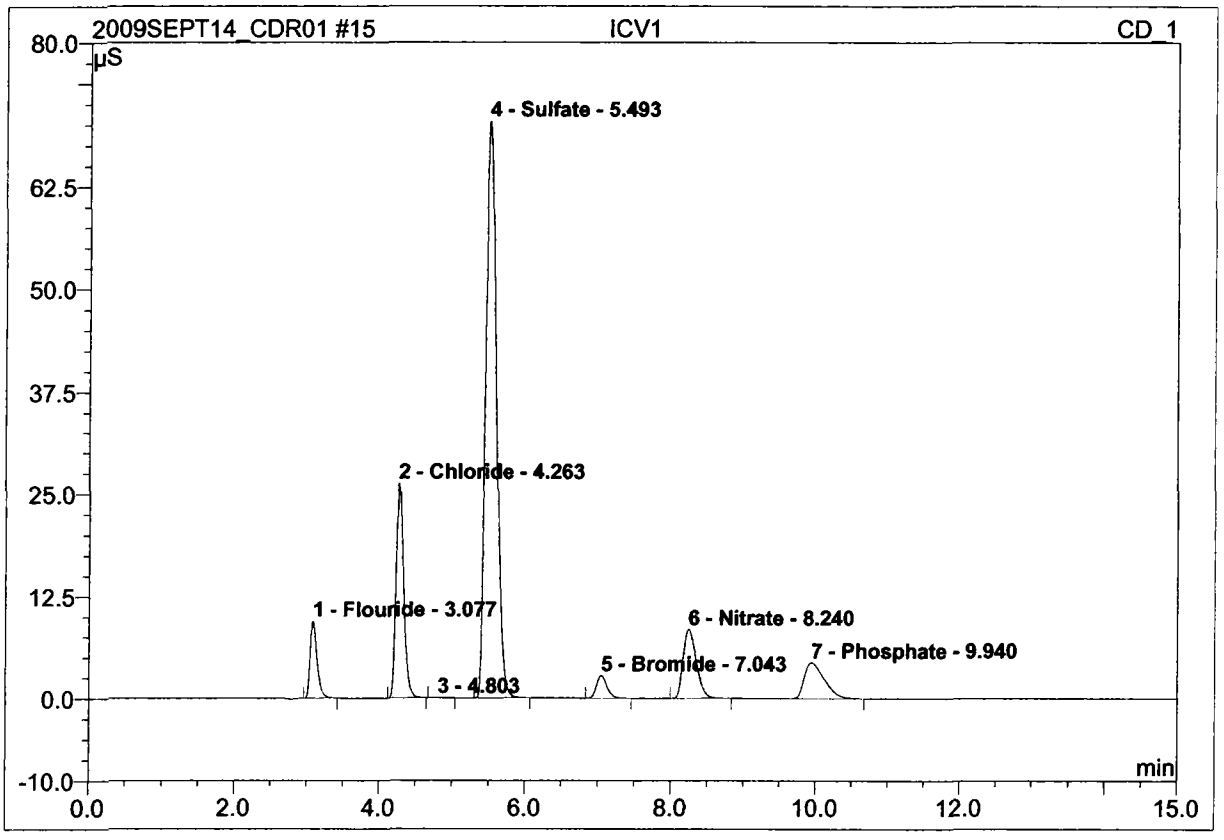
Sample Name:	**BLK1 (NO SAND)**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 16:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.93	n.a.	0.130	0.067	77.11	n.a.	BMB
2	4.81	n.a.	0.118	0.020	22.89	n.a.	BMB
Total:			0.248	0.086	100.00	0.000	

15 ICV1

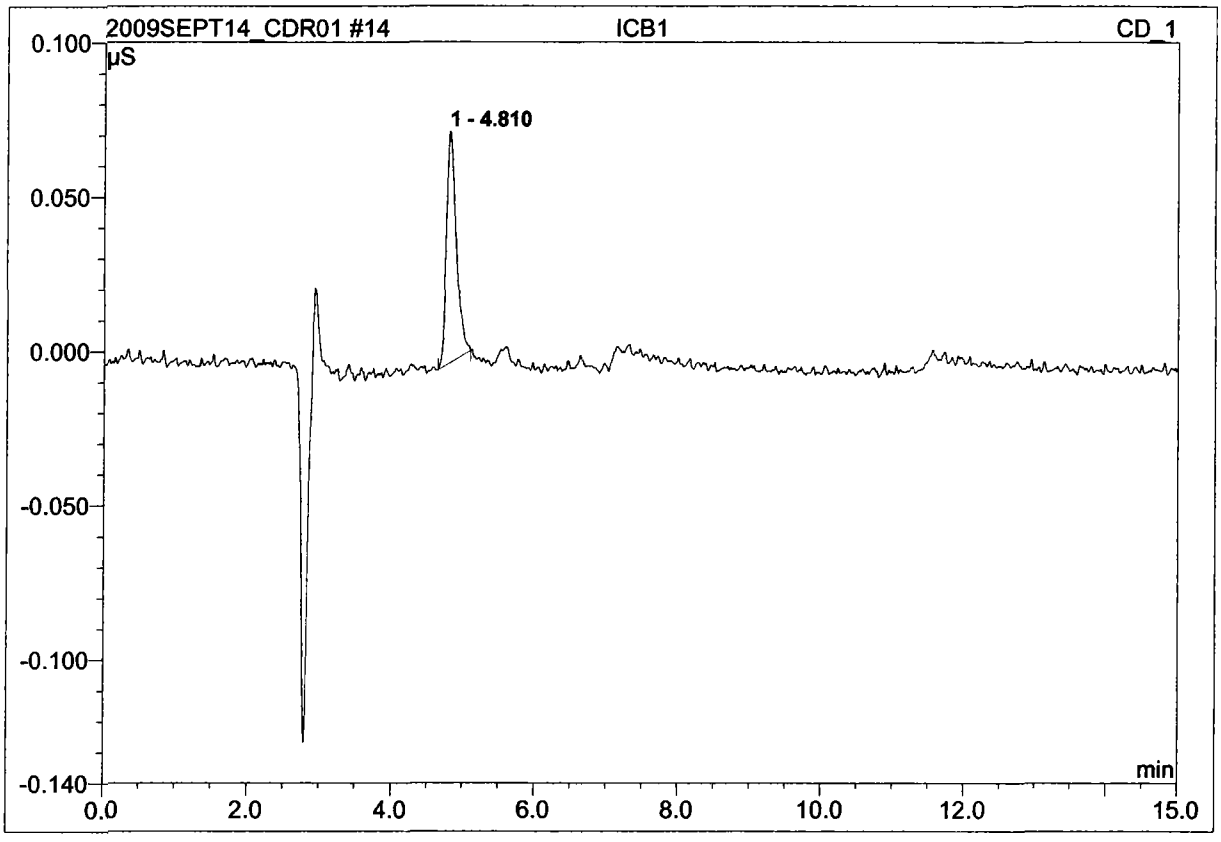
Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 16:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.459	1.016	5.11	2.274	BMB
2	4.26	Chloride	26.263	3.164	15.91	11.720	BMB
3	4.80	n.a.	0.078	0.012	0.06	n.a.	BMB
4	5.49	Sulfate	70.428	12.042	60.55	60.645	BMB
5	7.04	Bromide	2.782	0.462	2.32	4.390	BMB
6	8.24	Nitrate	8.416	1.771	8.90	12.089	BMB
7	9.94	Phosphate	4.378	1.422	7.15	17.392	BMB
Total:			121.805	19.889	100.00	108.509	

14 ICB1

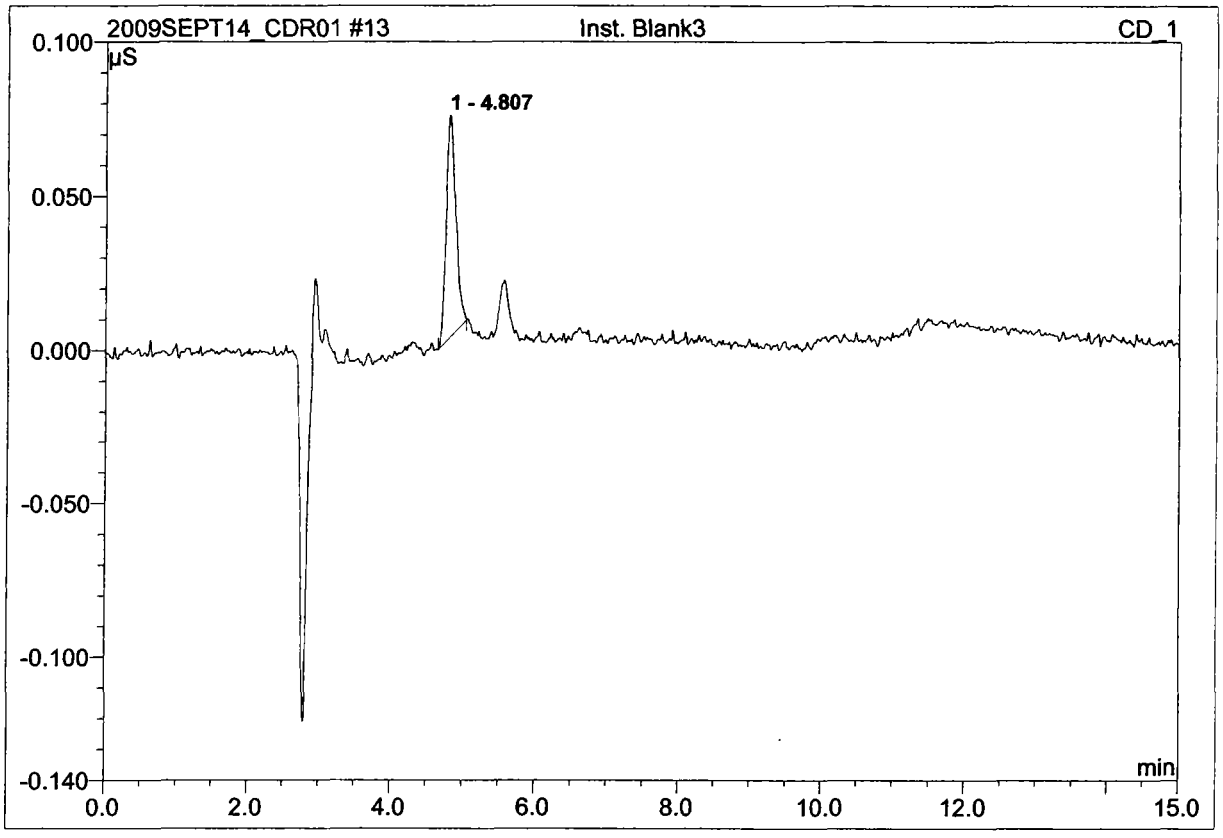
Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 15:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.81	n.a.	0.075	0.012	100.00	n.a.	BMB
Total:			0.075	0.012	100.00	0.000	

13 Inst. Blank3

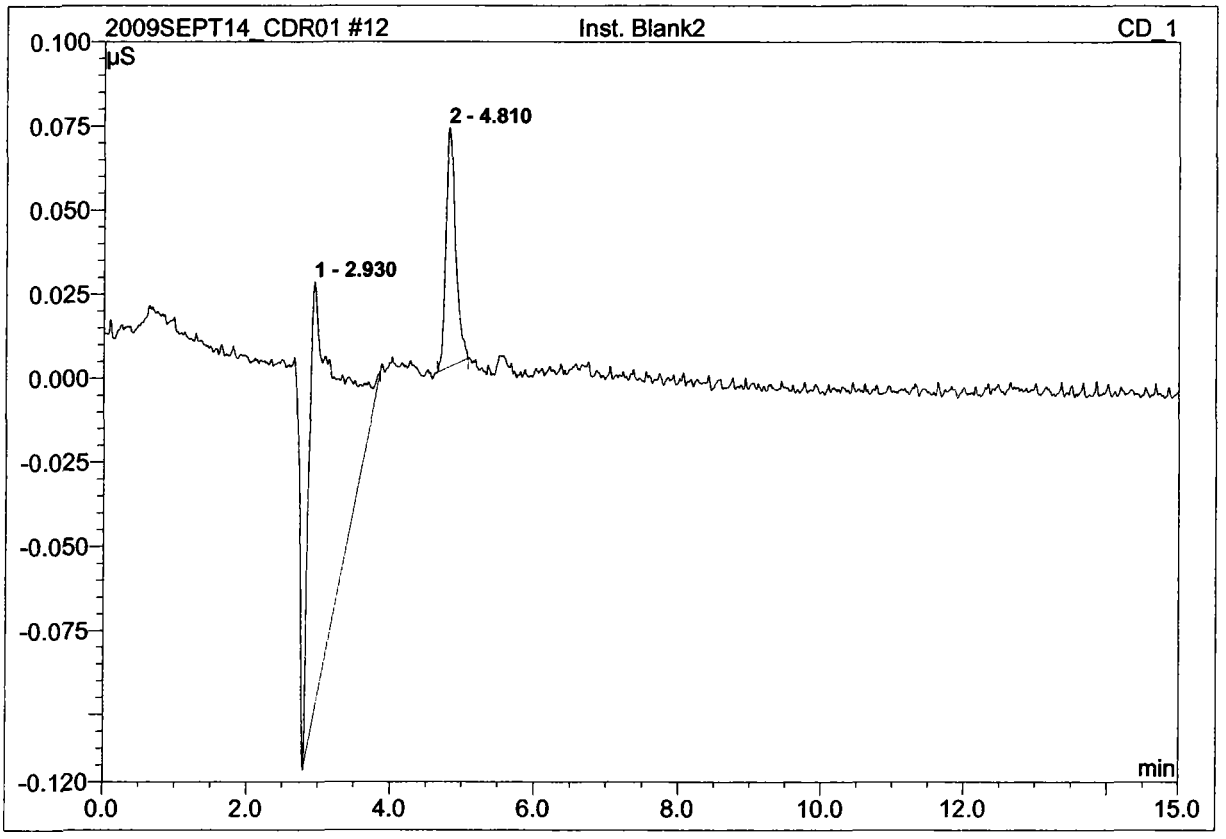
Sample Name:	**Inst. Blank3**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 15:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.81	n.a.	0.073	0.011	100.00	n.a.	BMB
Total:			0.073	0.011	100.00	0.000	

12 Inst. Blank2

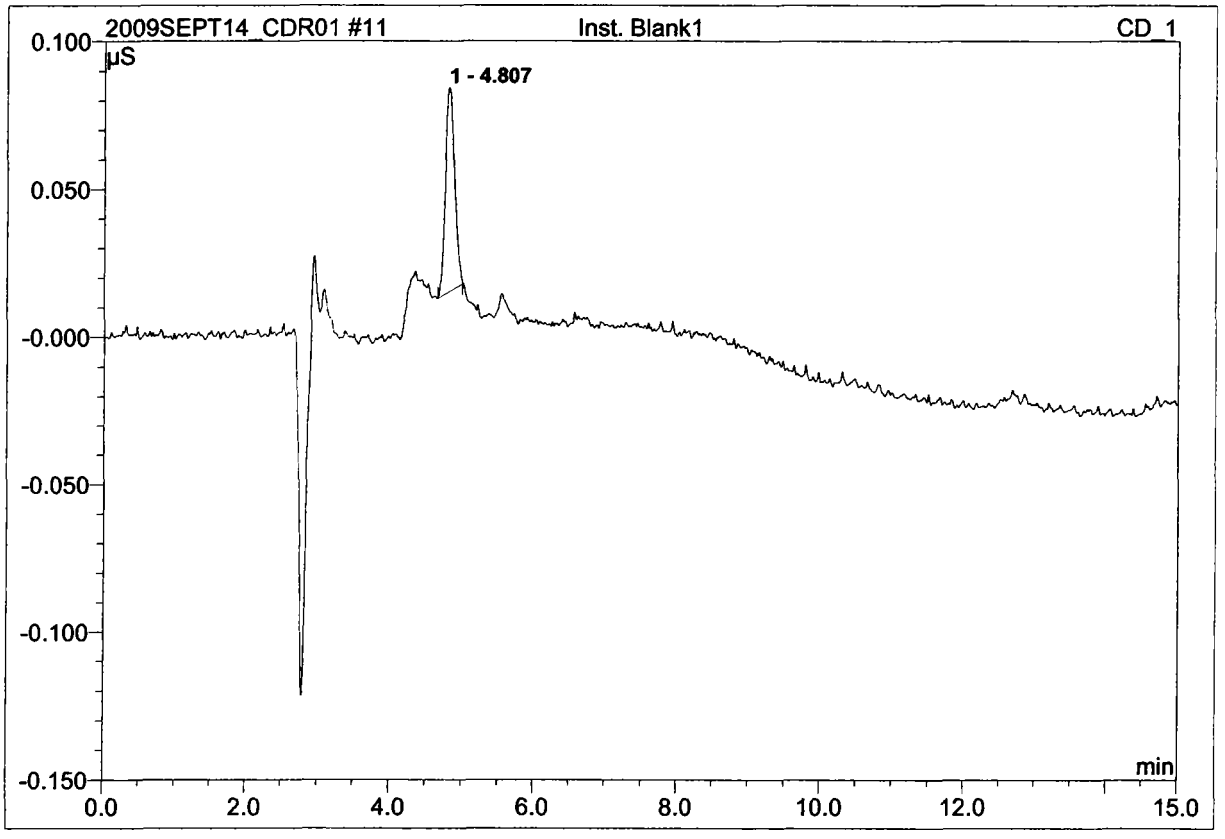
Sample Name:	**Inst. Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 15:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.93	n.a.	0.129	0.058	83.60	n.a.	BMB
2	4.81	n.a.	0.071	0.011	16.40	n.a.	BMB
Total:			0.200	0.069	100.00	0.000	

11 Inst. Blank1

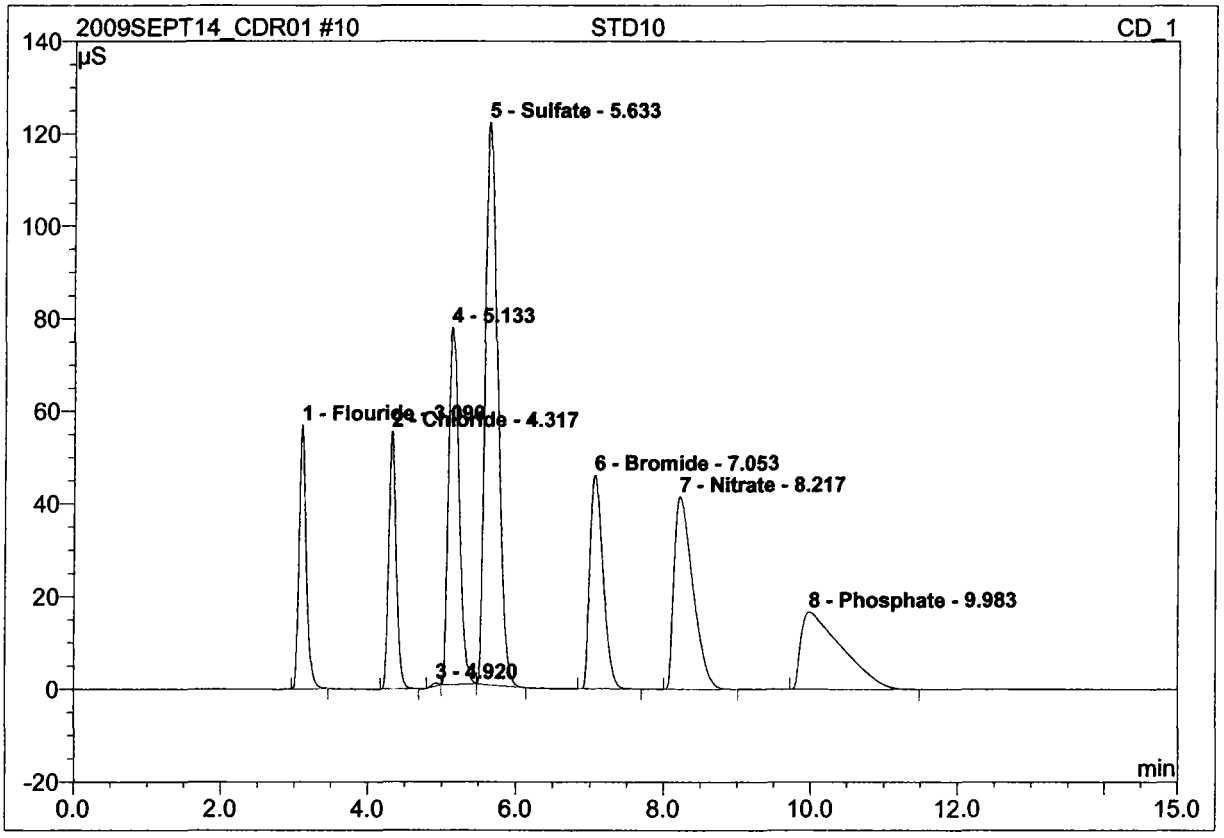
Sample Name:	**Inst. Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/14/2009 15:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.81	n.a.	0.069	0.010	100.00	n.a.	BMB
Total:			0.069	0.010	100.00	0.000	

10 STD10

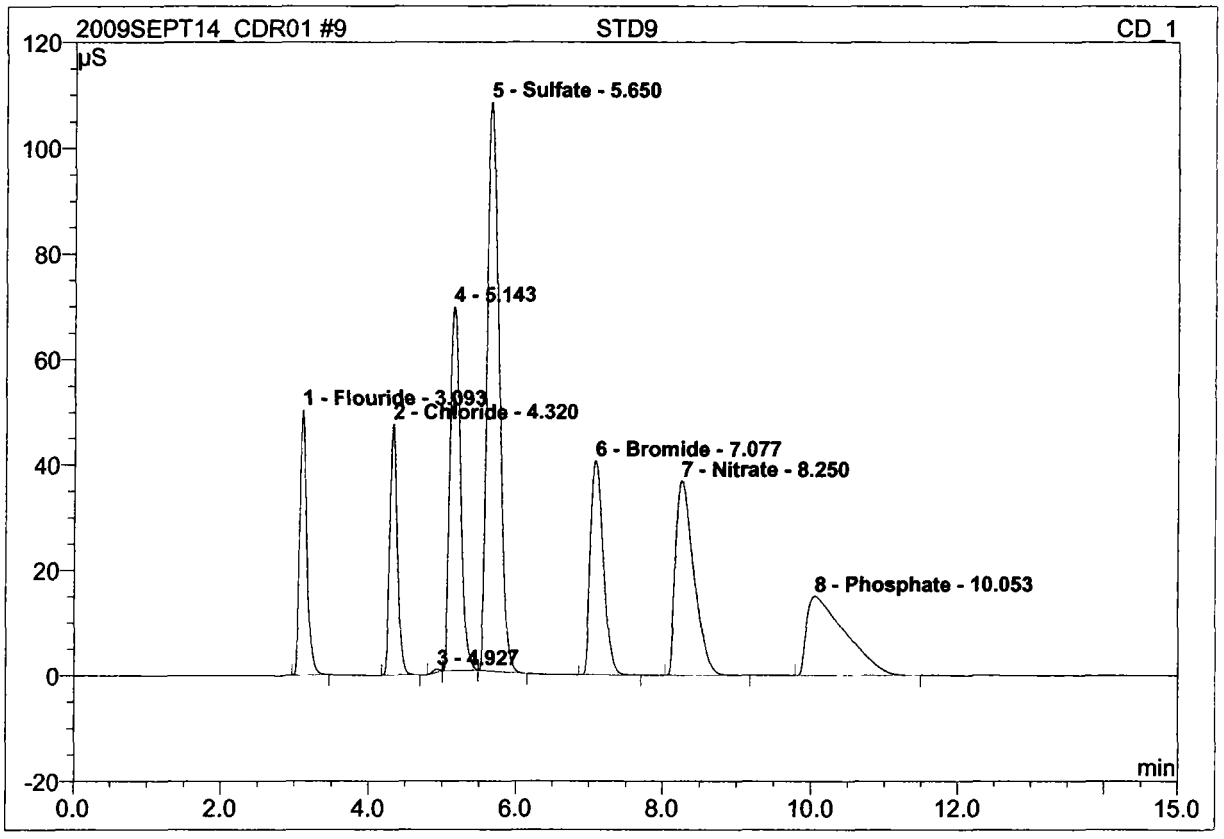
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	56.969	6.559	7.95	16.110	BMB
2	4.32	Chloride	55.581	6.566	7.95	24.195	BMB
3	4.92	n.a.	0.606	0.069	0.08	n.a.	BMb
4	5.13	n.a.	77.066	12.846	15.56	n.a.	bMB
5	5.63	Sulfate	121.538	23.941	29.00	120.441	BMB
6	7.05	Bromide	46.106	9.631	11.67	52.054	BMB
7	8.22	Nitrate	41.498	12.320	14.93	80.252	BMB
8	9.98	Phosphate	16.621	10.615	12.86	114.809	BMB
Total:			415.986	82.546	100.00	407.861	

9 STD9

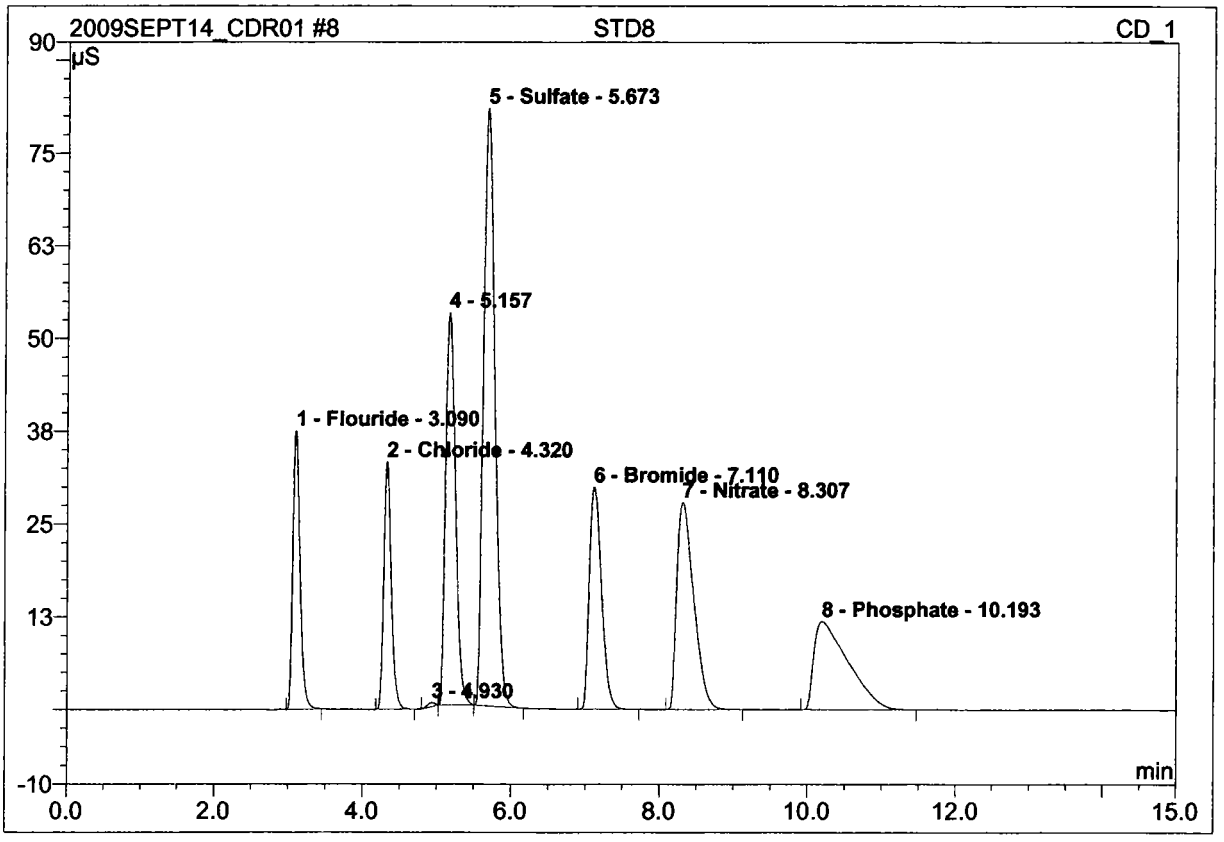
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	50.452	5.732	8.05	13.823	BMB
2	4.32	Chloride	47.792	5.636	7.91	20.783	BMB
3	4.93	n.a.	0.589	0.068	0.10	n.a.	BMb
4	5.14	n.a.	69.145	11.267	15.82	n.a.	bMb
5	5.65	Sulfate	107.896	20.610	28.93	103.704	bMB
6	7.08	Bromide	40.639	8.261	11.60	46.818	BMB
7	8.25	Nitrate	36.876	10.550	14.81	69.159	BMB
8	10.05	Phosphate	15.071	9.107	12.78	100.125	BMB
Total:			368.461	71.232	100.00	354.413	

8 STD8

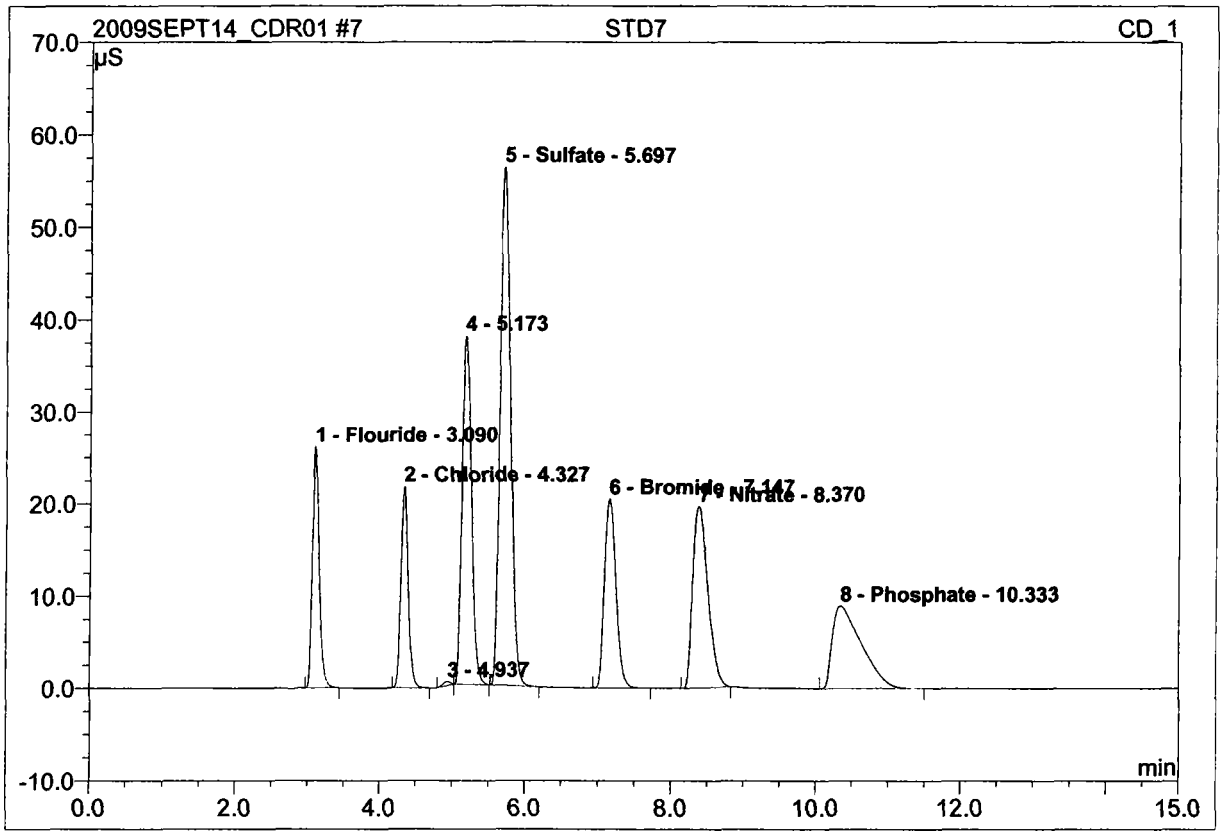
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	37.554	4.142	8.24	9.673	BMB
2	4.32	Chloride	33.384	3.921	7.80	14.496	BMB
3	4.93	n.a.	0.530	0.064	0.13	n.a.	BMB
4	5.16	n.a.	52.932	8.218	16.36	n.a.	bMB
5	5.67	Sulfate	80.582	14.462	28.78	72.806	BMB
6	7.11	Bromide	29.910	5.751	11.45	36.168	BMB
7	8.31	Nitrate	27.925	7.370	14.67	48.897	BMB
8	10.19	Phosphate	11.912	6.320	12.58	71.795	BMB
Total:			274.730	50.248	100.00	253.834	

7 STD7

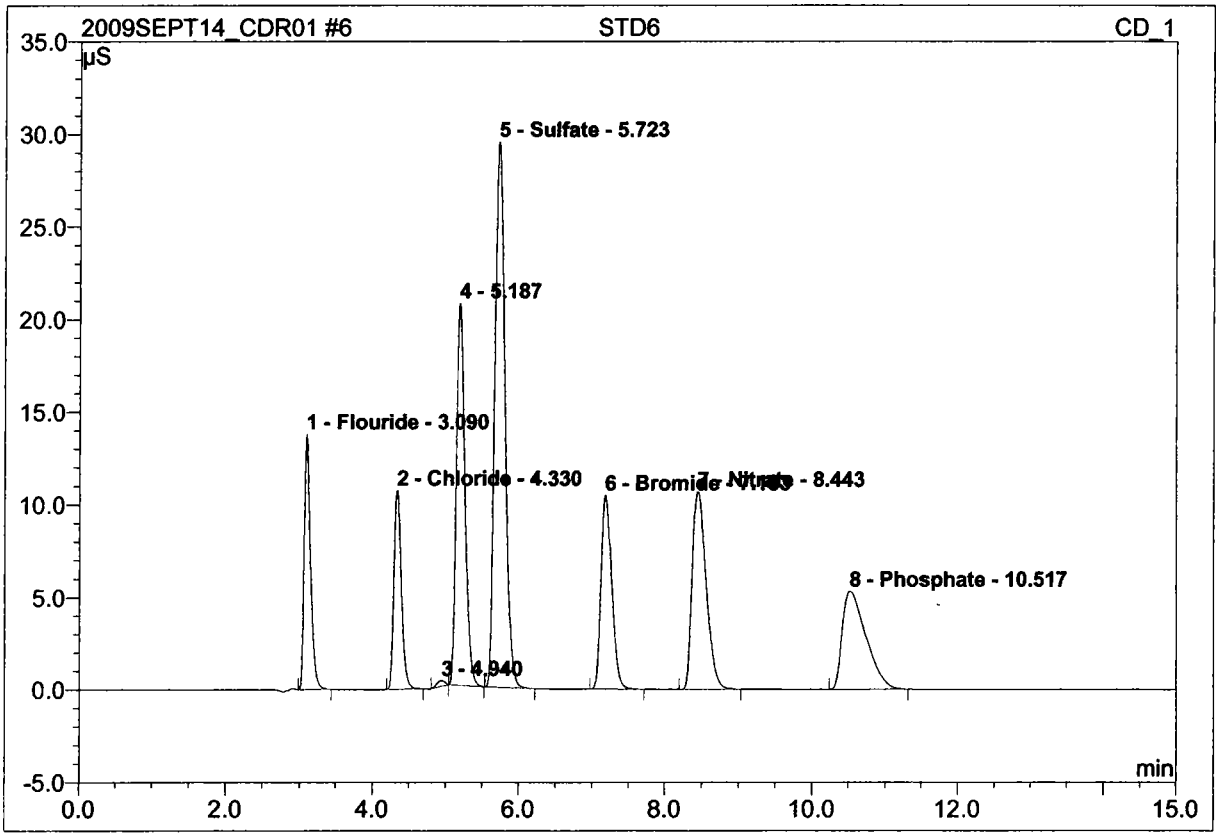
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	26.188	2.809	8.45	6.410	BMB
2	4.33	Chloride	21.884	2.560	7.70	9.503	BMB
3	4.94	n.a.	0.442	0.054	0.16	n.a.	BMb
4	5.17	n.a.	37.903	5.624	16.92	n.a.	bMB
5	5.70	Sulfate	56.252	9.544	28.71	48.091	BMB
6	7.15	Bromide	20.518	3.758	11.31	26.313	BMB
7	8.37	Nitrate	19.724	4.761	14.32	31.929	BMB
8	10.33	Phosphate	8.962	4.131	12.43	48.290	BMB
Total:			191.872	33.240	100.00	170.537	

6 STD6

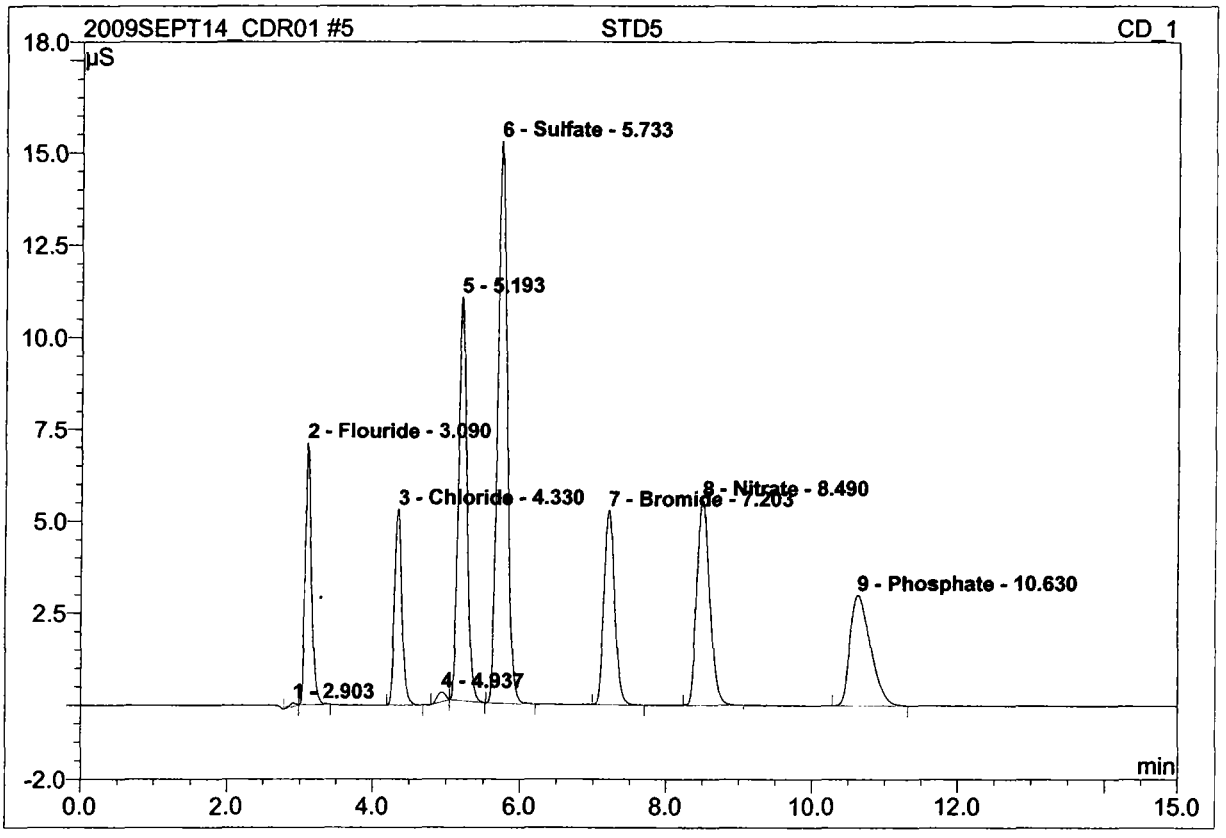
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	13.795	1.424	8.62	3.191	BMB
2	4.33	Chloride	10.749	1.246	7.55	4.686	BMB
3	4.94	n.a.	0.325	0.041	0.25	n.a.	BMB
4	5.19	n.a.	20.661	2.903	17.58	n.a.	BMB
5	5.72	Sulfate	29.488	4.732	28.65	23.910	BMB
6	7.18	Bromide	10.490	1.828	11.07	14.776	BMB
7	8.44	Nitrate	10.683	2.348	14.22	15.957	BMB
8	10.52	Phosphate	5.326	1.992	12.06	24.077	BMB
Total:			101.517	16.513	100.00	86.597	

5 STD5

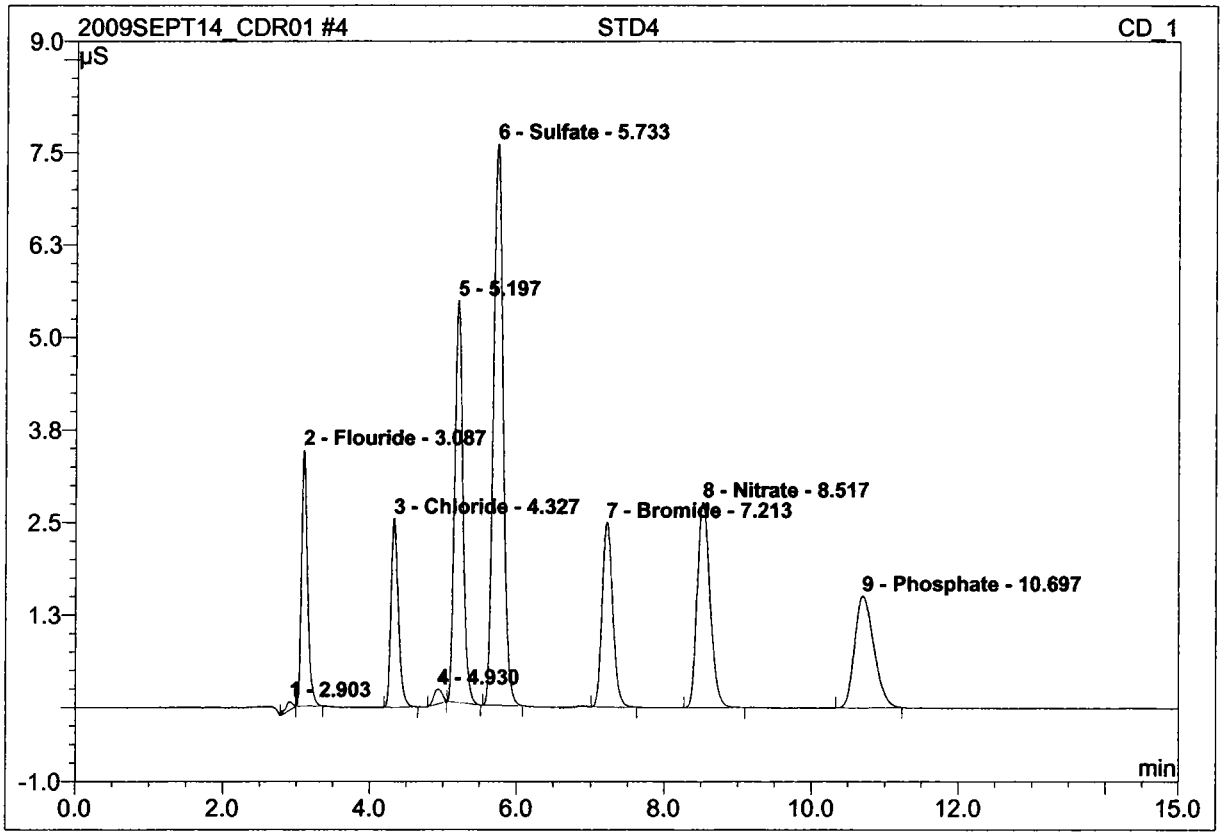
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.098	0.010	0.12	n.a.	BMB
2	3.09	Flouride	7.120	0.716	8.66	1.606	BMB
3	4.33	Chloride	5.325	0.614	7.43	2.367	BMB
4	4.94	n.a.	0.265	0.034	0.41	n.a.	BMB
5	5.19	n.a.	10.966	1.485	17.97	n.a.	BMB
6	5.73	Sulfate	15.266	2.376	28.75	12.073	BMB
7	7.20	Bromide	5.279	0.897	10.85	7.998	BMB
8	8.49	Nitrate	5.569	1.157	13.99	7.959	BMB
9	10.63	Phosphate	3.001	0.978	11.82	12.105	BMB
Total:			52.889	8.267	100.00	44.108	

4 STD4

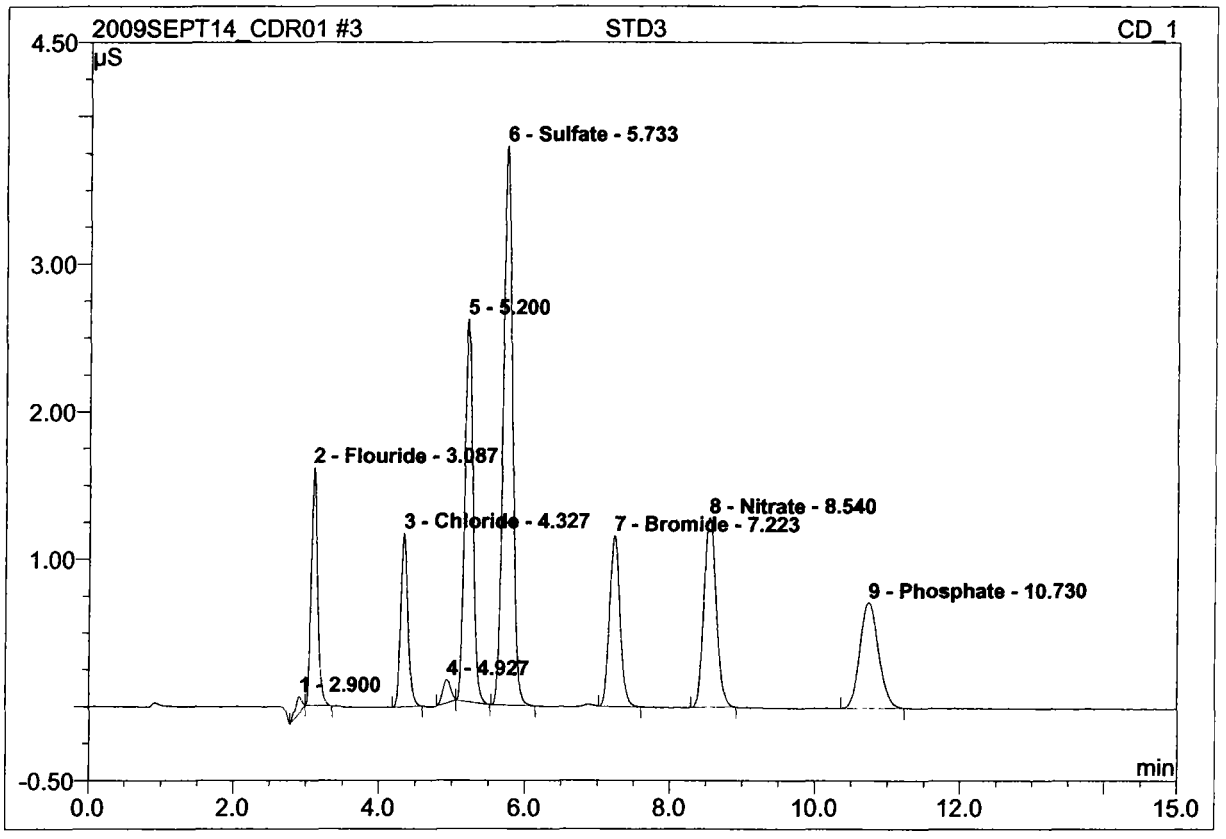
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.30	n.a.	BMB
2	3.09	Flouride	3.463	0.343	8.59	0.786	bMB
3	4.33	Chloride	2.554	0.295	7.38	1.196	BMB
4	4.93	n.a.	0.203	0.026	0.66	n.a.	BMB
5	5.20	n.a.	5.432	0.718	17.99	n.a.	BMB
6	5.73	Sulfate	7.589	1.158	29.03	5.952	BMB
7	7.21	Bromide	2.496	0.420	10.52	4.016	BMB
8	8.52	Nitrate	2.776	0.561	14.06	3.934	BMB
9	10.70	Phosphate	1.511	0.457	11.46	5.828	BMB
Total:			26.138	3.990	100.00	21.713	

3 STD3

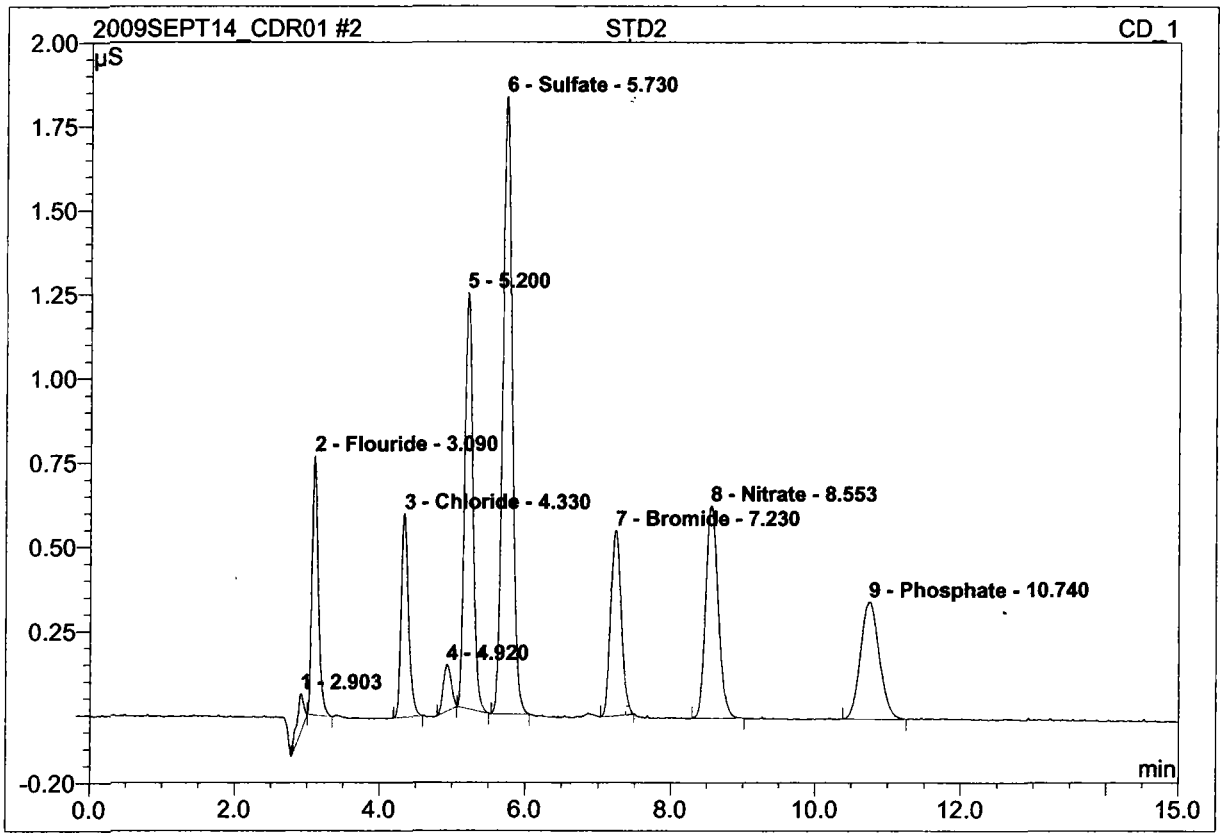
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.63	n.a.	BMB
2	3.09	Flouride	1.612	0.159	8.32	0.384	bMB
3	4.33	Chloride	1.180	0.136	7.15	0.616	BMB
4	4.93	n.a.	0.157	0.020	1.06	n.a.	BMB
5	5.20	n.a.	2.596	0.339	17.79	n.a.	BMB
6	5.73	Sulfate	3.792	0.574	30.11	3.016	BMB
7	7.22	Bromide	1.159	0.195	10.25	1.975	BMB
8	8.54	Nitrate	1.288	0.257	13.49	1.874	BMB
9	10.73	Phosphate	0.718	0.214	11.20	2.851	BMB
Total:			12.617	1.907	100.00	10.716	

2 STD2

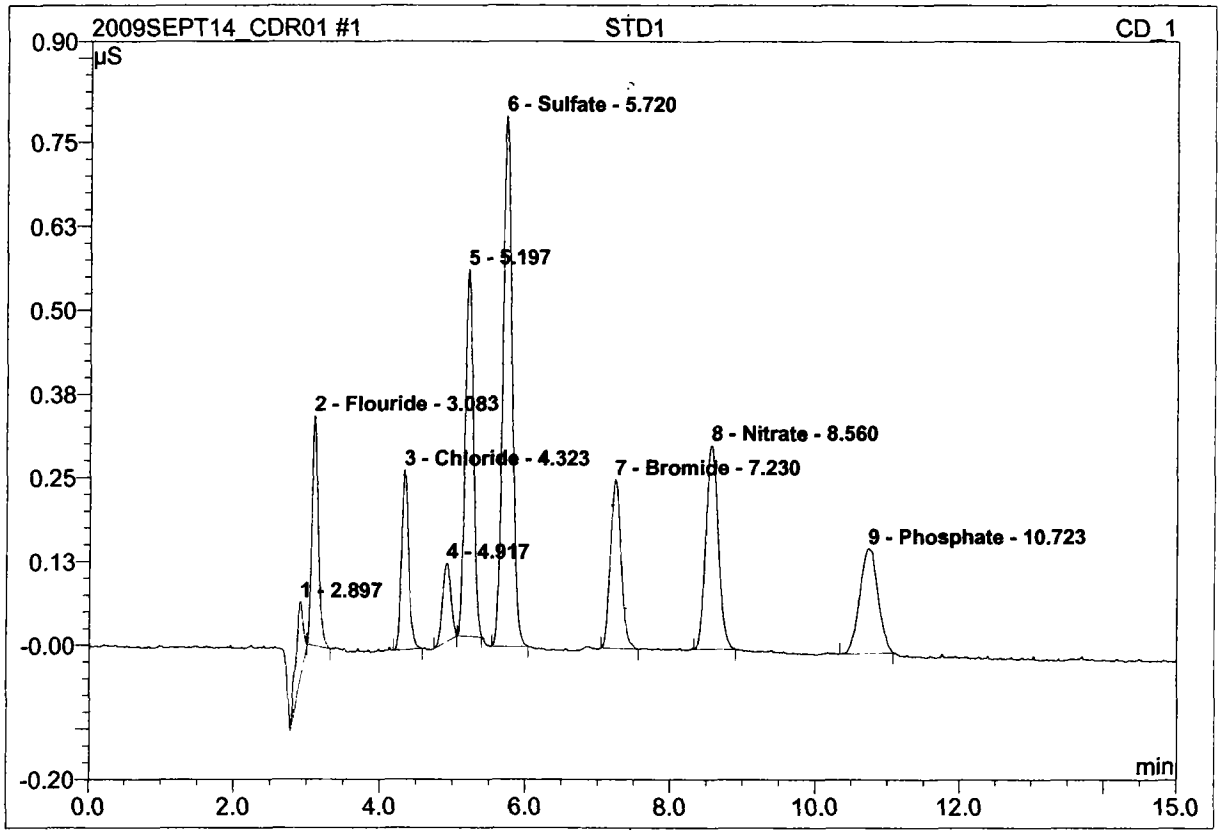
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.116	0.012	1.33	n.a.	BMB
2	3.09	Flouride	0.769	0.076	8.07	0.204	bMB
3	4.33	Chloride	0.605	0.071	7.51	0.374	BMB
4	4.92	n.a.	0.139	0.018	1.90	n.a.	BMB
5	5.20	n.a.	1.236	0.161	17.18	n.a.	BMB
6	5.73	Sulfate	1.835	0.277	29.49	1.521	BMB
7	7.23	Bromide	0.550	0.092	9.85	0.995	BMB
8	8.55	Nitrate	0.631	0.128	13.59	0.994	BMB
9	10.74	Phosphate	0.348	0.104	11.08	1.506	BMB
Total:			6.230	0.938	100.00	5.595	

1 STD1

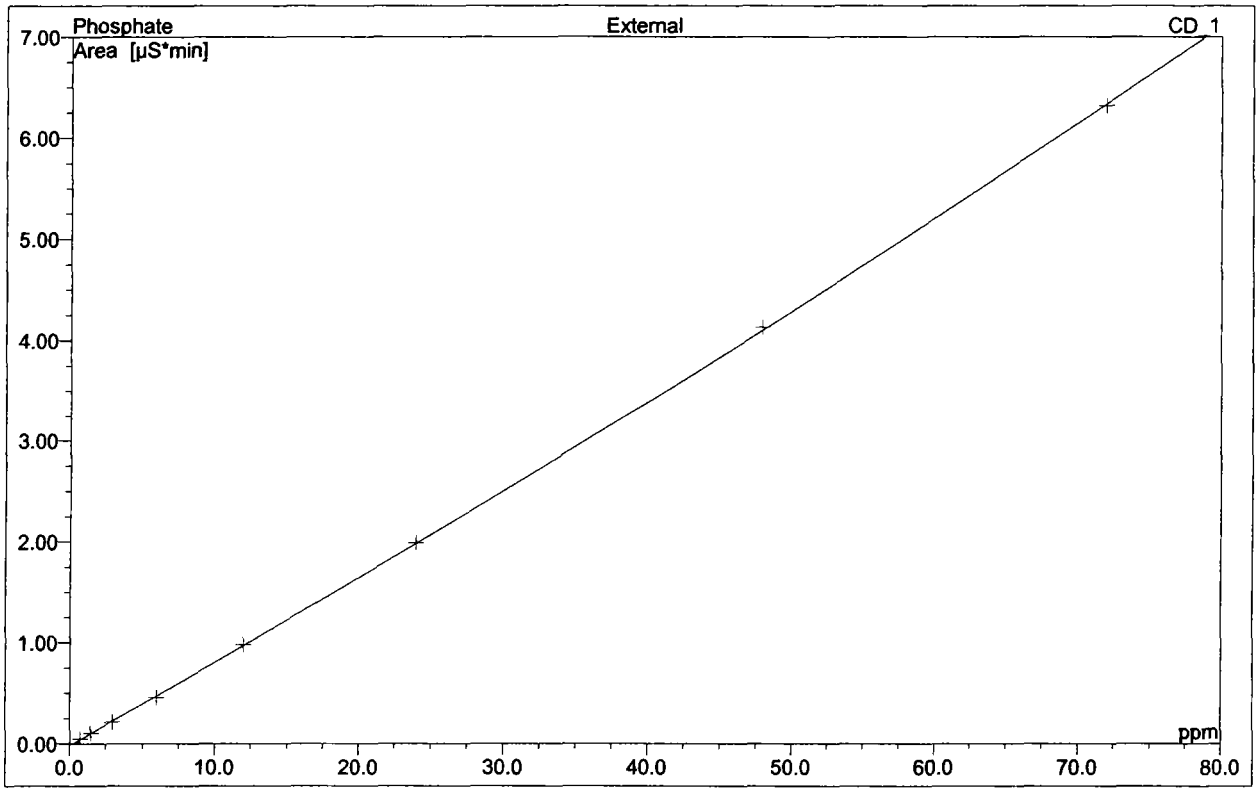
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.123	0.013	3.06	n.a.	BMB
2	3.08	Flouride	0.344	0.034	7.77	0.113	bMB
3	4.32	Chloride	0.269	0.032	7.30	0.233	BMB
4	4.92	n.a.	0.118	0.016	3.59	n.a.	BMB
5	5.20	n.a.	0.549	0.071	16.18	n.a.	BMB
6	5.72	Sulfate	0.792	0.121	27.63	0.736	BMB
7	7.23	Bromide	0.252	0.043	9.90	0.516	BMB
8	8.56	Nitrate	0.304	0.061	14.02	0.543	BMB
9	10.72	Phosphate	0.157	0.046	10.56	0.794	BMB
Total:			2.908	0.436	100.00	2.935	

6 STD6

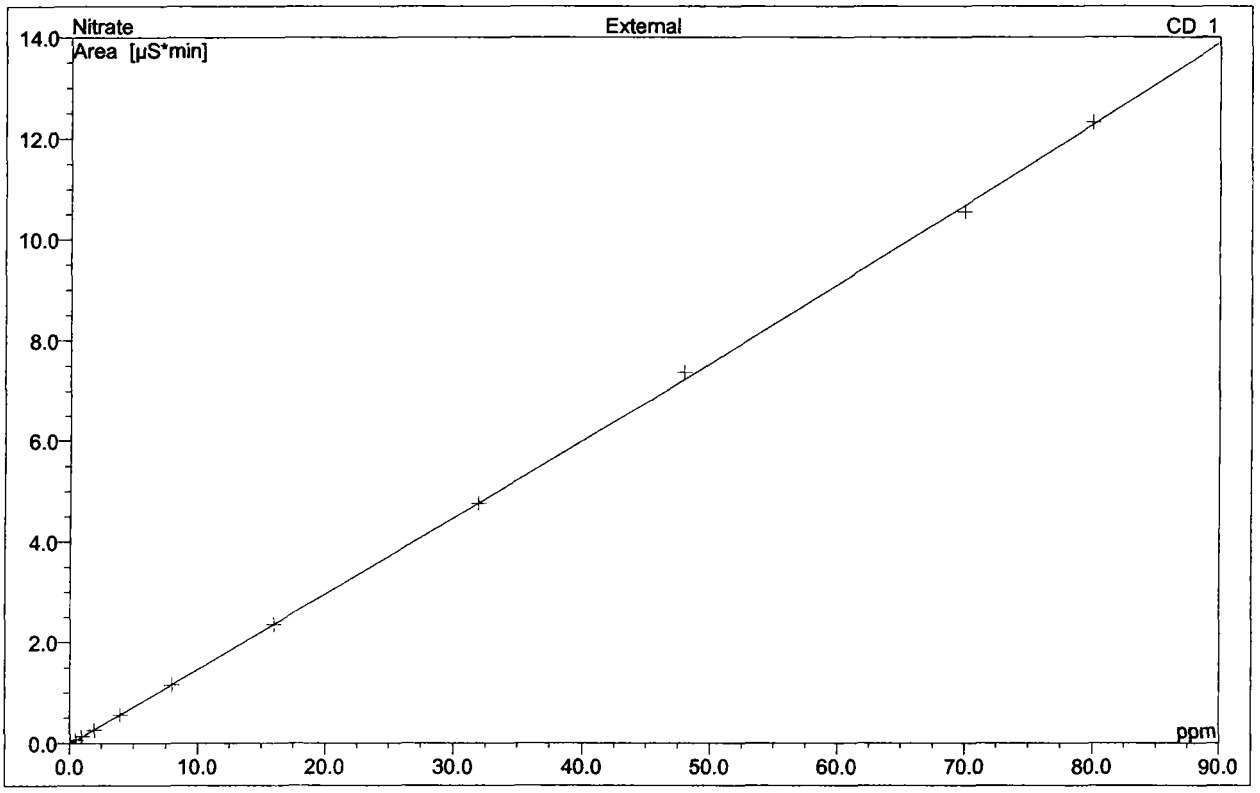
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

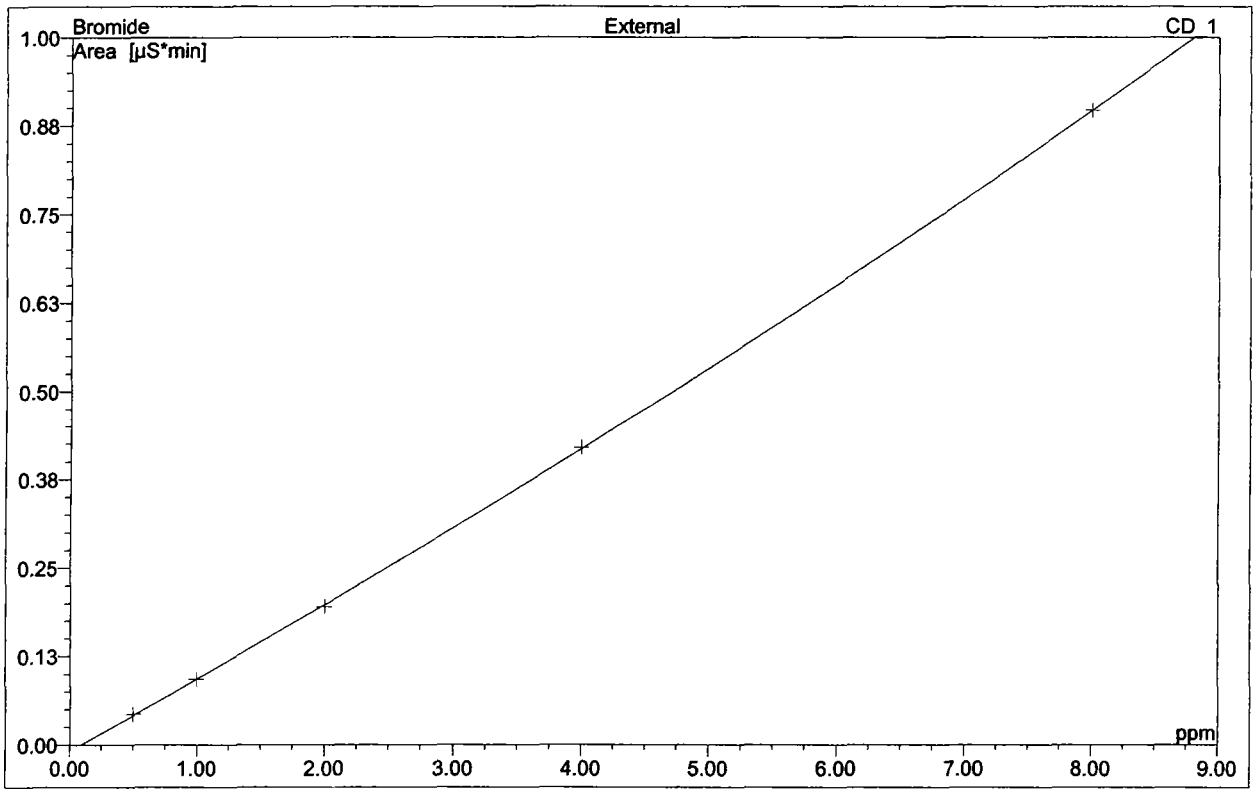
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

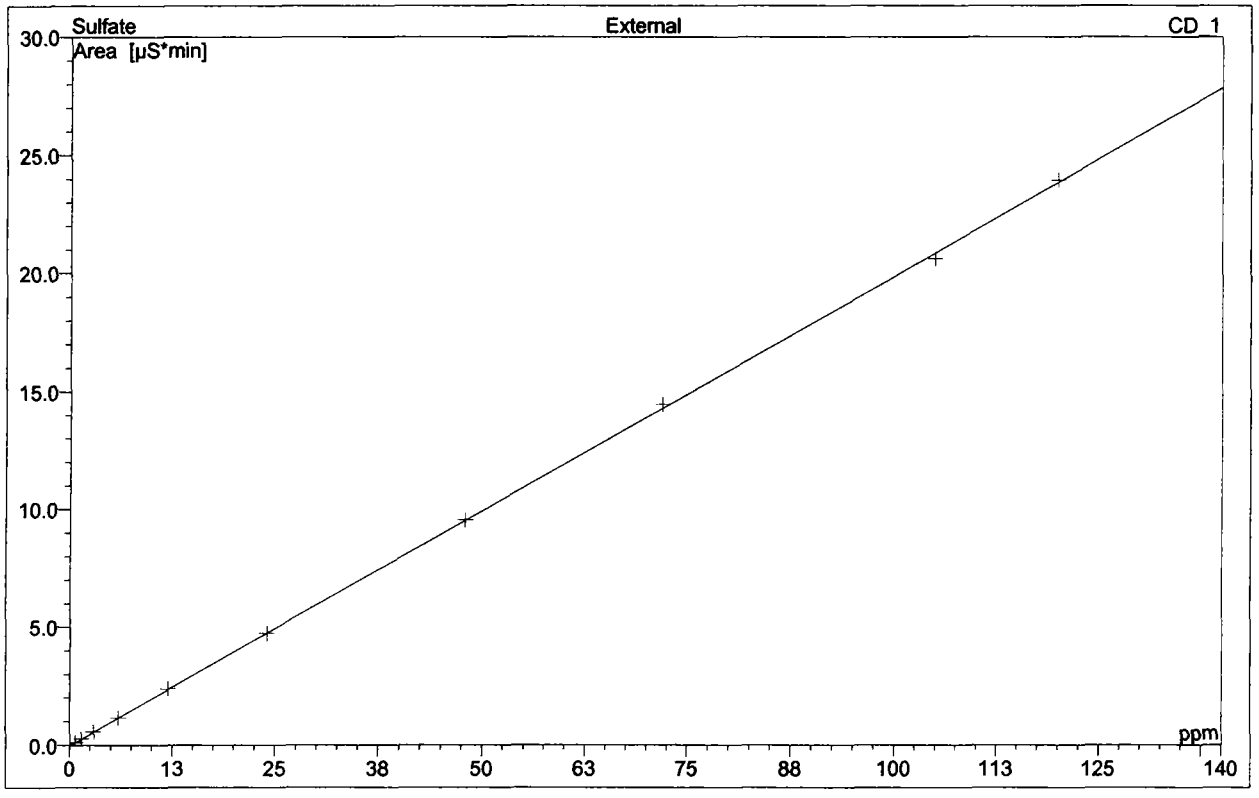
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

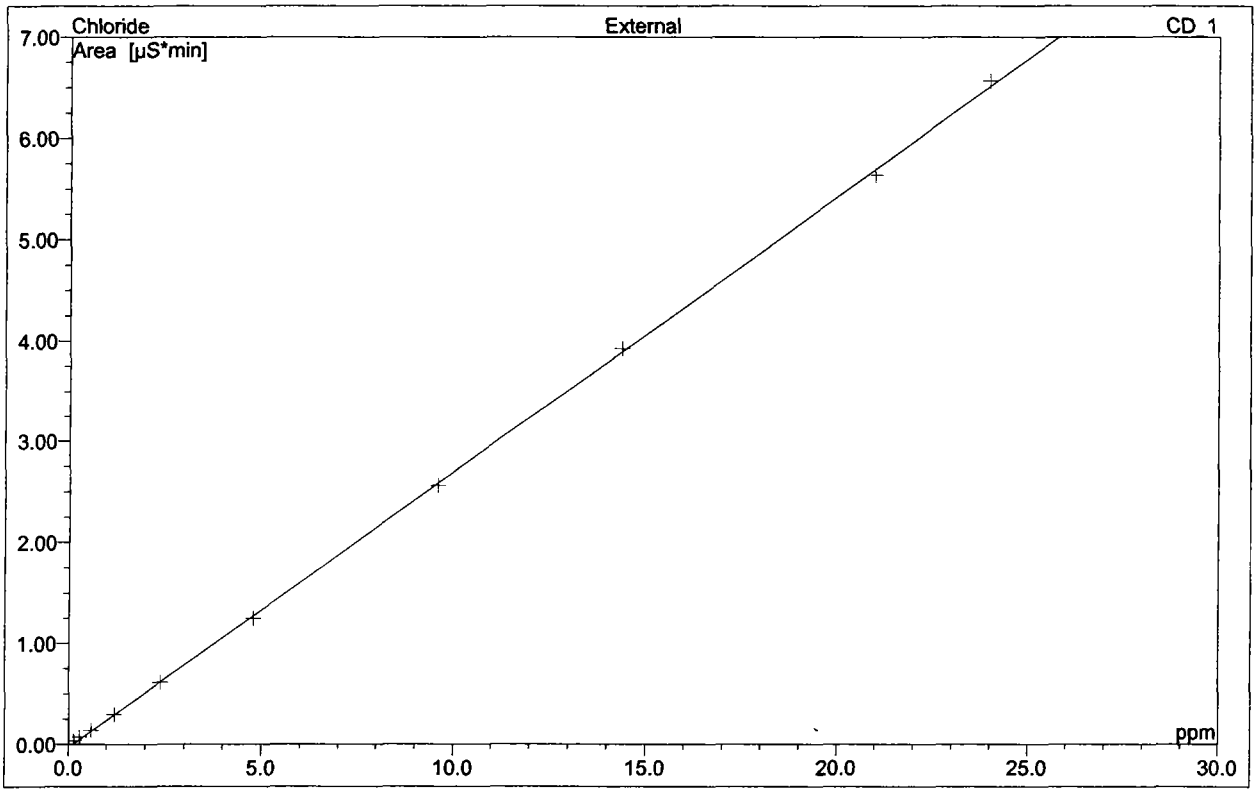
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

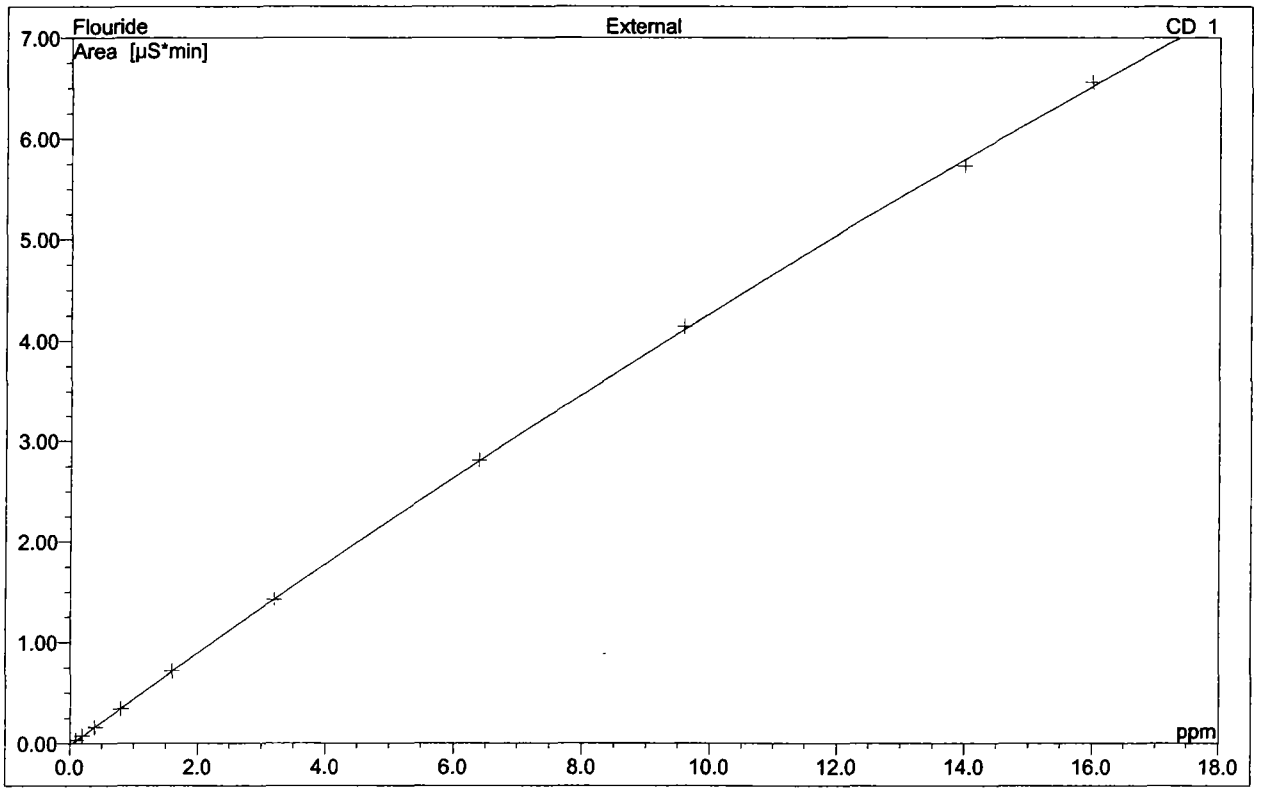
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	*STD1*	*Ok*	
2	☒	STD2	Ok	
3	☒	STD3	Ok	
4	☒	STD4	Ok	
5	☒	STD5	Ok	
6	☒	STD6	Ok	
7	☒	STD7	Ok	
8	☒	STD8	Ok	
9	☒	STD9	Ok	
10	☒	STD1	Ok	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*4*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*6/15/2009 1.06:24 P*	
2	☒	STD2	2	5	25.0	1.0000	1.0000	1.0000	6/15/2009 1:24:29 P	
3	☒	STD3	3	6	25.0	1.0000	1.0000	1.0000	6/15/2009 1:42:32 P	
4	☒	STD4	4	7	25.0	1.0000	1.0000	1.0000	6/15/2009 2:00:37 P	
5	☒	STD5	5	8	25.0	1.0000	1.0000	1.0000	6/15/2009 2:18:41 P	
6	☒	STD6	6	9	25.0	1.0000	1.0000	1.0000	6/15/2009 2:36:45 P	
7	☒	STD7	7	10	25.0	1.0000	1.0000	1.0000	6/15/2009 2:54:49 P	
8	☒	STD8	8	11	25.0	1.0000	1.0000	1.0000	6/15/2009 3:12:54 P	
9	☒	STD9	9	12	25.0	1.0000	1.0000	1.0000	6/15/2009 3:30:59 P	
10	☒	STD1	10	13	25.0	1.0000	1.0000	1.0000	6/15/2009 3:49:03 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.100 min			
5	Nitrate	8.400 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.100 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.400 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.100 min	4.000000	8.000000					
5	Nitrate	8.400 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.100 AG	External	Area	LOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.100 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.400 min	0.300 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	1.000	Inhibit Integration	Off	All Channels

Program File:	Anions_AS18	Printed: 9/15/2009 8:24:07 AM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:38:58 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
Col pm_TC.Release:eExclusiveAccess
End
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT14_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
Sampler.AcquireExclusiveAccess
Sampler_IntervalValve.Position =
Column_IC.AcquireExclusiveAccess
Compartment_TC.AcquireExclusiveAccess
Flush                                   Volume =
Pressure.LowerLimit =                   [psi]
Pressure.UpperLimit =                   [psi]
MaximumFlowRamp =                       [mL/min/min]
MA.Type =                               "µA"
Data_Acquisition_Rate =                 [Hz]
Temperature_Compensation =              [°C]
Cell_Heater.Temperature =               [°C]
Suppressor1.Type =                      "AMMS 4.0"
Direction =                             "mA"
Percent_Action =                        [%]
Pump_1.Curve =
Flow                                    [mL/min]
Pump_1.Curve =
Needle_Height =                         [mm]
Injection_Volume =                      [µL]
Syringe_Speed =                         [µL/min]
Syringe_Volume =                        [µL]
WaitForTemperature =                    False
SplitStream.Mode =                      [%]
;Suppressor1.Background =               1.0
;Suppressor1.Background =               1.0
;Suppressor1.Hydroxide =                [%]
;Suppressor1.Tetraborate =              [%]
;Suppressor1.Other =                    [%]
;Suppressor1.Recommended_Current =      [mA]
Path =                                  Sampler\Pump
Cell.Autozero
Load
Start                                   Run-Times =
Type
Start                                   Injection
Pump_1.Start
Sampler.ReleaseExclusiveAccess
CD_1.Acquire
Compartment_TC.ReleaseExclusiveAccess
```

Sequence: 2009SEPT14_CDR01
Operator: Aaleszc2
Printed: 9/15/2009 8:24:06 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 49

Created: 9/11/2009 1:37:18 PM by Aaleszc2
Last Update: 9/14/2009 2:50:34 PM by Aaleszc2

No.	Name	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000		01	
2	STD2	1.0000		01	
3	STD3	1.0000		01	
4	STD4	1.0000		01	
5	STD5	1.0000		01	
6	STD6	1.0000		01	
7	STD7	1.0000		01	
8	STD8	1.0000		01	
9	STD9	1.0000		01	
10	STD10	1.0000		01	
11	Inst. Blank1	1.0000		01	
12	Inst. Blank2	1.0000		01	
13	Inst. Blank3	1.0000		01	
14	ICB1	1.0000		01	
15	ICV1	1.0000		01	
16	BLK1 (NO SAND)	1.0000		01	
17	BS1 (NO SAND)	1.0000		01	
18	BLK1	1.0000		01	
19	BS1	1.0000		01	
20	0909007-05	1.0000		01	MDL-1
21	0909007-06	1.0000		01	MDL-2
22	0909007-07	1.0000		01	MDL-3
23	0909007-08	1.0000		01	MDL-4
24	0909007-09	1.0000		01	MDL-5
25	0909007-10	1.0000		01	MDL-6
26	0909007-11	1.0000		01	MDL-7
27	0909007-01	1.0000		01	P&A-1
28	0909007-02	1.0000		01	P&A-2
29	0909007-03	1.0000		01	P&A-3
30	0909007-04	1.0000		01	P&A-4
31	0909005-07	1.0000		01	
32	0909005-07 DUP1	1.0000		01	
33	0909005-07 MS1	1.0000		01	
34	0908021-01	1.0000		01	
35	0909005-01	1.0000		01	
36	0909005-02	1.0000		01	
37	0909005-06	1.0000		01	
38	0909006-02	1.0000		01	
39	0909006-03	1.0000		01	
40	0909006-04	1.0000		01	
41	CCB1	1.0000		01	
42	CCV1	1.0000		01	
43	0909005-05	1.0000		01	
44	0909005-04	1.0000		01	
45	0909005-03	1.0000		01	
46	0909006-01	1.0000		01	
47	CCB2	1.0000		01	
48	CCV2	1.0000		01	
49	Inst. Blank4	1.0000		01	

Sequence: 2009SEPT14_CDR01
Operator: Aaleszc2
Printed: 9/15/2009 8:24:06 AM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 49

Created: 9/11/2009 1:37:18 PM by Aaleszc2
Last Update: 9/14/2009 2:50:34 PM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight	Dil. Factor
1	STD1	Standard	4	25.0	Anions_AS18	default	Finished	6/15/2009 1:06:24 PM	1.0000	1.0000
2	STD2	Standard	5	25.0	Anions_AS18	default	Finished	6/15/2009 1:24:29 PM	1.0000	1.0000
3	STD3	Standard	6	25.0	Anions_AS18	default	Finished	6/15/2009 1:42:32 PM	1.0000	1.0000
4	STD4	Standard	7	25.0	Anions_AS18	default	Finished	6/15/2009 2:00:37 PM	1.0000	1.0000
5	STD5	Standard	8	25.0	Anions_AS18	default	Finished	6/15/2009 2:18:41 PM	1.0000	1.0000
6	STD6	Standard	9	25.0	Anions_AS18	default	Finished	6/15/2009 2:36:45 PM	1.0000	1.0000
7	STD7	Standard	10	25.0	Anions_AS18	default	Finished	6/15/2009 2:54:49 PM	1.0000	1.0000
8	STD8	Standard	11	25.0	Anions_AS18	default	Finished	6/15/2009 3:12:54 PM	1.0000	1.0000
9	STD9	Standard	12	25.0	Anions_AS18	default	Finished	6/15/2009 3:30:59 PM	1.0000	1.0000
10	STD10	Standard	13	25.0	Anions_AS18	default	Finished	6/15/2009 3:49:03 PM	1.0000	1.0000
11	Inst. Blank1	Unknown	1	25.0	Anions_AS18	default	Finished	9/14/2009 3:03:44 PM	1.0000	1.0000
12	Inst. Blank2	Unknown	2	25.0	Anions_AS18	default	Finished	9/14/2009 3:22:13 PM	1.0000	1.0000
13	Inst. Blank3	Unknown	3	25.0	Anions_AS18	default	Finished	9/14/2009 3:40:41 PM	1.0000	1.0000
14	ICB1	Unknown	4	25.0	Anions_AS18	default	Finished	9/14/2009 3:59:10 PM	1.0000	1.0000
15	ICV1	Unknown	5	25.0	Anions_AS18	default	Finished	9/14/2009 4:17:38 PM	1.0000	1.0000
16	BLK1 (NO SAND)	Unknown	6	25.0	Anions_AS18	default	Finished	9/14/2009 4:36:06 PM	1.0000	1.0000
17	BS1 (NO SAND)	Unknown	7	25.0	Anions_AS18	default	Finished	9/14/2009 4:54:35 PM	1.0000	1.0000
18	BLK1	Unknown	8	25.0	Anions_AS18	default	Finished	9/14/2009 5:13:03 PM	1.0000	1.0000
19	BS1	Unknown	9	25.0	Anions_AS18	default	Finished	9/14/2009 5:31:32 PM	1.0000	1.0000
20	0909007-05	Unknown	10	25.0	Anions_AS18	default	Finished	9/14/2009 5:50:00 PM	1.0000	1.0000
21	0909007-06	Unknown	11	25.0	Anions_AS18	default	Finished	9/14/2009 6:08:28 PM	1.0000	1.0000
22	0909007-07	Unknown	12	25.0	Anions_AS18	default	Finished	9/14/2009 6:26:56 PM	1.0000	1.0000
23	0909007-08	Unknown	13	25.0	Anions_AS18	default	Finished	9/14/2009 6:45:24 PM	1.0000	1.0000
24	0909007-09	Unknown	14	25.0	Anions_AS18	default	Finished	9/14/2009 7:03:53 PM	1.0000	1.0000
25	0909007-10	Unknown	15	25.0	Anions_AS18	default	Finished	9/14/2009 7:22:21 PM	1.0000	1.0000
26	0909007-11	Unknown	16	25.0	Anions_AS18	default	Finished	9/14/2009 7:40:49 PM	1.0000	1.0000
27	0909007-01	Unknown	17	25.0	Anions_AS18	default	Finished	9/14/2009 7:59:17 PM	1.0000	1.0000
28	0909007-02	Unknown	18	25.0	Anions_AS18	default	Finished	9/14/2009 8:17:46 PM	1.0000	1.0000
29	0909007-03	Unknown	19	25.0	Anions_AS18	default	Finished	9/14/2009 8:36:14 PM	1.0000	1.0000
30	0909007-04	Unknown	20	25.0	Anions_AS18	default	Finished	9/14/2009 8:54:42 PM	1.0000	1.0000
31	0909005-07	Unknown	21	25.0	Anions_AS18	default	Finished	9/14/2009 9:13:10 PM	1.0000	1.0000
32	0909005-07 DUP1	Unknown	22	25.0	Anions_AS18	default	Finished	9/14/2009 9:31:39 PM	1.0000	1.0000
33	0909005-07 MS1	Unknown	23	25.0	Anions_AS18	default	Finished	9/14/2009 9:50:07 PM	1.0000	1.0000
34	0908021-01	Unknown	24	25.0	Anions_AS18	default	Finished	9/14/2009 10:08:36 PM	1.0000	1.0000
35	0909005-01	Unknown	25	25.0	Anions_AS18	default	Finished	9/14/2009 10:27:04 PM	1.0000	1.0000
36	0909005-02	Unknown	26	25.0	Anions_AS18	default	Finished	9/14/2009 10:45:33 PM	1.0000	1.0000
37	0909005-06	Unknown	27	25.0	Anions_AS18	default	Finished	9/14/2009 11:04:02 PM	1.0000	1.0000
38	0909006-02	Unknown	28	25.0	Anions_AS18	default	Finished	9/14/2009 11:22:30 PM	1.0000	1.0000
39	0909006-03	Unknown	29	25.0	Anions_AS18	default	Finished	9/14/2009 11:40:59 PM	1.0000	1.0000
40	0909006-04	Unknown	30	25.0	Anions_AS18	default	Finished	9/14/2009 11:59:27 PM	1.0000	1.0000
41	CCB1	Unknown	31	25.0	Anions_AS18	default	Finished	9/15/2009 12:17:56 AM	1.0000	1.0000
42	CCV1	Unknown	32	25.0	Anions_AS18	default	Finished	9/15/2009 12:36:23 AM	1.0000	1.0000
43	0909005-05	Unknown	33	25.0	Anions_AS18	default	Finished	9/15/2009 12:54:52 AM	1.0000	1.0000
44	0909005-04	Unknown	34	25.0	Anions_AS18	default	Finished	9/15/2009 1:13:21 AM	1.0000	1.0000
45	0909005-03	Unknown	35	25.0	Anions_AS18	default	Finished	9/15/2009 1:31:49 AM	1.0000	1.0000
46	0909006-01	Unknown	36	25.0	Anions_AS18	default	Finished	9/15/2009 1:50:18 AM	1.0000	1.0000
47	CCB2	Unknown	37	25.0	Anions_AS18	default	Finished	9/15/2009 2:08:46 AM	1.0000	1.0000
48	CCV2	Unknown	38	25.0	Anions_AS18	default	Finished	9/15/2009 2:27:14 AM	1.0000	1.0000
49	Inst. Blank4	Unknown	39	25.0	Anions_AS18	default	Finished	9/15/2009 2:45:42 AM	1.0000	1.0000

CCV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	2.40	2.294	95.6
	Chloride	90-110	12.00	11.950	99.6
	Sulfate	90-110	60.00	61.524	102.5
	Bromide	90-110	4.50	4.461	99.1
	Nitrate	90-110	12.00	12.242	102.0
	O-Phosphate	90-110	18.00	17.552	97.5

CCB2	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

CCV2	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	2.40	2.236	93.2
	Chloride	90-110	12.00	11.623	96.9
	Sulfate	90-110	60.00	60.085	100.1
	Bromide	90-110	4.50	4.327	96.2
	Nitrate	90-110	12.00	11.956	99.6
	O-Phosphate	90-110	18.00	17.147	95.3

BLK1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	**ND**	**0.01**
	Chloride	~	0.02
	Sulfate	~	0.05
	Bromide	**ND**	**0.05**
	Nitrate	~	0.08
	O-Phosphate	**ND**	**0.07**

BS1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	**80-120**	**1.2**	**1.014**	**84.5**
	Chloride	80-120	~	~	~
	Sulfate	80-120	~	~	~
	Bromide	**80-120**	**2.25**	**1.978**	**87.9**
	Nitrate	80-120	~	~	~
	O-Phosphate	**80-120**	**9**	**7.518**	**83.5**

DUPLICATE 0909005-07	Anions	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	20	0.445	0.425	0.02	4.60
	Chloride	20	~	~	~	~
	Sulfate	20	117.779	112.747	5.032	4.37
	Bromide	20	0.507	0.51	0.003	0.59
	Nitrate	20	ND	ND	ND	ND
	O-Phosphate	20	ND	ND	ND	ND

SPIKE (MS) 0909005-07	Anions	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	80-120	0.887	0.445	1.20	36.8
	Chloride	80-120	~	~	~	~
	Sulfate*	80-120	150.206	117.779	30.00	108.1
	Bromide	80-120	2.103	0.507	2.25	70.9
	Nitrate	80-120	2.501	0	6.00	41.7
	O-Phosphate	80-120	0	0	9.00	0.0

***Sulfate MS result is from 2009SEPT15_CDR01 analysis run. The sample was diluted 2 fold. The instrument result is 75.103 mg/L.**

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	0.234	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

QC SUMMARY FORM **CRL.SOP AIG045A Rev #0.0**
FOR **Inorganic Analysis by**
WO NO.:0908021, 0909005, 0909006, 0909007 Ion Chromatography

BEGINNING 9/14/2009 Sequence: 2009SEPT14_CDR01

ICB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	ND	0.01
	Chloride	ND	0.02
	Sulfate	ND	0.05
	Bromide	ND	0.05
	Nitrate	ND	0.08
	O-Phosphate	ND	0.07

ICV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	2.40	2.274	94.8
	Chloride	90-110	12.00	11.720	97.7
	Sulfate	90-110	60.00	60.645	101.1
	Bromide	90-110	4.50	4.390	97.6
	Nitrate	90-110	12.00	12.089	100.7
	O-Phosphate	90-110	18.00	17.392	96.6

BLK1 (NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	**ND**	**0.05**
	Bromide	~	0.05
	Nitrate	**ND**	**0.08**
	O-Phosphate	~	0.07

BS1 (NO SAND)	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~
	Chloride	**80-120**	**6.00**	**5.508**	**91.8**
	Sulfate	**80-120**	**30.00**	**28.765**	**95.9**
	Bromide	80-120	~	~	~
	Nitrate	**80-120**	**6.00**	**5.353**	**89.2**
	O-Phosphate	80-120	~	~	~

ANALYSIS SEQUENCE

9I17002

Instrument: IC 5

Calibnration ID: 9063001

Printed: 9/17/2009 2:22:08PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0909005-02	Anions by IC	T18-50-1.0-3.0	C	24				
0909005-06	Anions by IC	T20-125-1.0-3.0	C	25				
0909006-02	Anions by IC	T29-200-1.0-3.0	C	26				
0909006-03	Anions by IC	T30-150-1.0-3.0	C	27				
0909006-04	Anions by IC	T22-175-0.5-1.2	B	28				
9I17002-CCB1	QC	CCB1		29				
9I17002-CCV1	QC	CCV1		30		9091703		
0909005-05	Anions by IC	T26-125-1.0-3.0	C	31				
0909005-04	Anions by IC	T24-125-1.0-3.0	C	32				
0909005-03	Anions by IC	T27-125-3.0-4.8	C	33				
0909006-01	Anions by IC	T27-150-1.0-3.0	C	34				
9I17002-CCB2	QC	CCB1		35				
9I17002-CCV2	QC	CCV1		36		9091703		
9I17002-IBL4	QC	Inst Blank4		37				

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

9I17002

Instrument: IC 5

Calibnration ID: 9063001

Printed: 9/17/2009 2:22:08PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
9I17002-IBL1	QC	Inst Blank1		1				
9I17002-IBL2	QC	Inst Blank2		2				
9I17002-IBL3	QC	Inst Blank3		3				
9I17002-ICB1	QC	ICB1		4				
9I17002-ICV1	QC	ICV1		5		9091703		
B909013-BLK1	QC	BLK1/BLK1 (NO SA		6				
B909013-BS1	QC	BS1/BS1 (NO SANI		7				
0909007-05	Anions by IC	Soil MDL #1	A	8				
0909007-06	Anions by IC	Soil MDL #2	A	9				
0909007-07	Anions by IC	Soil MDL #3	A	10				
0909007-08	Anions by IC	Soil MDL #4	A	11				
0909007-09	Anions by IC	Soil MDL #5	A	12				
0909007-10	Anions by IC	Soil MDL #6	A	13				
0909007-11	Anions by IC	Soil MDL #7	A	14				
0909007-01	Anions by IC	Soil P&A #1	A	15				
0909007-02	Anions by IC	Soil P&A #2	A	16				
0909007-03	Anions by IC	Soil P&A #3	A	17				
0909007-04	Anions by IC	Soil P&A #4	A	18				
0909005-07	Anions by IC	T20-125-1.0-3.0 Dup	C	19				
B909013-DUP1	QC	DUP1		20				
B909013-MS1	QC	MS1		21				
0908021-01	Anions by IC	T22-50-1.5-2.3	A	22				
0909005-01	Anions by IC	T18-50-0.5-1.0	C	23				

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

9I17005

Instrument: IC 5

Calibnration ID: 9063001

Printed: 9/17/2009 2:33:19PM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
9I17005-IBL1	QC	Inst Blank1		1				
9I17005-IBL2	QC	Inst Blank2		2				
9I17005-IBL3	QC	Inst Blank3		3				
9I17005-ICB1	QC	ICB1		4				
9I17005-ICV1	QC	ICV1		5		9091701		
9I17005-CCB1	QC	CCB1		6				
9I17005-CCV1	QC	CCV1		7		9091701		
9I17005-IBL4	QC	Inst Blank4		8				

Samples Loaded By Date

Data Processed By Date

BEGINNING 9/17/2009 Sequence: 2009SEPT17_CDR01

ICB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	~	0.05
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

ICV1	**Anions**	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	~	~	~
	Chloride	**90-110**	**12.00**	**11.727**	**97.7**
	Sulfate	90-110	~	~	~
	Bromide	90-110	~	~	~
	Nitrate	90-110	~	~	~
	O-Phosphate	90-110	~	~	~

BLK1 (NO SAND)	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	~	0.05
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

BS1 (NO SAND)	**Anions**	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~
	Chloride	**80-120**	**6.00**	**5.375**	**89.6**
	Sulfate	80-120	~	~	~
	Bromide	80-120	~	~	~
	Nitrate	80-120	~	~	~
	O-Phosphate	80-120	~	~	~

DUPLICATE 0909014-02	Anions	Limit (RPD%)	LD1 (ppm)	LD2 (ppm)	Abs. Diff.	RPD%
	Fluoride	20	~	~	~	~
	Chloride	**20**	**229.92**	**242.58**	**12.66**	**5.36**
	Sulfate	20	~	~	~	~
	Bromide	20	~	~	~	~
	Nitrate	20	~	~	~	~
	O-Phosphate	20	~	~	~	~

SPIKE (MS) 0909005-07	Anions	Limit (%Rec)	LFM (ppm)	Sample (ppm)	Target (ppm)	Recovery (%)
	Fluoride	80-120	~	~	~	~
	Chloride	**80-120**	**11.067**	**11.496**	**6.00**	**-7.2**
	Sulfate	80-120	~	~	~	~
	Bromide	80-120	~	~	~	~
	Nitrate	80-120	~	~	~	~
	O-Phosphate	80-120	~	~	~	~

*** No dilution factor was applied for spike recovery. Sample was diluted 20 fold.**

CCB1	ANIONS	FOUND (ppm)	Limit =MDL (ppm)
	Fluoride	~	0.01
	Chloride	**ND**	**0.02**
	Sulfate	~	0.05
	Bromide	~	0.05
	Nitrate	~	0.08
	O-Phosphate	~	0.07

CCV1	Anions	Limit (%Rec)	Target (ppm)	Found (ppm)	Recovery (%)
	Fluoride	85-115	~	~	~
	Chloride	**90-110**	**12.00**	**11.941**	**99.5**
	Sulfate	90-110	~	~	~
	Bromide	90-110	~	~	~
	Nitrate	90-110	~	~	~
	O-Phosphate	90-110	~	~	~

Sequence: 2009SEPT17_CDR01
Operator: Aaleszc2
Printed: 9/17/2009 1:11:33 PM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 24
Created: 9/17/2009 8:35:09 AM by Aaleszc2
Last Update: 9/17/2009 8:49:15 AM by Aaleszc2

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Weight
1	STD1	Standard	4	25.0	Anions_AS18	default	Finished	6/15/2009 1:06:24 PM	1.0000
2	STD2	Standard	5	25.0	Anions_AS18	default	Finished	6/15/2009 1:24:29 PM	1.0000
3	STD3	Standard	6	25.0	Anions_AS18	default	Finished	6/15/2009 1:42:32 PM	1.0000
4	STD4	Standard	7	25.0	Anions_AS18	default	Finished	6/15/2009 2:00:37 PM	1.0000
5	STD5	Standard	8	25.0	Anions_AS18	default	Finished	6/15/2009 2:18:41 PM	1.0000
6	STD6	Standard	9	25.0	Anions_AS18	default	Finished	6/15/2009 2:36:45 PM	1.0000
7	STD7	Standard	10	25.0	Anions_AS18	default	Finished	6/15/2009 2:54:49 PM	1.0000
8	STD8	Standard	11	25.0	Anions_AS18	default	Finished	6/15/2009 3:12:54 PM	1.0000
9	STD9	Standard	12	25.0	Anions_AS18	default	Finished	6/15/2009 3:30:59 PM	1.0000
10	STD10	Standard	13	25.0	Anions_AS18	default	Finished	6/15/2009 3:49:03 PM	1.0000
11	Inst Blank1	Unknown	1	25.0	Anions_AS18	default	Finished	9/17/2009 8:53:42 AM	1.0000
12	Inst Blank2	Unknown	2	25.0	Anions_AS18	default	Finished	9/17/2009 9:12:10 AM	1.0000
13	Inst Blank3	Unknown	3	25.0	Anions_AS18	default	Finished	9/17/2009 9:30:39 AM	1.0000
14	ICB1	Unknown	4	25.0	Anions_AS18	default	Finished	9/17/2009 9:49:07 AM	1.0000
15	ICV1	Unknown	5	25.0	Anions_AS18	default	Finished	9/17/2009 10:07:36 AM	1.0000
16	BLK1 no sand	Unknown	6	25.0	Anions_AS18	default	Finished	9/17/2009 10:26:04 AM	1.0000
17	BS1 no sand	Unknown	7	25.0	Anions_AS18	default	Finished	9/17/2009 10:44:32 AM	1.0000
18	0909014-02 1.25/25 mL	Unknown	8	25.0	Anions_AS18	default	Finished	9/17/2009 11:03:01 AM	1.0000
19	DUP1 1.25/25 mL	Unknown	9	25.0	Anions_AS18	default	Finished	9/17/2009 11:21:29 AM	1.0000
20	MS1 1.25/25 mL	Unknown	10	25.0	Anions_AS18	default	Finished	9/17/2009 11:39:57 AM	1.0000
21	0909014-03 1.25/25 mL	Unknown	11	25.0	Anions_AS18	default	Finished	9/17/2009 11:58:26 AM	1.0000
22	CCB1	Unknown	12	25.0	Anions_AS18	default	Finished	9/17/2009 12:16:54 PM	1.0000
23	CCV1	Unknown	13	25.0	Anions_AS18	default	Finished	9/17/2009 12:35:22 PM	1.0000
24	Inst Blank4	Unknown	14	25.0	Anions_AS18	default	Finished	9/17/2009 12:53:51 PM	1.0000

Sequence: 2009SEPT17_CDR01
Operator: Aaleszc2
Printed: 9/17/2009 1:11:33 PM

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009
Timebase: System_2
#Samples: 24
Created: 9/17/2009 8:35:09 AM by Aaleszc2
Last Update: 9/17/2009 8:49:15 AM by Aaleszc2

No.	Name	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	STD1	1.0000	1.0000		01	
2	STD2	1.0000	1.0000		01	
3	STD3	1.0000	1.0000		01	
4	STD4	1.0000	1.0000		01	
5	STD5	1.0000	1.0000		01	
6	STD6	1.0000	1.0000		01	
7	STD7	1.0000	1.0000		01	
8	STD8	1.0000	1.0000		01	
9	STD9	1.0000	1.0000		01	
10	STD10	1.0000	1.0000		01	
11	Inst Blank1	1.0000	1.0000		01	
12	Inst Blank2	1.0000	1.0000		01	
13	Inst Blank3	1.0000	1.0000		01	
14	ICB1	1.0000	1.0000		01	
15	ICV1	1.0000	1.0000		01	
16	BLK1 no sand	1.0000	1.0000		01	
17	BS1 no sand	1.0000	1.0000		01	
18	0909014-02 1.25/25 mL	1.0000	1.0000		01	Chloride dilution
19	DUP1 1.25/25 mL	1.0000	1.0000		01	Chloride dilution
20	MS1 1.25/25 mL	1.0000	1.0000		01	Chloride dilution
21	0909014-03 1.25/25 mL	1.0000	1.0000		01	Chloride dilution
22	CCB1	1.0000	1.0000		01	
23	CCV1	1.0000	1.0000		01	
24	Inst Blank4	1.0000	1.0000		01	

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
            Sampler.A  uireExclusiveAccess
             amp  ee_p.  e.terVa  ve.Ex si  on
            Volum  _P0. ompireExc  usive  ces
            Compa  tment_P0.Acq  ire  xclusiveAc
            - ash
            Press  e.L  erLimit
            Pressure.upper Limit
             ax m  ofic  Ramp
             .Fo  ne
             R_T0
            Wa
            Data_  ec  on_Rate
            Temper  t  re_Compensa  t
             el H-  er.Temper  ureSet
            Suppre  sor1.Type
             ressor1.Set
             ressor1.Curv
             .Low
            Pump_1.Time
            Need-Height
            Cutse_ent Volume
            Syr  nceSp  d
            Cy  eTi me
            Ne  H  lemperat  e
             el.Heater. ode
            ; Suppr  ess  1.Ca  e
            ; Suppress  1.Bi  arbona e
            ; Sup  ess1.Hy  oxide
            ; Suppressor1.Te  rabora e
            ; Suppressor1.Other  ent
            ; Supp  ess1.Re  ommended  rter
            Wait
```

```
0.000       Coel1. utozer.
             Gad
             a
              ge
            Wa
             D_ .Flow
            Sampler .ve.ReleaseExclusiveAccess

15.00       Pump_1.Stop
             Compa  me. _Pl.  ele  se  xclusive
```

Title:
Datasource: D6Y3JYF1_local Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Timebase: System2 Changed: 7/30/2009 1:38:58 PM by FAWANYA

```
Column_TC.ReleaseExclusiveAccess
End
```

Program File:	Anions_AS18	Printed: 9/17/2009 1:11:34 PM
Operator:	Aaleszc2	
Title:		
Datasource:	D6Y3JYF1_local	
Location:	System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ	Created: 8/5/2008 3:23:04 PM by US Environmental Pro
Timebase:	System2	Changed: 7/30/2009 1:38:58 PM by FAWANYA

No.	Channel	Operation	Parameters

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Void Volume Treatment	On	All Channels
2	0.000	Minimum Area	0.01 "[Signal]*min"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Fronting Sensitivity Factor	1.8	All Channels
5	0.000	Tailing Sensitivity Factor	3.5	All Channels
6	0.000	Minimum Width	0.10 min	All Channels
7	0.000	Inhibit Integration	On	All Channels
8	0.800	Void Volume Treatment	Off	All Channels
9	1.000	Inhibit Integration	Off	All Channels

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment	Amount STD1	Amount STD2	Amount STD3
1	*Flouride*	*3.100 min*	*0.100 AG*	*External*	*Area*	*QOff*	*Auto*		*Autogenerated*	*0.100000*	*0.200000*	*0.400000*
2	Chloride	4.300 min	0.100 AG	External	Area	LOff	Auto		Autogenerated	0.150000	0.300000	0.600000
3	Sulfate	5.700 min	0.400 AG	External	Area	XLOff	Auto		Autogenerated	0.750000	1.500000	3.000000
4	Bromide	7.100 min	0.200 AG	External	Area	QOff	Auto		Autogenerated	0.500000	1.000000	2.000000
5	Nitrate	8.400 min	0.300 AG	External	Area	XQOff	Auto		Autogenerated	0.500000	1.000000	2.000000
6	Phosphate	10.500 min	0.800 AG	External	Area	XQOff	Auto		Autogenerated	0.750000	1.500000	3.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Peak Table:

Use Recently Detected Retention Times: Off
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Amount STD4	Amount STD5	Amount STD6	Amount STD7	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*0.800000*	*1.600000*	*3.200000*	*6.400000*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	1.200000	2.400000	4.800000	9.600000	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	6.000000	12.000000	24.000000	48.000000	72.000000	105.000000	120.000000
4	Bromide	7.100 min	4.000000	8.000000					
5	Nitrate	8.400 min	4.000000	8.000000	16.000000	32.000000	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	6.000000	12.000000	24.000000	48.000000	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Comment	Amount STD1	Amount STD2	Amount STD3	Amount STD4	Amount STD5	Amount STD6	Amount STD7
1	*Flouride*	*3.100 min*	*1.000000*	*Autogenerated*	*0.100000*	*0.200000*	*0.400000*	*0.800000*	*1.600000*	*3.200000*	*6.400000*
2	Chloride	4.300 min	1.000000	Autogenerated	0.150000	0.300000	0.600000	1.200000	2.400000	4.800000	9.600000
3	Sulfate	5.700 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000
4	Bromide	7.100 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000		
5	Nitrate	8.400 min	1.000000	Autogenerated	0.500000	1.000000	2.000000	4.000000	8.000000	16.000000	32.000000
6	Phosphate	10.500 min	1.000000	Autogenerated	0.750000	1.500000	3.000000	6.000000	12.000000	24.000000	48.000000

Title:
Datasource: D6Y3JYF1_local
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Amount Table:

Dimension of Amounts: ppm
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 10
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Amount STD8	Amount STD9	Amount STD10
1	*Flouride*	*3.100 min*	*9.600000*	*14.000000*	*16.000000*
2	Chloride	4.300 min	14.400000	21.000000	24.000000
3	Sulfate	5.700 min	72.000000	105.000000	120.000000
4	Bromide	7.100 min			
5	Nitrate	8.400 min	48.000000	70.000000	80.000000
6	Phosphate	10.500 min	72.000000		

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	*STD1*	*1*	*4*	*25.0*	*1.0000*	*1.0000*	*1.0000*	*6/15/2009 1:06:24 P*	
2	☒	STD2	2	5	25.0	1.0000	1.0000	1.0000	6/15/2009 1:24:29 P	
3	☒	STD3	3	6	25.0	1.0000	1.0000	1.0000	6/15/2009 1:42:32 P	
4	☒	STD4	4	7	25.0	1.0000	1.0000	1.0000	6/15/2009 2:00:37 P	
5	☒	STD5	5	8	25.0	1.0000	1.0000	1.0000	6/15/2009 2:18:41 P	
6	☒	STD6	6	9	25.0	1.0000	1.0000	1.0000	6/15/2009 2:36:45 P	
7	☒	STD7	7	10	25.0	1.0000	1.0000	1.0000	6/15/2009 2:54:49 P	
8	☒	STD8	8	11	25.0	1.0000	1.0000	1.0000	6/15/2009 3:12:54 P	
9	☒	STD9	9	12	25.0	1.0000	1.0000	1.0000	6/15/2009 3:30:59 P	
10	☒	STD1	10	13	25.0	1.0000	1.0000	1.0000	6/15/2009 3:49:03 P	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal
Dual-Column Separate Calibration: Off

No.	Enabled	Name	Calib.	Comment
1	☒	*STD1*	*Ok*	
2	☒	STD2	Ok	
3	☒	STD3	Ok	
4	☒	STD4	Ok	
5	☒	STD5	Ok	
6	☒	STD6	Ok	
7	☒	STD7	Ok	
8	☒	STD8	Ok	
9	☒	STD9	Ok	
10	☒	STD1	Ok	

Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Rounding	Channel	Peak	N.A.
1										

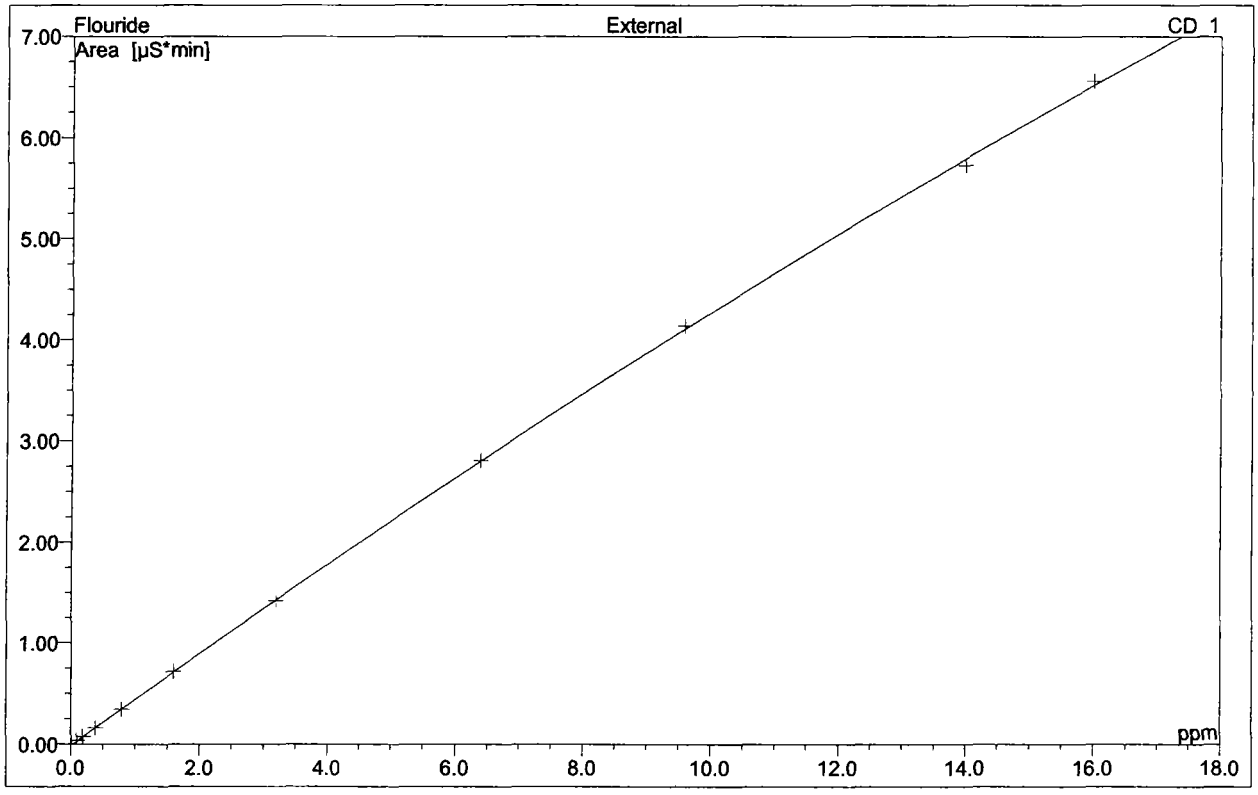
Title:
Datasource: D6Y3JYF1_local
Location: System_2\2_Data\EPA_CD_2009\2009SEPT17_CDR01.SEQ
Created: 8/5/2008 4:11:42 PM by US Environmental Pro
Last Update: 9/15/2009 7:24:46 AM by Aaleszc2

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

6 STD6

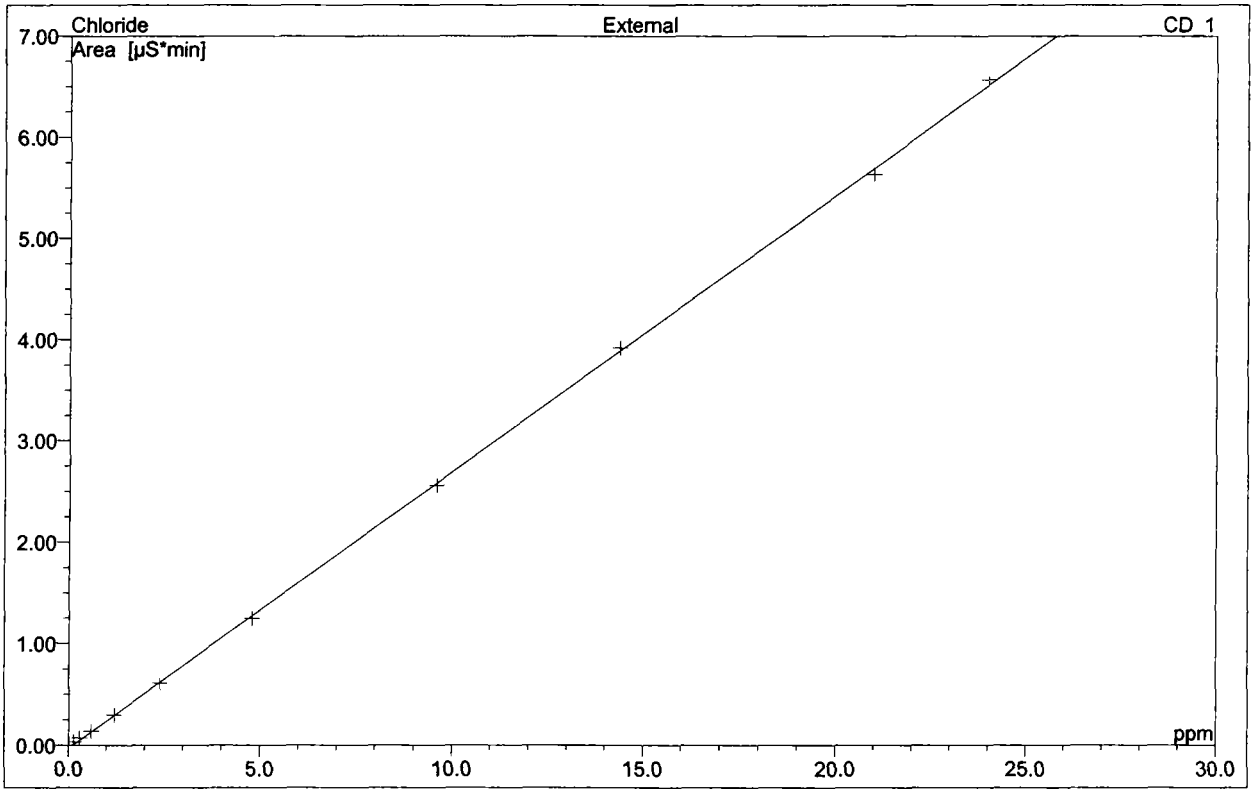
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

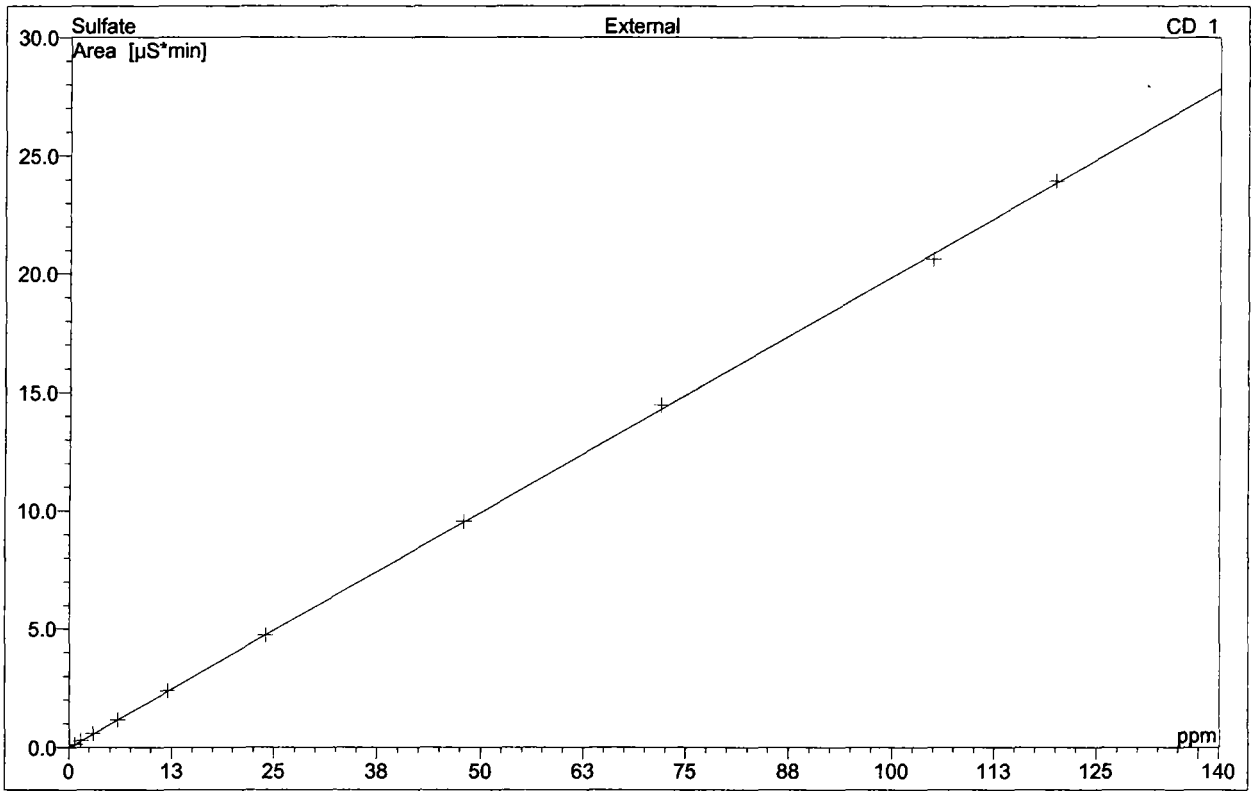
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

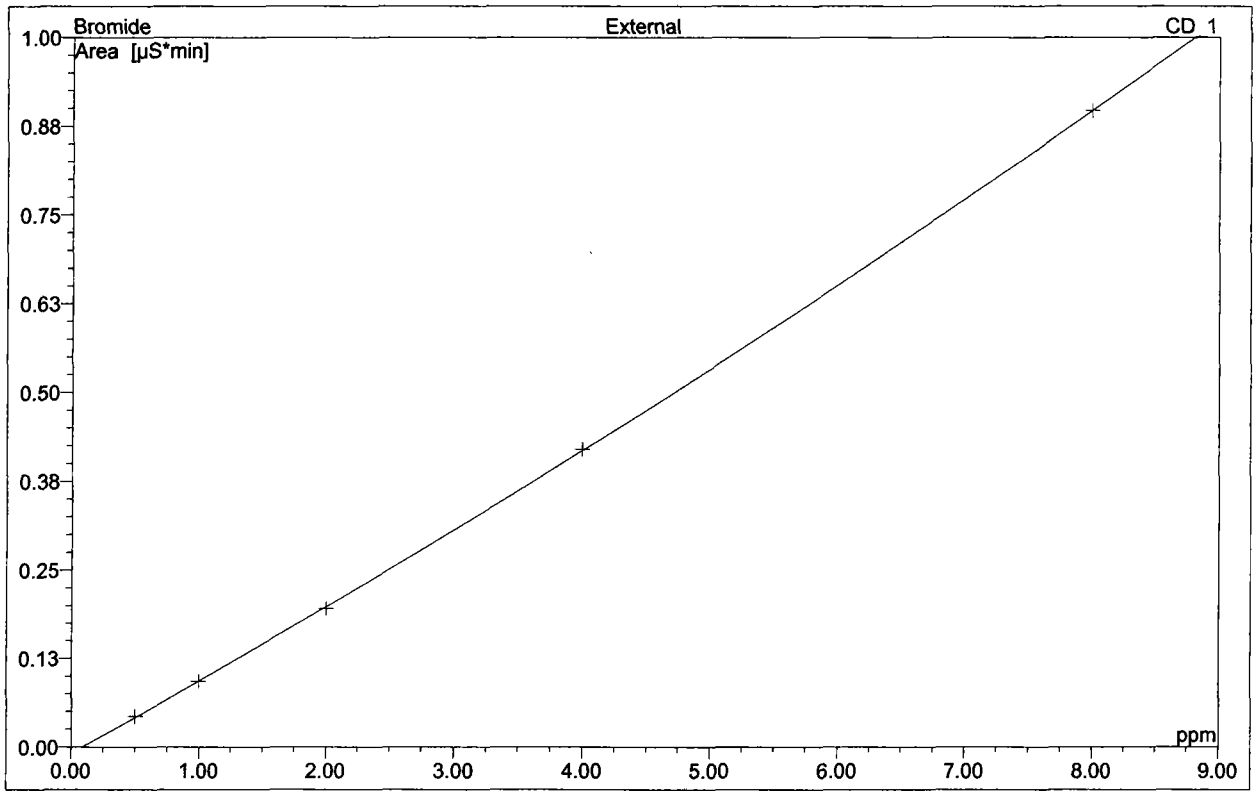
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

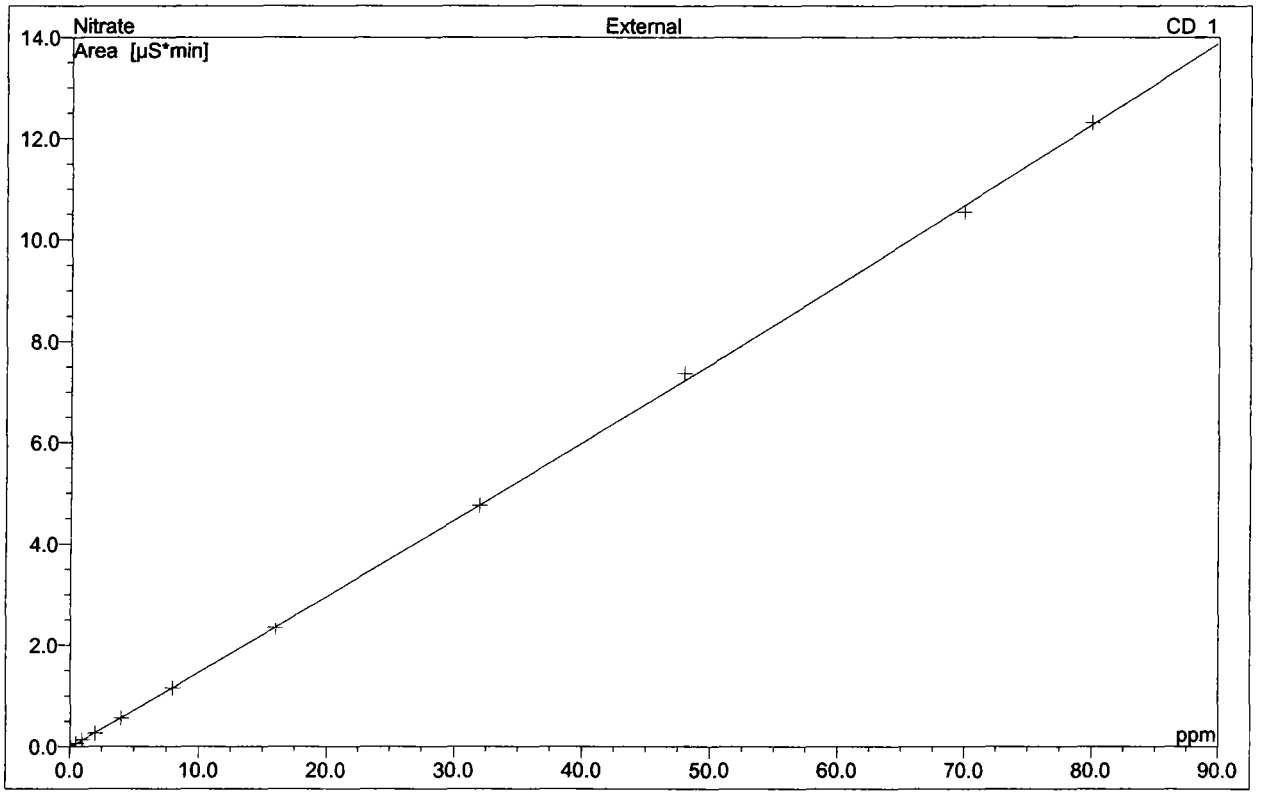
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

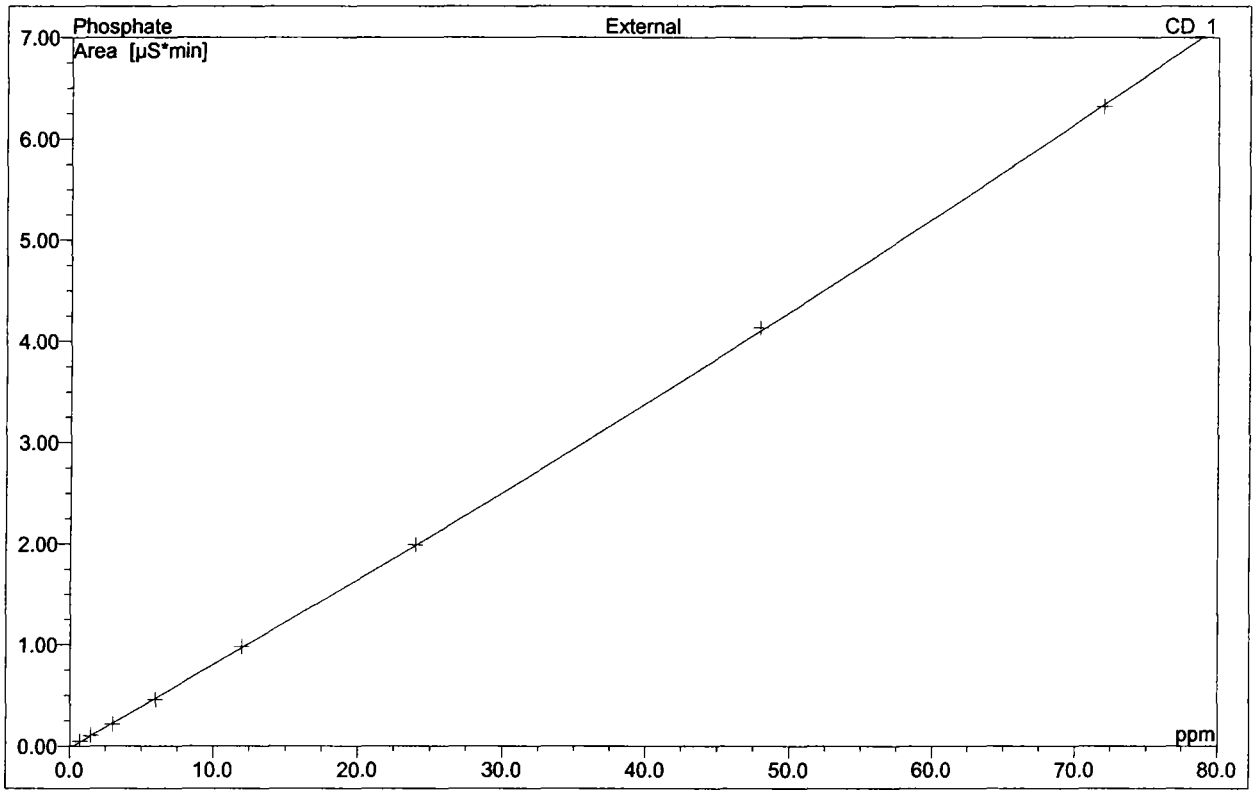
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

6 STD6

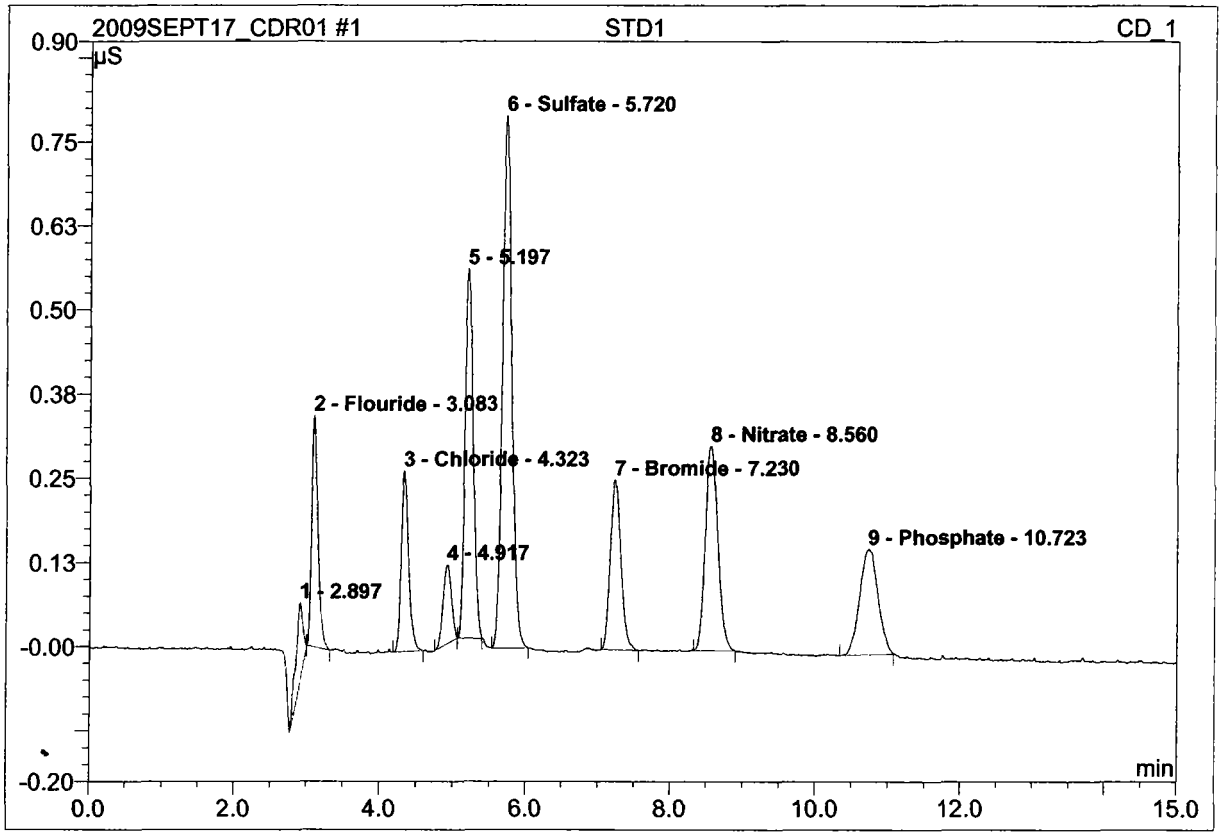
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	3.09	Flouride	QOff	10	99.9877	-0.0186	0.4629	-0.0034
2	4.33	Chloride	LOff	10	99.9822	-0.0316	0.2727	0.0000
3	4.94	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	5.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	5.72	Sulfate	XLOff	10	99.9919	-0.0260	0.1990	0.0000
6	7.18	Bromide	QOff	5	99.9972	-0.0089	0.1002	0.0016
7	8.44	Nitrate	XQOff	10	99.9824	-0.0186	0.1470	0.0001
8	10.52	Phosphate	XQOff	8	99.9881	-0.0184	0.0811	0.0001
Average:					99.9883	-0.0204	0.2105	-0.0003

1 STD1

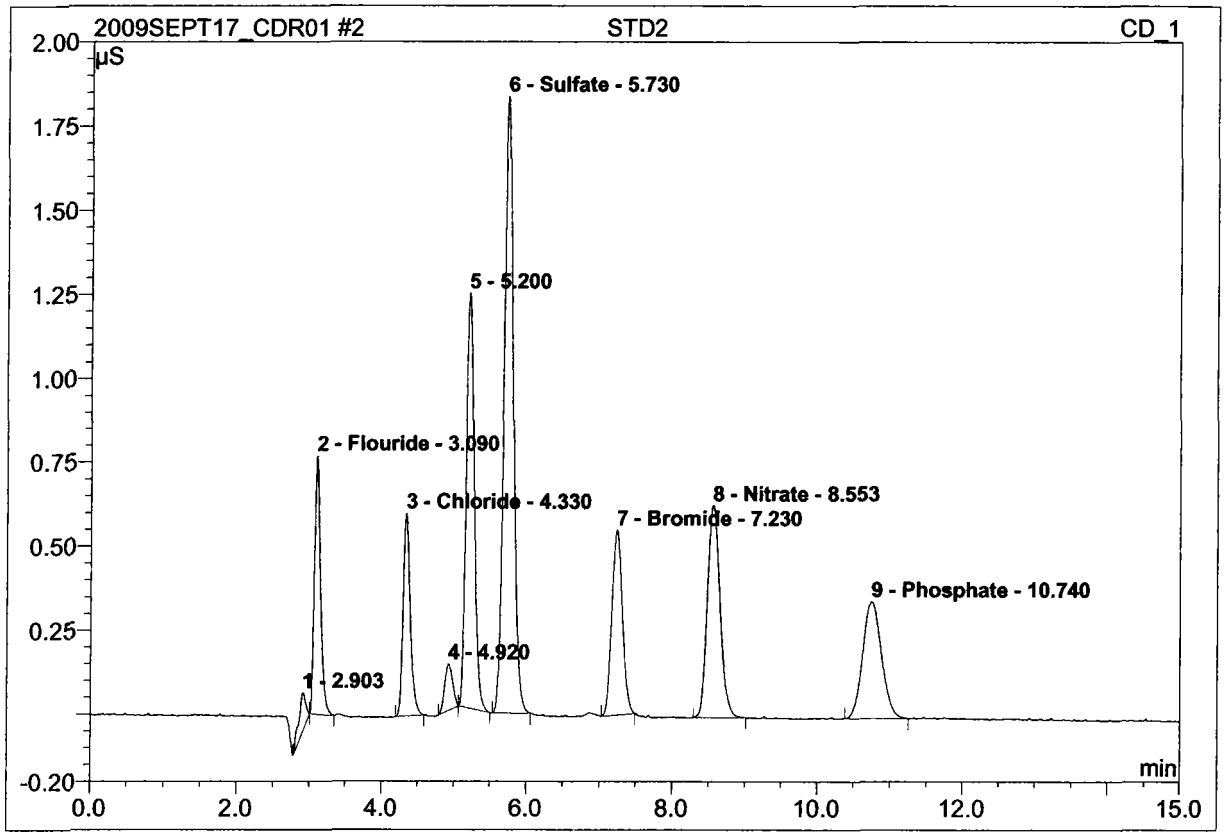
Sample Name:	**STD1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.123	0.013	3.06	n.a.	BMB
2	3.08	Flouride	0.344	0.034	7.77	0.113	bMB
3	4.32	Chloride	0.269	0.032	7.30	0.233	BMB
4	4.92	n.a.	0.118	0.016	3.59	n.a.	BMB
5	5.20	n.a.	0.549	0.071	16.18	n.a.	BMB
6	5.72	Sulfate	0.792	0.121	27.63	0.736	BMB
7	7.23	Bromide	0.252	0.043	9.90	0.516	BMB
8	8.56	Nitrate	0.304	0.061	14.02	0.543	BMB
9	10.72	Phosphate	0.157	0.046	10.56	0.794	BMB
Total:			2.908	0.436	100.00	2.935	

2 STD2

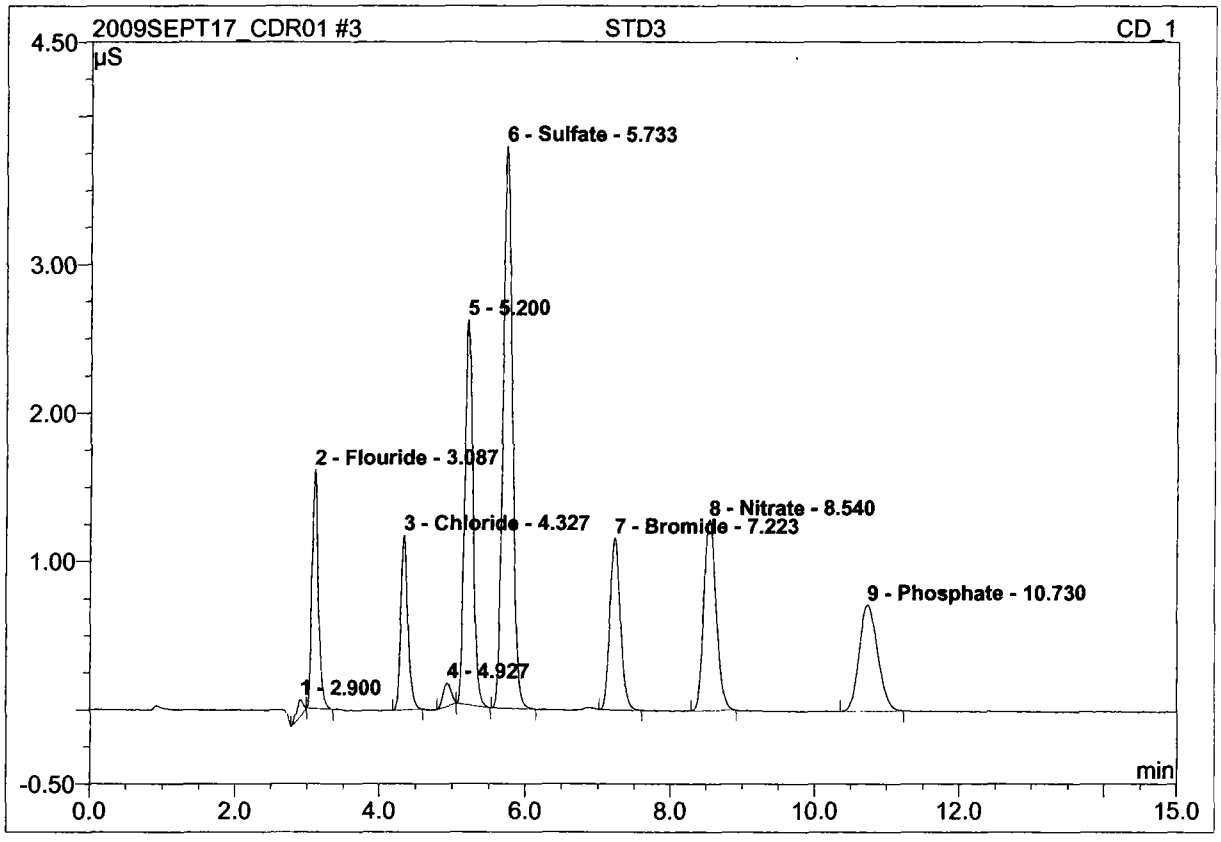
Sample Name:	**STD2**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.116	0.012	1.33	n.a.	BMB
2	3.09	Flouride	0.769	0.076	8.07	0.204	bMB
3	4.33	Chloride	0.605	0.071	7.51	0.374	BMB
4	4.92	n.a.	0.139	0.018	1.90	n.a.	BMB
5	5.20	n.a.	1.236	0.161	17.18	n.a.	BMB
6	5.73	Sulfate	1.835	0.277	29.49	1.521	BMB
7	7.23	Bromide	0.550	0.092	9.85	0.995	BMB
8	8.55	Nitrate	0.631	0.128	13.59	0.994	BMB
9	10.74	Phosphate	0.348	0.104	11.08	1.506	BMB
Total:			6.230	0.938	100.00	5.595	

3 STD3

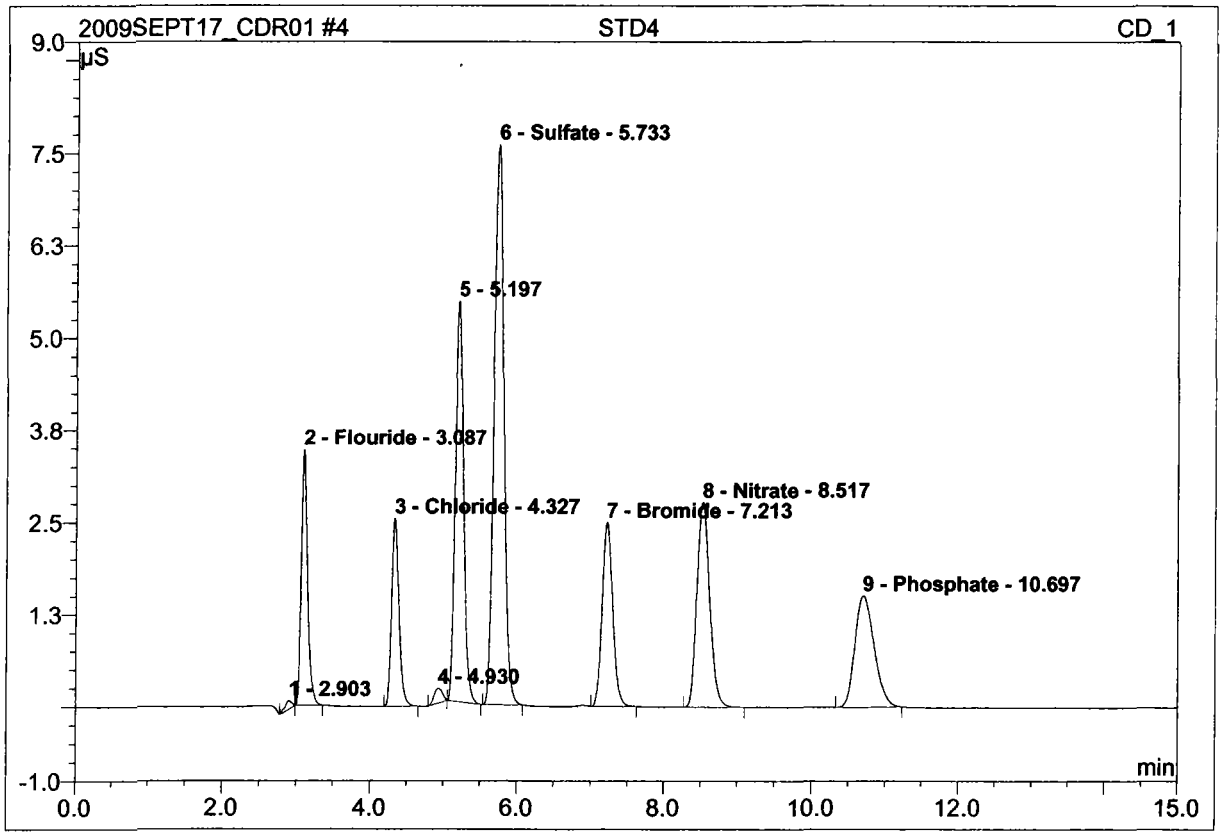
Sample Name:	**STD3**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.63	n.a.	BMB
2	3.09	Flouride	1.612	0.159	8.32	0.384	bMB
3	4.33	Chloride	1.180	0.136	7.15	0.616	BMB
4	4.93	n.a.	0.157	0.020	1.06	n.a.	BMB
5	5.20	n.a.	2.596	0.339	17.79	n.a.	BMB
6	5.73	Sulfate	3.792	0.574	30.11	3.016	BMB
7	7.22	Bromide	1.159	0.195	10.25	1.975	BMB
8	8.54	Nitrate	1.288	0.257	13.49	1.874	BMB
9	10.73	Phosphate	0.718	0.214	11.20	2.851	BMB
Total:			12.617	1.907	100.00	10.716	

4 STD4

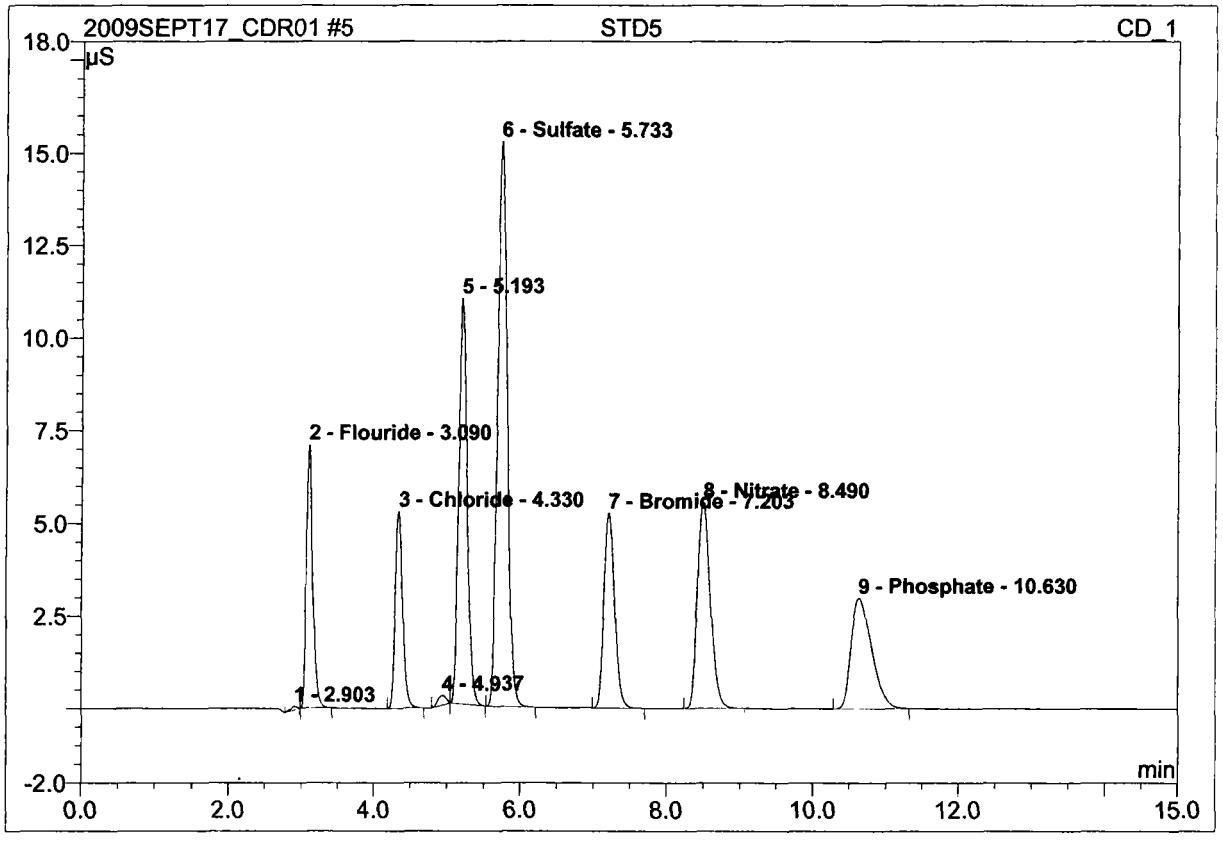
Sample Name:	**STD4**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.114	0.012	0.30	n.a.	BMB
2	3.09	Flouride	3.463	0.343	8.59	0.786	bMB
3	4.33	Chloride	2.554	0.295	7.38	1.196	BMB
4	4.93	n.a.	0.203	0.026	0.66	n.a.	BMB
5	5.20	n.a.	5.432	0.718	17.99	n.a.	BMB
6	5.73	Sulfate	7.589	1.158	29.03	5.952	BMB
7	7.21	Bromide	2.496	0.420	10.52	4.016	BMB
8	8.52	Nitrate	2.776	0.561	14.06	3.934	BMB
9	10.70	Phosphate	1.511	0.457	11.46	5.828	BMB
Total:			26.138	3.990	100.00	21.713	

5 STD5

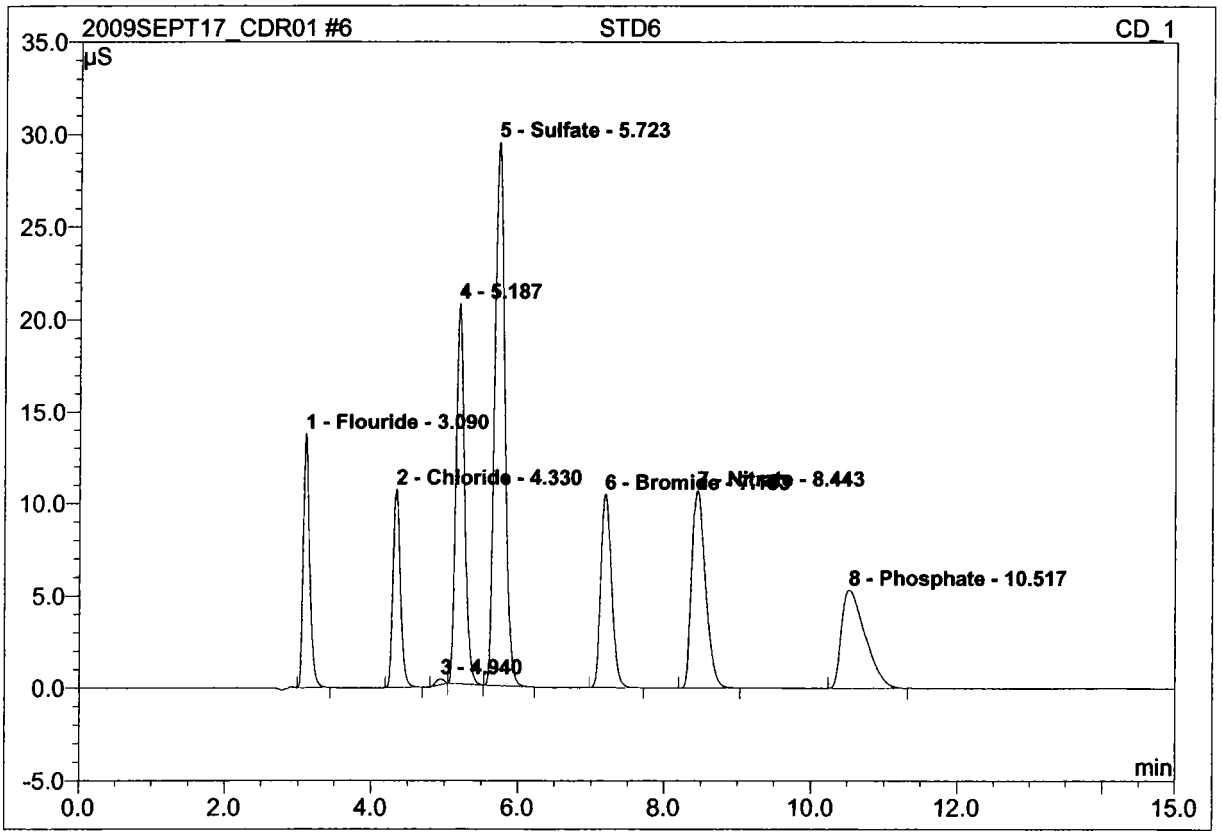
Sample Name:	**STD5**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	n.a.	0.098	0.010	0.12	n.a.	BMB
2	3.09	Flouride	7.120	0.716	8.66	1.606	BMB
3	4.33	Chloride	5.325	0.614	7.43	2.367	BMB
4	4.94	n.a.	0.265	0.034	0.41	n.a.	BMB
5	5.19	n.a.	10.966	1.485	17.97	n.a.	BMB
6	5.73	Sulfate	15.266	2.376	28.75	12.073	BMB
7	7.20	Bromide	5.279	0.897	10.85	7.998	BMB
8	8.49	Nitrate	5.569	1.157	13.99	7.959	BMB
9	10.63	Phosphate	3.001	0.978	11.82	12.105	BMB
Total:			52.889	8.267	100.00	44.108	

6 STD6

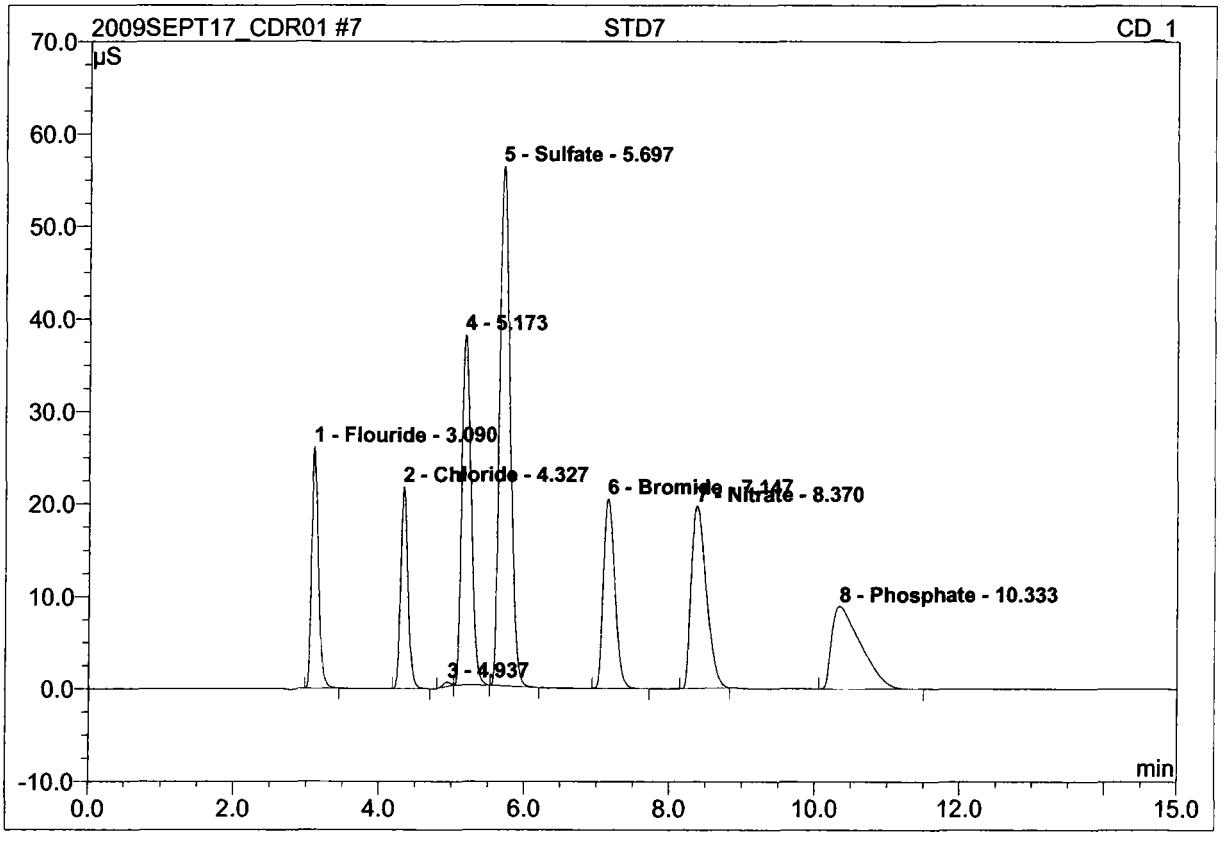
Sample Name:	**STD6**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	13.795	1.424	8.62	3.191	BMB
2	4.33	Chloride	10.749	1.246	7.55	4.686	BMB
3	4.94	n.a.	0.325	0.041	0.25	n.a.	BMB
4	5.19	n.a.	20.661	2.903	17.58	n.a.	BMB
5	5.72	Sulfate	29.488	4.732	28.65	23.910	BMB
6	7.18	Bromide	10.490	1.828	11.07	14.776	BMB
7	8.44	Nitrate	10.683	2.348	14.22	15.957	BMB
8	10.52	Phosphate	5.326	1.992	12.06	24.077	BMB
Total:			101.517	16.513	100.00	86.597	

7 STD7

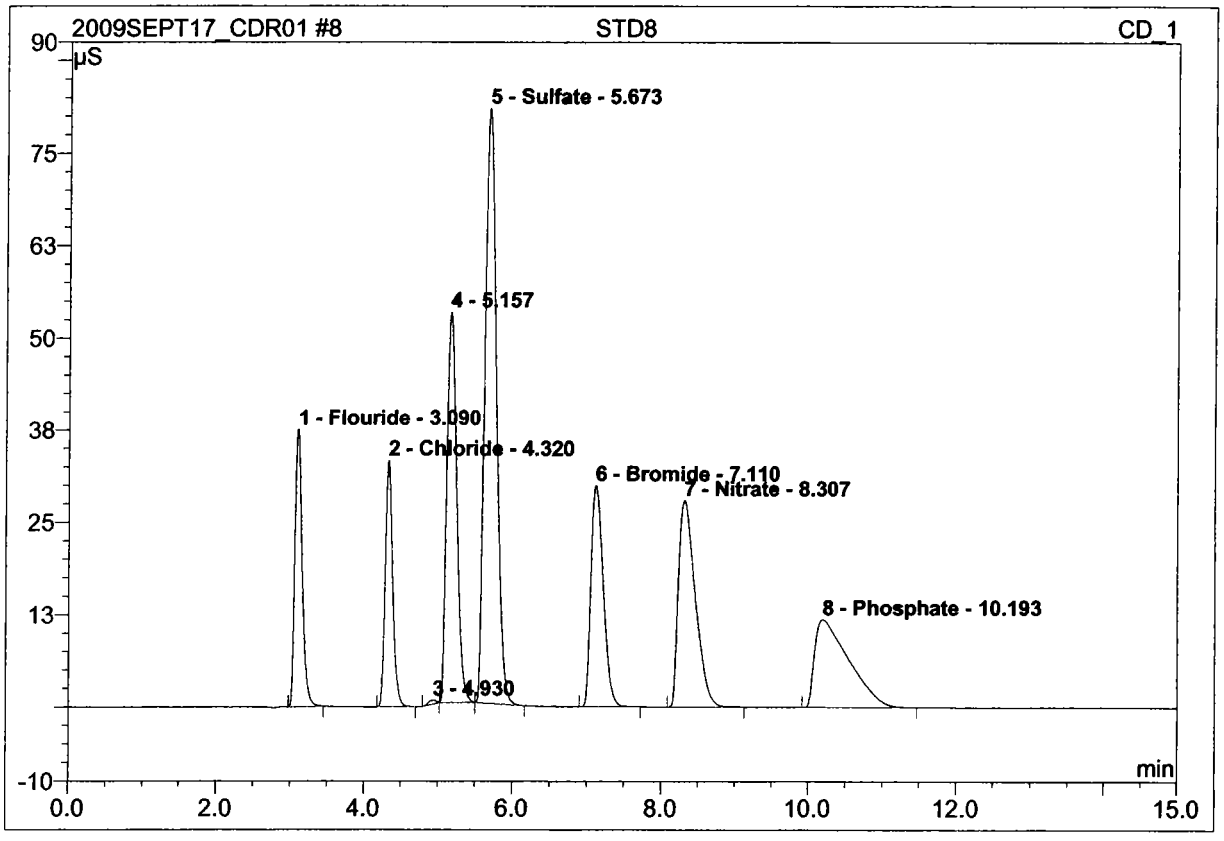
Sample Name:	**STD7**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 14:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	26.188	2.809	8.45	6.410	BMB
2	4.33	Chloride	21.884	2.560	7.70	9.503	BMB
3	4.94	n.a.	0.442	0.054	0.16	n.a.	BMb
4	5.17	n.a.	37.903	5.624	16.92	n.a.	bMB
5	5.70	Sulfate	56.252	9.544	28.71	48.091	BMB
6	7.15	Bromide	20.518	3.758	11.31	26.313	BMB
7	8.37	Nitrate	19.724	4.761	14.32	31.929	BMB
8	10.33	Phosphate	8.962	4.131	12.43	48.290	BMB
Total:			191.872	33.240	100.00	170.537	

8 STD8

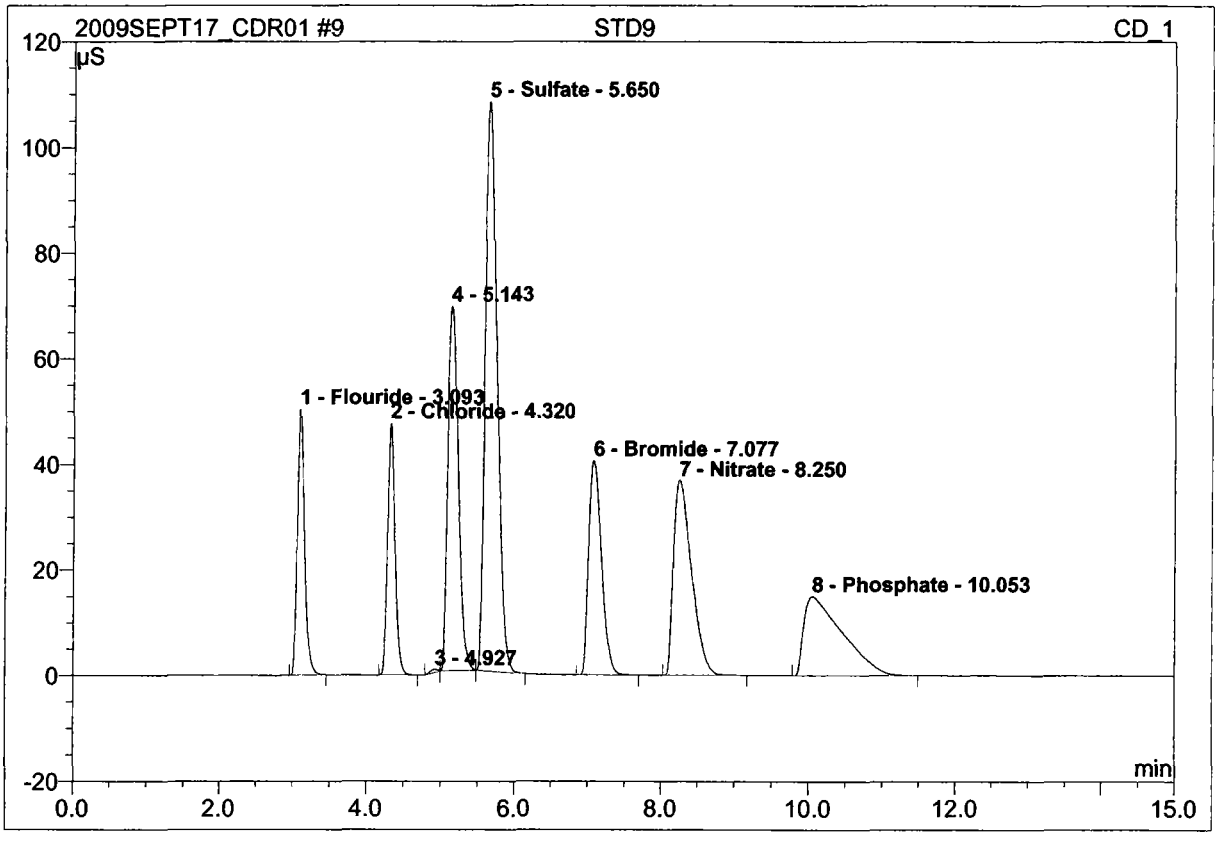
Sample Name:	**STD8**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	37.554	4.142	8.24	9.673	BMB
2	4.32	Chloride	33.384	3.921	7.80	14.496	BMB
3	4.93	n.a.	0.530	0.064	0.13	n.a.	BMB
4	5.16	n.a.	52.932	8.218	16.36	n.a.	bMB
5	5.67	Sulfate	80.582	14.462	28.78	72.806	BMB
6	7.11	Bromide	29.910	5.751	11.45	36.168	BMB
7	8.31	Nitrate	27.925	7.370	14.67	48.897	BMB
8	10.19	Phosphate	11.912	6.320	12.58	71.795	BMB
Total:			274.730	50.248	100.00	253.834	

9 STD9

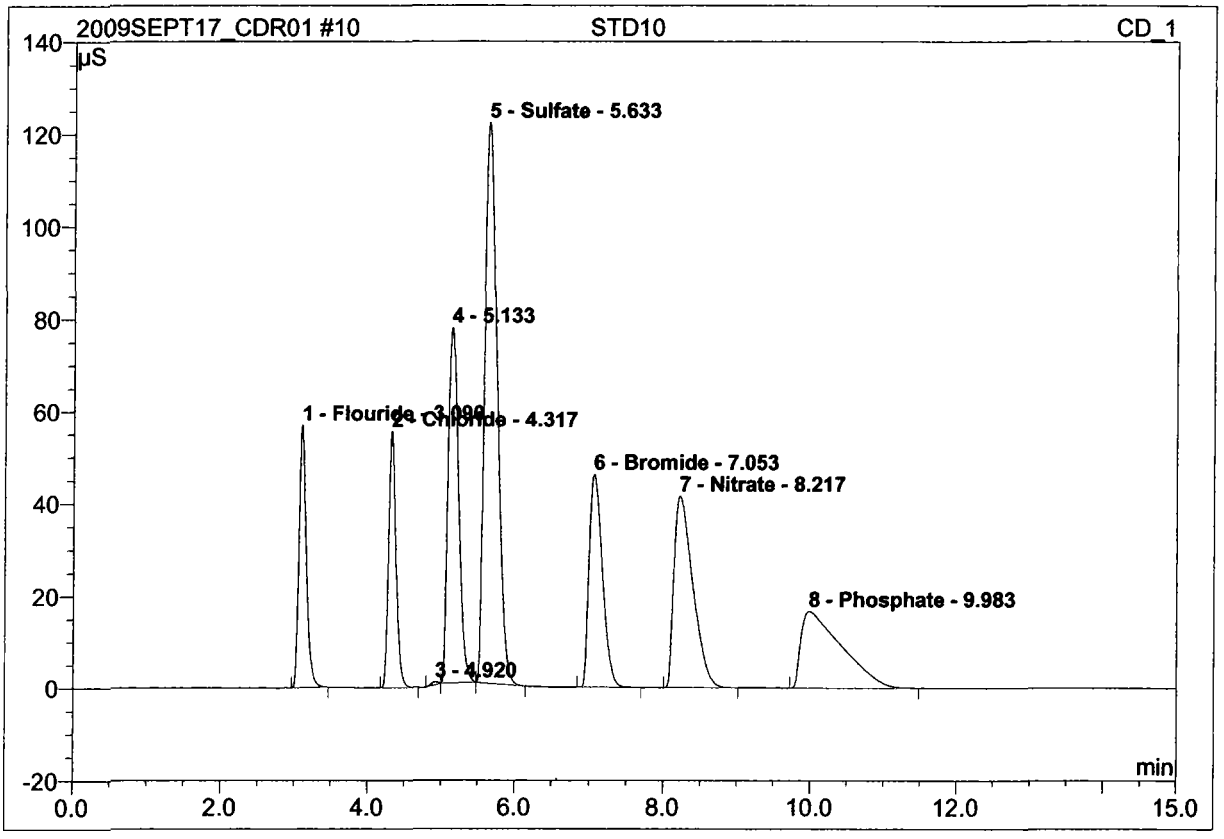
Sample Name:	**STD9**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	50.452	5.732	8.05	13.823	BMB
2	4.32	Chloride	47.792	5.636	7.91	20.783	BMB
3	4.93	n.a.	0.589	0.068	0.10	n.a.	BMb
4	5.14	n.a.	69.145	11.267	15.82	n.a.	bMb
5	5.65	Sulfate	107.896	20.610	28.93	103.704	bMB
6	7.08	Bromide	40.639	8.261	11.60	46.818	BMB
7	8.25	Nitrate	36.876	10.550	14.81	69.159	BMB
8	10.05	Phosphate	15.071	9.107	12.78	100.125	BMB
Total:			368.461	71.232	100.00	354.413	

10 STD10

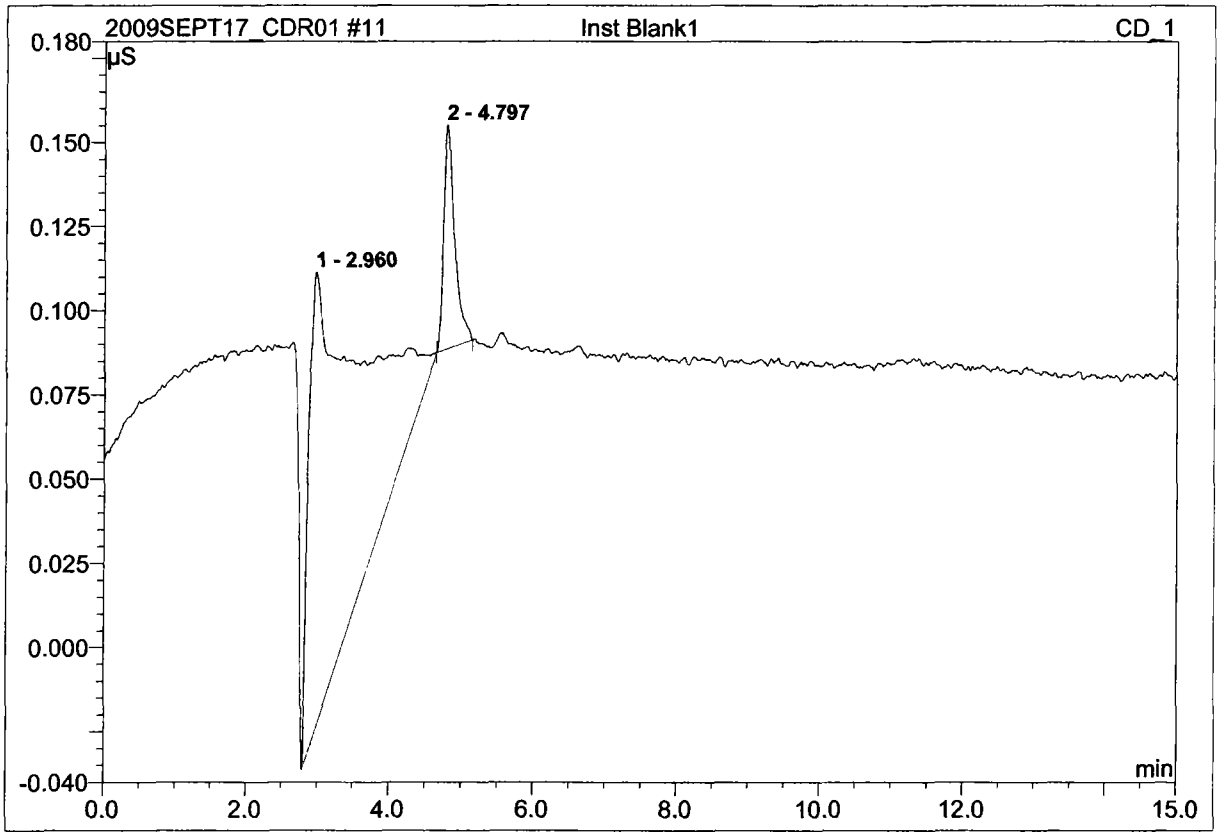
Sample Name:	**STD10**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/15/2009 15:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.09	Flouride	56.969	6.559	7.95	16.110	BMB
2	4.32	Chloride	55.581	6.566	7.95	24.195	BMB
3	4.92	n.a.	0.606	0.069	0.08	n.a.	BMb
4	5.13	n.a.	77.066	12.846	15.56	n.a.	bMB
5	5.63	Sulfate	121.538	23.941	29.00	120.441	BMB
6	7.05	Bromide	46.106	9.631	11.67	52.054	BMB
7	8.22	Nitrate	41.498	12.320	14.93	80.252	BMB
8	9.98	Phosphate	16.621	10.615	12.86	114.809	BMB
Total:			415.986	82.546	100.00	407.861	

11 Inst Blank1

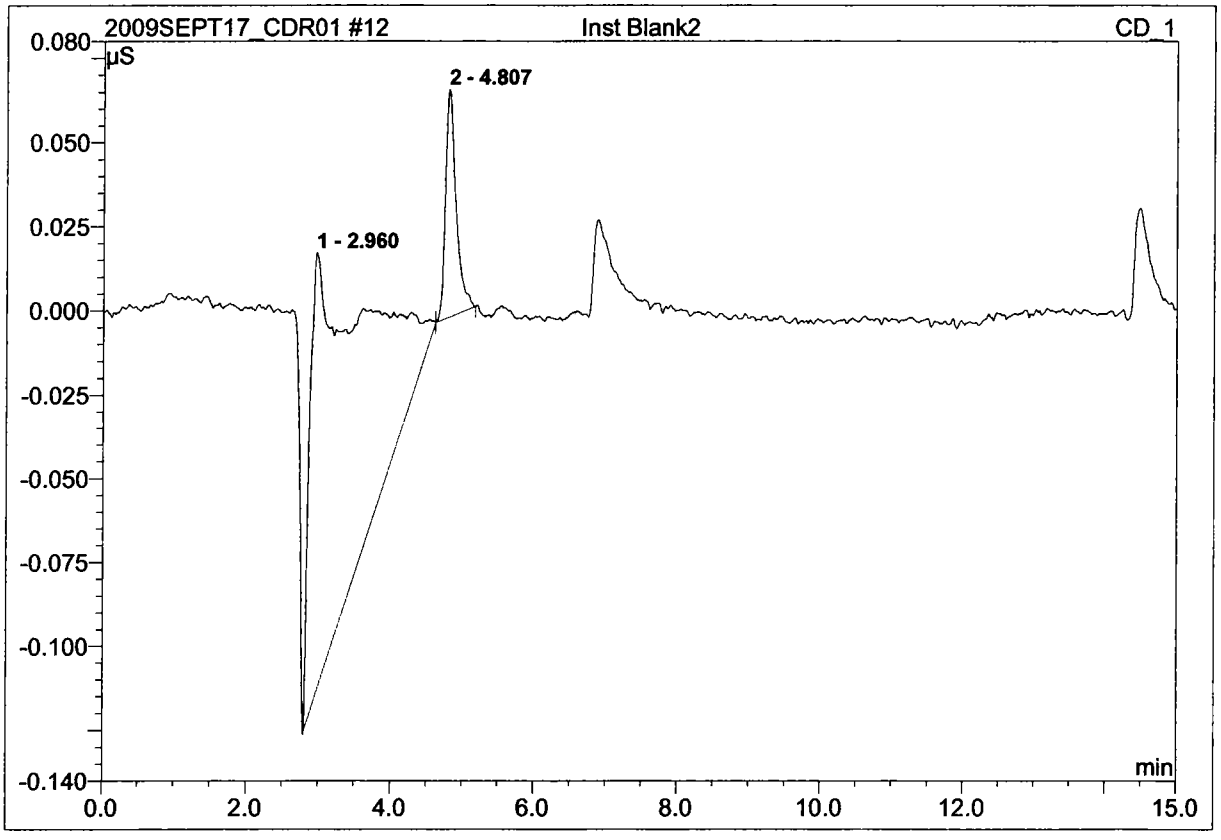
Sample Name:	**Inst Blank1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 8:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.136	0.110	90.33	n.a.	BMB
2	4.80	n.a.	0.067	0.012	9.67	n.a.	bMB
Total:			0.203	0.122	100.00	0.000	

12 Inst Blank2

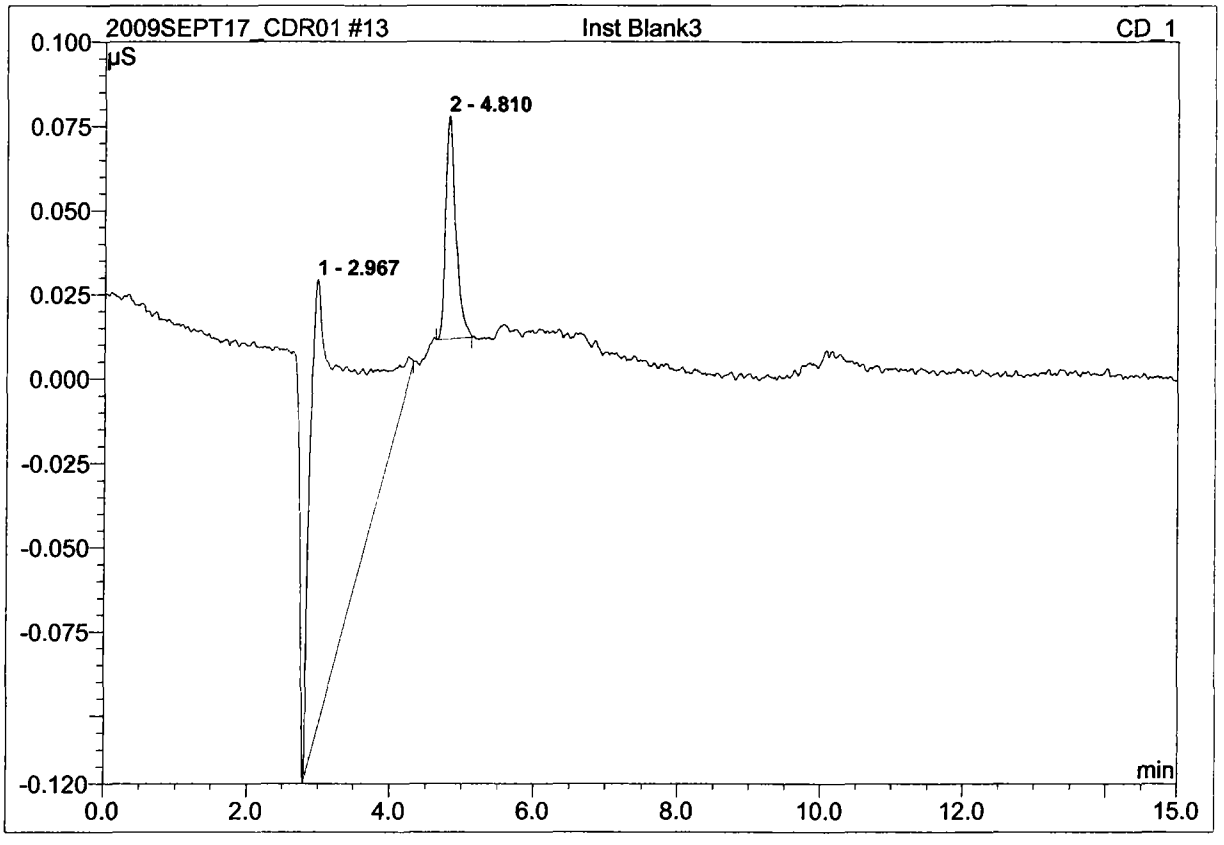
Sample Name:	**Inst Blank2**	*Injection Volume:*	**25.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 9:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.131	0.109	90.26	n.a.	BMB
2	4.81	n.a.	0.068	0.012	9.74	n.a.	BMB
Total:			0.199	0.121	100.00	0.000	

13 Inst Blank3

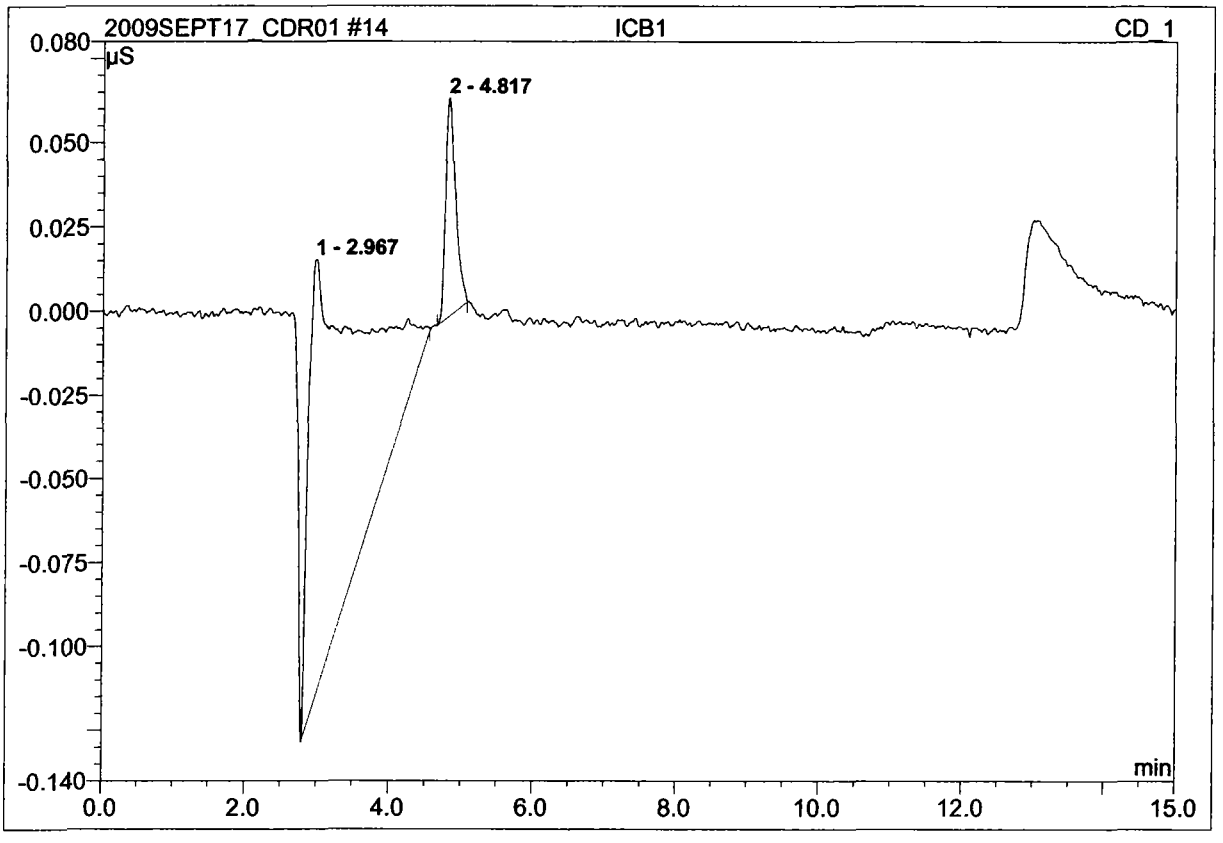
Sample Name:	**Inst Blank3**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 9:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.97	n.a.	0.134	0.088	89.06	n.a.	BMB
2	4.81	n.a.	0.066	0.011	10.94	n.a.	BMB
Total:			0.200	0.099	100.00	0.000	

14 ICB1

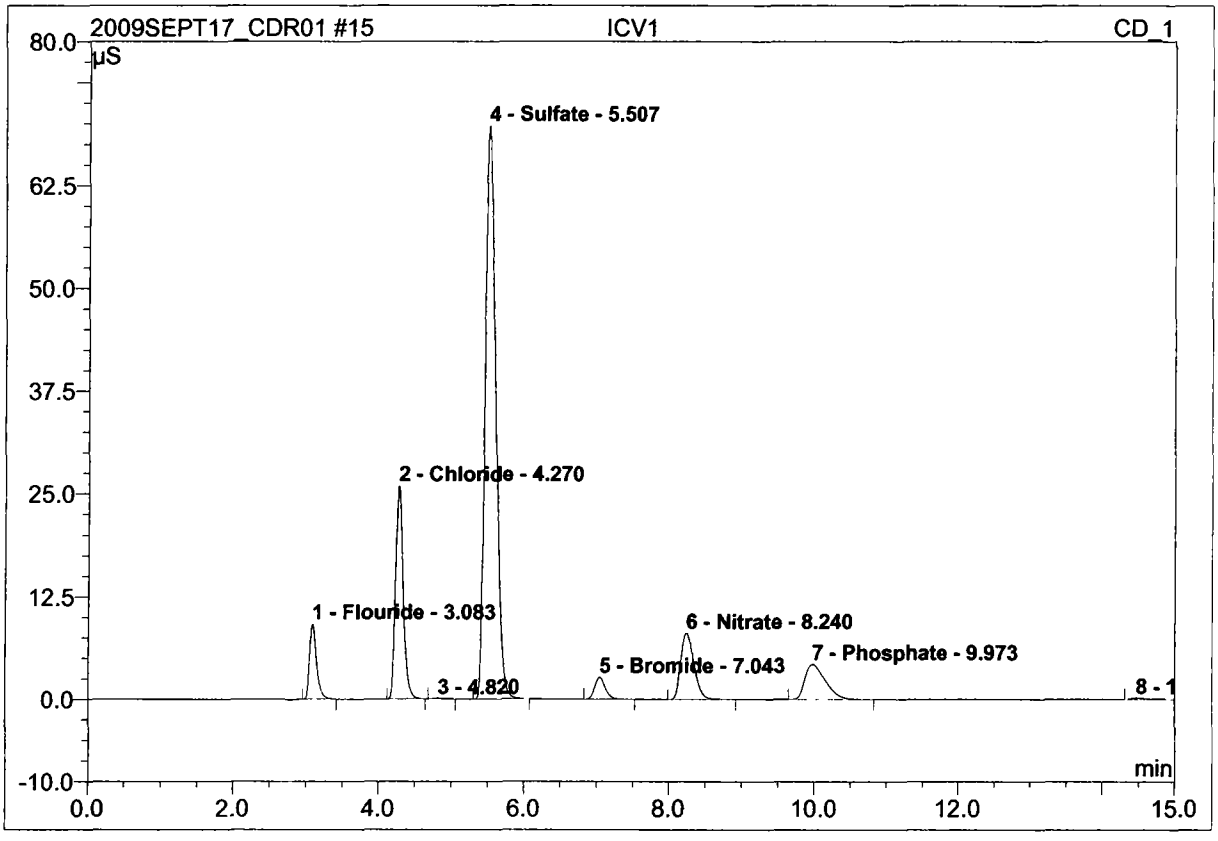
Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 9:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.97	n.a.	0.131	0.104	90.79	n.a.	BMB
2	4.82	n.a.	0.065	0.011	9.21	n.a.	BMB
Total:			0.196	0.115	100.00	0.000	

15 ICV1

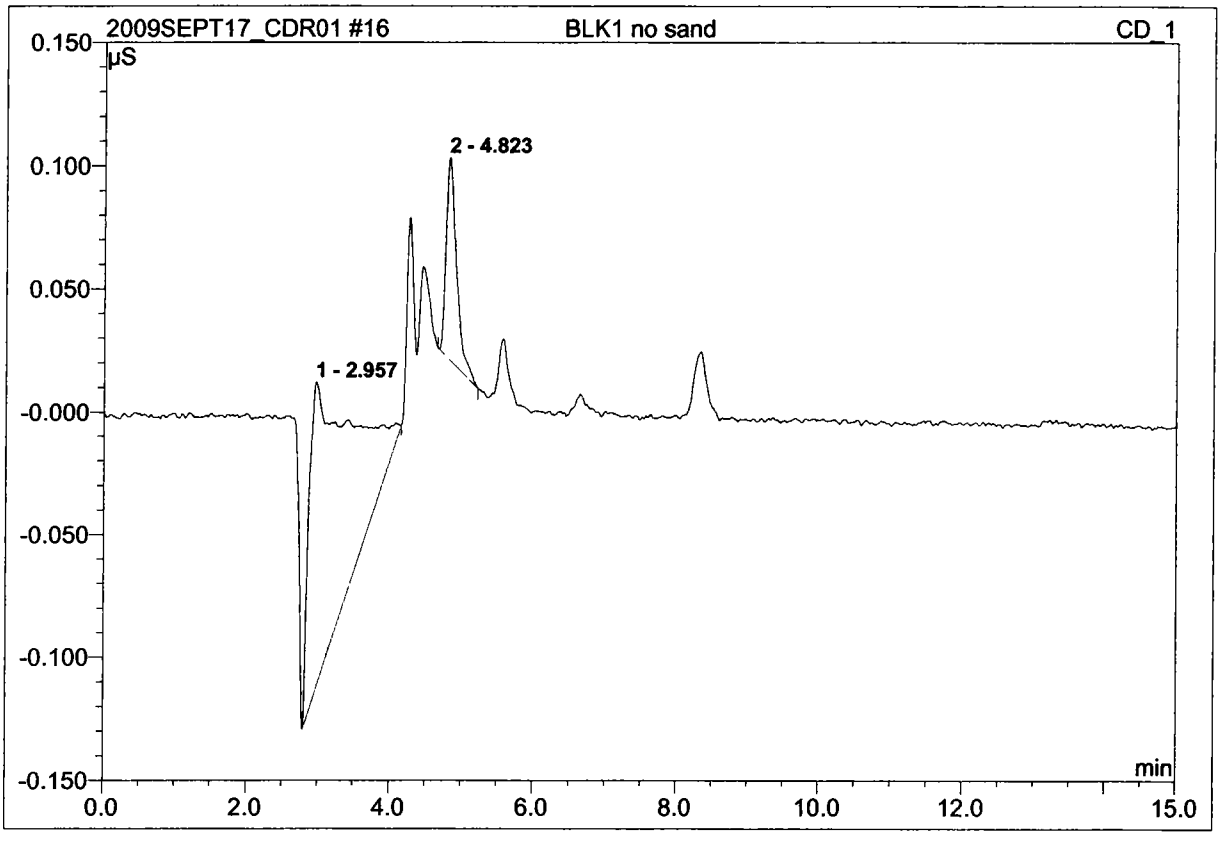
Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 10:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.202	1.001	5.05	2.240	BMB
2	4.27	Chloride	25.968	3.166	15.98	11.727	BMB
3	4.82	n.a.	0.081	0.012	0.06	n.a.	BMB
4	5.51	Sulfate	69.731	12.038	60.74	60.626	BMB
5	7.04	Bromide	2.708	0.454	2.29	4.317	BMB
6	8.24	Nitrate	8.087	1.706	8.61	11.653	BMB
7	9.97	Phosphate	4.280	1.398	7.06	17.115	BMB
8	14.46	n.a.	0.182	0.042	0.21	n.a.	BMB
Total:			120.238	19.818	100.00	107.678	

16 BLK1 no sand

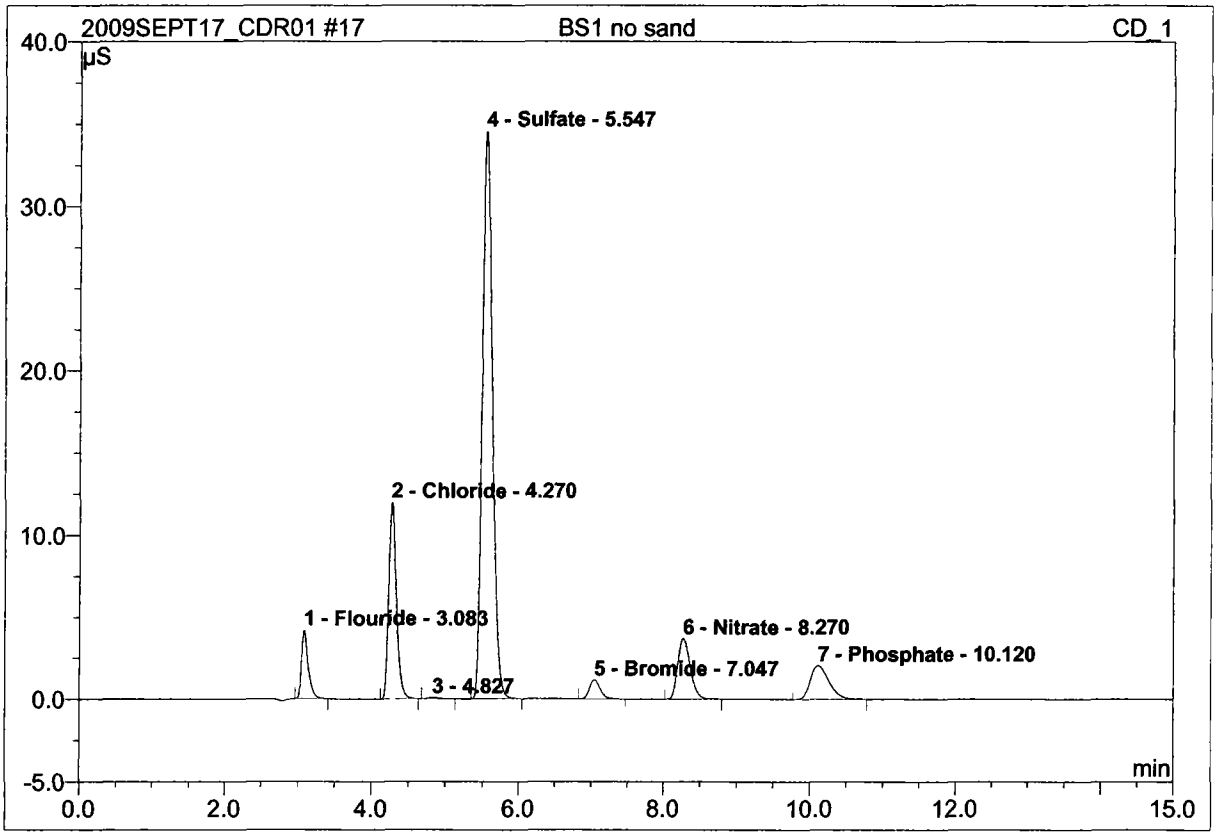
Sample Name:	**BLK1 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 10:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.126	0.080	85.08	n.a.	BMB
2	4.82	n.a.	0.082	0.014	14.92	n.a.	BMB
Total:			0.208	0.094	100.00	0.000	

17 BS1 no sand

Sample Name:	**BS1 no sand**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 10:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

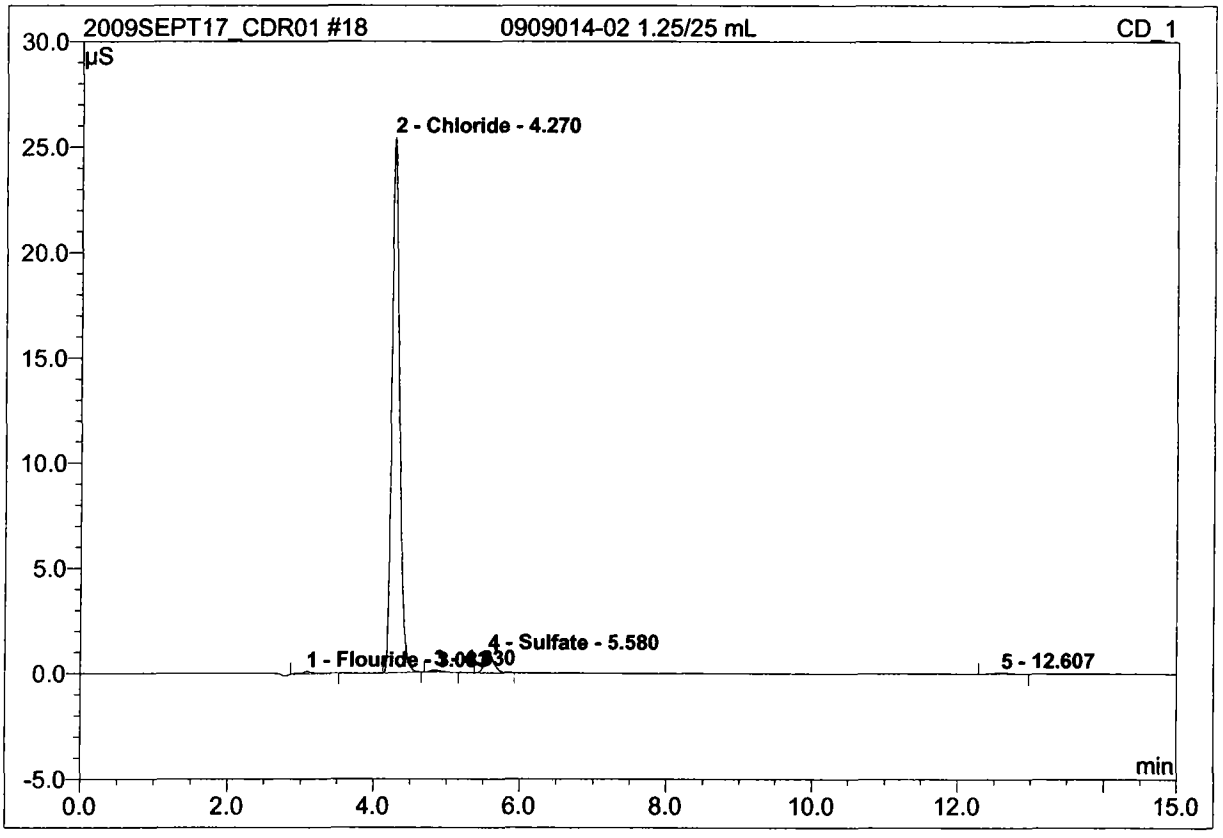


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	4.206	0.444	4.94	1.007	BMB
2	4.27	Chloride	11.982	1.434	15.94	5.375	BMB
3	4.83	n.a.	0.069	0.011	0.13	n.a.	BMB
4	5.55	Sulfate	34.557	5.568	61.90	28.113	BMB
5	7.05	Bromide	1.157	0.195	2.17	1.973	BMB
6	8.27	Nitrate	3.698	0.741	8.24	5.155	BMB
7	10.12	Phosphate	2.045	0.602	6.69	7.583	BMB
Total:			57.715	8.996	100.00	49.207	

18 0909014-02 1.25/25 mL

Chloride dilution

Sample Name:	**0909014-02 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 11:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



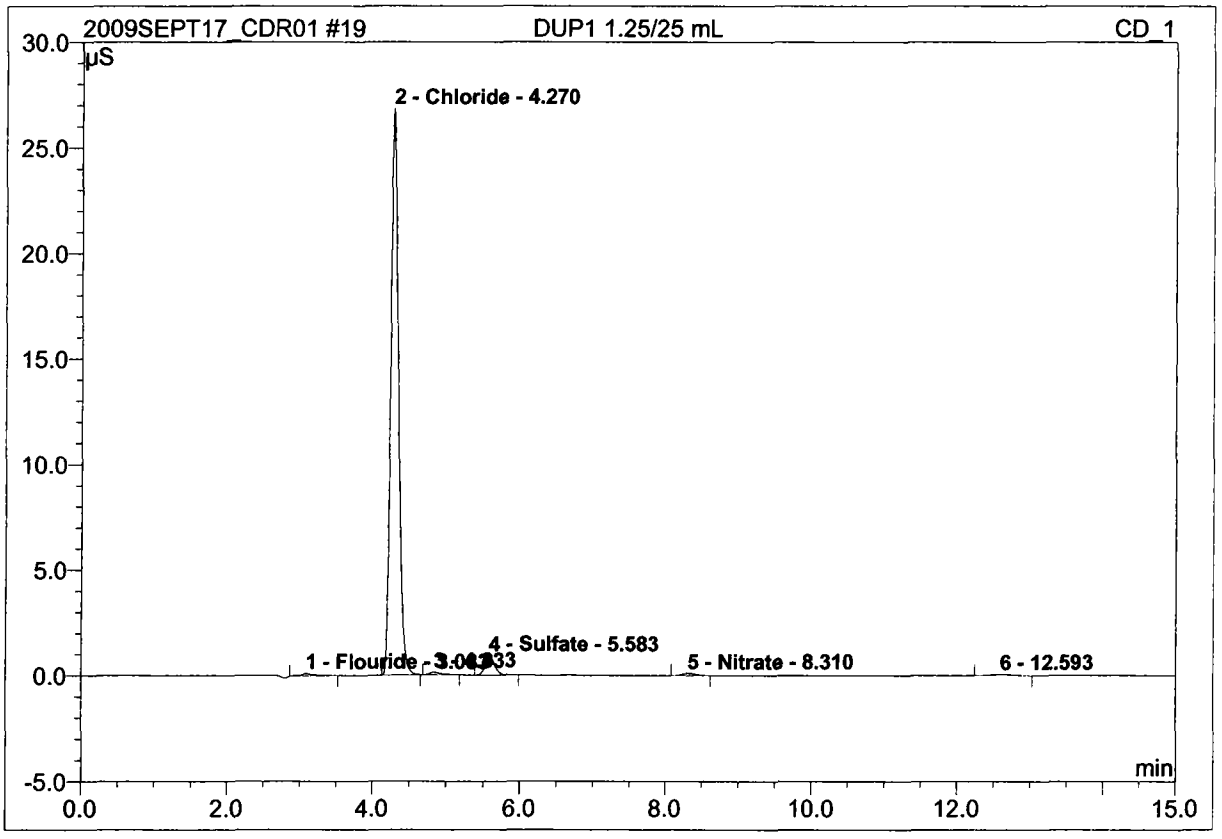
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.119	0.022	0.67	0.088	BMB
2	4.27	Chloride	25.441	3.103	94.21	11.496	BMB
3	4.83	n.a.	0.101	0.017	0.51	n.a.	BMB
4	5.58	Sulfate	0.884	0.134	4.06	0.803	BMB
5	12.61	n.a.	0.060	0.018	0.55	n.a.	BMB
Total:			26.606	3.294	100.00	12.387	

19 DUP1 1.25/25 mL

Source 0909014-02

Chloride dilution

Sample Name:	**DUP1 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 11:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



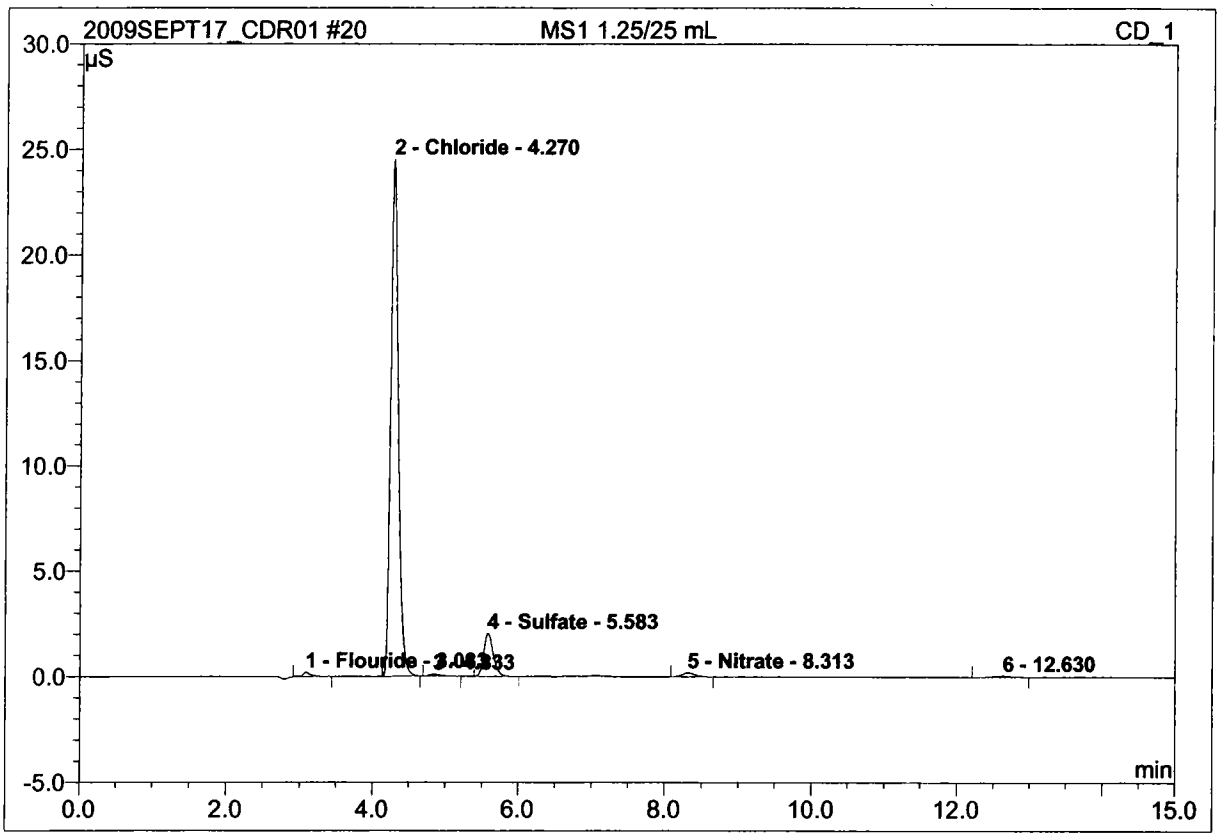
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.124	0.023	0.67	0.091	BMB
2	4.27	Chloride	26.839	3.276	93.48	12.129	BMB
3	4.83	n.a.	0.129	0.022	0.63	n.a.	BMB
4	5.58	Sulfate	0.936	0.142	4.05	0.845	BMB
5	8.31	Nitrate	0.104	0.021	0.60	0.269	BMB
6	12.59	n.a.	0.063	0.020	0.57	n.a.	BMB
Total:			28.196	3.504	100.00	13.333	

20 MS1 1.25/25 mL

Soure 0909014-02

Chloride dilution

Sample Name:	**MS1 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 11:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**

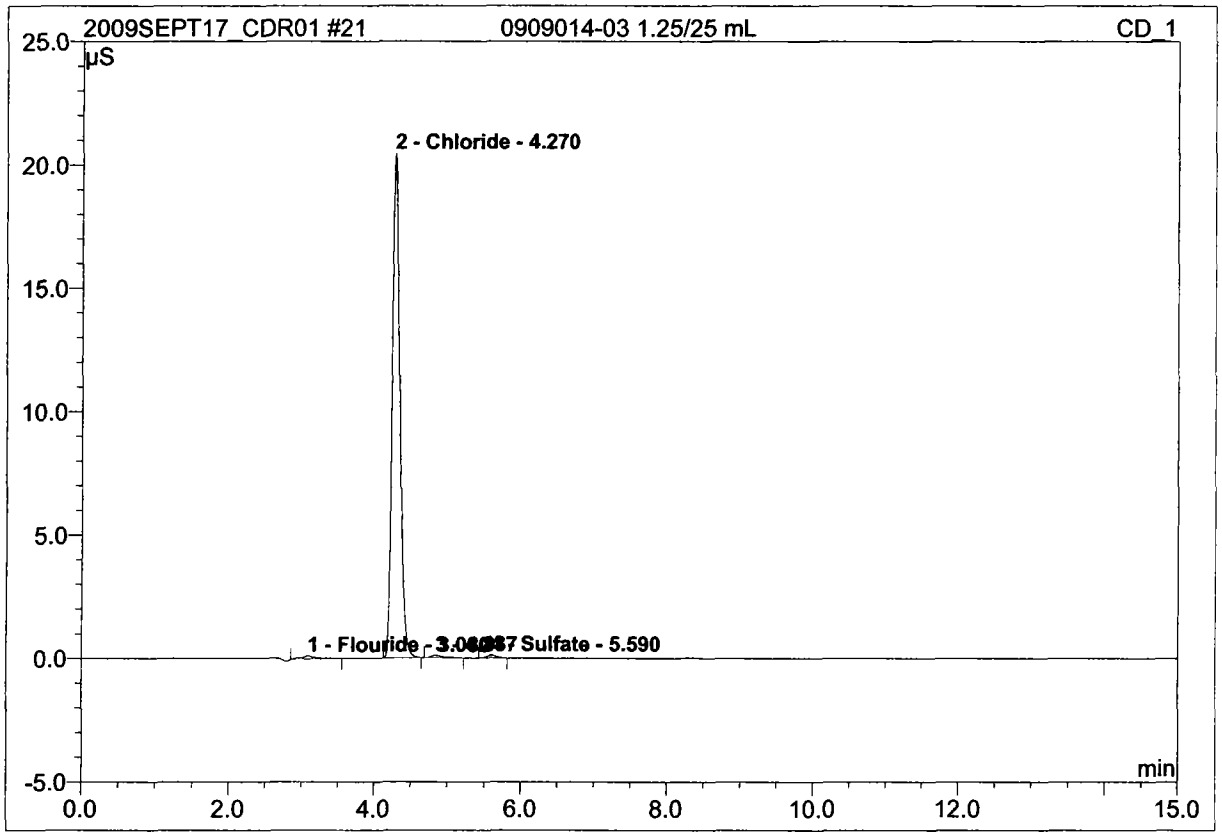


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.201	0.025	0.72	0.093	BMB
2	4.27	Chloride	24.524	2.986	88.15	11.067	BMB
3	4.83	n.a.	0.092	0.015	0.45	n.a.	BMB
4	5.58	Sulfate	2.038	0.305	9.01	1.665	BMB
5	8.31	Nitrate	0.185	0.037	1.10	0.381	BMB
6	12.63	n.a.	0.059	0.019	0.56	n.a.	BMB
Total:			27.098	3.388	100.00	13.206	

21 0909014-03 1.25/25 mL

Chloride dilution

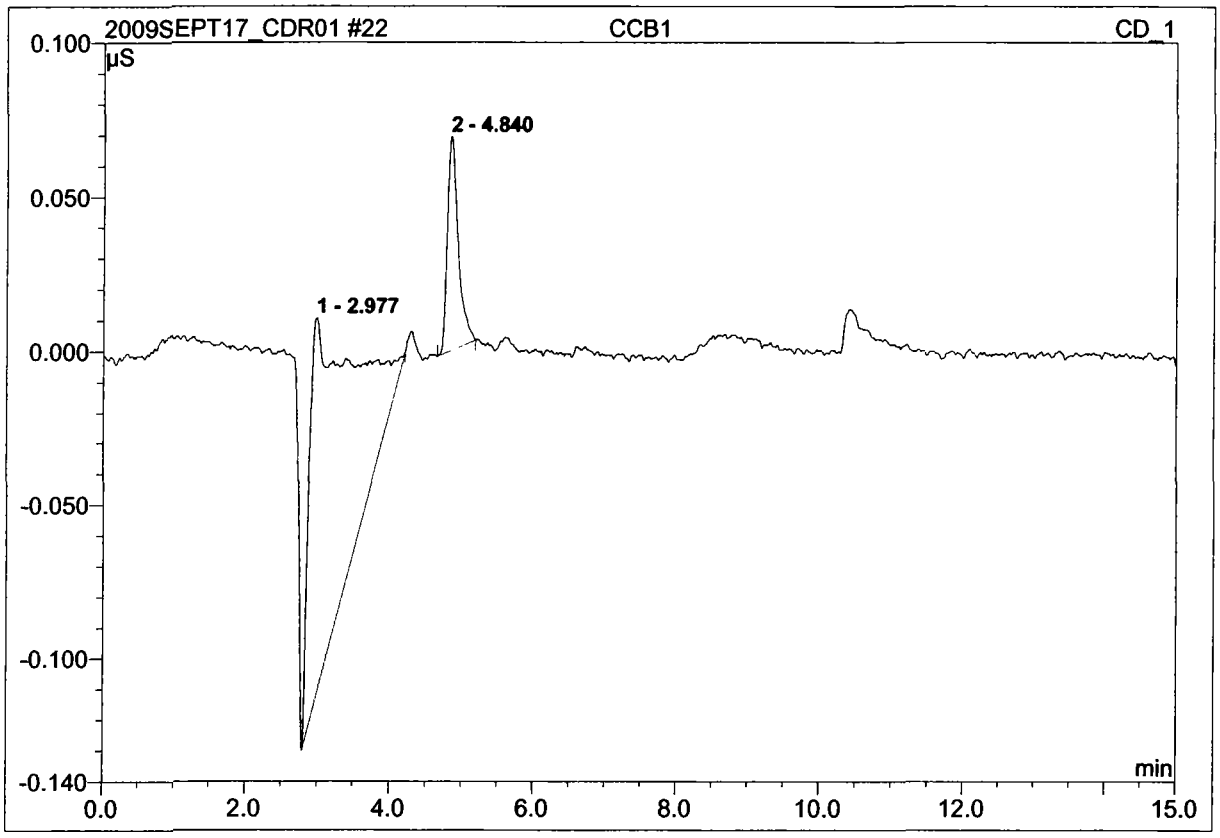
Sample Name:	**0909014-03 1.25/25 mL**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 11:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	0.136	0.030	1.17	0.105	BMB
2	4.27	Chloride	20.469	2.478	97.47	9.204	BMB
3	4.84	n.a.	0.096	0.017	0.65	n.a.	BMB
4	5.59	Sulfate	0.118	0.018	0.71	0.221	BMB
Total:			20.819	2.543	100.00	9.530	

22 CCB1

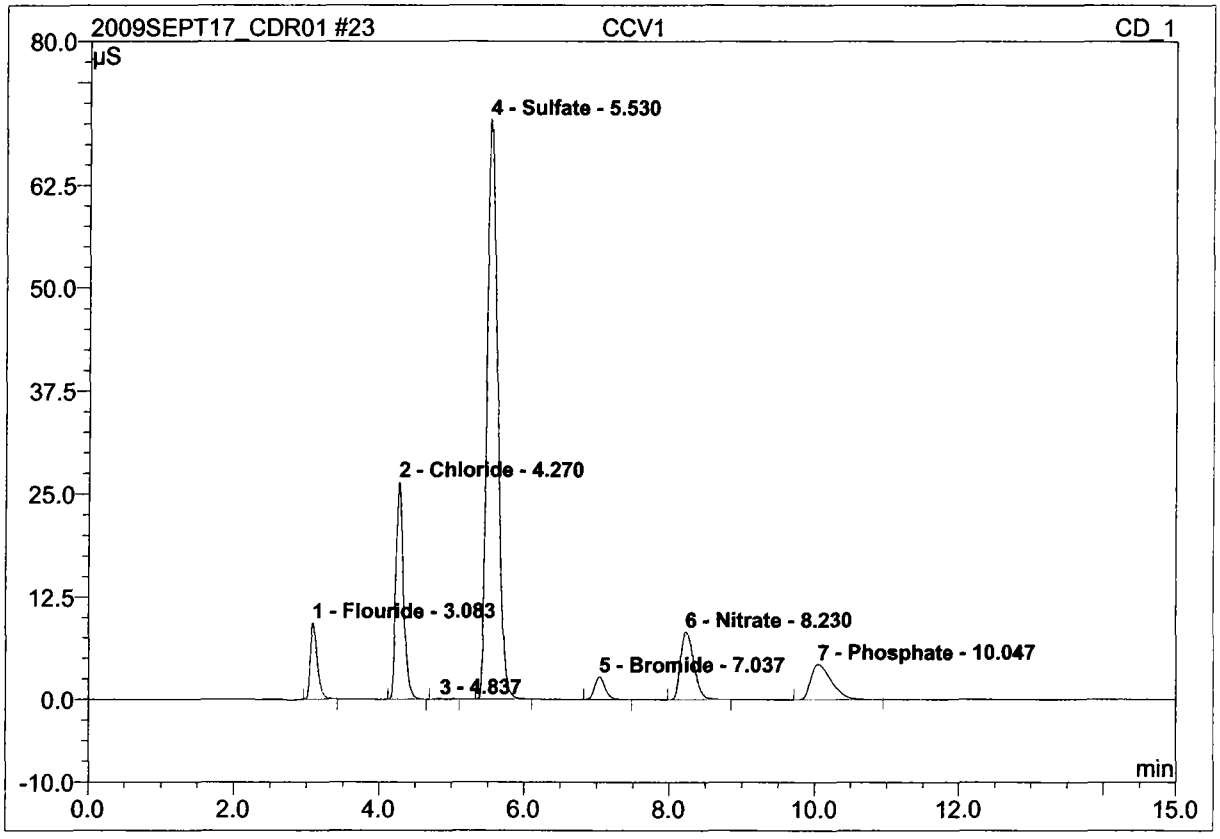
Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 12:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	n.a.	0.123	0.080	86.83	n.a.	BMB
2	4.84	n.a.	0.070	0.012	13.17	n.a.	BMB
Total:			0.193	0.092	100.00	0.000	

23 CCV1

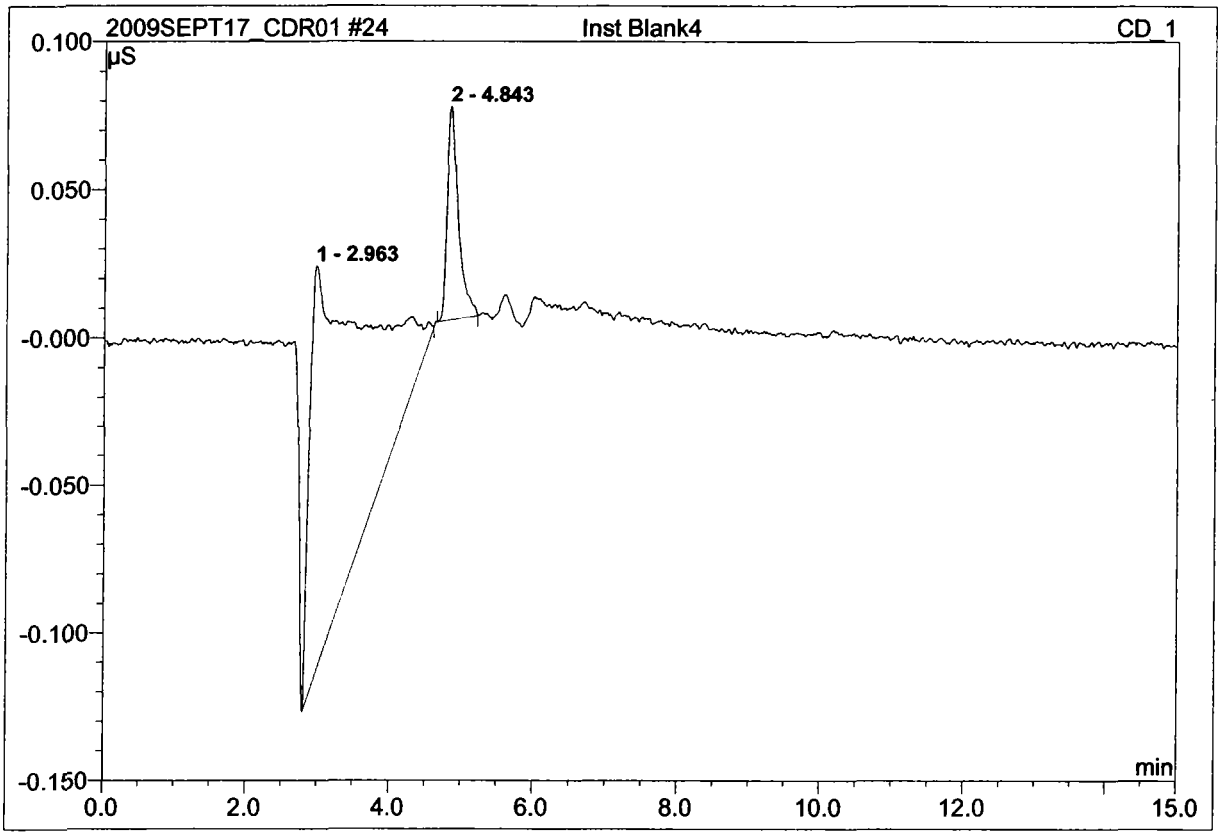
Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 12:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Flouride	9.396	1.020	5.07	2.282	BMB
2	4.27	Chloride	26.509	3.225	16.02	11.941	BMB
3	4.84	n.a.	0.084	0.013	0.07	n.a.	BMB
4	5.53	Sulfate	70.522	12.245	60.84	61.665	BMB
5	7.04	Bromide	2.768	0.462	2.30	4.388	BMB
6	8.23	Nitrate	8.273	1.740	8.64	11.880	BMB
7	10.05	Phosphate	4.311	1.421	7.06	17.381	BMB
Total:			121.862	20.125	100.00	109.537	

24 Inst Blank4

Sample Name:	**Inst Blank4**	*Injection Volume:*	**25.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions_AS18**	*Bandwidth:*	**n.a.**
Quantif. Method:	**default**	*Dilution Factor:*	**1.0000**
Recording Time:	**9/17/2009 12:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.96	n.a.	0.138	0.114	89.76	n.a.	BMB
2	4.84	n.a.	0.072	0.013	10.24	n.a.	BMB
Total:			0.210	0.127	100.00	0.000	

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/10/2009

ATTACHMENT I
PREPARATION LOG FOR ANIONS IN SOIL AND SEDIMENT SAMPLES

Date: 9/10/2009
Analyst (initials): AA
Extraction Solution: **De-ionized water**

Batch Number: B909013

Method: Anions by IC

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	0908021-01					10.64	50	
	0909005-01					10.56	50	
	0909005-02					10.84	50	
	0909005-03					10.26	50	*
	0909005-04					10.43	50	*
	0909005-05					10.09	50	*
	0909005-06					10.66	50	
	0909005-07					10.31	50	
	0909006-01					10.06	50	*
	0909006-02					10.33	50	
	0909006-03					10.11	50	

Batch Comments: Balance # 8

Comments: * samples were filtered through a 0.45 µm filter to remove particulates

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/10/2009

ATTACHMENT I
PREPARATION LOG FOR ANIONS IN SOIL AND SEDIMENT SAMPLES

Date: 9/10/2009

Analyst (initials): AA

Extraction Solution: **De-ionized water**

Batch Number: B909013

Method: Anions by IC

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	0909006-04					10.53	50	
*	B909013-BLK1					10.08	50	ottawa sand LIMS# 9022301
*	B909013-BS1		Pre-Prep	9061222	3750	10.01	50	ottawa sand LIMS# 9022301
	B909013-DUP1	0909005-07				10.65	50	
	B909013-MS1	0909005-07	Pre-Prep	9061222	3750	10.27	50	

Batch Comments: * BLK & BS were prepared w/ both sand and no sand (for chloride & sulfate)

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date:

ATTACHMENT II

PREPARATION LOG FOR NITRATE AND NITRITE SOIL AND SEDIMENT SAMPLES

Date: _____

Analyst (initials): _____

Extraction Solution: **0.01 M KCl**

Batch Number: B90

Method: Anions

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comm
	0909006-02							
	0909006-01							
	B909013-BLK1							
	B909013-DUP1	0909005-07						
	B909013-BS1		Pre-Prep	9061222	3750			
	B909013-BS1		Pre-Prep					
	0909005-01							

Batch Comments:

ıts:

Environmental Protection Agency Region 5
Chicago Regional Laborator
536 South Clark Street, Chicago, IL 6060
Phone:(312)353-8370 Fax:(312)8

ATTACHMENT II

PREPARATION LOG FOR NITRATE AND NITRITE SOIL

Date: _____

Analyst (initials): _____

Extraction Solution: **0.01 M KCl**

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)		
	0909006-04							
	0909005-06							
	0909005-05							
	0909005-04							
	0909005-03							
	0909005-02							
	0909005-07							
	0908021-01							
	B909013-MS1	0909005-07	Pre-Prep	9061222	3750			
	B909013-MS1	0909005-07	Pre-Prep					
	0909006-03							

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/16/2009

ATTACHMENT I
PREPARATION LOG FOR ANIONS IN SOIL AND SEDIMENT SAMPLES

Date: 9-16-09
Analyst (initials): AA
Extraction Solution: **De-ionized water**

Batch Number: B909022

Method: Anions by IC

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	0909014-01					10.32g	50mL	
	0909014-02					10.30g	50mL	
	0909014-03					AA 9-16-09 ~~10.71g~~	50mL	10.30g
*	0909014-04					10.82g	50mL	
*	0909014-05					10.16g	50mL	
	B909022-BLK1					10.22g	50 mL	Ottawa sand LIMS#9022301
	B909022-BS1		Pre-Prep	9061222	3750	10.11g	50 mL	Ottawa sand LIMS#9022301
	B909022-DUP1	0909014-02				10.71g	50mL	
	B909022-MS1	0909014-02	Pre-Prep	9061222	3750	10.31g	50mL	

Balance #8

Batch Comments: * samples were filtered through a 0.45µm filter to remove particulates
-Blank & BS were prepared w/ sand and w/ no sand for chloride, sulfate & nitrate

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/16/2009

ATTACHMENT II
PREPARATION LOG FOR NITRATE AND NITRITE SOIL AND SEDIMENT SAMPLES

Batch Number: B909022
Method: QC

Date: _____

Analyst (initials): _____

Extraction Solution: **0.01 M KCl**

Number	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	Volume (mL)	Comments
	B909022-DUP1	0909014-02						
	B909022-MS1	0909014-02	Pre-Prep	9061222	3750			
	B909022-MS1	0909014-02	Pre-Prep					
	B909022-BS1		Pre-Prep	9061222	3750			
	B909022-BS1		Pre-Prep					
	B909022-BLK1							
	0909014-01							
	0909014-02							
	0909014-03							
	0909014-04							
	0909014-05							

Batch Comments:

Comments:

Environmental Prote n Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Da 9/15/2009

AUTOMATED ANALYZER BENCH SHEET

Date: 9-15-09

Analyst (initials): AA

Chloride Dilutions

Batch Number: B909013

Analyses Included On This Benchsheet

Anions by IC

Position	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Dilution		Comments
						Initial	Final	
	0908021-01					5.0mL	50mL	
	0909005-01					5.0mL	25mL	
	0909005-02					5.0mL	50mL	
	0909005-03					5.0mL	50mL	
	0909005-04					5.0mL	50mL	
	0909005-05					5.0mL	25mL	
	0909005-06					0.5mL	50mL	Also diluted for sulfate 5.0mL/10mL
	0909005-07					0.5mL	50mL	
	0909006-01					5.0mL	50mL	
	0909006-02					0.25mL	50mL	
	0909006-03					0.25mL	50mL	
	0909006-04					2.0mL	50mL	
	B909013-BLK1							

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/15/2009

AUTOMATED ANALYZER BENCH SHEET

Date: 9-15-09
Analyst (initials): AA

Batch Number: B909013

Analyses Included On This Benchsheet

Anions by IC

Position	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Dilution		Comments
						Initial	Final	
	B909013-BS1		Pre-Prep	9061222	3750			
	B909013-DUP1	0909005-07				0.5mL	50mL	
	B909013-MS1	0909005-07	Pre-Prep	9061222	3750	0.5mL	50mL	Also diluted for sulfate 5.0mL/10mL

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/17/2009

AUTOMATED ANALYZER BENCH SHEET

Batch Number: B909022

Date: 9-17-09

Analyst (initials): MA

Chloride Dilutions

Analyses Included On This Benchsheet

Anions by IC

Position	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Dilution		Comments
						Initial	Final	
	0909014-01					—	—	
	0909014-02					1.25mL	25mL	
	0909014-03					1.25mL	25mL	
	0909014-04					—	—	
	0909014-05					—	—	
	B909022-BLK1					—	—	
	B909022-BS1		Pre-Prep	9061222	3750	—	—	
	B909022-DUP1	0909014-02				1.25mL	25mL	
	B909022-MS1	0909014-02	Pre-Prep	9061222	3750	1.25mL	25mL	

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/6/2009 6:55:58AM**

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: **RCRA, LCD, US EPA Region 5** **Project Manager:** **George Schupp**
Project: **BASF Wyandotte, MI Sediments** **Project Number:** **03043.0.05.023.02.1.5.0000**

Report To:
Brian Freeman
RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: (312) 353-6057
Fax: (312) 353-2001

Date Due: Oct-20-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-03-09 10:48
Logged In By: Chi Tang Date Logged In: Sep-03-09 10:48

Samples Received at	5.6°C
Sample tags/labels	Yes
Seals Intact	Yes
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909005-01 T18-50-0.5-1.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:00	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:00	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:00	
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:00	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:00	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:00	
0909005-02 T18-50-1.0-3.0 [Soil] Sampled Sep-01-09 14:00 Eastern				**Split Sample**
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:00	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:00	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:00	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-15-09 13:00	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:00	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:00	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:00	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:00	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:00	

WORK ORDER

Printed: 10/6/2009 6:55:58AM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-03 T27-125-3.0-4.8 [Soil] Sampled Sep-01-09 14:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-08-09 13:50	
Anions by IC	Oct-20-09 12:00	45	Sep-29-09 13:50	
PCB by ASE	Oct-20-09 12:00	45	Sep-15-09 13:50	
Metals full ICP (S)	Oct-20-09 12:00	45	Feb-28-10 13:50	
Ammonia N DA	Oct-20-09 12:00	45	Sep-29-09 13:50	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-15-09 13:50	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-08-09 13:50	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-29-09 13:50	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-15-09 13:50	
0909005-04 T24-125-1.0-3.0 [Soil] Sampled Sep-02-09 09:05 Eastern				**Split Sample**
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 08:05	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 08:05	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 08:05	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 08:05	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 08:05	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 08:05	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 08:05	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 08:05	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 08:05	
0909005-05 T26-125-1.0-3.0 [Soil] Sampled Sep-02-09 10:30 Eastern				**Split Sample**
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 09:30	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 09:30	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 09:30	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 09:30	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 09:30	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 09:30	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 09:30	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 09:30	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 09:30	

WORK ORDER

Printed: 10/6/2009 6:55:58AM

0909005

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909005-06 T20-125-1.0-3.0 [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 13:45	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 13:45	
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 13:45	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 13:45	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 13:45	
0909005-07 T20-125-1.0-3.0 Duplicate [Soil] Sampled Sep-02-09 14:45 Eastern				**Split Sample**
Hg Total CVAA	Oct-20-09 12:00	45	Sep-30-09 13:45	
PCB by ASE	Oct-20-09 12:00	45	Sep-16-09 13:45	
Ammonia N DA	Oct-20-09 12:00	45	Sep-30-09 13:45	
Total % Dry Solids 105C	Sep-14-09 12:00	10	Sep-09-09 13:45	
Volatiles Full List x	Oct-20-09 12:00	45	Sep-16-09 13:45	
Anions by IC	Oct-20-09 12:00	45	Sep-30-09 13:45	
Solids, Dry Weight	Oct-20-09 12:00	45	Sep-09-09 13:45	
SVOA Expanded List	Oct-20-09 12:00	45	Sep-16-09 13:45	
Metals full ICP (S)	Oct-20-09 12:00	45	Mar-01-10 13:45	

Reviewed By

Date

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/6/2009 6:56:08AM**

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Oct-24-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-08-09 11:25
Logged In By: Chi Tang Date Logged In: Sep-08-09 11:45

Samples Received at	2.6°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909006-01 T27-150-1.0-3.0 [Soil] Sampled Sep-03-09 15:50 Eastern				**Split Sample**
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-10-09 14:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-17-09 14:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-17-09 14:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-01-09 14:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-02-10 14:50	
Anions by IC	Oct-24-09 12:00	45	Oct-01-09 14:50	
PCB by ASE	Oct-24-09 12:00	45	Sep-17-09 14:50	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-10-09 14:50	
0909006-02 T29-200-1.0-3.0 [Soil] Sampled Sep-04-09 10:20 Eastern				**Split Sample**
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 09:20	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-18-09 09:20	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 09:20	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 09:20	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 09:20	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 09:20	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 09:20	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 09:20	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 09:20	

WORK ORDER

Printed: 10/6/2009 6:56:08AM

0909006

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909006-03 T30-150-1.0-3.0 [Soil] Sampled Sep-04-09 11:40 Eastern				**Split Sample**
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 10:40	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 10:40	
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 10:40	
Volatiles Full List x	Oct-24-09 12:00	45	Sep-18-09 10:40	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 10:40	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 10:40	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 10:40	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 10:40	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 10:40	
0909006-04 T22-175-0.5-1.2 [Soil] Sampled Sep-04-09 13:50 Eastern				**Split Sample**
Total % Dry Solids 105C	Sep-18-09 12:00	10	Sep-11-09 12:50	
Hg Total CVAA	Oct-24-09 12:00	45	Oct-02-09 12:50	
Anions by IC	Oct-24-09 12:00	45	Oct-02-09 12:50	
Solids, Dry Weight	Oct-24-09 12:00	45	Sep-11-09 12:50	
SVOA Expanded List	Oct-24-09 12:00	45	Sep-18-09 12:50	
Metals full ICP (S)	Oct-24-09 12:00	45	Mar-03-10 12:50	
PCB by ASE	Oct-24-09 12:00	45	Sep-18-09 12:50	
Ammonia N DA	Oct-24-09 12:00	45	Oct-02-09 12:50	

Reviewed By

Date

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 10/6/2009 6:56:25AM**

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5 **Project Manager:** George Schupp
Project: BASF Wyandotte, MI Sediments **Project Number:** 03043.0.05.023.02.1.5.0000

Report To:
Brian Freeman, RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard, Chicago, IL 60604
Phone: (312) 353-6057, Fax: (312) 353-2001

Date Due: Oct-30-09 15:00 (45 day TAT)
Received By: Chi Tang Date Received: Sep-14-09 10:00
Logged In By: Chi Tang Date Logged In: Sep-14-09 11:58

Samples Received at	2.2°C
Sample tags/labels	Yes
Seals Intact	No
Received on ice	Yes
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0909014-01 T16-125-0.0-0.6 [Soil] Sampled Sep-11-09 10:55 Eastern				**Split Sample**
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 09:55	2nd priority
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 09:55	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 09:55	6th priority
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 09:55	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 09:55	1st priority
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 09:55	5th priority
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 09:55	3rd pirority
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 09:55	
0909014-02 T23-150-1.0-3.0 [Soil] Sampled Sep-11-09 15:00 Eastern				**Split Sample**
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:00	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:00	

WORK ORDER

Printed: 10/6/2009 6:56:25AM

0909014

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: BASF Wyandotte, MI Sediments
Project Manager: George Schupp
Project Number: 03043.0.05.023.02.1.5.0000

Analysis	Due	TAT	Expires	Comments
0909014-03 T23-150-5.0-6.2 [Soil] Sampled Sep-11-09 15:08 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 14:08	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 14:08	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 14:08	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 14:08	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 14:08	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 14:08	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 14:08	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 14:08	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 14:08	
0909014-04 T26-175-1.0-2.6 [Soil] Sampled Sep-11-09 17:00 Eastern				**Split Sample**
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 16:00	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 16:00	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 16:00	
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 16:00	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 16:00	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 16:00	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 16:00	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 16:00	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 16:00	
0909014-05 T26-175-0.5-1.0 [Soil] Sampled Sep-11-09 16:53 Eastern				**Split Sample**
Total % Dry Solids 105C	Oct-15-09 12:00	30	Sep-18-09 15:53	
Volatiles Full List x	Oct-30-09 12:00	45	Sep-25-09 15:53	
Ammonia N DA	Oct-30-09 12:00	45	Oct-09-09 15:53	
PCB by ASE	Oct-30-09 12:00	45	Sep-25-09 15:53	
Anions by IC	Oct-30-09 12:00	45	Oct-09-09 15:53	
Metals full ICP (S)	Oct-30-09 12:00	45	Mar-10-10 15:53	
Solids, Dry Weight	Oct-30-09 12:00	45	Sep-18-09 15:53	
SVOA Expanded List	Oct-15-09 12:00	30	Sep-25-09 15:53	
Hg Total CVAA	Oct-30-09 12:00	45	Oct-09-09 15:53	

Reviewed By

Date

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/21/2009

ATTACHMENT IV
AMMONIA, TKN, TP AND COD FOR SOIL SAMPLES

Date: 09/23/09

Analyst (initials): AA

Batch Number: B909033

Analyses Included On This Benchsheet

Ammonia N DA

DA Position	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	20% H2SO4 Volume (mL)	Final Volume (mL)	Comments
7	0909005-01					1.2024	~~.245~~	250	
10	0909005-02					1.4118	~~.245~~	250	
11	0909005-03					1.4043	~~.245~~	250	
12	0909005-04					1.1103	~~.245~~	250	
13	0909005-05					1.1491	~~.245~~	250	
14	0909005-06					1.4069	~~.245~~	250	
01	0909005-07					1.6581	~~.245~~	250	
02	0909006-01					1.1408	5	250	
03	0909006-02					1.9271	5	250	
04	0909006-03					1.5952	5	250	
05	0909006-04					1.3682	5	250	
06	0909014-01					1.0429	5	250	
07	0909014-02					1.2378	5	250	

Batch Comments: Balance #5

Comments:

+L – WCS Stock #9061204.13 #2

vtrol – WCS Stock # 9061205, 13 # 2

20% H_2SO_4 prep calculated by AA - LIMS # 9060202

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/21/2009

ATTACHMENT IV
AMMONIA, TKN, TP AND COD FOR SOIL SAMPLES

Date: 09/23/09

Analyst (initials): M.

Batch Number: B909033

Analyses Included On This Benchsheet

Ammonia N DA

DA Position	Sample Number	Source ID	Spike Type	Spike ID	Spike Amount (uL)	Weight (g)	20% H2SO4 Volume (mL)	Final Volume (mL)	Comments
08	0909014-03	—	—	—	—	1.4312	5	250	
09	0909014-04	—	—	—	—	1.7276	5	250	
10	0909014-05	—	—	—	—	1.1099	5	250	
5	B909033-BLK1	7111614	—	—	—	1.0003	5	250	
6	B909033-BS1	7111614	Pre-Prep	9061206	1250	1.0001	~~#245~~	250	#9061204-SPK stock
8	B909033-DUP1	0909005-01	—	—	—	1.5636	~~#245~~	250	
9	B909033-MS1	0909005-01	Pre-Prep	9061206	1250	1.1997	~~#245~~	250	#9061204-SPK stock

SPK #2
11. B909033-BS2
12. B909033-BS3
13. B909033-BS4
14. B909033-BS5

Spiked w/0.625mL of CNL Stock # 9061204 (SpkMx# 9061206)

Batch Comments: 09/30/09 Reagents —
2. Buffer: lot # 1014041, B#2 (09/16/09) LIMS# 9012901
3. Phenol: lot # 1014212 LIMS# 8121801
4. Hypocl⁻: lot # 1014031 LIMS# 9021901 (open 09/30/09)
5. Na Nitroprusside: lot # 1014042 LIMS# 9012902

Comments:

PREPARATION BENCH SHEET

Matrix: Soil

B909033

US EPA Region 5 Chicago Regional Laboratory

rinted: 10/6/2009 7:15:40AM

Prepared using: A&I - H2SO4 Extraction **(No Surrogate)**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
0909005-01	Ammonia N DA	Sep-23-09 00:00	1.2024	250					RA, LCD, US EPA Regio	
0909005-02	Ammonia N DA	Sep-23-09 00:00	1.4118	250					RA, LCD, US EPA Regio	
0909005-03	Ammonia N DA	Sep-23-09 00:00	1.4043	250					RA, LCD, US EPA Regio	
0909005-04	Ammonia N DA	Sep-23-09 00:00	1.1103	250					RA, LCD, US EPA Regio	
0909005-05	Ammonia N DA	Sep-23-09 00:00	1.1491	250					RA, LCD, US EPA Regio	
0909005-06	Ammonia N DA	Sep-23-09 00:00	1.4069	250					RA, LCD, US EPA Regio	
0909005-07	Ammonia N DA	Sep-23-09 00:00	1.6581	250					RA, LCD, US EPA Regio	
0909006-01	Ammonia N DA	Sep-23-09 00:00	1.1408	250					RA, LCD, US EPA Regio	
0909006-02	Ammonia N DA	Sep-23-09 00:00	1.9271	250					RA, LCD, US EPA Regio	
0909006-03	Ammonia N DA	Sep-23-09 00:00	1.5932	250					RA, LCD, US EPA Regio	
0909006-04	Ammonia N DA	Sep-23-09 00:00	1.3682	250					RA, LCD, US EPA Regio	
0909014-01	Ammonia N DA	Sep-23-09 00:00	1.0429	250					RA, LCD, US EPA Regio	1st priority
0909014-02	Ammonia N DA	Sep-23-09 00:00	1.2378	250					RA, LCD, US EPA Regio	
0909014-03	Ammonia N DA	Sep-23-09 00:00	1.4312	250					RA, LCD, US EPA Regio	
0909014-04	Ammonia N DA	Sep-23-09 00:00	1.7276	250					RA, LCD, US EPA Regio	
0909014-05	Ammonia N DA	Sep-23-09 00:00	1.1099	250					RA, LCD, US EPA Regio	
B909033-BLK1	QC	Sep-23-09 00:00	1.0003	250						
B909033-BS1	QC	Sep-23-09 00:00	1.0001	250	9061206		1250			
B909033-DUP1	QC	Sep-23-09 00:00	1.5636	250		0909005-01				
B909033-MS1	QC	Sep-23-09 00:00	1.1997	250	9061206	0909005-01	1250			

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

Matrix: Soil

B909033

US EPA Region 5 Chicago Regional Laboratory

rinted: 10/6/2009 7:15:40AM

Prepared using: A&I - H2SO4 Extraction **(No Surrogate)**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
Reagents 9060202 9021901 9012902 9012901 8121801										

Have to add rpStandard to database fields, insert subreport for rpStandards and format Standards: Suppress where Standards <> 6

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

STANDARD/REAGENT PREPARATION BENCH SHEET:

Parameter: Preparation of Sediment and Soil (NH_3N, TP, TKN, COD)
Standard/Reagent: 20% Sulfuric Acid
LIMS ID: 9100501

Chemicals used	Formula	Vendor	Lot Number	Weight (g) or Volume (mL)
Sulfuric Acid	LIMS # 8062406		—	50 mL

Final Volume: 250mL Prep. Date & Analyst Initials: 09/23/09 AM.

Expiration Date: ___/NA___

STANDARD/REAGENT PREPARATION BENCH SHEET:

Parameter: _____
Standard/Reagent: _____
LIMS ID: _____

Chemicals used	Formula	Vendor	Lot Number	Weight (g) or Volume (mL)

Final Volume: _____ Prep. Date & Analyst Initials: _____

Expiration Date: ____/_____/_____

Laboratory
Konelab User

30/09/2009 11:42 The Format Date is Day/Month/year

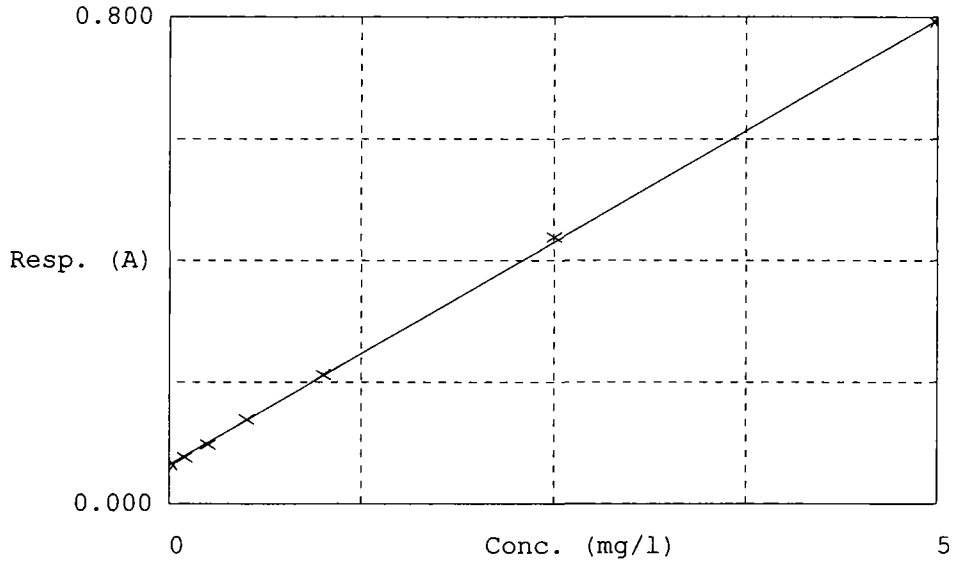
Test Ammonia

Accepted 30/09/2009 11:42

Factor 6.827
Bias 0.064

Coeff. of det. 0.999752

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NH3-0	0.063	-0.00574	0.00000	
2	NH3-5	0.076	0.08182	0.10000	
3	NH3-5	0.098	0.22804	0.25000	
4	NH3-5	0.139	0.50861	0.50000	
5	NH3-5	0.212	1.01117	1.00000	
6	NH3-5	0.439	2.55547	2.50000	
7	NH3-5	0.792	4.97063	5.00000	

Result Report AquaKem 7.0 Page: 1

Laboratory
Konelab User

*Date : 30/09/2009
Time : 12:35

*Format date is Day/month/year

Test Ammonia
Unit mg/l

Sample ID:	Result	Resp.	Date and Time	Blank	Dilut
ICB	-0.0244	0.061	30/09/2009 12:05	-0.000	
ICV	2.3453	0.408	30/09/2009 12:05	-0.000	
B909033-BLK1	-0.0374	0.059	30/09/2009 12:05	-0.000	
B909033-BS1 auto. dilution below		0.798	-	-0.000	
0909005-01	-0.0225	0.061	30/09/2009 12:05	0.001	
B909033-DUP1	-0.0695	0.054	30/09/2009 12:05	0.001	
B909033-MS1 auto. dilution below		0.819	-	0.001	
0909005-02	-0.0417	0.058	30/09/2009 12:05	0.001	
0909005-03	0.2669	0.103	30/09/2009 12:05	-0.000	
0909005-04	0.1283	0.083	30/09/2009 12:05	-0.000	
0909005-05	0.2728	0.104	30/09/2009 12:05	0.000	
0909005-06	0.0668	0.074	30/09/2009 12:05	0.002	
0909005-07	0.1080	0.080	30/09/2009 12:16	0.001	
0909006-01	0.2723	0.104	30/09/2009 12:16	0.000	
0909006-02	0.2256	0.097	30/09/2009 12:16	0.002	
0909006-03	0.1442	0.085	30/09/2009 12:16	0.001	
0909006-04	0.1379	0.085	30/09/2009 12:16	0.000	
0909014-01	0.1425	0.085	30/09/2009 12:16	-0.000	
0909014-02	0.0824	0.076	30/09/2009 12:16	0.001	
0909014-03	0.0728	0.075	30/09/2009 12:16	0.001	
0909014-04	0.2963	0.108	30/09/2009 12:16	0.000	
0909014-05	0.1725	0.090	30/09/2009 12:16	0.000	
ICB	0.0238	0.068	30/09/2009 12:16	0.000	
ICV	2.5158	0.433	30/09/2009 12:16	0.000	
B909033-BS2	2.7516	0.467	30/09/2009 12:22	-0.000	Not Reported (NR)
B909033-BS3	2.7220	0.463	30/09/2009 12:22	-0.000	
B909033-BS4	2.6600	0.454	30/09/2009 12:22	-0.000	
B909033-BS5	2.5971	0.445	30/09/2009 12:22	-0.000	
N.R. ICB	-0.0358	0.059	30/09/2009 12:25	-0.000	N.R.
N.R. ICV	2.5935	0.444	30/09/2009 12:25	-0.000	
B909033-BS1	5.0569	0.138	30/09/2009 12:31	-0.001	1+9.0
B909033-MS1	4.9387	0.137	30/09/2009 12:31	-0.000	1+9.0
ICB	-0.0107	0.063	30/09/2009 12:32	-0.000	
ICV	2.4536	0.424	30/09/2009 12:32	-0.000	
B909033-MS		-	-	-	

ANALYSIS SEQUENCE

9J05002

Instrument: DA-1

Calibnration ID: UNASSIGNED

Printed: 10/6/2009 7:17:30AM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
9J05002-CAL1	QC	NH3-0		1		9100503		
9J05002-CAL2	QC	NH3-5		2		9100504		
9J05002-CAL3	QC	NH3-5		3		9100505		
9J05002-CAL4	QC	NH3-5		4		9100506		
9J05002-CAL5	QC	NH3-5		5		9100507		
9J05002-CAL6	QC	NH3-5		6		9100508		
9J05002-CAL7	QC	NH3-5		7		9100502		
9J05002-ICB1	QC	ICB		8				
9J05002-ICV1	QC	ICV		9		9100509		
B909033-BLK1	QC	Blank		10				
0909005-01	Ammonia N DA	T18-50-0.5-1.0	C	11				
B909033-DUP1	QC	Duplicate		12				
0909005-02	Ammonia N DA	T18-50-1.0-3.0	C	13				
0909005-03	Ammonia N DA	T27-125-3.0-4.8	C	14				
0909005-04	Ammonia N DA	T24-125-1.0-3.0	C	15				
0909005-05	Ammonia N DA	T26-125-1.0-3.0	C	16				
0909005-06	Ammonia N DA	T20-125-1.0-3.0	C	17				
0909005-07	Ammonia N DA	T20-125-1.0-3.0 Dup	C	18				
0909006-01	Ammonia N DA	T27-150-1.0-3.0	C	19				
0909006-02	Ammonia N DA	T29-200-1.0-3.0	C	20				
0909006-03	Ammonia N DA	T30-150-1.0-3.0	C	21				
0909006-04	Ammonia N DA	T22-175-0.5-1.2	B	22				
0909014-01	Ammonia N DA	T16-125-0.0-0.6	C	23				1st priority

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

9J05002

Instrument: DA-1

Calibnration ID: UNASSIGNED

Printed: 10/6/2009 7:17:30AM

Lab Number	Analysis	Sample name or QC sample designation	Container	Order	Position	STD ID	ISTD ID	Comments
0909014-02	Ammonia N DA	T23-150-1.0-3.0	B	24				
0909014-03	Ammonia N DA	T23-150-5.0-6.2	B	25				
0909014-04	Ammonia N DA	T26-175-1.0-2.6	B	26				
0909014-05	Ammonia N DA	T26-175-0.5-1.0	B	27				
9J05002-CCB1	QC	ICB		28				
9J05002-CCV1	QC	ICV		29		9100509		
B909033-BS1	QC	LCS		30				
B909033-MS1	QC	Matrix Spike		31				
9J05002-CCB2	QC	ICB		32				
9J05002-CCV2	QC	ICV		33		9100509		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____