1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 13, 2008

Mr. Robert Kennedy
ENSR
2 Technology Park Drive
Westford, MA 01886

Re: Tronox Phase B Investigation Project #04020-023-4312
Submission # R2844803

Dear Mr. Kennedy:

Enclosed is the analytical data report for the above referenced facility. A total of seven samples were received by our laboratory on July 2-3, 2008.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,
COLUMBIA ANALYTICAL SERVICES

Janice M. Jaeger
Project Chemist

Enc.

Columbia Analytical Services, Inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Lab Submission # : R2844803
Project Manager : Janice Jaeger
Reported : 08/07/08

Report Contains a total of 1606 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

SDG NARRATIVE

CASE NARRATIVE

COMPANY: ENSR
Tronox Phase B Investigation Project #04030-023-4312
SUBMISSION #: R2844803

ENSR samples were collected on 07/01-02/08 and received at CAS on 07/02-03/08 in good condition. All Hexavalent Chromium samples were filtered in the field and then placed in sample bottles preserved with Ammonium sulfate and Sodium hydroxide.

INORGANICS

Five water samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on M-78B as requested. All MS recoveries were within limits except the second and third Cyanide analyses which were diluted out and have been flagged with a "D". All Blank spike recoveries were within limits. All RPD's were within limits.

Due to interferences caused by the sample matrix, all Cyanide samples were distilled at a 1:5 dilution. The client was notified and agreed to the 1:5 distillation.

M-55B, M-55DB and M-78B were originally analyzed straight for Cyanide at the 1:5 distillation, however either the actual sample or the duplicate read as a high negative value on the instrument. The sample was repeated at both a 1:5 dilution and a 1:20 dilution and the results did not coincide well between each other. The client was notified to this anomaly and all three sets of data, including the associated QC for M-78B has been reported out.

Total Organic Carbon for all of the samples was analyzed outside the recommended 28 day holding time but was analyzed within 56 days.

VOLATILE ORGANICS

Seven water samples were analyzed for a site specific list of Volatiles by Methods 5030/8260B from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on M-78B as requested. All MS/MSD recoveries were within limits except Dichlorofluoromethane and Styrene and have been flagged with an "*". All Reference spike recoveries were within Tronox limits except Dichlorodifluoromethane was outside limits high on the 07/14/08 and 07/15/08 LCS', 2-Hexanone was outside limits low on the 07/14/08 and 07/15/08 LCS' and Naphthalene was outside limits low on the 07/14/08 LCS and have been flagged with an "*". The outliers were within 60-140%. All RPD's were within limits.

TB070108GW2, EB070208GW1 and TB070208GW1 had low level hits for Acetone and tert-butyl alcohol. EB070208GW1 also had low level hits for 2-Butanone and 1,4-Dichlorobenzene.

The Laboratory blanks associated with these samples were free of contamination except the 07/14/08 blank contained a low level hit for tert-butyl alcohol. All affected data has been flagged with a "B".

Various compounds for M-78B have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

Five water samples were analyzed for a site specific list of Semivolatiles by method 8270C low level from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within limits.

Site specific QC was performed on M-78B as requested. Various MS/MSD recoveries were outside limits. All Blank spike/Blank spike duplicate recoveries were within Tronox limits except 1.4-Dioxane and Pyridine were outside limits low. All outliers were within 10-150%. All RPD's were within limits except the Anthracene, Benzo(k)fluoranthene and Pyridine RPD's for the MS/MSD. All outlying QC has been flagged with an "*".

The Laboratory Blanks associated with these analyses were free of contamination except the 07/07/08 blank contained low level hits for Acenaphthene, Diethylphthalate, Phenanthrene and Naphthalene. All affected data has been flagged with a "B".

EB070208GW1 had low level hit for various compounds.

All samples were extracted and analyzed within holding times.

No other analytical or QC problems were encountered.

PESTICIDES

Five water samples were analyzed for a site specific list of Pesticides by method 8081 from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within Tronox limits.

Site specific QC was performed on M-7BB as requested. All MS/MSD recoveries were within limits except Methoxychlor and Heptachlor epoxide on the MS only. All Blank spike/Blank spike duplicate recoveries were within limits. All RPD's were within limits except Heptachlor epoxide on the MS/MSD. All QC outliers have been flagged with an "*"

Various compounds for M-65B have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

EB070208GW1 had low level hits for delta-BHC, alpha Endosulfan and Heptachlor epoxide.

The Laboratory Blanks associated with these analyses were free of contamination.

All samples were extracted and analyzed within required holding times

No other analytical or QC problems were encountered.

PERCHLORATE, CHLORATE & METALS

Water samples were subcontracted to CAS-Kelso for Chlorate, Perchlorate and Metals analysis. Their complete data package has been included.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package have by authorized by the Laboratory Manager or his designee, as verified by the following signature.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#:M-55B	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2844803	DISKETTE REQUESTED: Y_X__ N____	DATE DUE: 7/22/08
CLIENT: ENSR International	DATE: 7/3/08	PROTOCC SW846
CLIENT REP: Janice Jaeger	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: TRONOX PHASE B INVESTIGAT	CHAIN OF CUSTODY: PRESENT/ABSENT:	

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITION
1114419	M-55B	WATER	8260,8270,8081,WET	7/1/2008	7/2/2008			
1114420	M-55DB	WATER	8260,8270,8081,WET	7/1/2008	7/2/2008			
1114421QC	M-78B	WATER	8260,8270,8081,WET	7/1/2008	7/2/2008			
1114422	TB070108GW2	WATER	8260	7/1/2008	7/2/2008			
1114756	M-65B	WATER	8260,8270,8081,WET	7/2/2008	7/3/2008			
1114758	EB070208GW1	WATER	8260,8270,8081,WET	7/2/2008	7/3/2008			
1114759	TB070208GW1	WATER	8260	7/2/2008	7/3/2008			

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

ORGANIC QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).

Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is ≥ 100% difference for the detected concentrations between the two GC columns.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

* - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY

INTERNAL CHAINS

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Page 1 of 1

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Number	P.O. # / Billing Information
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation	04020-023-4312	

Project Manager	Phone	Fax
Robert Kennedy	978-589-3324	978-589-3100

Email Address for Result Reporting: rkennedy@ensr.aecom.com

Sampler (Print & Sign): SARA WANG

Analysis Method and/or Analytes

Preservative Code: 8 0 1 5 0 0 0

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE KEY	Remarks
M-55B		7/01/08	07:44	WATER	2						X				
M-55B		7/01/08	07:44	WATER	1				X					0	ALK
M-55B		7/01/08	07:44	WATER	2					X					
M-55BF		7/01/08	07:44	WATER	1	X									
M-55B		7/01/08	07:44	WATER	1				X					3	NH_3, TPH
M-55B		7/01/08	07:44	WATER	1				X					4	tot CN
M-55B		7/01/08	07:44	WATER	1				X					0	TSS
M-55B		7/01/08	07:44	WATER	1				X					0	pH
M-55B		7/01/08	07:44	WATER	1				X					0	Cl, NO3, NO_2, SO4 BC, IC
M-55B		7/01/08	07:44	WATER	1				X					0	MBA/SURFACTANTS
~~M-55F~~															

Preservative Key

0	None
1	HCL
2	HNO_3
3	H_2SO_4
4	NaOH
5	various
6	Asc Acid
7	Other
8	buffer + NaOH

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/1/08	14:00		7/2/08	1000
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW1-1

Cooler / Blank / Ice / No Ice
Temperature 4-6°C

Water & Soil - Chain of Custody Record & Analytical Service Request
Rochester, NY

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Number	P.O. # / Billing Information
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation	04020-023-4312	
Project Manager: Robert Kennedy			
Phone: 978-589-3324	Fax: 978-589-3100		
Email Address for Result Reporting: rkennedy@ensr.aecom.com	Sampler (Print & Sign): SARA WANG		

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE KEY	Remarks
M-55DB		07/01/08		WATER	2	8						X				
M-55DB		7/01/08		WATER	1	0				X					0	ALK
M-55DB		7/01/08		WATER	2	0					X					
M-55DBF		7/01/08		WATER	1	0	X									
[redacted] SW						0										
M-55DB		7/01/08		WATER	1	5				X					3	NH_3, TP4
M-55DB		7/01/08		WATER	1	5				X					4	tot CN
M-55DB		7/01/08		WATER	1	5				X					0	TSS
M-55DB		7/01/08		WATER	1	5				X					0	pH
M-55DB		7/01/08		WATER	1	5				X					0	Cl, NO_3, NO_2, SO_4, Br, TDS
M-55DB		7/01/08		WATER	1	5				X					0	MBAS/SURFACTANTS

Preservative Key
0 None
1 HCL
2 HNO_3
3 H_2SO_4
4 NaOH
5 various
6 Asc Acid
7 Other
8 buffer + NaOH

Report Tier Levels - please select
Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/1/08	17:00		7/2/08	1000
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW1-1

Cooler / Blank / Ice / No Ice
Temperature 4.6 °C

MSD

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Page 1 of 1

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Manager	Phone	Fax	Email Address for Result Reporting	Sampler (Print & Sign)
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation Project Number: 04020-023-4312	Robert Kennedy P.O. # / Billing Information	978-589-3324	978-589-3100	rkennedy@ensr.aecom.com	Tom Shook/Tom Shook

Analysis Method and/or Analytes

Preservative Code: 8 0 1 5 0 0 0

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE KEY	Remarks
M-78B		7-1-08	8:40	W	2					X					
M-78B		7-1-08	8:40	W	2						X				
M-78B		7-1-08	8:40	W	1	X									
M-78B		7-1-08	8:40	W	1				X		[redacted]			0	Tot ALK
M-78B		7-1-08	8:40	W	1				X					3	TPO4 NH3
M-78B		7-1-08	8:40	W	1				X					4	Tot CN
M-78B		7-1-08	8:40	W	1				X					0	TSS
M-78B		7-1-08	8:40	W	1				X					0	pH
M-78B		7-1-08	8:40	W	1				X					0	MBA/Surfactant
M-78B		7-1-08	8:40	W	1				X					0	Cl, NO3, SO4, Br, TDS

Preservative Key

0	None
1	HCL
2	HNO_3
3	H_2SO_4
4	NaOH
5	various
6	Asc Acid
7	Other
8	buffer + NaOH

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes

EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)

(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Tom Shook	7-1-08	14:00	[signature]	7/2/08	1000
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW2-1

Cooler / Blank / Ice / No Ice

Temperature 4-6 °C

Water & Soil - Chain of Custody Record & Analytical Service Request
Rochester, NY

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Number	P.O. # / Billing Information
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation	04020-023-4312	

Project Manager	Phone	Fax
Robert Kennedy	978-589-3324	978-589-3100

Email Address for Result Reporting: rkennedy@ensr.aecom.com

Sampler (Print & Sign): Tom Shook / Tom Shook

Analysis Method and/or Analytes

Preservative Code: 8 0 1 5 0 0 0

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE	Remarks
TB070108GW2		7-1-08	8:40	W	3										
M-78B		7-1-08	8:40	W	3			X							
M-78B		7-1-08	8:40	W	3			TB	X					3	TOC
M-78B		7-1-08	8:40	W	2						X				
M-78B		7-1-08	8:40	W	2					X					
M-78D		7-1-08	8:40	W	1	X									
M-78B		7-1-08	8:40	W	1				X					3	NH_3 TPO_4
M-78B		7-1-08	8:40	W	1				X					4	tot CN
M-78B		7-1-08	8:40	W	1				X					0	pH
M-78B		7-1-08	8:40	W	1				X					0	Cl, NO_3, NO_2, SO_4, Br, TOC
M-78B		7-1-08	8:40	W	1				X					0	TSS

Preservative Key
0 None
1 HCL
2 HNO_3
3 H_2SO_4
4 NaOH
5 various
6 Asc Acid
7 Other
8 buffer + NaOH

Report Tier Levels - please select
Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Tom Shook	7-1-08	14:00	[signature]	7/2/08	1000
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW2-1

Cooler / Blank / Ice / No Ice
Temperature 4-6 °C

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	P.O. # / Billing Information
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation Project Number: 04020-023-4312	
Project Manager: Robert Kennedy		
Phone: 978-589-3324	Fax: 978-589-3100	
Email Address for Result Reporting: rkennedy@ensr.aecom.com	Sampler (Print & Sign)	

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	Remarks
M-78S		7-1-08	8:40	W	1	0				X					TOT ALK
M-78S		7-1-08	8:40	W	1	0				X					MBA/Surfactants
M-55B		7/01/08	7:44	WATER	3				X						
M-55B		7/01/08	7:44	WATER	3	3				X					TOC
M-55DB		7/01/08		WATER	3				X						
M-55DB		7/01/08		WATER	3	3				X					TOC
M-78S		7-1-08	8:40	W	3				X						MS
M-78S		7-1-08	8:40	W	3	3				X					TOC MS
M-78D		7-1-08	8:40	W	3				X						MSD
M-78S		7-1-08	8:40	W	3	3				X					TOC MSD

Preservative Key
0 None
1 HCL
2 HNO_3
3 H_2SO_4
4 NaOH
5 various
6 Asc Acid
7 Other
8 buffer + NaOH

Report Tier Levels - please select
Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Tom	7-1-08	14:00		7/1/08	1000
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW2-1

Cooler / Blank / Ice / No Ice
Temperature 4-12 °C

MS

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Number	P.O. # / Billing Information
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation	04020-023-4312	

Project Manager	Phone	Fax
Robert Kennedy	978-589-3324	978-589-3100

Email Address for Result Reporting: rkennedy@ensr.aecom.com

Sampler (Print & Sign): Tom Shook/Tom Hall

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	Remarks
M-78B		7-1-08	8:40	W	2						X				
M-78B		7-1-08	8:40	W	2							X			
M-78B		7-1-08	8:40	W	1		X								
M-78B		7-1-08	8:40	W	1	0				X					Tot ALK
M-78B		7-1-08	8:40	W	1	3				X					TPO4 NH3
M-78B		7-1-08	8:40	W	1	4				X					Tot CN
M-78B		7-1-08	8:40	W	1	0				X					TSS
M-78B		7-1-08	8:40	W	1	0				X					pH
M-78B		7-1-08	8:40	W	1	0				X					MBA/Surfactants
M-78B		7-1-08	8:40	W	1	0				X					Cl, NO3, SO4, Br, TDS

Preservative Key: 0 None; 1 HCL; 2 HNO_3; 3 H_2SO_4; 4 NaOH; 5 various; 6 Asc Acid; 7 Other; 8 buffer + NaOH

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes

EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Tom Hall	7-1-08	14:00	Amy Boutin	7/2/08	1000
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070108GW2-1

Cooler / Blank / Ice / No Ice

Temperature 4-6 °C

Cooler Receipt And Preservation Check Form

Project/Client ENSR Submission Number R2844803.

Cooler received on 7/2/08 by: HP/AH **COURIER:** CAS UPS (FEDEX) VELOCITY CLIENT

1.	Were custody seals on outside of cooler?			YES	(NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?			(YES)	NO	
3.	Did all bottles arrive in good condition (unbroken)?			(YES)	NO	
4.	Did any VOA vials have significant* air bubbles?			YES	(NO)	N/A
5.	Were **Ice** or **Ice packs** present?			(YES)	NO	
6.	Where did the bottles originate?			(CAS/ROC)	CLIENT	
7.	Temperature of cooler(s) upon receipt:	5°	4°	6	6°	6°
	Is the temperature within 0° - 6° C?:	(Yes)	(Yes)	(Yes)	(Yes)	(Yes)
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 7/2/08 1005

Thermometer ID: 161 / IR GUN#2 / (IR GUN#3) Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JWJ 7/2/08

Cooler Breakdown: Date: 7/2/08 by: HP

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH			WC8807261	11/10				
≤2	HNO_3								
≤2	H_2SO_4			WC85132D	04/09				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 031457, 05 042808-2, 051908-2, 042808-1

Other Comments:

PC Secondary Review: JWJ 7/3/08 *significant air bubbles are greater than 5-6 mm

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Page 1 of 1

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)
ENSR
2 Technology Park Drive
Westford, MA 01886-3140

Project Name
Tronox Phase B Investigation

Project Number: 04020-023-4312

Project Manager
Robert Kennedy

P.O. # / Billing Information

Phone 978-589-3324
Fax 978-589-3100

Email Address for Result Reporting
rkennedy@ensr.aecom.com

Sampler (Print & Sign)
SARA WANG /S TWS

Analysis Method and/or Analytes

Preservative Code: 8 0 1 5 0 0 0

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE	Remarks
M-65B		7/2/08	07:45	WATER	2						X				
M-65B		7/2/08	07:45	WATER	1				X					0	ALK
M-65B		7/2/08	07:45	WATER	2					X					
M-65BF		7/2/08	07:45	WATER	1	X									
M-65B		7/2/08	07:45	WATER	1				X					3	TPO4, NH3
M-65B		7/2/08	07:45	WATER	1				X					4	tot CN
M-65B		7/2/08	07:45	WATER	1				X					0	TSS
M-65B		7/2/08	07:45	WATER	1				X					0	pH
M-65B		7/2/08	07:45	WATER	1				X					0	Cl, NO3, NO2, SO4, Br, TDS
M-65B		7/2/08	07:45	WATER	1				X					0	MBA/SURFACTANTS

Preservative Key
0 None
1 HCL
2 HNO_3
3 H_2SO_4
4 NaOH
5 various
6 Asc Acid
7 Other
8 buffer + NaOH

Report Tier Levels - please select
Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes

EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
SW WS	7/2/08	09:00		7/3/08	945
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Reliquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 07208GW1-1

Cooler / Blank / Ice / No Ice
Temperature 4.5 °C

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Page 1 of 2

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)	Project Name	Project Number
ENSR 2 Technology Park Drive Westford, MA 01886-3140	Tronox Phase B Investigation	04020-023-4312

Project Manager	P.O. # / Billing Information
Robert Kennedy	

Phone	Fax
978-589-3324	978-589-3100

Email Address for Result Reporting	Sampler (Print & Sign)
rkennedy@ensr.aecom.com	SARA WANG/S WJ

Analysis Method and/or Analytes

Preservative Code: 8 0 1 5 0 0 0

Preservative Key: 0 None; 1 HCL; 2 HNO_3; 3 H_2SO_4; 4 NaOH; 5 various; 6 Asc Acid; 7 Other; 8 buffer + NaOH

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE KEY	Remarks
TB070208GW1		7/2/08	6:50	WATER	3										
EB070208GW1		7/2/08	6:50	WATER	3			X							
EB070208GW1		7/2/08	6:50	WATER	2						X				
EB070208GW1		7/2/08	6:50	WATER	1				X					0	ALK
EB070208GW1		7/2/08	6:50	WATER	2					X					
EB070208GW1		7/2/08	6:50	WATER	1	X									
EB070208GW1		7/2/08	6:50	WATER	1				X					3	TP_4, NH_3
EB070208GW1		7/2/08	6:50	WATER	1				X					4	tot CN
EB070208GW1		7/2/08	6:50	WATER	1				X					0	TSS
EB070208GW1		7/2/08	6:50	WATER	3				X					3	TOC
EB070208GW1		7/2/08	6:50	WATER	1				X					6	pH

Report Tier Levels - please select

Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X

MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)

(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/2/08	09:00		7/3/08	945
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070208GW1-1

Cooler / Blank / Ice / No Ice

Temperature 4.5 °C

Water & Soil - Chain of Custody Record & Analytical Service Request

Rochester, NY

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, NY 14609
Phone (585) 288-5380

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

CAS Project No.

CAS Contact: Janice Jaeger

Company Name & Address (Reporting Information)
ENSR
2 Technology Park Drive
Westford, MA 01886-3140

Project Name
Tronox Phase B Investigation

Project Number:
04020-023-4312

Project Manager
Robert Kennedy

P.O. # / Billing Information

Phone
978-589-3324

Fax
978-589-3100

Email Address for Result Reporting
rkennedy@ensr.aecom.com

Sampler (Print & Sign)
SARA WANG /S WG

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Preservative Code	Hexavalent Chromium (218.6)	TPH - diesel-range organics/oil-range organics (8015B)	VOCs (8260)	Wet Chemistry (Except chlorate & perchlorate)	Organochlorine Pesticides (OCPs) (8081A)	Semi-Volatile Organics (8270C)	Formaldehyde (8315A)	TPH - gasoline-range organics (8015B)	PRESERVATIVE Ref	Remarks
EB070208GW1		7/2/08	6:50	WATER	1					X					0	$Cl, NO_3, NO_2, SO_4, Br, TDS$
EB070208GW1		7/2/08	6:50	WATER	1					X					0	MBA/SURFACTANT
M-65B		7/2/08	7:45	WATER	3				X							
M-65B		7/2/08	7:45	WATER	3					X					3	TOC

Preservative Key
0 None
1 HCL
2 HNO_3
3 H_2SO_4
4 NaOH
5 various
6 Asc Acid
7 Other
8 buffer + NaOH

Report Tier Levels - please select
Tier I - (Results/Default if not specified) _____
Tier II (Results + QC) _____
Tier III (Data Validation Package) 10% Surcharge _____
Tier V (client specified) X
MRL required: Yes
MDL / PQL / J required: Yes
EDD required: Yes
Type: ENSR-specific

Project Requirements (MRLs, QAPP)
(See Contractual Specifications)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
SW WG	7/2/08	19:00	[illegible]	7/3/08	945
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Chain of Custody Number: 070208GW1-1

Cooler / Blank / Ice / No Ice
Temperature 4-5 °C

Cooler Receipt And Preservation Check Form

Project/Client GNSR Submission Number 828 44803.

Cooler received on 7/3/08 by: HP **COURIER:** CAS UPS ~~FEDEX~~ VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	YES	~~NO~~			
2.	Were custody papers properly filled out (ink, signed, etc.)?	~~YES~~	NO			
3.	Did all bottles arrive in good condition (unbroken)?	~~YES~~	NO			
4.	Did any VOA vials have significant* air bubbles?	YES	~~NO~~	N/A		
5.	Were **Ice** or **Ice packs** present?	~~YES~~	NO			
6.	Where did the bottles originate?	CAS/~~ROC~~,	CLIENT			
7.	Temperature of cooler(s) upon receipt:	4°	3°			
	Is the temperature within 0° - 6° C?:	~~Yes~~	~~Yes~~	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 7/3/08 1015

Thermometer ID: 161 ~~IR GUN#2~~ / IR GUN#3 Reading From: ~~Temp Blank~~ / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 7/3/08

Cooler Breakdown: Date: 7/3/08 by: HP

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	~~YES~~	NO
2.	Did all bottle labels and tags agree with custody papers?	~~YES~~	NO
3.	Were correct containers used for the tests indicated?	~~YES~~	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		~~N/A~~

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH	✓		WC80726	11/10
≤2	HNO_3				
≤2	H_2SO_4	✓		WC85132D	04/09
Residual Chlorine (-)	For TCN and Phenol	✓		If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
NaOH	~~Zn Acet~~a	-	-	WC85011C	11/10
	HCl	*	*	C08A13	05/09

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 031457, 042808-2, 051908-2, 050508-1, 8-116-002

Other Comments: 8-037-002

PC Secondary Review: JMS 7/7/08 *significant air bubbles are greater than 5-6 mm

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Lab ID: 1114419 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/2/2008

Container: 11144191

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐
07/31/08 15:59	cschrade	Wet Chemistry	Cooler 2	Analysis	☐
08/01/08 16:02	cschrade	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 111441910

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 11:49	bbowe	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 18:30	bbowe	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111441911

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111441912

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111441913

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐
07/03/08 7:21	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111441914

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 11144192

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:02	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Chain of Custody

Submission: **R2844803** *Client:* ENSR International

Container: 11144193

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144194

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/03/08 7:43	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144195

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144196

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144197

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:52	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144198

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/17/08 9:47	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 12:40	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11144199

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/02/08 14:50	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 8:30	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/15/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 18:39	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Lab ID: 1114420 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/2/2008

Container: 11144201

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:02	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Container: 111442010

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐
07/03/08 7:21	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442011

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442012

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111442013

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 11:49	bbowe	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 18:31	bbowe	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442014

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/17/08 9:47	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 12:40	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11144202

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:16	gesmeria	Wet Chemistry	LTS	Storage	☐
07/31/08 15:59	cschrade	Wet Chemistry	Cooler 2	Analysis	☐
08/04/08 16:09	cschrade	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11144203

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144204

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/03/08 7:43	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144205

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:52	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144206

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11144207

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/02/08 14:50	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 8:30	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/15/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 18:39	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	☐

Container: 11144208

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144209

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 3	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Lab ID: 1114421 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/2/2008

Container: 11144211

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:03	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐
07/31/08 15:59	cschrade	Wet Chemistry	Cooler 2	Analysis	☐
08/01/08 16:02	cschrade	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 111442110

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111442111

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442112

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/03/08 7:21	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442113

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/03/08 7:21	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442114

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111442115

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/03/08 7:21	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442116

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Chain of Custody

Submission: R2844803 Client: ENSR International

Container: 111442117

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111442118

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442119

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144212

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:02	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐
07/15/08 9:51	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/15/08 16:27	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Container: 111442120

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442121

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/03/08 7:44	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 111442122

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/03/08 7:44	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442123

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/03/08 7:44	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 14:29	nmead	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442124

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:52	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442125

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:52	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442126

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442127

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 111442128

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/02/08 14:50	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 8:30	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/03/08 16:44	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
07/08/08 19:42	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/15/08 12:38	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 18:39	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	☐

Container: 111442129

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144213

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111442130

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442131

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442132

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 111442133

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 11:49	bbowe	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 18:31	bbowe	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:21	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442134

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 11:50	bbowe	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 18:31	bbowe	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:21	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442135

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 17:24	bbowe	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 18:31	bbowe	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442136

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442137

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/17/08 9:47	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 12:40	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111442138

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144214

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:16	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11144215

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144216

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:04	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:15	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11144217

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 11144218

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 11144219

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:05	hpundt	Sample Management	Cooler 3	Storage	☐

Lab ID: 1114422 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/2/2008

Container: 11144221

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/02/08 14:02	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Lab ID: 1114756 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/3/2008

Container: 11147561

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/08/08 8:46	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/08/08 15:29	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
07/22/08 18:39	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	☐

Container: 111475610

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 111475611

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 111475612

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 8:34	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 17:17	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 111475613

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 11147562

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 14:00	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 11147563

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:49	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11147564

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 15:54	cschrade	Wet Chemistry	Cooler 2	Analysis	☐
08/01/08 16:02	cschrade	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147565

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:52	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:44	rjones	Sample Management	LTS	Storage	☐

Container: 11147566

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147567

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147568

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/17/08 9:47	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 12:40	cwoods	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 11147569

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/11/08 10:15	srobinso	Wet Chemistry	Cooler 2	Analysis	☐
07/11/08 17:36	srobinso	Wet Chemistry	Cooler 2	Storage	☐
07/17/08 8:03	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 14:24	nmead	Wet Chemistry	Cooler 2	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Lab ID: 1114758 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/3/2008

Container: 11147581

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:49	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

Container: 111475810

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/11/08 10:15	srobinso	Wet Chemistry	Cooler 2	Analysis	☐
07/11/08 17:36	srobinso	Wet Chemistry	Cooler 2	Storage	☐
07/17/08 8:03	nmead	Wet Chemistry	Cooler 2	Analysis	☐
07/17/08 14:24	nmead	Wet Chemistry	Cooler 2	Storage	☐

Container: 111475811

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 9:18	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 14:50	rpawl	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 111475812

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Container: 111475813

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 3	Storage	☐

Container: 111475814

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11147582

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/31/08 15:54	cschrade	Wet Chemistry	Cooler 2	Analysis	☐
08/01/08 16:02	cschrade	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147583

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147584

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 3	Storage	☐
07/07/08 7:53	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 11147585

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/09/08 8:34	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/09/08 17:17	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
08/05/08 8:43	rjones	Sample Management	LTS	Storage	☐

Container: 11147586

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 14:00	dmurphy	Organic Extractions	Analyst	Analysis	☑

Container: 11147588

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/08/08 8:46	ewolfe	Wet Chemistry	Cooler 2	Analysis	☐
07/08/08 15:29	ewolfe	Wet Chemistry	Cooler 2	Storage	☐
07/22/08 18:39	cwoods	Wet Chemistry	Cooler 2	Analysis	☐
07/22/08 19:05	cwoods	Wet Chemistry	Cooler 2	Storage	☐

Chain of Custody

Submission: **R2844803** ***Client:*** ENSR International

Container: 11147589

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:50	hpundt	Sample Management	Cooler 2	Storage	☐
07/07/08 7:53	kreynold	Wet Chemistry	Cooler 2	Analysis	☐
07/07/08 16:10	kreynold	Wet Chemistry	Cooler 2	Storage	☐
07/31/08 7:20	gesmeria	Wet Chemistry	LTS	Storage	☐

Lab ID: 1114759 ***Matrix*** WATER

Received into CAS-Rochester Custody: 7/3/2008

Container: 11147591

Date of Custody	User	Dept	Storage Location	Purpose	Empty
07/03/08 13:49	hpundt	Sample Management	Cooler 1	Storage	☐
07/14/08 16:36	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Analysis	☐
07/14/08 17:54	fnaegler	GC/MS Volatiles	Cooler 1 - S09	Storage	☐

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 1114421 ENSR International

Client ID: M-78B

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164472

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
ACETONE	125	3.80	140	109	110	85	24	30	50 - 150
BENZENE	125	0	140	112	140	112	0	30	70 - 130
BROMOBENZENE	125	0	120	96	120	96	0	30	70 - 130
BROMOCHLOROMETHANE	125	0	140	112	140	112	0	30	70 - 130
BROMODICHLOROMETHANE	125	0	120	96	120	96	0	30	70 - 130
BROMOFORM	125	9.00	120	89	120	89	0	30	70 - 130
BROMOMETHANE	125	0	140	112	140	112	0	30	50 - 150
2-BUTANONE (MEK)	125	0	110	88	110	88	0	30	50 - 150
TERT-BUTYL ALCOHOL	2500	6.80	2400	96	2400	96	0	30	50 - 150
METHYL-TERT-BUTYL ETHER	125	0	140	112	140	112	0	30	70 - 130
ETHYL-TERT-BUTYL ETHER	125	0	140	112	150	120	7	30	50 - 150
TERT-BUTYLBENZENE	125	0	120	96	130	104	8	30	70 - 130
SEC-BUTYLBENZENE	125	0	120	96	130	104	8	30	70 - 130
N-BUTYLBENZENE	125	0	120	96	130	104	8	30	70 - 130
CARBON TETRACHLORIDE	125	0.700	120	95	120	95	0	30	70 - 130
CHLOROBENZENE	125	0	120	96	120	96	0	30	70 - 130
CHLOROETHANE	125	0	150	120	150	120	0	30	70 - 130
CHLOROFORM	125	570	680	88	660	72	3	30	70 - 130
CHLOROMETHANE	125	0	150	120	150	120	0	30	70 - 130
1,2-DIBROMO-3-CHLOROPROPAN	125	0	100	80	100	80	0	30	50 - 150
2-CHLOROTOLUENE	125	0	120	96	120	96	0	30	70 - 130
4-CHLOROTOLUENE	125	0	120	96	120	96	0	30	70 - 130
DIBROMOCHLOROMETHANE	125	0.580	120	96	120	96	0	30	70 - 130
1,2-DIBROMOETHANE	125	0	120	96	120	96	0	30	70 - 130
DIBROMOMETHANE	125	0	120	96	120	96	0	30	70 - 130
1,2-DICHLOROBENZENE	125	0.580	120	96	120	96	0	30	70 - 130
1,4-DICHLOROBENZENE	125	1.10	120	95	120	95	0	30	70 - 130
1,3-DICHLOROBENZENE	125	0	120	96	120	96	0	30	70 - 130
DICHLORODIFLUOROMETHANE	125	0	170	136*	160	128	6	30	70 - 130
1,1-DICHLOROETHANE	125	0	140	112	140	112	0	30	70 - 130
1,2-DICHLOROETHANE	125	0	110	88	110	88	0	30	70 - 130
1,1-DICHLOROETHENE	125	0	150	120	160	128	6	30	70 - 130
TRANS-1,2-DICHLOROETHENE	125	0	150	120	150	120	0	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 1114421 ENSR International

Client ID: M-78B

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164472

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
CIS-1,2-DICHLOROETHENE	125	0	150	120	150	120	0	30	70 - 130
2,2-DICHLOROPROPANE	125	0	120	96	120	96	0	30	70 - 130
1,2-DICHLOROPROPANE	125	0	140	112	140	112	0	30	70 - 130
1,3-DICHLOROPROPANE	125	0	120	96	120	96	0	30	70 - 130
1,1-DICHLOROPROPENE	125	0	140	112	140	112	0	30	70 - 130
TRANS-1,3-DICHLOROPROPENE	125	0	130	104	130	104	0	30	70 - 130
CIS-1,3-DICHLOROPROPENE	125	0	130	104	140	112	7	30	70 - 130
ETHYLBENZENE	125	0	130	104	130	104	0	30	70 - 130
HEXACHLOROBUTADIENE	125	0	98.0	78	100	80	2	30	70 - 130
2-HEXANONE	125	0	93.0	74	93.0	74	0	30	70 - 130
DI-ISOPROPYL ETHER	125	0	140	112	140	112	0	30	50 - 150
ISOPROPYLBENZENE	125	0	130	104	130	104	0	30	70 - 130
P-ISOPROPYLTOLUENE	125	0	120	96	120	96	0	30	70 - 130
TERT-AMYL-METHYL ETHER	125	0	150	120	150	120	0	30	50 - 150
METHYLENE CHLORIDE	125	0	140	112	140	112	0	30	70 - 130
NAPHTHALENE	125	0	110	88	110	88	0	30	50 - 150
4-METHYL-2-PENTANONE	125	0	110	88	110	88	0	30	70 - 130
N-PROPYLBENZENE	125	0	130	104	130	104	0	30	70 - 130
STYRENE	125	0	21.0	17 *	18.0	14 *	15	30	70 - 130
1,1,1,2-TETRACHLOROETHANE	125	0	120	96	120	96	0	30	70 - 130
1,1,2,2-TETRACHLOROETHANE	125	0	120	96	130	104	8	30	70 - 130
TETRACHLOROETHENE	125	0.520	120	96	120	96	0	30	70 - 130
TOLUENE	125	0	140	112	140	112	0	30	70 - 130
1,2,4-TRICHLOROBENZENE	125	0	120	96	120	96	0	30	70 - 130
1,2,3-TRICHLOROBENZENE	125	0	110	88	120	96	9	30	70 - 130
1,1,1-TRICHLOROETHANE	125	0	130	104	130	104	0	30	70 - 130
1,1,2-TRICHLOROETHANE	125	0	130	104	130	104	0	30	70 - 130
TRICHLOROETHENE	125	13.0	140	102	150	110	7	30	70 - 130
TRICHLOROFLUOROMETHANE	125	0	130	104	130	104	0	30	70 - 130
1,2,3-TRICHLOROPROPANE	125	0	110	88	110	88	0	30	70 - 130
1,3,5-TRIMETHYLBENZENE	125	0	94.0	75	94.0	75	0	30	70 - 130
1,2,4-TRIMETHYLBENZENE	125	0	120	96	120	96	0	30	70 - 130
VINYL CHLORIDE	125	0	160	128	160	128	0	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 1114421 ENSR International

Client ID: M-78B

Test: 8260B.DOD

Analytical Units: UG/L

Run Number : 164472

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
M+P-XYLENE	250	0	260	104	260	104	0	30	70 - 130
O-XYLENE	125	0	130	104	140	112	7	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1120302 ANALYTICAL RUN # : 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	96	75 - 125
BENZENE	20.0	112	75 - 125
BROMOBENZENE	20.0	98	75 - 125
BROMOCHLOROMETHANE	20.0	111	75 - 125
BROMODICHLOROMETHANE	20.0	95	75 - 125
BROMOFORM	20.0	85	75 - 125
BROMOMETHANE	20.0	110	75 - 125
2-BUTANONE (MEK)	20.0	87	75 - 125
TERT-BUTYL ALCOHOL	400	91	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	104	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	108	75 - 125
TERT-BUTYLBENZENE	20.0	105	75 - 125
SEC-BUTYLBENZENE	20.0	107	75 - 125
N-BUTYLBENZENE	20.0	107	75 - 125
CARBON TETRACHLORIDE	20.0	95	75 - 125
CHLOROBENZENE	20.0	103	75 - 125
CHLOROETHANE	20.0	114	75 - 125
CHLOROFORM	20.0	111	75 - 125
CHLOROMETHANE	20.0	111	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	79	75 - 125
2-CHLOROTOLUENE	20.0	101	75 - 125
4-CHLOROTOLUENE	20.0	104	75 - 125
DIBROMOCHLOROMETHANE	20.0	92	75 - 125
1,2-DIBROMOETHANE	20.0	94	75 - 125
DIBROMOMETHANE	20.0	98	75 - 125
1,2-DICHLOROBENZENE	20.0	99	75 - 125
1,4-DICHLOROBENZENE	20.0	99	75 - 125
1,3-DICHLOROBENZENE	20.0	101	75 - 125
DICHLORODIFLUOROMETHANE	20.0	135 *	75 - 125
1,1-DICHLOROETHANE	20.0	109	75 - 125
1,2-DICHLOROETHANE	20.0	86	75 - 125
1,1-DICHLOROETHENE	20.0	124	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	119	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	118	75 - 125
2,2-DICHLOROPROPANE	20.0	114	75 - 125
1,2-DICHLOROPROPANE	20.0	114	75 - 125
1,3-DICHLOROPROPANE	20.0	96	75 - 125
1,1-DICHLOROPROPENE	20.0	112	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	99	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	108	75 - 125
ETHYLBENZENE	20.0	107	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1120302 ANALYTICAL RUN # : 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
HEXACHLOROBUTADIENE	20.0	100	75 - 125
2-HEXANONE	20.0	65 *	75 - 125
DI-ISOPROPYL ETHER	20.0	103	75 - 125
ISOPROPYLBENZENE	20.0	108	75 - 125
P-ISOPROPYLTOLUENE	20.0	106	75 - 125
TERT-AMYL-METHYL ETHER	20.0	108	75 - 125
METHYLENE CHLORIDE	20.0	109	75 - 125
NAPHTHALENE	20.0	90	75 - 125
4-METHYL-2-PENTANONE	20.0	74 *	75 - 125
N-PROPYLBENZENE	20.0	106	75 - 125
STYRENE	20.0	108	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	96	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	99	75 - 125
TETRACHLOROETHENE	20.0	103	75 - 125
TOLUENE	20.0	110	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	100	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	99	75 - 125
1,1,1-TRICHLOROETHANE	20.0	104	75 - 125
1,1,2-TRICHLOROETHANE	20.0	104	75 - 125
TRICHLOROETHENE	20.0	110	75 - 125
TRICHLOROFLUOROMETHANE	20.0	101	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	86	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	105	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	105	75 - 125
VINYL CHLORIDE	20.0	119	75 - 125
M+P-XYLENE	40.0	109	75 - 125
O-XYLENE	20.0	110	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1120308 ANALYTICAL RUN # : 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	97	75 - 125
BENZENE	20.0	110	75 - 125
BROMOBENZENE	20.0	97	75 - 125
BROMOCHLOROMETHANE	20.0	109	75 - 125
BROMODICHLOROMETHANE	20.0	96	75 - 125
BROMOFORM	20.0	85	75 - 125
BROMOMETHANE	20.0	107	75 - 125
2-BUTANONE (MEK)	20.0	88	75 - 125
TERT-BUTYL ALCOHOL	400	91	75 - 125
METHYL-TERT-BUTYL ETHER	20.0	108	75 - 125
ETHYL-TERT-BUTYL ETHER	20.0	115	75 - 125
TERT-BUTYLBENZENE	20.0	100	75 - 125
SEC-BUTYLBENZENE	20.0	103	75 - 125
N-BUTYLBENZENE	20.0	105	75 - 125
CARBON TETRACHLORIDE	20.0	92	75 - 125
CHLOROBENZENE	20.0	100	75 - 125
CHLOROETHANE	20.0	113	75 - 125
CHLOROFORM	20.0	111	75 - 125
CHLOROMETHANE	20.0	111	75 - 125
1,2-DIBROMO-3-CHLOROPROPANE	20.0	76	75 - 125
2-CHLOROTOLUENE	20.0	99	75 - 125
4-CHLOROTOLUENE	20.0	100	75 - 125
DIBROMOCHLOROMETHANE	20.0	90	75 - 125
1,2-DIBROMOETHANE	20.0	93	75 - 125
DIBROMOMETHANE	20.0	100	75 - 125
1,2-DICHLOROBENZENE	20.0	96	75 - 125
1,4-DICHLOROBENZENE	20.0	95	75 - 125
1,3-DICHLOROBENZENE	20.0	97	75 - 125
DICHLORODIFLUOROMETHANE	20.0	129 *	75 - 125
1,1-DICHLOROETHANE	20.0	109	75 - 125
1,2-DICHLOROETHANE	20.0	87	75 - 125
1,1-DICHLOROETHENE	20.0	120	75 - 125
TRANS-1,2-DICHLOROETHENE	20.0	117	75 - 125
CIS-1,2-DICHLOROETHENE	20.0	117	75 - 125
2,2-DICHLOROPROPANE	20.0	111	75 - 125
1,2-DICHLOROPROPANE	20.0	112	75 - 125
1,3-DICHLOROPROPANE	20.0	94	75 - 125
1,1-DICHLOROPROPENE	20.0	107	75 - 125
TRANS-1,3-DICHLOROPROPENE	20.0	101	75 - 125
CIS-1,3-DICHLOROPROPENE	20.0	109	75 - 125
ETHYLBENZENE	20.0	101	75 - 125

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B.DOD

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1120308 ANALYTICAL RUN # : 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
HEXACHLOROBUTADIENE	20.0	93	75 - 125
2-HEXANONE	20.0	66 *	75 - 125
DI-ISOPROPYL ETHER	20.0	111	75 - 125
ISOPROPYLBENZENE	20.0	103	75 - 125
P-ISOPROPYLTOLUENE	20.0	101	75 - 125
TERT-AMYL-METHYL ETHER	20.0	115	75 - 125
METHYLENE CHLORIDE	20.0	110	75 - 125
NAPHTHALENE	20.0	84	75 - 125
4-METHYL-2-PENTANONE	20.0	79	75 - 125
N-PROPYLBENZENE	20.0	102	75 - 125
STYRENE	20.0	105	75 - 125
1,1,1,2-TETRACHLOROETHANE	20.0	93	75 - 125
1,1,2,2-TETRACHLOROETHANE	20.0	100	75 - 125
TETRACHLOROETHENE	20.0	96	75 - 125
TOLUENE	20.0	107	75 - 125
1,2,4-TRICHLOROBENZENE	20.0	95	75 - 125
1,2,3-TRICHLOROBENZENE	20.0	94	75 - 125
1,1,1-TRICHLOROETHANE	20.0	101	75 - 125
1,1,2-TRICHLOROETHANE	20.0	104	75 - 125
TRICHLOROETHENE	20.0	105	75 - 125
TRICHLOROFLUOROMETHANE	20.0	99	75 - 125
1,2,3-TRICHLOROPROPANE	20.0	85	75 - 125
1,3,5-TRIMETHYLBENZENE	20.0	101	75 - 125
1,2,4-TRIMETHYLBENZENE	20.0	100	75 - 125
VINYL CHLORIDE	20.0	114	75 - 125
M+P-XYLENE	40.0	106	75 - 125
O-XYLENE	20.0	105	75 - 125

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK 1

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID: B1088.D Lab Sample ID: 1120301 1.0

Date Analyzed: 07/14/08 Time Analyzed: 17:09

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 1	1120302 1.0	B1086.D	15:42
02	TB070108GW2	1114422 1.0	B1091.D	18:39
03	EB070208GW1	1114758 1.0	B1092.D	19:09
04	TB070208GW1	1114759 1.0	B1093.D	19:38
05	M-55B	1114419 5.0	B1094.D	20:08
06	M-55DB	1114420 5.0	B1095.D	20:38
07	M-78B	1114421 2.5	B1096.D	21:08
08	M-65B	1114756 10.0	B1097.D	21:37
09	M-78B MS	1120303 2.5	B1102.D	00:06
10	M-78B MSD	1120304 2.5	B1103.D	00:35

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MET BLK 2

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID: B1114.D Lab Sample ID: 1120307 1.0

Date Analyzed: 07/15/08 Time Analyzed: 14:49

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS 2	1120308 1.0	B1112.D	13:40
02	M-78B DL	1114421 5.0	B1119.D	17:18

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID: B0768.D BFB Injection Date: 06/26/08

Instrument ID: MSVOA10 BFB Injection Time: 11:33

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	44.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	50.0 - 120.0% of mass 95	94.6
175	5.0 - 9.0% of mass 174	6.7 (7.1)1
176	95.0 - 101.0% of mass 174	89.9 (95.1)1
177	5.0 - 9.0% of mass 176	6.9 (7.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

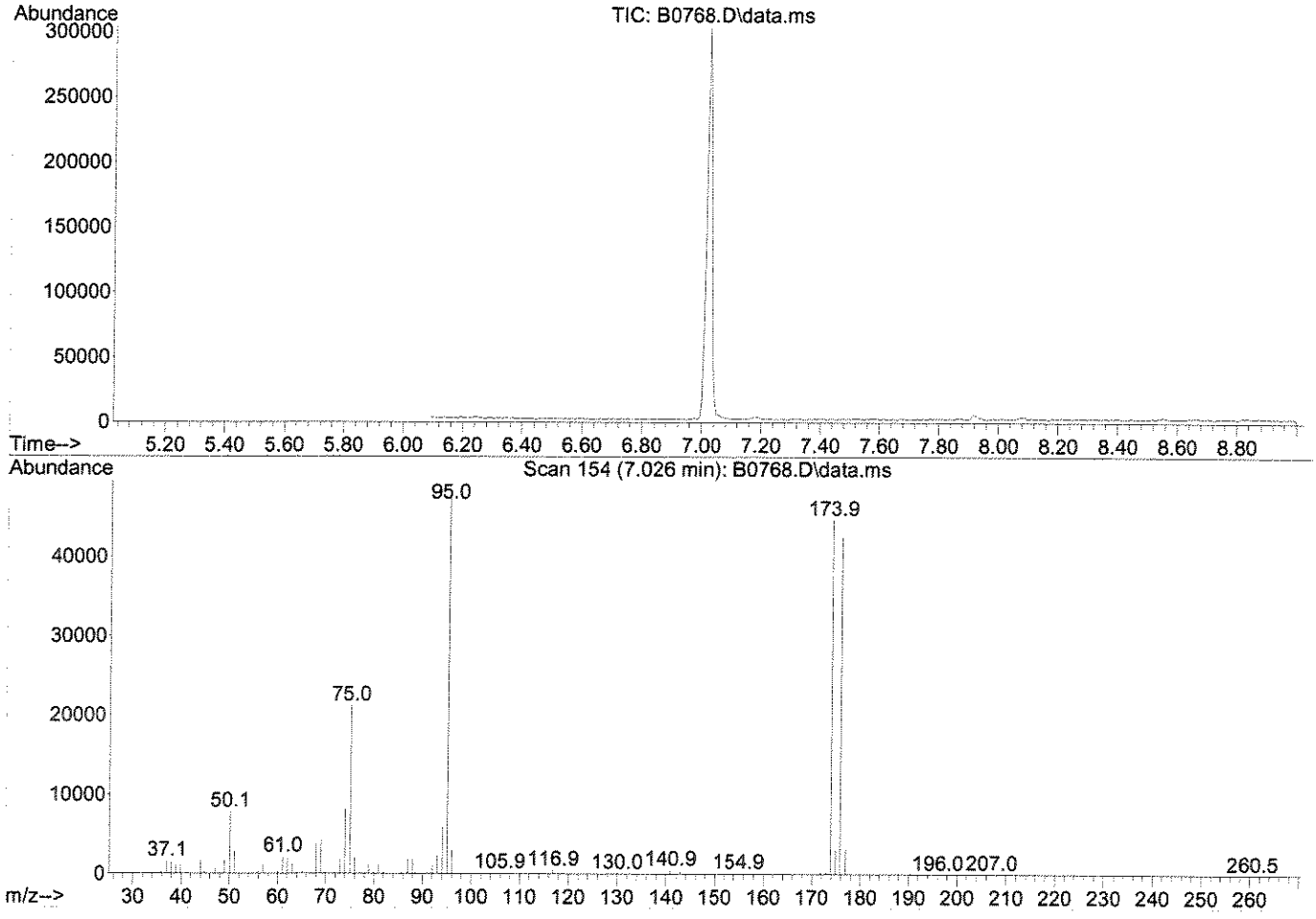
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INST BLANK	INST BLANK	B0769.D	06/26/08	12:11
02	0.5 STD	0.5 PPB STD	B0770.D	06/26/08	13:21
03	1.0 STD	1.0 PPB STD	B0771.D	06/26/08	13:51
04	2.0 STD	2.0 PPB STD	B0772.D	06/26/08	14:21
05	5.0 STD	5.0 PPB STD	B0773.D	06/26/08	14:50
06	10 STD	10 PPB STD	B0774.D	06/26/08	15:22
07	50 STD	50 PPB STD	B0775.D	06/26/08	15:52
08	100 STD	100 PPB STD	B0776.D	06/26/08	16:49
09	150 STD	150 PPB STD	B0777.D	06/26/08	17:19
10	200 STD	200 PPB STD	B0778.D	06/26/08	17:49

FN
6/26/08

Data Path : J:\ACQUDATA\msvoa10\data\062608\
Data File : B0768.D
Acq On : 26 Jun 2008 11:33 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 154

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	7842	PASS
75	95	30	60	44.9	21232	PASS
95	95	100	100	100.0	47328	PASS
96	95	5	9	6.3	2996	PASS
173	174	0.00	2	0.9	388	PASS
174	95	50	120	94.6	44768	PASS
175	174	5	9	7.1	3163	PASS
176	174	95	101	95.1	42552	PASS
177	176	5	9	7.6	3247	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID: B1084.D BFB Injection Date: 07/14/08

Instrument ID: MSVOA10 BFB Injection Time: 14:19

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.4 (0.7)1
174	50.0 - 120.0% of mass 95	62.8
175	5.0 - 9.0% of mass 174	5.2 (8.2)1
176	95.0 - 101.0% of mass 174	61.4 (97.8)1
177	5.0 - 9.0% of mass 176	4.3 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

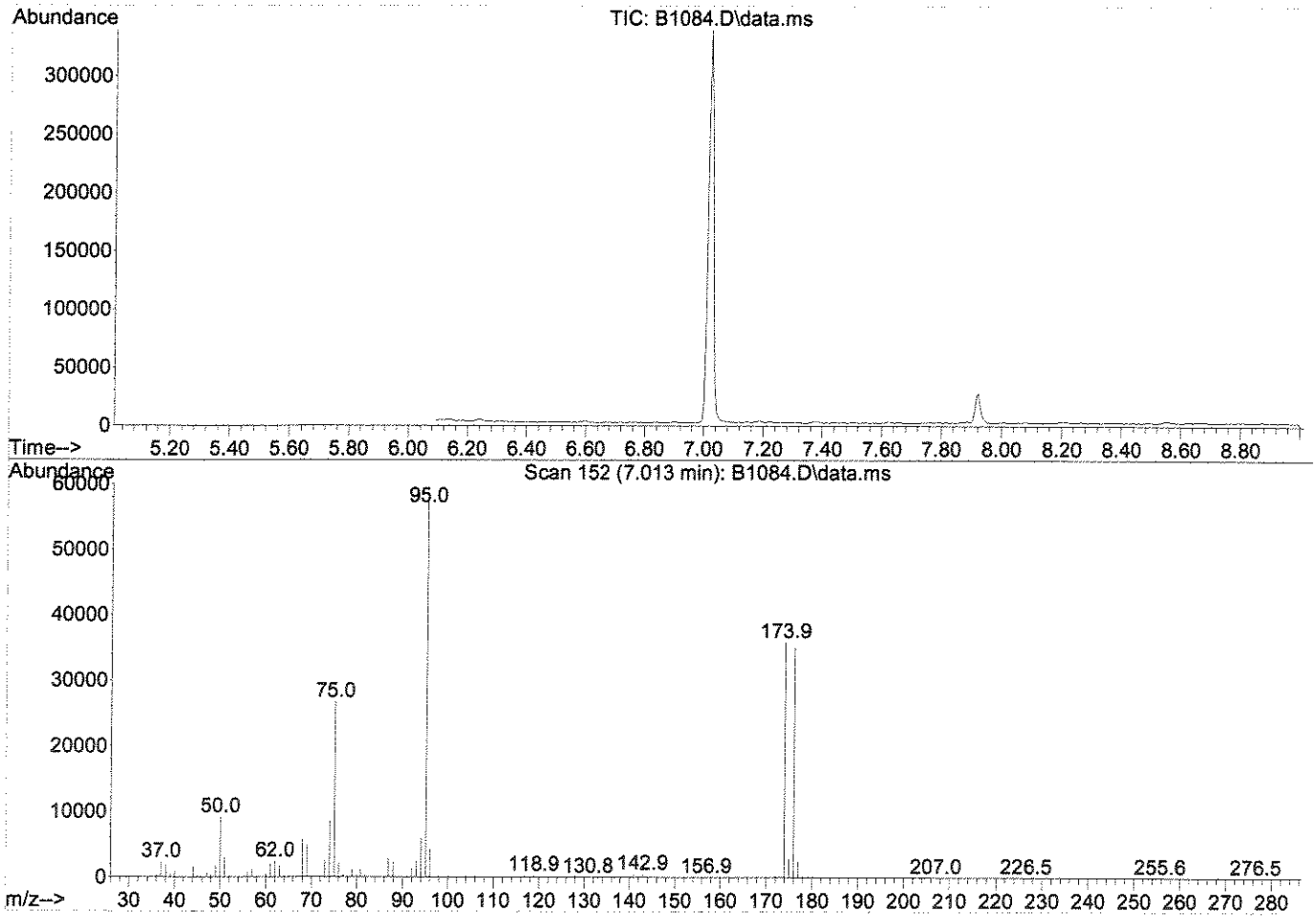
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 1	VSTD 1	B1085.D	07/14/08	14:52
02	LCS 1	1120302 1.0	B1086.D	07/14/08	15:42
03	MET BLK 1	1120301 1.0	B1088.D	07/14/08	17:09
04	TB070108GW2	1114422 1.0	B1091.D	07/14/08	18:39
05	EB070208GW1	1114758 1.0	B1092.D	07/14/08	19:09
06	TB070208GW1	1114759 1.0	B1093.D	07/14/08	19:38
07	M-55B	1114419 5.0	B1094.D	07/14/08	20:08
08	M-55DB	1114420 5.0	B1095.D	07/14/08	20:38
09	M-78B	1114421 2.5	B1096.D	07/14/08	21:08
10	M-65B	1114756 10.0	B1097.D	07/14/08	21:37
11	M-78B MS	1120303 2.5	B1102.D	07/15/08	00:06
12	M-78B MSD	1120304 2.5	B1103.D	07/15/08	00:35

Data Path : J:\ACQUDATA\msvoa10\data\071408\
Data File : B1084.D
Acq On : 14 Jul 2008 2:19 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FN 7/17/08

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 152

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	9206	PASS
75	95	30	60	46.8	26736	PASS
95	95	100	100	100.0	57184	PASS
96	95	5	9	7.6	4337	PASS
173	174	0.00	2	0.7	243	PASS
174	95	50	120	62.8	35912	PASS
175	174	5	9	8.2	2953	PASS
176	174	95	101	97.8	35128	PASS
177	176	5	9	7.0	2449	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID: B1110.D BFB Injection Date: 07/15/08

Instrument ID: MSVOA10 BFB Injection Time: 12:12

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	44.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	77.8
175	5.0 - 9.0% of mass 174	5.2 (6.7)1
176	95.0 - 101.0% of mass 174	74.9 (96.3)1
177	5.0 - 9.0% of mass 176	5.1 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

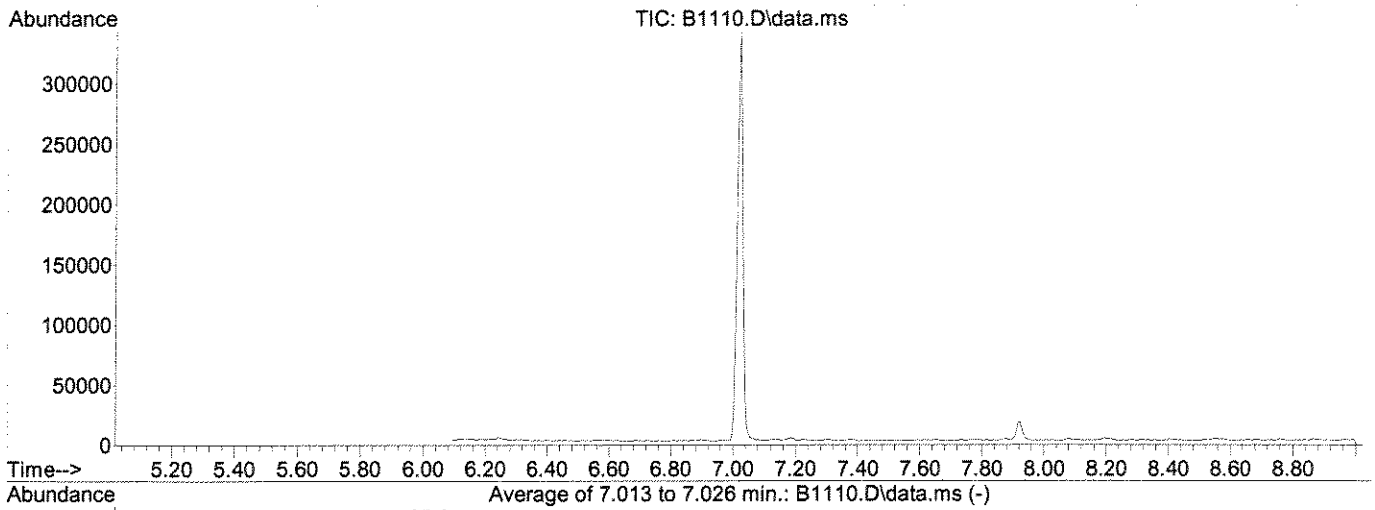
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 2	VSTD 2	B1111.D	07/15/08	12:49
02	LCS 2	1120308 1.0	B1112.D	07/15/08	13:40
03	MET BLK 2	1120307 1.0	B1114.D	07/15/08	14:49
04	M-78B DL	1114421 5.0	B1119.D	07/15/08	17:18

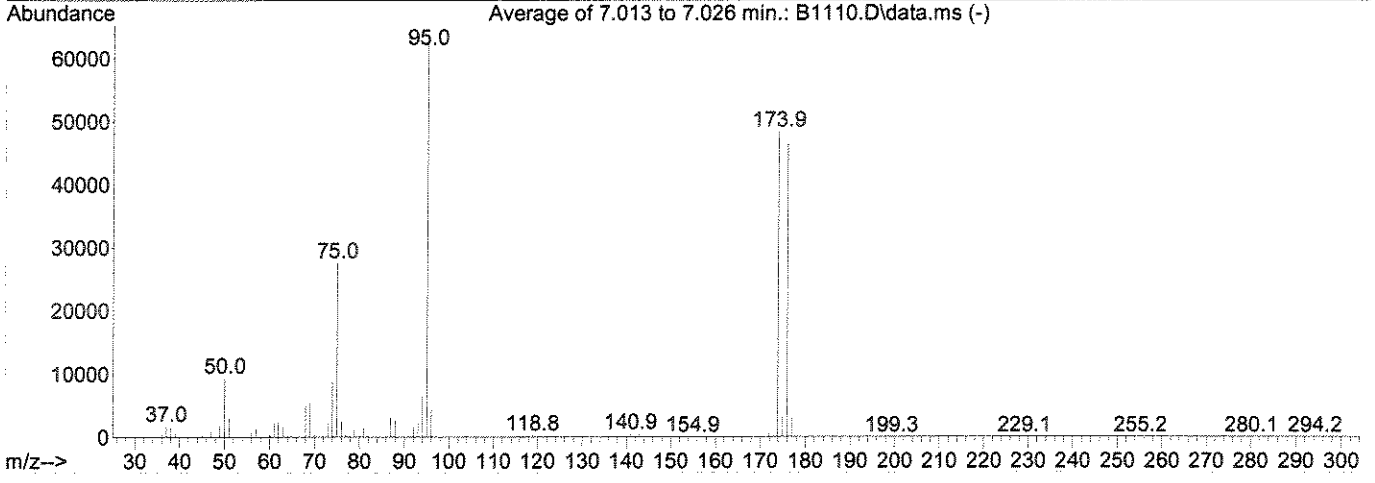
Data Path : J:\ACQUDATA\msvoa10\data\071508\
Data File : B1110.D
Acq On : 15 Jul 2008 12:12 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

FN 7/18/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006





AutoFind: Scans 152, 153, 154; Background Corrected with Scan 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	9448	PASS
75	95	30	60	44.4	27643	PASS
95	95	100	100	100.0	62221	PASS
96	95	5	9	7.7	4776	PASS
173	174	0.00	2	0.7	323	PASS
174	95	50	120	77.8	48389	PASS
175	174	5	9	6.7	3243	PASS
176	174	95	101	96.3	46584	PASS
177	176	5	9	6.8	3158	PASS

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): B1085.D Date Analyzed: 07/14/08

Instrument ID: MSVOA10 Time Analyzed: 14:52

GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

	IS1		IS2		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1472466	4.43	2387515	5.63	2329582	8.86
UPPER LIMIT	2944932	3.93	4775030	5.13	4659164	8.36
LOWER LIMIT	736233	4.93	1193758	6.13	1164791	9.36
EPA SAMPLE NO.						
01 LCS 1	1484931	4.44	2417830	5.64	2336519	8.86
02 MET BLK 1	1408003	4.43	2307891	5.64	2252346	8.86
03 TB070108GW	1355605	4.43	2245495	5.64	2200003	8.86
04 EB070208GW	1345888	4.43	2254341	5.64	2196594	8.86
05 TB070208GW	1325848	4.43	2215952	5.64	2192654	8.86
06 M-55B	1330732	4.43	2202225	5.64	2167781	8.86
07 M-55DB	1328509	4.43	2206395	5.64	2162055	8.86
08 M-78B	1316853	4.43	2192753	5.64	2151370	8.86
09 M-65B	1320019	4.43	2193102	5.64	2159741	8.86
10 M-78B MS	1369548	4.43	2283626	5.64	2262705	8.86
11 M-78B MSD	1436383	4.43	2363307	5.64	2328930	8.86

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): B1085.D Date Analyzed: 07/14/08

Instrument ID: MSVOA10 Time Analyzed: 14:52

GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS4 AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	1329444		10.85									
	UPPER LIMIT	2658888		10.35									
	LOWER LIMIT	664722		11.35									
	EPA SAMPLE NO.												
01	LCS 1	1312238		10.85									
02	MET BLK 1	1219764		10.85									
03	TB070108GW	1197968		10.85									
04	EB070208GW	1192851		10.85									
05	TB070208GW	1191202		10.85									
06	M-55B	1180393		10.85									
07	M-55DB	1181941		10.85									
08	M-78B	1172504		10.85									
09	M-65B	1171629		10.85									
10	M-78B MS	1290900		10.85									
11	M-78B MSD	1317457		10.85									

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): B1111.D Date Analyzed: 07/15/08

Instrument ID: MSVOA10 Time Analyzed: 12:49

GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1328254	4.43	2178116	5.63	2139189	8.85
	UPPER LIMIT	2656508	3.93	4356232	5.13	4278378	8.35
	LOWER LIMIT	664127	4.93	1089058	6.13	1069595	9.35
	EPA SAMPLE NO.						
01	LCS 2	1351120	4.43	2215220	5.64	2169812	8.85
02	MET BLK 2	1277109	4.43	2130311	5.64	2084385	8.85
03	M-78B DL	1226282	4.43	2066935	5.64	2039233	8.86

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS\ROCH Contract: ENSR INT

Lab Code: 10145 Case No.: R8-44803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): B1111.D Date Analyzed: 07/15/08

Instrument ID: MSVOA10 Time Analyzed: 12:49

GC Column: DB-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1201588	10.85				
	UPPER LIMIT	2403176	10.35				
	LOWER LIMIT	600794	11.35				
	EPA SAMPLE NO.						
01	LCS 2	1202502	10.85				
02	MET BLK 2	1130468	10.85				
03	M-78B DL	1096012	10.85				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = 1,4-Dichlorobenzene-d4

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

Columbia Analytical Services

MDL Study Report

MDL Study ID: MDL278

Analytical Method: 8260B
Extraction Method: EPA 5035/5030B
Matrix: LIQUID
Instrument: MSVOA10 **Column:** MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
1,1,1,2-Tetrachloroethane	0.300	0.276	0.0151	3.143	0.048	ug/L	5	92	Valid MDL Data
1,1,1-Trichloroethane (TCA)	0.500	0.444	0.0237	3.143	0.075	ug/L	5	89	Valid MDL Data
1,1,2,2-Tetrachloroethane	0.300	0.299	0.0234	3.143	0.074	ug/L	8	100	Valid MDL Data
1,1,2-Trichloroethane	0.300	0.300	0.0238	3.143	0.075	ug/L	8	100	Valid MDL Data
1,1-Dichloroethane	0.300	0.289	0.0324	3.143	0.10	ug/L	11	96	Valid MDL Data
1,1-Dichloroethene	0.300	0.287	0.0450	3.143	0.14	ug/L	16	96	Valid MDL Data
1,1-Dichloropropene	0.300	0.309	0.0422	3.143	0.13	ug/L	14	103	Valid MDL Data
1,2,3-Trichlorobenzene	0.300	0.331	0.0389	3.143	0.12	ug/L	12	110	Valid MDL Data
1,2,3-Trichloropropane	0.300	0.277	0.0309	3.143	0.097	ug/L	11	92	Valid MDL Data
1,2,4-Trichlorobenzene	0.300	0.346	0.0299	3.143	0.094	ug/L	9	115	Valid MDL Data
1,2,4-Trimethylbenzene	0.300	0.250	0.0277	3.143	0.087	ug/L	11	83	Valid MDL Data
1,2-Dibromo-3-chloropropane (DBCP	0.300	0.310	0.0294	3.143	0.093	ug/L	9	103	Valid MDL Data
1,2-Dibromoethane (EDB)	0.300	0.284	0.0237	3.143	0.075	ug/L	8	95	Valid MDL Data
1,2-Dichloro-1,1,2-trifluoroethane (C	0.300	0.296	0.0387	3.143	0.12	ug/L	13	99	Valid MDL Data
1,2-Dichlorobenzene	0.300	0.317	0.0315	3.143	0.099	ug/L	10	106	Valid MDL Data
1,2-Dichloroethane (EDC)	0.300	0.297	0.0269	3.143	0.085	ug/L	9	99	Valid MDL Data
1,2-Dichloropropane	0.300	0.310	0.0327	3.143	0.10	ug/L	11	103	Valid MDL Data
1,3,5-Trimethylbenzene	0.300	0.254	0.0310	3.143	0.097	ug/L	12	85	Valid MDL Data
1,3-Dichlorobenzene	0.300	0.309	0.0418	3.143	0.13	ug/L	14	103	Valid MDL Data
1,3-Dichloropropane	0.300	0.293	0.0198	3.143	0.062	ug/L	7	98	Valid MDL Data
1,4-Dichlorobenzene	0.300	0.337	0.0304	3.143	0.096	ug/L	9	112	Valid MDL Data
1,4-Dioxane	10.0	6.75	2.26	3.143	7.1	ug/L	34	67	Valid MDL Data
2,2-Dichloro-1,1,1-trifluoroethane (C	0.300	0.280	0.0351	3.143	0.11	ug/L	13	93	Valid MDL Data
2,2-Dichloropropane	0.500	0.313	0.0325	3.143	0.10	ug/L	10	63	Valid MDL Data
2-Butanone (MEK)	0.500	0.590	0.0469	3.143	0.15	ug/L	8	118	Valid MDL Data
2-Chloro-1,3-butadiene	0.300	0.273	0.0395	3.143	0.12	ug/L	14	91	Valid MDL Data
2-Chloroethyl Vinyl Ether	0.500	0.266	0.0640	3.143	0.20	ug/L	24	53	Valid MDL Data
2-Chlorotoluene	0.300	0.287	0.0330	3.143	0.10	ug/L	12	96	Valid MDL Data
2-Hexanone	0.500	0.361	0.0339	3.143	0.11	ug/L	9	72	Valid MDL Data
2-Propanol	6.00	5.63	0.695	3.143	2.2	ug/L	12	94	Valid MDL Data
4-Chlorotoluene	0.300	0.287	0.0330	3.143	0.10	ug/L	12	96	Valid MDL Data

Supervisor Approval: _____ QA/QC Approval: _____

Columbia Analytical Services

MDL Study Report

Analytical Method: 8260B
Extraction Method: EPA 5035/5030B
Matrix: LIQUID
Instrument: MSVOA10 **Column:** MS

MDL Study ID: MDL278

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
4-Isopropyltoluene	0.500	0.406	0.0207	3.143	0.065	ug/L	5	81	Valid MDL Data
4-Methyl-2-pentanone (MIBK)	0.500	0.393	0.0475	3.143	0.15	ug/L	12	79	Valid MDL Data
Acetone	0.500	1.78	0.306	3.143	0.96	ug/L	17	357	Spike level too low (MDL>Spike)
Acetonitrile	2.50	4.01	0.994	3.143	3.1	ug/L	25	161	Spike level too low (MDL>Spike)
Acrolein	2.50	2.34	0.343	3.143	1.1	ug/L	15	94	Valid MDL Data
Acrylonitrile	1.50	1.51	0.0856	3.143	0.27	ug/L	6	101	Valid MDL Data
Allyl Chloride	0.300	0.276	0.0305	3.143	0.096	ug/L	11	92	Valid MDL Data
Benzene	0.300	0.304	0.0282	3.143	0.089	ug/L	9	101	Valid MDL Data
Bromobenzene	0.300	0.320	0.0238	3.143	0.075	ug/L	7	107	Valid MDL Data
Bromochloromethane	0.300	0.344	0.0215	3.143	0.068	ug/L	6	115	Valid MDL Data
Bromodichloromethane	0.300	0.280	0.0283	3.143	0.089	ug/L	10	93	Valid MDL Data
Bromoform	0.300	0.289	0.0426	3.143	0.13	ug/L	15	96	Valid MDL Data
Bromomethane	0.300	0.320	0.0396	3.143	0.12	ug/L	12	107	Valid MDL Data
Carbon Disulfide	0.300	0.334	0.0382	3.143	0.12	ug/L	11	111	Valid MDL Data
Carbon Tetrachloride	0.300	0.260	0.0337	3.143	0.11	ug/L	13	87	Valid MDL Data
Chlorobenzene	0.300	0.304	0.0230	3.143	0.072	ug/L	8	101	Valid MDL Data
Chloroethane	0.300	0.303	0.0395	3.143	0.12	ug/L	13	101	Valid MDL Data
Chloroform	0.300	0.293	0.0293	3.143	0.092	ug/L	10	98	Valid MDL Data
Chloromethane	0.300	0.321	0.0348	3.143	0.11	ug/L	11	107	Valid MDL Data
cis-1,2-Dichloroethene	0.300	0.299	0.0344	3.143	0.11	ug/L	12	100	Valid MDL Data
cis-1,3-Dichloropropene	0.300	0.244	0.0151	3.143	0.048	ug/L	6	81	Valid MDL Data
Cyclohexane	0.300	0.299	0.0261	3.143	0.082	ug/L	9	100	Valid MDL Data
Cyclohexanone	6.00	4.37	0.553	3.143	1.7	ug/L	13	73	Valid MDL Data
Dibromochloromethane	0.300	0.266	0.0223	3.143	0.070	ug/L	8	89	Valid MDL Data
Dibromomethane	0.300	0.309	0.0313	3.143	0.098	ug/L	10	103	Valid MDL Data
Dichlorodifluoromethane	0.500	0.333	0.0538	3.143	0.17	ug/L	16	67	Valid MDL Data
Dichlorofluoromethane (CFC 21)	0.300	0.291	0.0285	3.143	0.090	ug/L	10	97	Valid MDL Data
Diethyl Ether	0.300	0.290	0.0245	3.143	0.077	ug/L	8	97	Valid MDL Data
Diisopropyl Ether	0.300	0.291	0.0212	3.143	0.066	ug/L	7	97	Valid MDL Data
ETBE	0.300	0.271	0.0241	3.143	0.076	ug/L	9	90	Valid MDL Data
Ethyl Methacrylate	0.300	1.74	0.0195	3.143	0.061	ug/L	1	580	Valid MDL Data

Supervisor Approval: _____ QA/QC Approval: _____

Columbia Analytical Services

MDL Study Report

Analytical Method: 8260B
Extraction Method: EPA 5035/5030B
Matrix: LIQUID
Instrument: MSVOA10 **Column:** MS

MDL Study ID: MDL278

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Ethylbenzene	0.300	0.281	0.0279	3.143	0.088	ug/L	10	94	Valid MDL Data
Hexachlorobutadiene	0.300	0.339	0.0363	3.143	0.11	ug/L	11	113	Valid MDL Data
Iodomethane (Methyl Iodide)	0.300	0.243	0.0256	3.143	0.081	ug/L	11	81	Valid MDL Data
Isobutyl Alcohol	10.0	69.8	0.646	3.143	2.0	ug/L	1	698	Valid MDL Data
Isopropylbenzene	0.300	0.250	0.0332	3.143	0.10	ug/L	13	83	Valid MDL Data
m,p-Xylenes	0.600	0.551	0.0644	3.143	0.20	ug/L	12	92	Valid MDL Data
Methacrylonitrile	0.500	0.476	0.0346	3.143	0.11	ug/L	7	95	Valid MDL Data
Methyl Acetate	0.300	0.379	0.0372	3.143	0.12	ug/L	10	126	Valid MDL Data
Methyl Methacrylate	0.300	1.69	0.0198	3.143	0.062	ug/L	1	562	Valid MDL Data
Methyl tert-Butyl Ether	0.300	0.279	0.0195	3.143	0.061	ug/L	7	93	Valid MDL Data
Methylcyclohexane	0.300	0.284	0.0479	3.143	0.15	ug/L	17	95	Valid MDL Data
Methylene Chloride	0.300	0.420	0.0351	3.143	0.11	ug/L	8	140	Valid MDL Data
Naphthalene	0.300	0.769	0.0254	3.143	0.080	ug/L	3	256	Valid MDL Data
n-Butylbenzene	0.300	0.273	0.0359	3.143	0.11	ug/L	13	91	Valid MDL Data
n-Heptane	0.300	0.299	0.0339	3.143	0.11	ug/L	11	100	Valid MDL Data
n-Propylbenzene	0.300	0.280	0.0342	3.143	0.11	ug/L	12	93	Valid MDL Data
o-Xylene	0.300	0.271	0.0353	3.143	0.11	ug/L	13	90	Valid MDL Data
Propionitrile	1.50	1.42	0.163	3.143	0.51	ug/L	11	95	Valid MDL Data
sec-Butylbenzene	0.500	0.399	0.0212	3.143	0.066	ug/L	5	80	Valid MDL Data
Styrene	0.300	0.241	0.0219	3.143	0.069	ug/L	9	80	Valid MDL Data
TAME	0.300	0.269	0.0261	3.143	0.082	ug/L	10	90	Valid MDL Data
tert-Butyl Alcohol	6.00	6.76	0.556	3.143	1.7	ug/L	8	113	Valid MDL Data
tert-Butylbenzene	0.500	0.400	0.0283	3.143	0.089	ug/L	7	80	Valid MDL Data
Tetrachloroethene (PCE)	0.300	0.299	0.0426	3.143	0.13	ug/L	14	100	Valid MDL Data
Tetrahydrofuran	0.300	0.719	0.0537	3.143	0.17	ug/L	7	240	Valid MDL Data
Toluene	0.300	0.301	0.0248	3.143	0.078	ug/L	8	100	Valid MDL Data
trans-1,2-Dichloroethene	0.300	0.296	0.0294	3.143	0.092	ug/L	10	99	Valid MDL Data
trans-1,3-Dichloropropene	0.300	0.240	0.0173	3.143	0.054	ug/L	7	80	Valid MDL Data
trans-1,4-Dichloro-2-butene	0.300	0.283	0.0642	3.143	0.20	ug/L	23	94	Valid MDL Data
Trichloroethene (TCE)	0.300	0.324	0.0399	3.143	0.13	ug/L	12	108	Valid MDL Data
Trichlorofluoromethane	0.300	0.274	0.0310	3.143	0.097	ug/L	11	91	Valid MDL Data

Supervisor Approval: _____ QA/QC Approval: _____

Columbia Analytical Services

MDL Study Report

Analytical Method: 8260B
Extraction Method: EPA 5035/5030B
Matrix: LIQUID
Instrument: MSVOA10 **Column:** MS

MDL Study ID: MDL278

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Trichlorotrifluoroethane	0.300	0.290	0.0396	3.143	0.12	ug/L	14	97	Valid MDL Data
Vinyl Acetate	0.500	2.62	0.117	3.143	0.37	ug/L	4	523	Valid MDL Data
Vinyl Chloride	0.300	0.286	0.0355	3.143	0.11	ug/L	12	95	Valid MDL Data

Supervisor Approval: _____ QA/QC Approval: _____

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55B

Date Sampled : 07/01/08 07:44 **Order #:** 1114419 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	8.8 J	UG/L
BENZENE	1.0	5.0 U	UG/L
BROMOBENZENE	2.0	10 U	UG/L
BROMOCHLOROMETHANE	2.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	5.0 U	UG/L
BROMOFORM	1.0	8.8	UG/L
BROMOMETHANE	2.0	10 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TERT-BUTYL ALCOHOL	100	15 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
TERT-BUTYLBENZENE	2.0	10 U	UG/L
SEC-BUTYLBENZENE	2.0	10 U	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
CARBON TETRACHLORIDE	1.0	1.7 J	UG/L
CHLOROBENZENE	1.0	5.0 U	UG/L
CHLOROETHANE	2.0	10 U	UG/L
CHLOROFORM	1.0	670	UG/L
CHLOROMETHANE	2.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
2-CHLOROTOLUENE	5.0	25 U	UG/L
4-CHLOROTOLUENE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	1.0	5.0 U	UG/L
1,2-DIBROMOETHANE	1.0	5.0 U	UG/L
DIBROMOMETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	10 U	UG/L
1,4-DICHLOROBENZENE	2.0	1.2 J	UG/L
1,3-DICHLOROBENZENE	2.0	10 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHENE	1.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	5.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	10 U	UG/L
1,1-DICHLOROPROPENE	2.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
ETHYLBENZENE	1.0	5.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
DI-ISOPROPYL ETHER	1.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55B

Date Sampled : 07/01/08 07:44 **Order #:** 1114419 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/14/08			
ANALYTICAL DILUTION: 5.00			
ISOPROPYLBENZENE	2.0	10 U	UG/L
P-ISOPROPYLTOLUENE	2.0	10 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	5.0 U	UG/L
METHYLENE CHLORIDE	2.0	10 U	UG/L
NAPHTHALENE	2.0	10 U	UG/L
4-METHYL-2-PENTANONE	10	50 U	UG/L
N-PROPYLBENZENE	2.0	10 U	UG/L
STYRENE	1.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
TETRACHLOROETHENE	1.0	5.0 U	UG/L
TOLUENE	1.0	5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	10 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	5.0 U	UG/L
TRICHLOROETHENE	1.0	8.8	UG/L
TRICHLOROFLUOROMETHANE	1.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	10 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	10 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	10 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
M+P-XYLENE	2.0	10 U	UG/L
O-XYLENE	1.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Quantitation Report (Not Reviewed)

Sample : 1114419 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1094.D Vial: 10
Acq On : 14 Jul 2008 8:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 20:22:51 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.434	168	1330732	50.00	ug/L		0.00	
44) 1,4-Difluorobenzene	5.635	114	2202225	50.00	ug/L		0.00	
71) d5-Chlorobenzene	8.860	117	2167781	50.00	ug/L		0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1180393	50.00	ug/L		0.00	
System Monitoring Compounds								
46) surr4,Dibrflmethane	4.348	113	693045	47.53	ug/L		0.00	
Spiked Amount 50.000			Recovery =	95.06%				
49) surr1,1,2-dichloroetha...	4.891	65	629923	45.51	ug/L		0.00	
Spiked Amount 50.000			Recovery =	91.02%				
65) SURR3,Toluene-d8	7.445	98	2614251	54.53	ug/L		0.00	
Spiked Amount 50.000			Recovery =	109.06%				
70) SURR2,BFB	9.896	95	1094134	55.42	ug/L		0.00	
Spiked Amount 50.000			Recovery =	110.84%				
Target Compounds							Qvalue	
16) Acetone	2.123	43	2873	1.75	ug/L		87	J
17) 2-Propanol	2.196	45	1447	4.14	ug/L	#	54	NT
~~21) Allyl Chloride~~	~~2.276~~	~~76~~	~~1705~~	~~0.34~~	~~ug/L~~	~~#~~	~~1~~	
24) TBA	2.501	59	1650	2.98	ug/L	#	68	JB
~~40) Tetrahydrofuran~~	~~4.086~~	~~42~~	~~2270~~	~~1.44~~	~~ug/L~~	~~#~~	~~45~~	
41) Chloroform	4.117	83	2588546	134.07	ug/L		97	
47) Carbontetrachloride	4.635	121	1865	0.34	ug/L		91	J
54) Trichloroethene	5.988	130	21434	1.76	ug/L		95	
83) Bromoform	9.616	173	13262	1.75	ug/L		97	
~~85) Cyclohexanone~~	~~9.890~~	~~55~~	~~1988~~	~~2.02~~	~~ug/L~~	~~#~~	~~21~~	
101) 1,4-Dclbenz	10.872	146	7590	0.25	ug/L	#	88	J
~~109) Naphthalen~~	~~12.383~~	~~128~~	~~500~~	~~0.54~~	~~ug/L~~	~~#~~	~~67~~	LLR

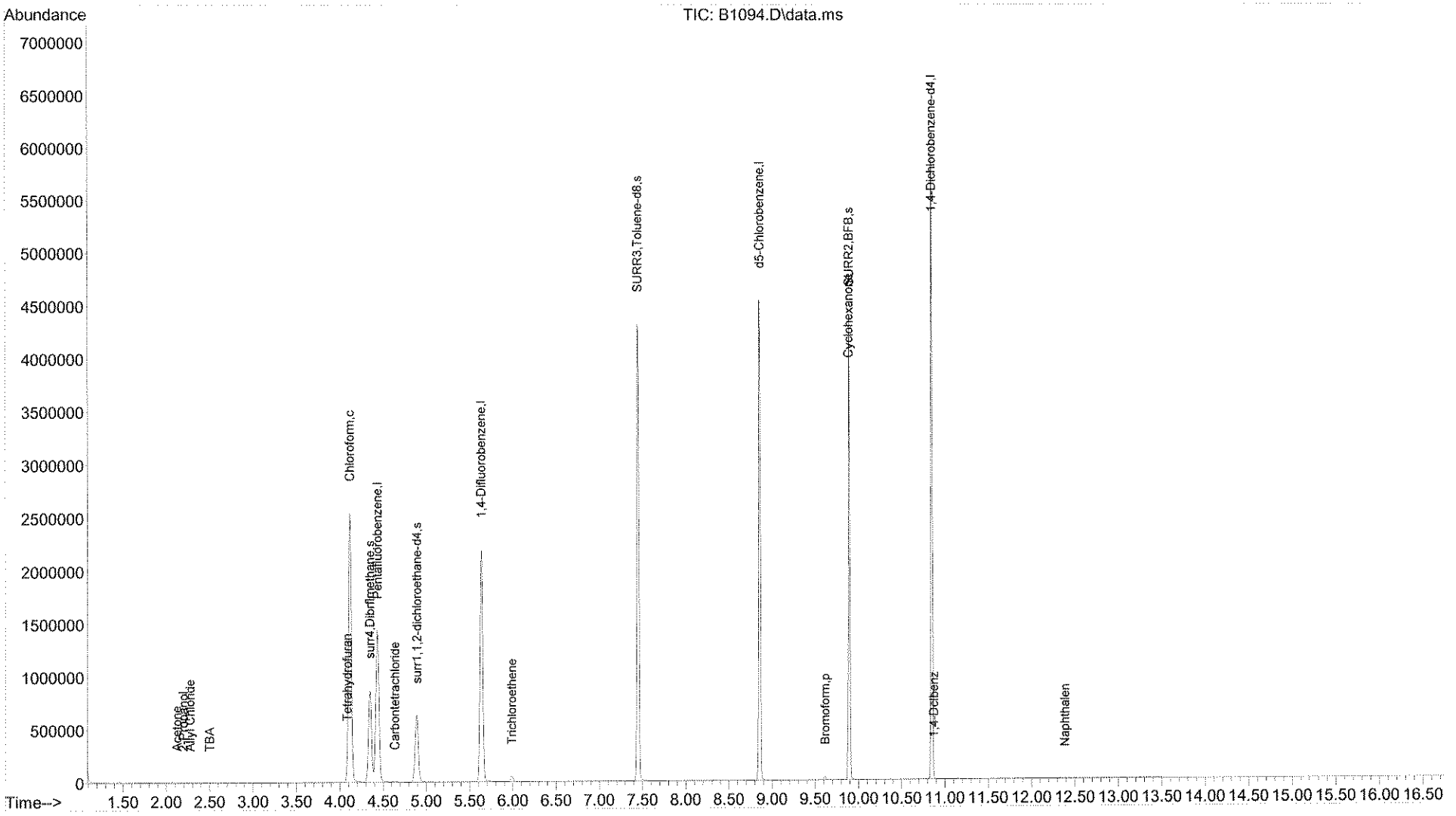
(#) = qualifier out of range (m) = manual integration (+) = signals summed

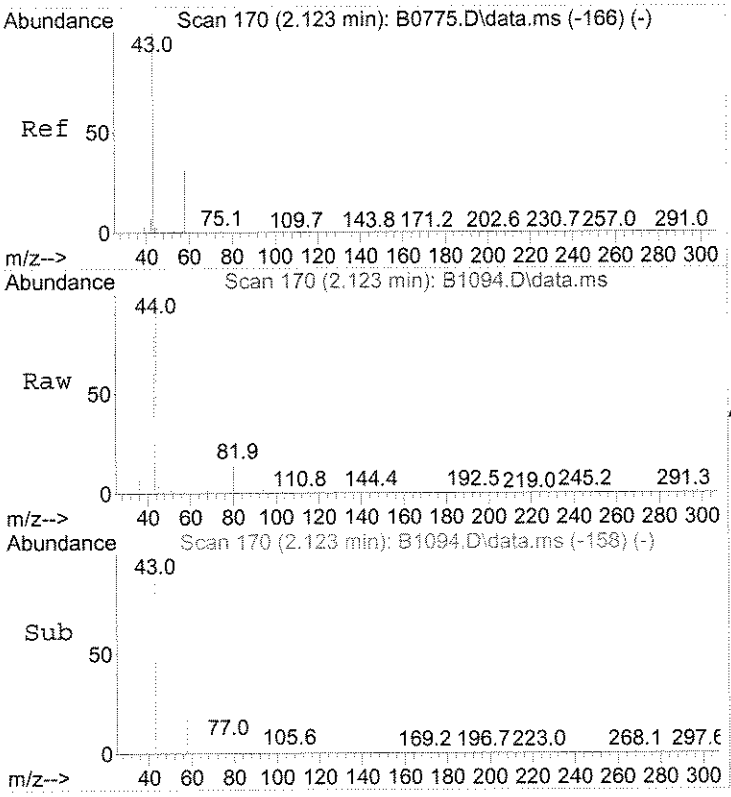
FV
7/17/08

00055

Sample : 1114419 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1094.D Vial: 10
Acq On : 14 Jul 2008 8:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 20:22:51 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

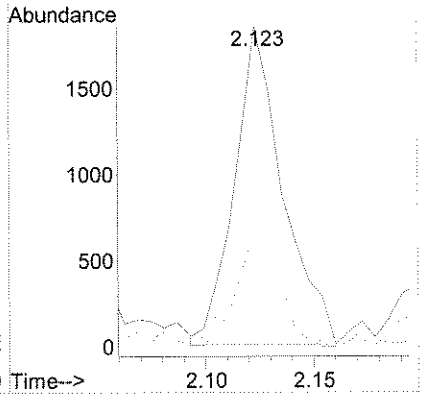


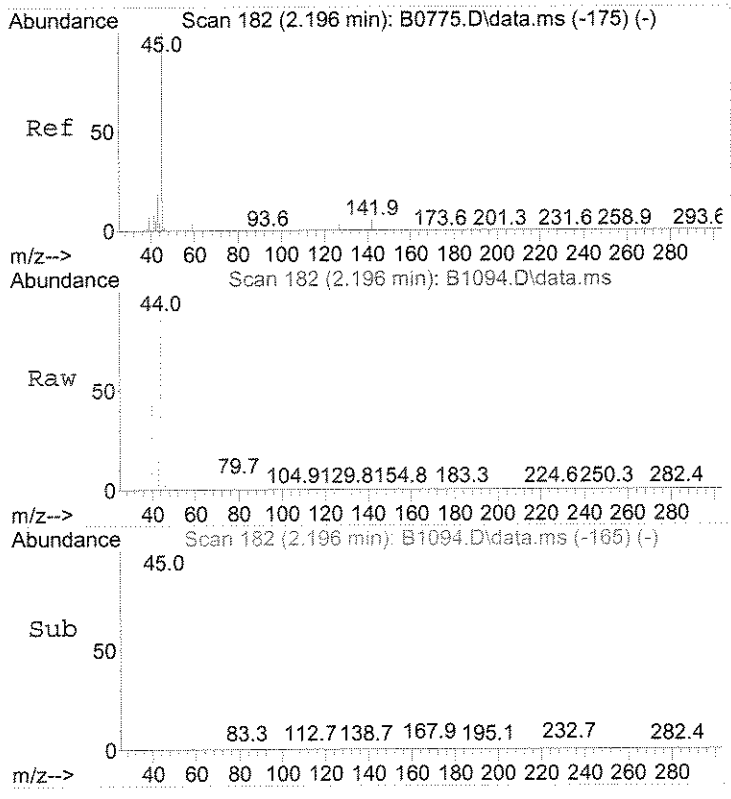


#16
Acetone
Concen: 1.75 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion: 43 Resp: 2873

Ion	Ratio	Lower	Upper
43	100		
58	36.7	0.9	60.9
42	15.3	0.0	37.2

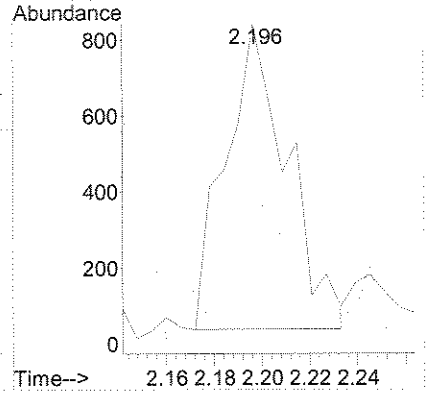


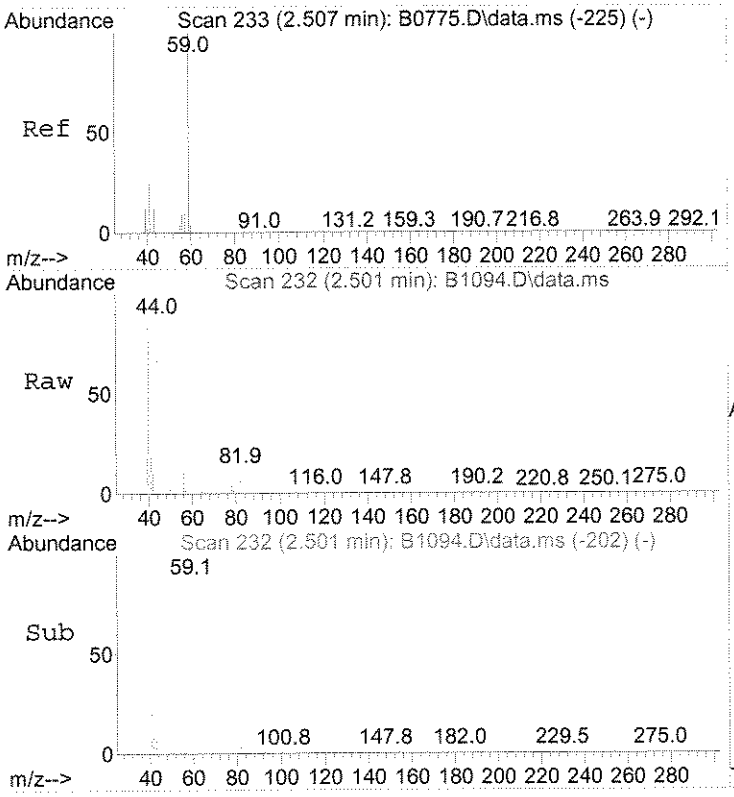


#17
2-Propanol
Concen: 4.14 ug/L
RT: 2.196 min Scan# 182
Delta R.T. -0.006 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion: 45 Resp: 1447

Ion	Ratio	Lower	Upper
45	100		
43	42.8	17.0	25.4#

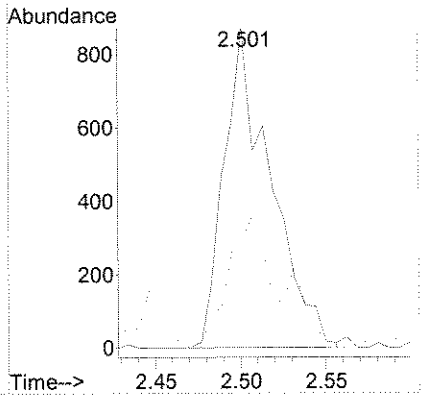


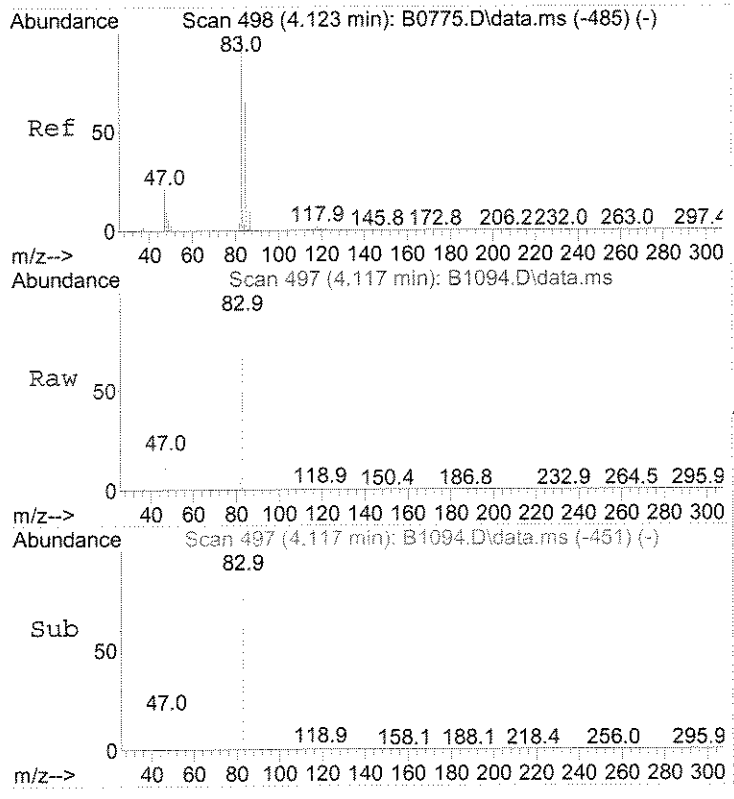


#24
TBA
Concen: 2.98 ug/L
RT: 2.501 min Scan# 232
Delta R.T. -0.006 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion: 59 Resp: 1650

Ion	Ratio	Lower	Upper
59	100		
41	46.0	14.5	43.6#

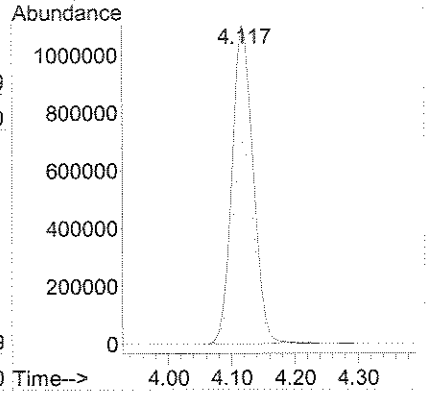


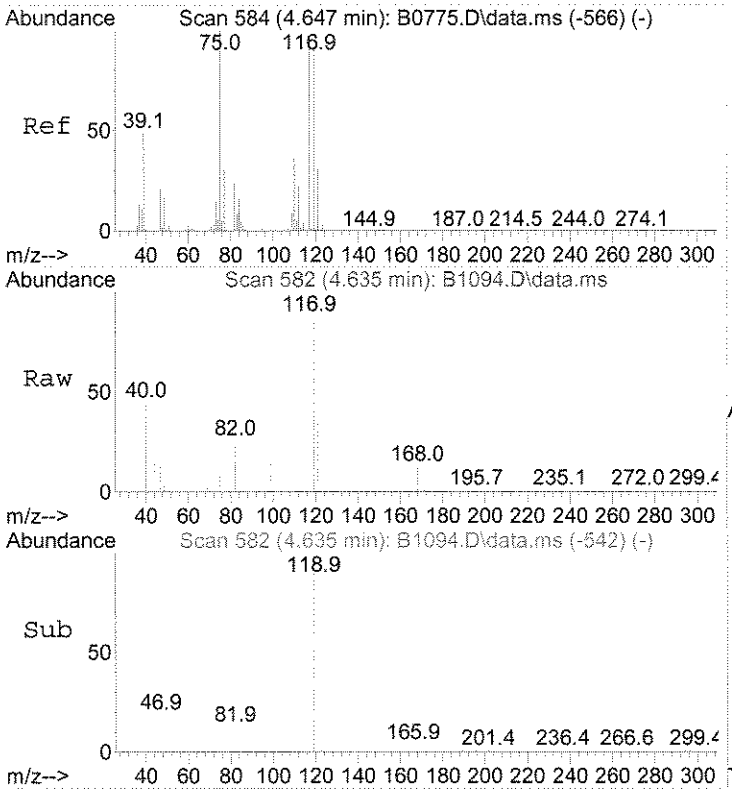


#41
Chloroform
Concen: 134.07 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion: 83 Resp: 2588546

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.7	77.5
47	18.1	17.1	25.7

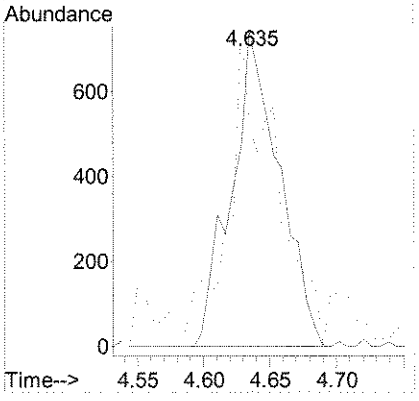


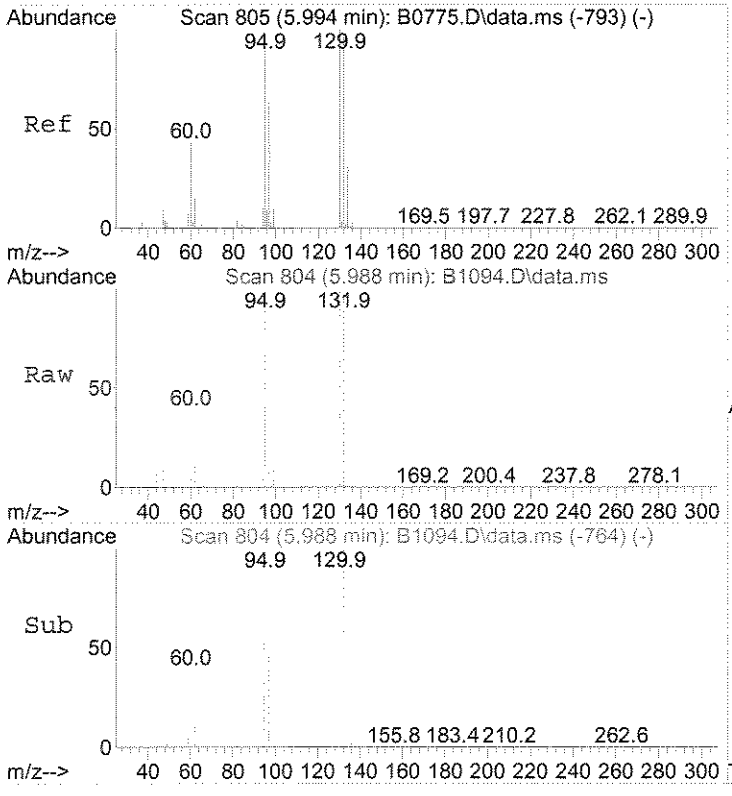


#47
Carbontetrachloride
Concen: 0.34 ug/L
RT: 4.635 min Scan# 582
Delta R.T. -0.006 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion:121 Resp: 1865

Ion	Ratio	Lower	Upper
121	100		
82	69.8	62.0	93.0

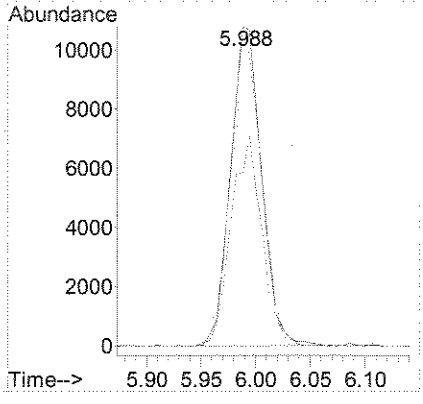


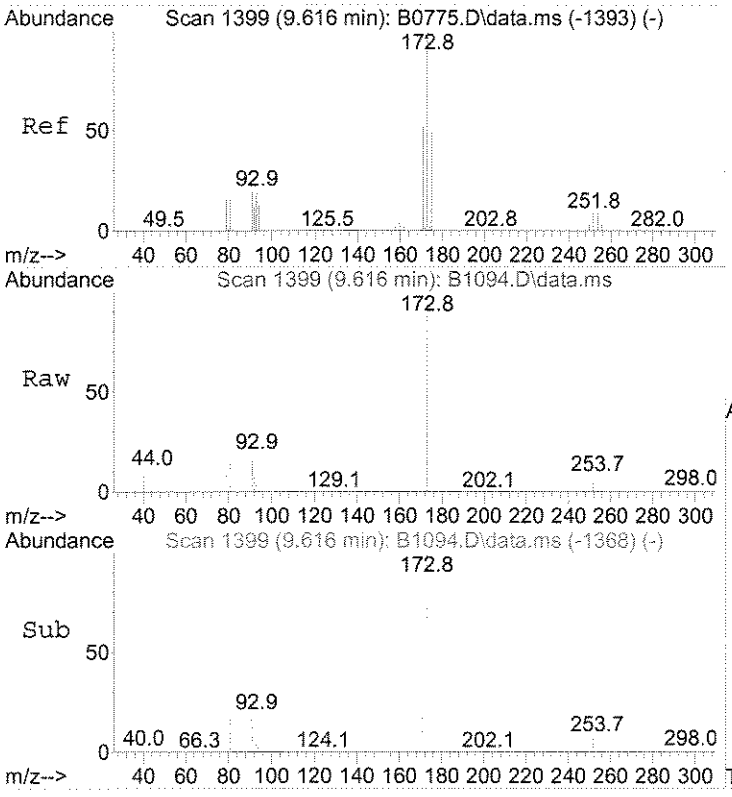


#54
Trichloroethene
Concen: 1.76 ug/L
RT: 5.988 min Scan# 804
Delta R.T. -0.006 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion:130 Resp: 21434

Ion	Ratio	Lower	Upper
130	100		
132	100.1	77.0	115.4
95	98.8	78.6	118.0
97	53.7	50.9	76.3

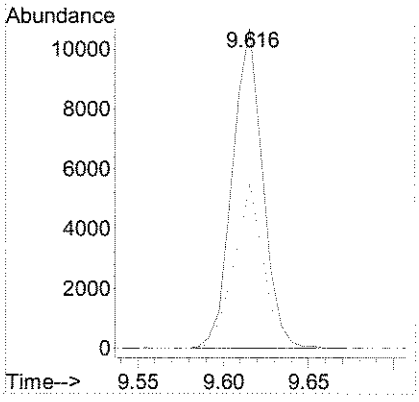


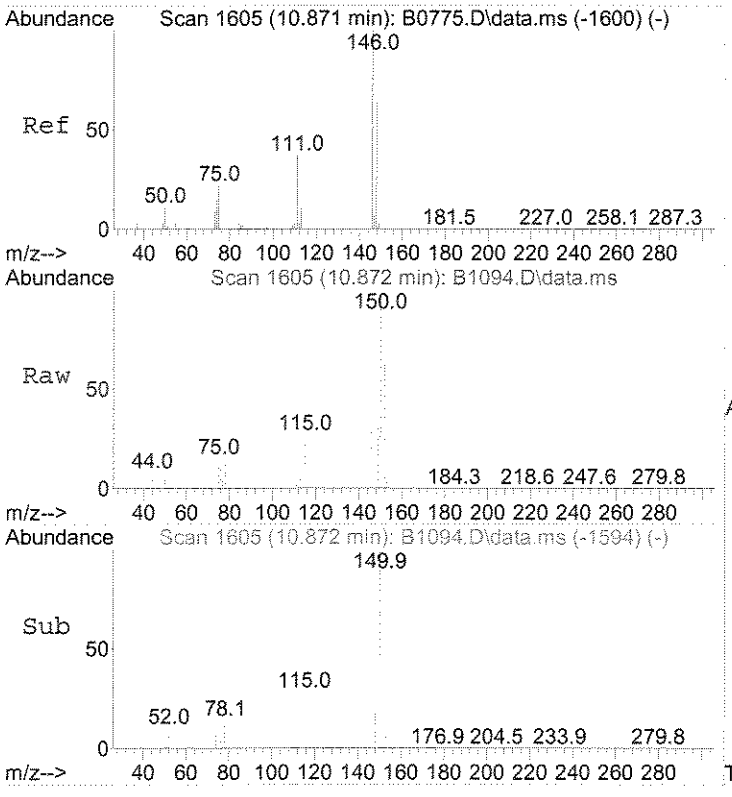


#83
Bromoform
Concen: 1.75 ug/L
RT: 9.616 min Scan# 1399
Delta R.T. -0.000 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion:173 Resp: 13262

Ion	Ratio	Lower	Upper
173	100		
175	51.5	39.4	59.0

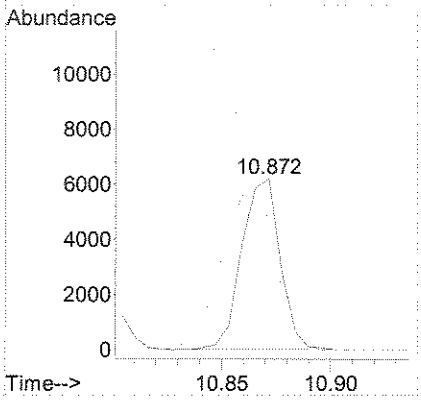




#101
1,4-Dclbenz
Concen: 0.25 ug/L
RT: 10.872 min Scan# 1605
Delta R.T. -0.000 min
Lab File: B1094.D
Acq: 14 Jul 2008 8:08 pm

Tgt Ion:146 Resp: 7590

Ion	Ratio	Lower	Upper
146	100		
148	77.4	51.2	76.8#
111	36.2	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55DB

Date Sampled : 07/01/08 **Order #:** 1114420 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	7.4 J	UG/L
BENZENE	1.0	5.0 U	UG/L
BROMOBENZENE	2.0	10 U	UG/L
BROMOCHLOROMETHANE	2.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	5.0 U	UG/L
BROMOFORM	1.0	10	UG/L
BROMOMETHANE	2.0	10 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TERT-BUTYL ALCOHOL	100	9.3 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
TERT-BUTYLBENZENE	2.0	10 U	UG/L
SEC-BUTYLBENZENE	2.0	10 U	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
CARBON TETRACHLORIDE	1.0	1.9 J	UG/L
CHLOROBENZENE	1.0	5.0 U	UG/L
CHLOROETHANE	2.0	10 U	UG/L
CHLOROFORM	1.0	650	UG/L
CHLOROMETHANE	2.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
2-CHLOROTOLUENE	5.0	25 U	UG/L
4-CHLOROTOLUENE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	1.0	5.0 U	UG/L
1,2-DIBROMOETHANE	1.0	5.0 U	UG/L
DIBROMOMETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	10 U	UG/L
1,4-DICHLOROBENZENE	2.0	1.2 J	UG/L
1,3-DICHLOROBENZENE	2.0	10 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHENE	1.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	5.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	10 U	UG/L
1,1-DICHLOROPROPENE	2.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
ETHYLBENZENE	1.0	5.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
DI-ISOPROPYL ETHER	1.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55DB

Date Sampled : 07/01/08 **Order #:** 1114420 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ISOPROPYLBENZENE	2.0	10 U	UG/L
P-ISOPROPYLTOLUENE	2.0	10 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	5.0 U	UG/L
METHYLENE CHLORIDE	2.0	10 U	UG/L
NAPHTHALENE	2.0	10 U	UG/L
4-METHYL-2-PENTANONE	10	50 U	UG/L
N-PROPYLBENZENE	2.0	10 U	UG/L
STYRENE	1.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
TETRACHLOROETHENE	1.0	5.0 U	UG/L
TOLUENE	1.0	5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	10 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	5.0 U	UG/L
TRICHLOROETHENE	1.0	8.6	UG/L
TRICHLOROFLUOROMETHANE	1.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	10 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	10 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	10 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
M+P-XYLENE	2.0	10 U	UG/L
O-XYLENE	1.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	112	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Quantitation Report (Not Reviewed)

Sample : 1114420 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1095.D Vial: 11
Acq On : 14 Jul 2008 8:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 20:52:35 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.434	168	1328509	50.00	ug/L		0.00	
44) 1,4-Difluorobenzene	5.641	114	2206395	50.00	ug/L		0.00	
71) d5-Chlorobenzene	8.860	117	2162055	50.00	ug/L		0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1181941	50.00	ug/L		0.00	
System Monitoring Compounds								
46) surr4,Dibrflmethane	4.348	113	694535	47.55	ug/L		0.00	
Spiked Amount 50.000			Recovery = 95.10%					
49) surr1,1,2-dichloroetha...	4.891	65	629078	45.36	ug/L		0.00	
Spiked Amount 50.000			Recovery = 90.72%					
65) SURR3,Toluene-d8	7.451	98	2623777	54.63	ug/L		0.00	
Spiked Amount 50.000			Recovery = 109.26%					
70) SURR2,BFB	9.896	95	1104661	55.85	ug/L		0.00	
Spiked Amount 50.000			Recovery = 111.70%					
Target Compounds							Qvalue	
16) Acetone	2.123	43	2420	1.48	ug/L		79	J
17) 2-Propanol	2.203	45	621	1.78	ug/L	#	63	NT
~~21) Allyl Chloride~~	~~2.276~~	~~76~~	~~1376~~	~~0.28~~	~~ug/L~~	~~#~~	~~1~~	
24) TBA	2.507	59	1031	1.86	ug/L		89	JB
~~40) Tetrahydrofuran~~	~~4.092~~	~~42~~	~~3037~~	~~1.92~~	~~ug/L~~	~~#~~	~~1~~	
41) Chloroform	4.117	83	2505421	129.98	ug/L		98	
47) Carbontetrachloride	4.635	121	2082	0.38	ug/L	#	70	J
54) Trichloroethene	5.988	130	21010	1.72	ug/L		97	
83) Bromoform	9.610	173	15099	1.99	ug/L		98	
~~85) Cyclohexanone~~	~~9.890~~	~~55~~	~~2143~~	~~2.18~~	~~ug/L~~	~~#~~	~~21~~	
101) 1,4-Dclbenz	10.872	146	6948	0.23	ug/L		97	J
~~109) Naphthalen~~	~~12.383~~	~~128~~	~~418~~	~~0.54~~	~~ug/L~~	~~#~~	~~74~~	LR

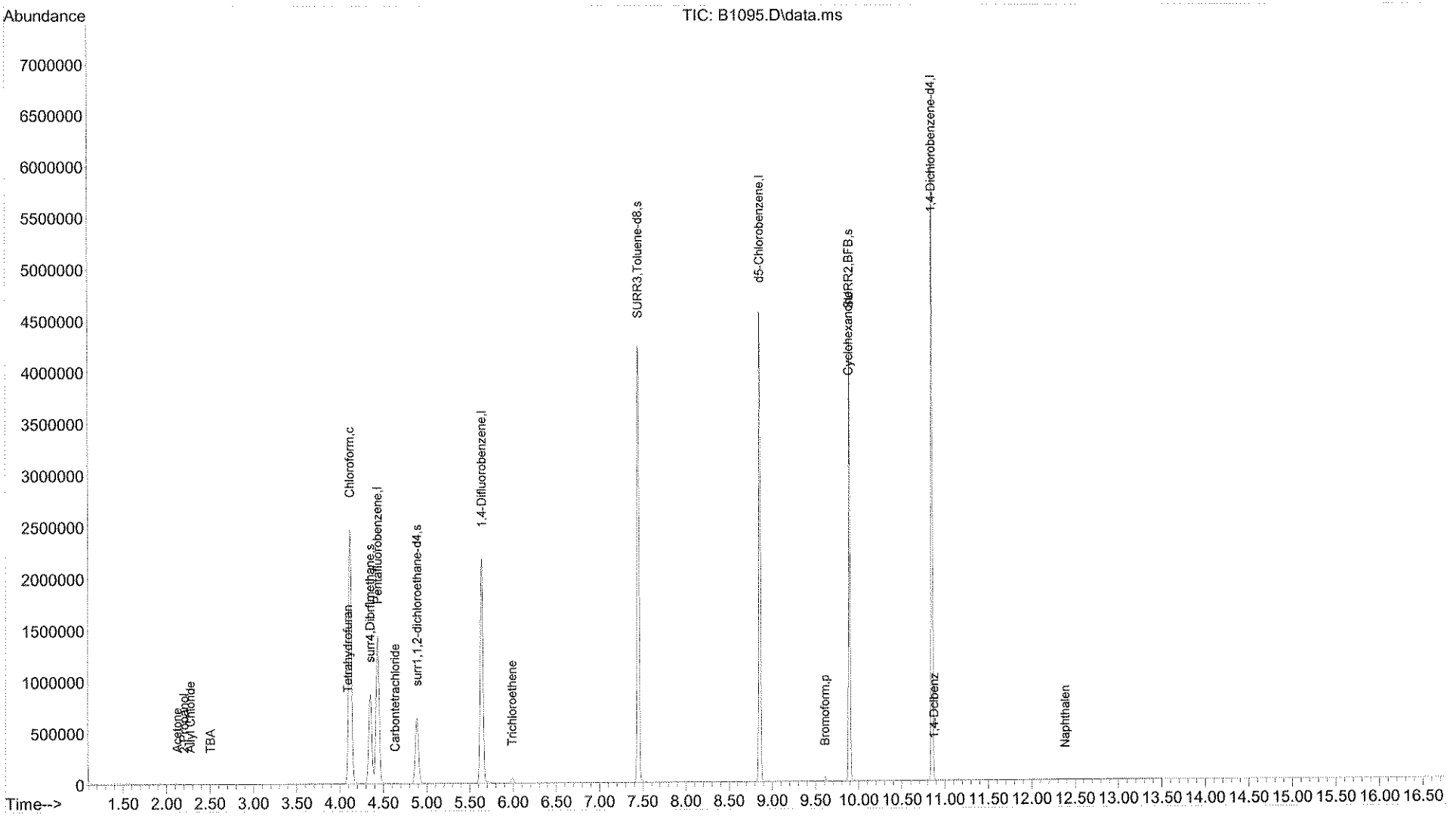
(#) = qualifier out of range (m) = manual integration (+) = signals summed

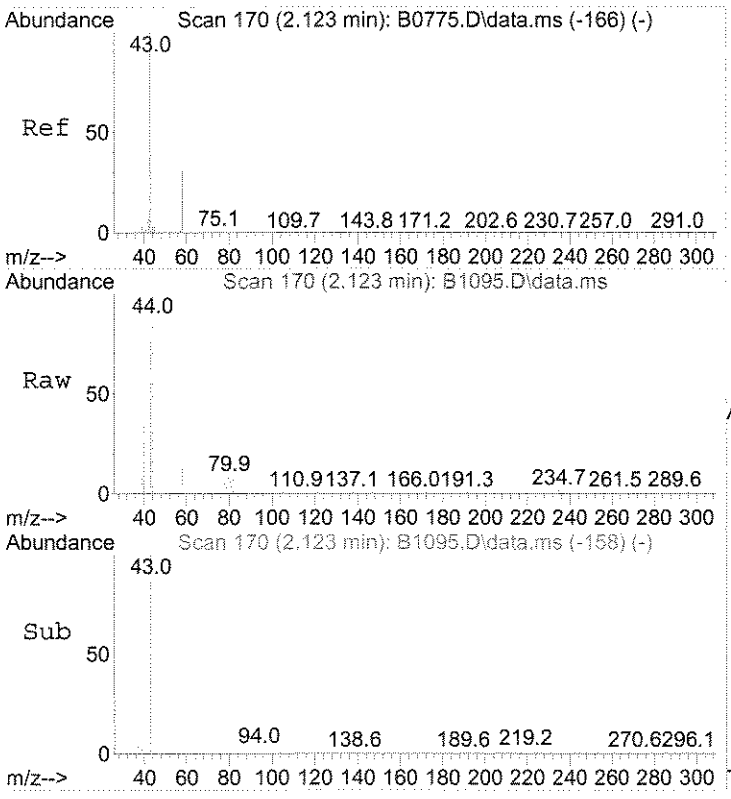
FN
7/17/08

00074

Sample : 1114420 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1095.D Vial: 11
Acq On : 14 Jul 2008 8:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 20:52:35 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

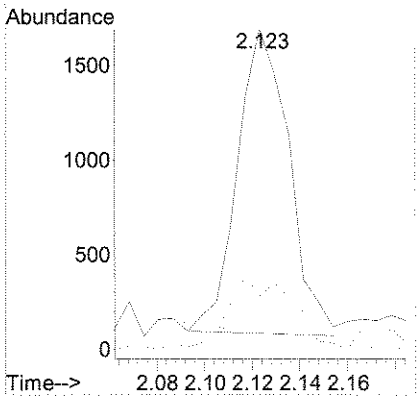


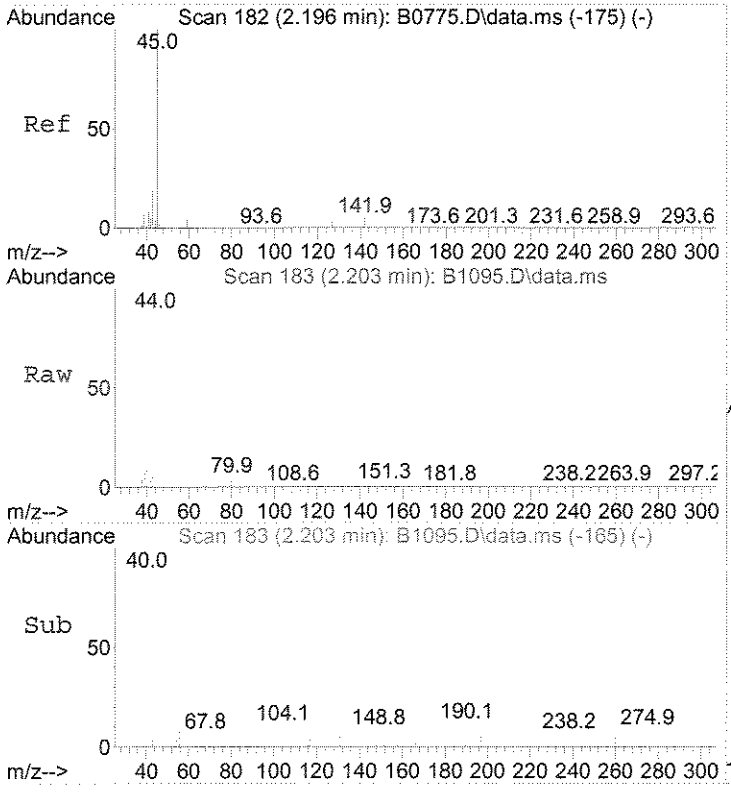


#16
Acetone
Concen: 1.48 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion: 43 Resp: 2420

Ion	Ratio	Lower	Upper
43	100		
58	16.7	0.9	60.9
42	8.0	0.0	37.2

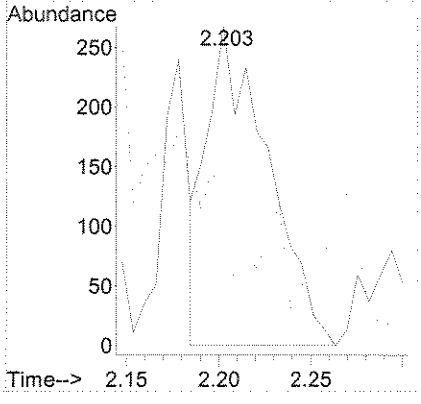


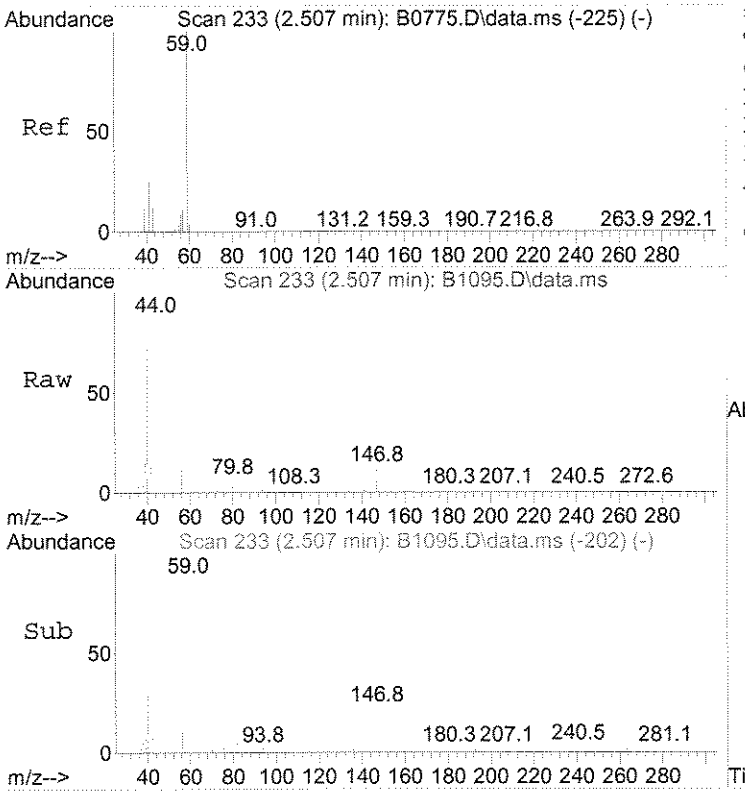


#17
2-Propanol
Concen: 1.78 ug/L
RT: 2.203 min Scan# 183
Delta R.T. -0.000 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion: 45 Resp: 621

Ion	Ratio	Lower	Upper
45	100		
43	38.8	17.0	25.4#

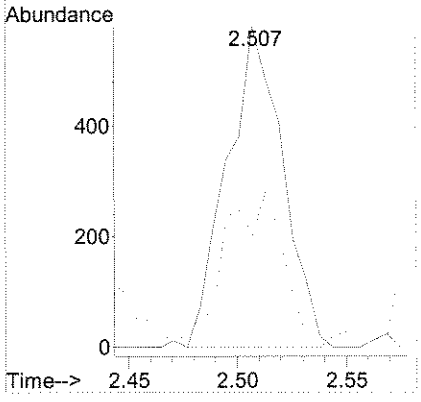


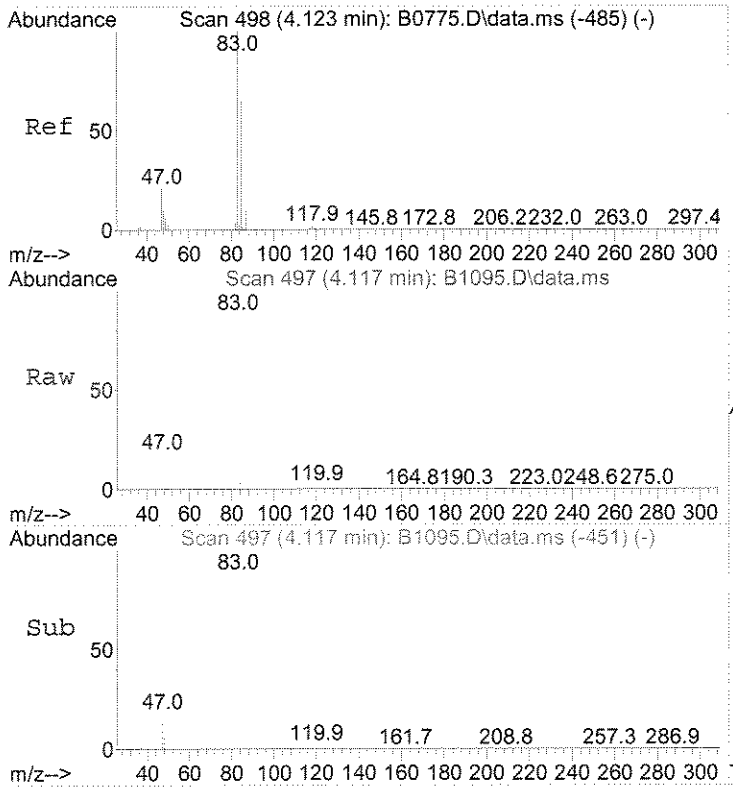


#24
TBA
Concen: 1.86 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion: 59 Resp: 1031

Ion	Ratio	Lower	Upper
59	100		
41	34.8	14.5	43.6

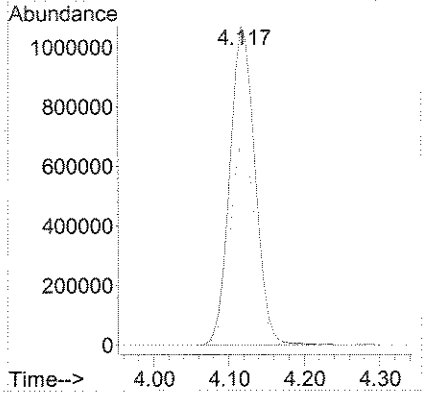


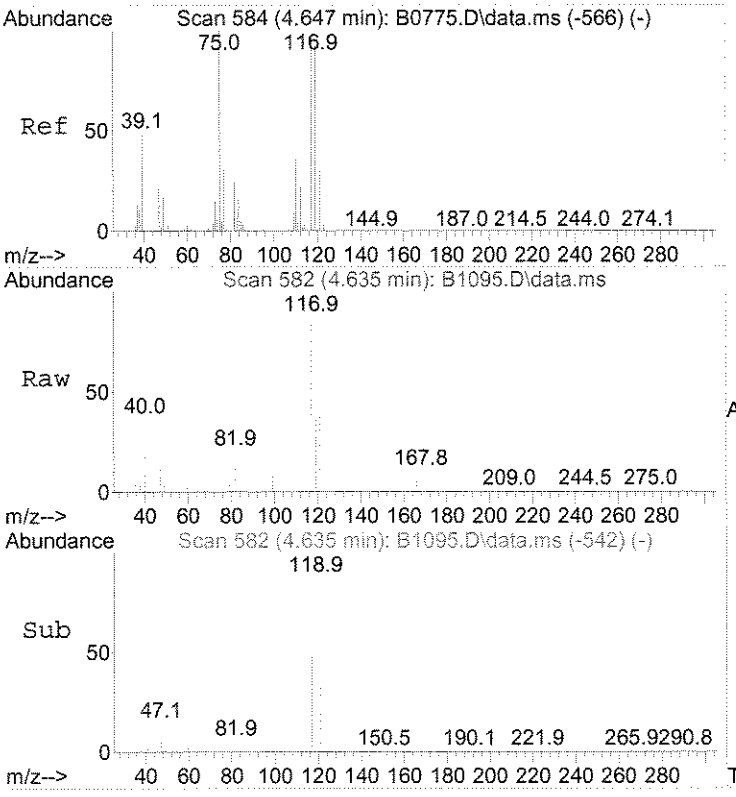


#41
Chloroform
Concen: 129.98 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion: 83 Resp: 2505421

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.7	77.5
47	18.0	17.1	25.7

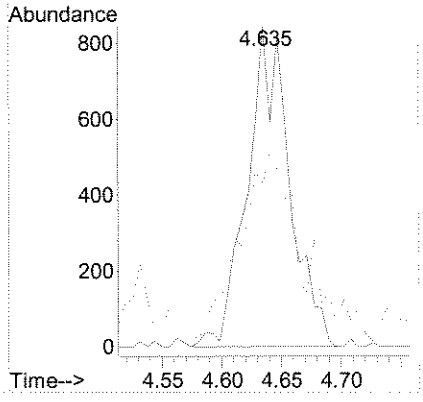


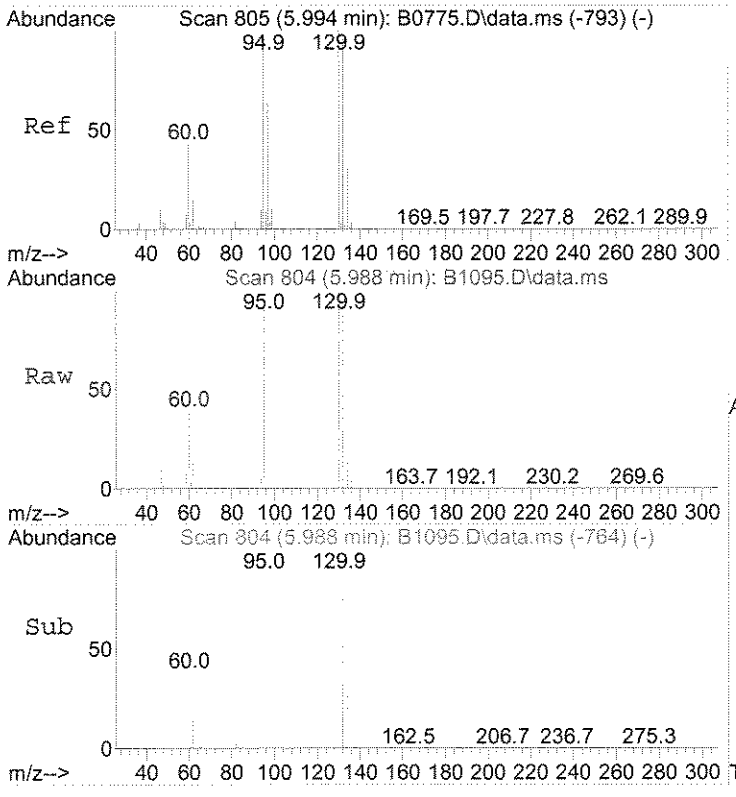


#47
Carbontetrachloride
Concen: 0.38 ug/L
RT: 4.635 min Scan# 582
Delta R.T. -0.006 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion:121 Resp: 2082

Ion	Ratio	Lower	Upper
121	100		
82	51.1	62.0	93.0#

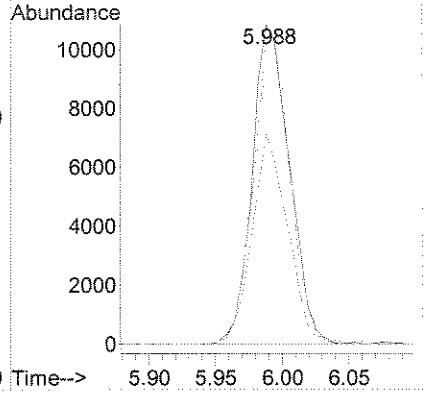


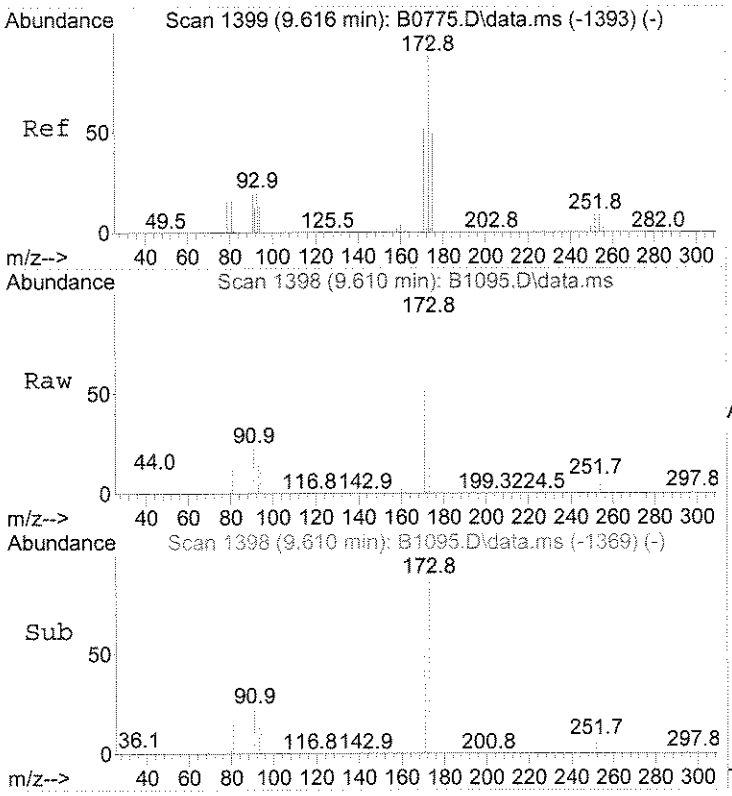


#54
Trichloroethene
Concen: 1.72 ug/L
RT: 5.988 min Scan# 804
Delta R.T. -0.006 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion:130 Resp: 21010

Ion	Ratio	Lower	Upper
130	100		
132	91.6	77.0	115.4
95	95.8	78.6	118.0
97	65.9	50.9	76.3

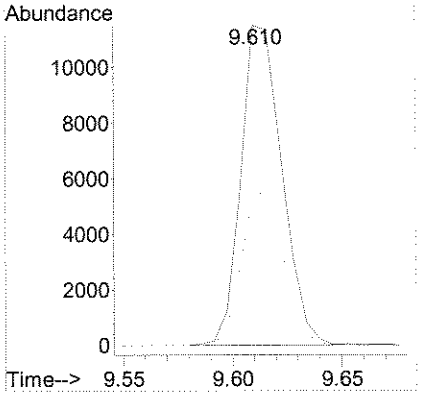


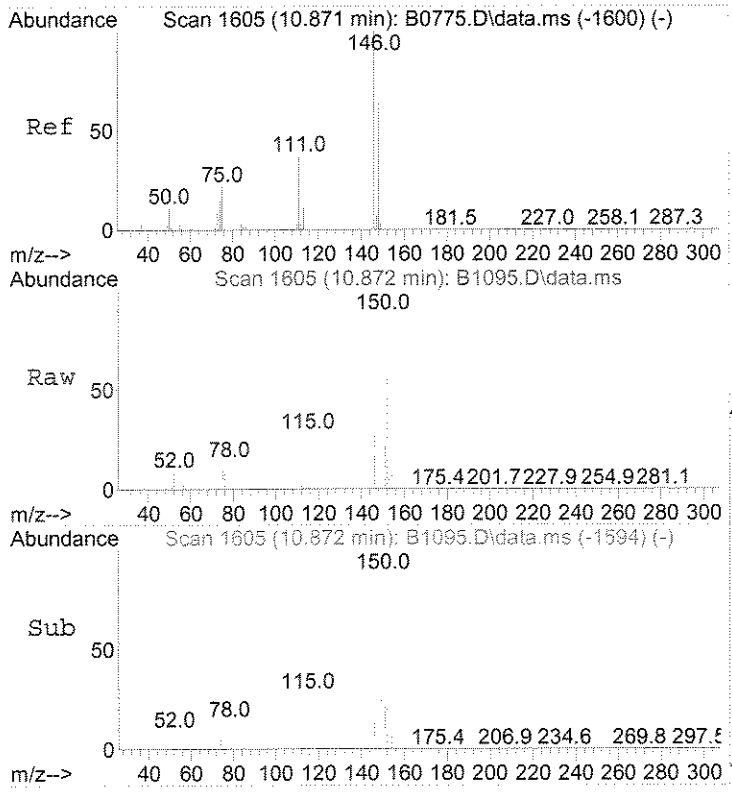


#83
Bromoform
Concen: 1.99 ug/L
RT: 9.610 min Scan# 1398
Delta R.T. -0.006 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion:173 Resp: 15099

Ion	Ratio	Lower	Upper
173	100		
175	47.5	39.4	59.0

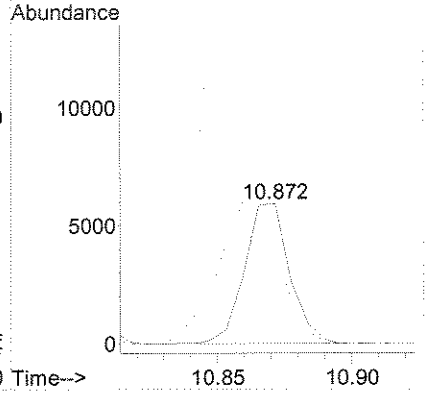




#101
1,4-Dclbenz
Concen: 0.23 ug/L
RT: 10.872 min Scan# 1605
Delta R.T. -0.000 min
Lab File: B1095.D
Acq: 14 Jul 2008 8:38 pm

Tgt Ion:146 Resp: 6948

Ion	Ratio	Lower	Upper
146	100		
148	66.0	51.2	76.8
111	35.8	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 2.50

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	3.8 J	UG/L
BENZENE	1.0	2.5 U	UG/L
BROMOBENZENE	2.0	5.0 U	UG/L
BROMOCHLOROMETHANE	2.0	5.0 U	UG/L
BROMODICHLOROMETHANE	1.0	2.5 U	UG/L
BROMOFORM	1.0	9.0	UG/L
BROMOMETHANE	2.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
TERT-BUTYL ALCOHOL	100	6.8 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	2.5 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	2.5 U	UG/L
TERT-BUTYLBENZENE	2.0	5.0 U	UG/L
SEC-BUTYLBENZENE	2.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	13 U	UG/L
CARBON TETRACHLORIDE	1.0	0.70 J	UG/L
CHLOROBENZENE	1.0	2.5 U	UG/L
CHLOROETHANE	2.0	5.0 U	UG/L
CHLOROFORM	1.0	570 E	UG/L
CHLOROMETHANE	2.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	13 U	UG/L
2-CHLOROTOLUENE	5.0	13 U	UG/L
4-CHLOROTOLUENE	5.0	13 U	UG/L
DIBROMOCHLOROMETHANE	1.0	0.58 J	UG/L
1,2-DIBROMOETHANE	1.0	2.5 U	UG/L
DIBROMOMETHANE	1.0	2.5 U	UG/L
1,2-DICHLOROBENZENE	2.0	0.58 J	UG/L
1,4-DICHLOROBENZENE	2.0	1.1 J	UG/L
1,3-DICHLOROBENZENE	2.0	5.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.5 U	UG/L
1,1-DICHLOROETHANE	1.0	2.5 U	UG/L
1,2-DICHLOROETHANE	1.0	2.5 U	UG/L
1,1-DICHLOROETHENE	1.0	2.5 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	2.5 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	2.5 U	UG/L
2,2-DICHLOROPROPANE	2.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	2.5 U	UG/L
1,3-DICHLOROPROPANE	2.0	5.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	2.5 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	2.5 U	UG/L
ETHYLBENZENE	1.0	2.5 U	UG/L
HEXACHLOROBUTADIENE	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
DI-ISOPROPYL ETHER	1.0	2.5 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 2.50

ANALYTE	PQL	RESULT	UNITS
ISOPROPYLBENZENE	2.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	5.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	2.5 U	UG/L
METHYLENE CHLORIDE	2.0	5.0 U	UG/L
NAPHTHALENE	2.0	5.0 U	UG/L
4-METHYL-2-PENTANONE	10	25 U	UG/L
N-PROPYLBENZENE	2.0	5.0 U	UG/L
STYRENE	1.0	2.5 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	2.5 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	2.5 U	UG/L
TETRACHLOROETHENE	1.0	0.52 J	UG/L
TOLUENE	1.0	2.5 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	5.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	2.5 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	2.5 U	UG/L
TRICHLOROETHENE	1.0	13	UG/L
TRICHLOROFLUOROMETHANE	1.0	2.5 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	2.5 U	UG/L
M+P-XYLENE	2.0	5.0 U	UG/L
O-XYLENE	1.0	2.5 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1096.D Vial: 12
Acq On : 14 Jul 2008 9:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 21:22:23 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.434	168	1316853	50.00	ug/L		0.00	
44) 1,4-Difluorobenzene	5.641	114	2192753	50.00	ug/L		0.00	
71) d5-Chlorobenzene	8.860	117	2151370	50.00	ug/L		0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1172504	50.00	ug/L		0.00	
System Monitoring Compounds								
46) surr4,Dibrflmethane	4.348	113	696887	48.16	ug/L		0.00	
Spiked Amount 50.000			Recovery = 96.32%					
49) surr1,1,2-dichloroetha...	4.891	65	635594	46.11	ug/L		0.00	
Spiked Amount 50.000			Recovery = 92.22%					
65) SURR3,Toluene-d8	7.445	98	2609496	54.67	ug/L		0.00	
Spiked Amount 50.000			Recovery = 109.34%					
70) SURR2,BFB	9.896	95	1092947	55.60	ug/L		0.00	
Spiked Amount 50.000			Recovery = 111.20%					
Target Compounds							Qvalue	
16) Acetone	2.123	43	2462	1.52	ug/L		93	J
17) 2-Propanol	2.196	45	1368	3.96	ug/L	#	84	NT
21) Allyl Chloride	~~2.276~~	~~76~~	~~1513~~	~~0.31~~	~~ug/L~~	~~#~~	~~1~~	
24) TBA	2.513	59	1482 ~~757~~ 2.7%	~~1.38~~	ug/L		FD 7/17 93	JB
40) Tetrahydrofuran	~~4.117~~	~~42~~	~~8338~~	~~5.33~~	~~ug/L~~	~~#~~	~~1~~	
41) Chloroform	4.117	83	4348853	227.62	ug/L		97	E
47) Carbontetrachloride	4.647	121	1532	0.28	ug/L	#	72	J
54) Trichloroethene	5.994	130	64924	5.35	ug/L		97	
72) Tetrachloroethene	8.073	164	2270	0.21	ug/L		88	>J
75) Dibromochloromethane	8.323	129	2828	0.23	ug/L		97	>J
83) Bromoform	9.616	173	27239	3.61	ug/L		99	
85) Cyclohexanone	~~9.853~~	~~55~~	~~579~~	~~0.59~~	~~ug/L~~	~~#~~	~~50~~	
101) 1,4-Dclbenz	10.865	146	13637	0.45	ug/L	#	84	>J
104) 1,2-Dclbenz	11.164	146	6505	0.23	ug/L		98	>J
109) Naphthalen	~~12.383~~	~~128~~	~~457~~	~~0.54~~	~~ug/L~~	~~#~~	~~79~~	<LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

RPT 4/5

FD 7/17/08

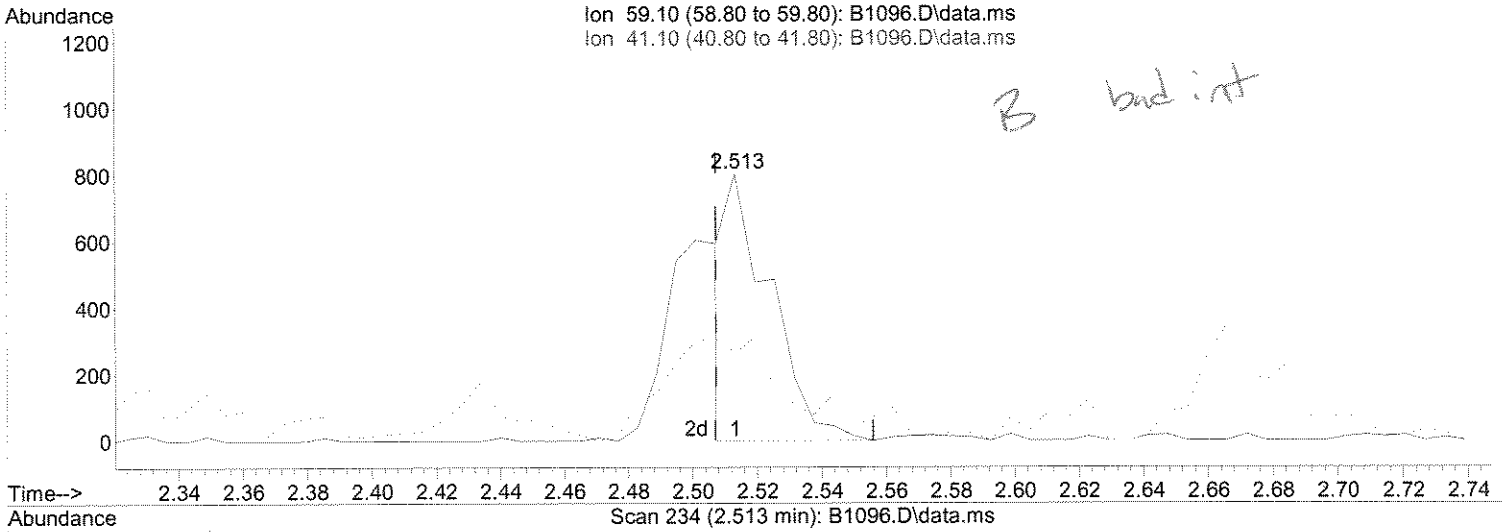
00082

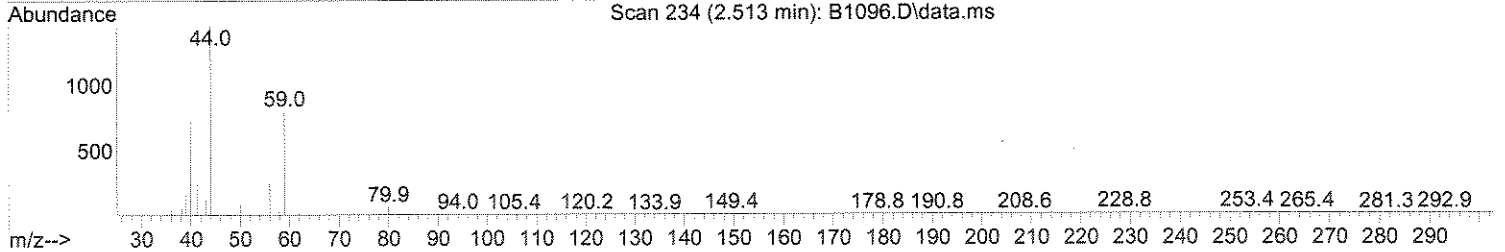
Quantitation Report (Qedit)

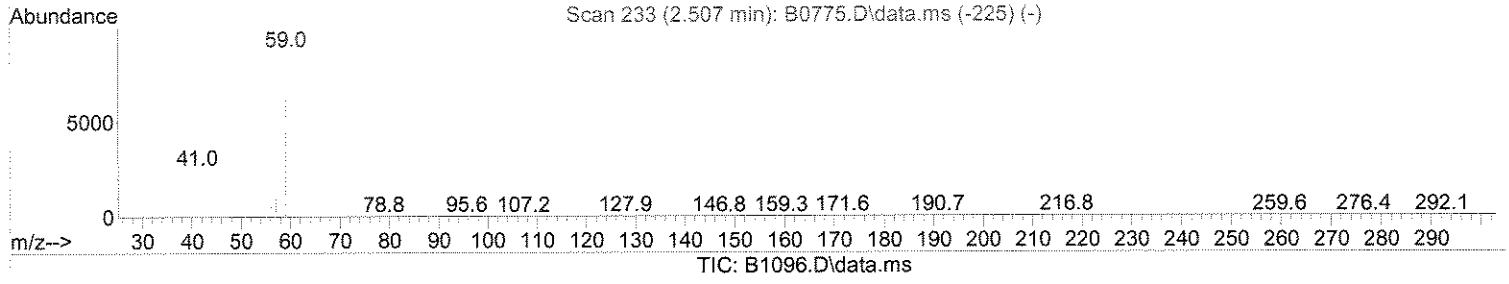
Sample : 1114421 2.5
Data File : J:\ACQUDATA\msvoa10\data\071408\B1096.D Vial: 12
Acq On : 14 Jul 2008 9:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 21:22:23 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/17/08







TIC: B1096.D\data.ms

(24) TBA

2.513min (+0.006) 1.38 ug/L

response 757

Ion	Exp%	Act%
59.10	100	100
41.10	29.10	32.96
0.00	0.00	0.00
0.00	0.00	0.00

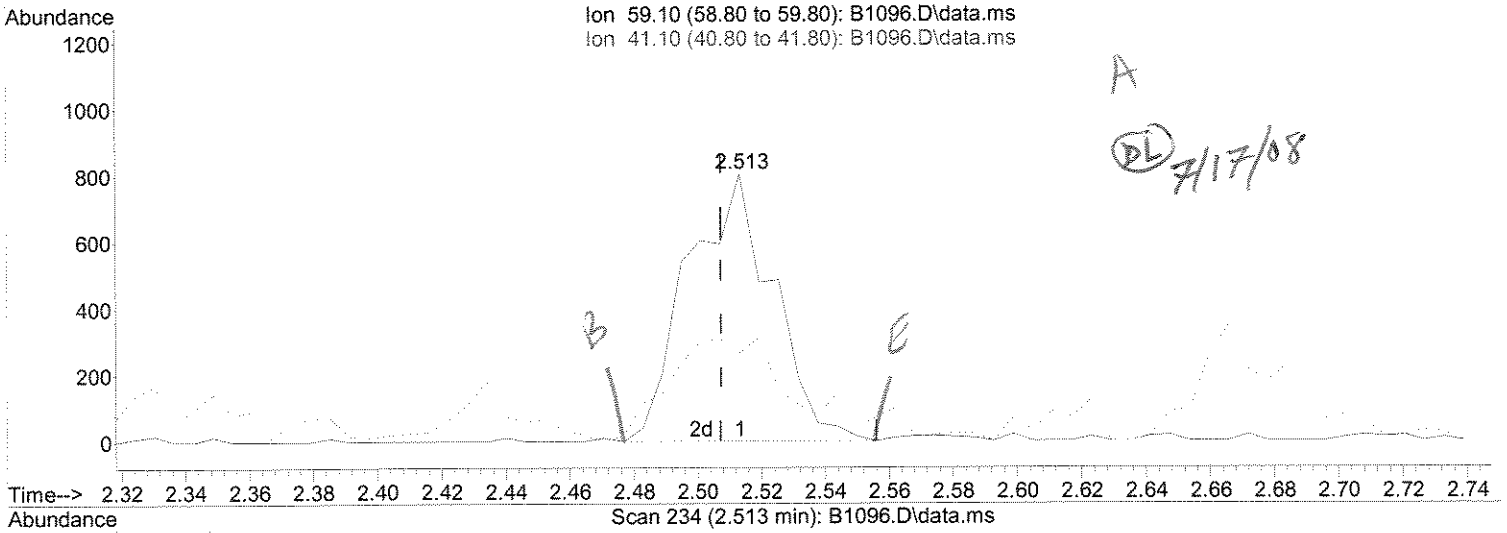
00083

Quantitation Report (Qedit)

Sample : 1114421 2.5
Data File : J:\ACQUDATA\msvoa10\data\071408\B1096.D Vial: 12
Acq On : 14 Jul 2008 9:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

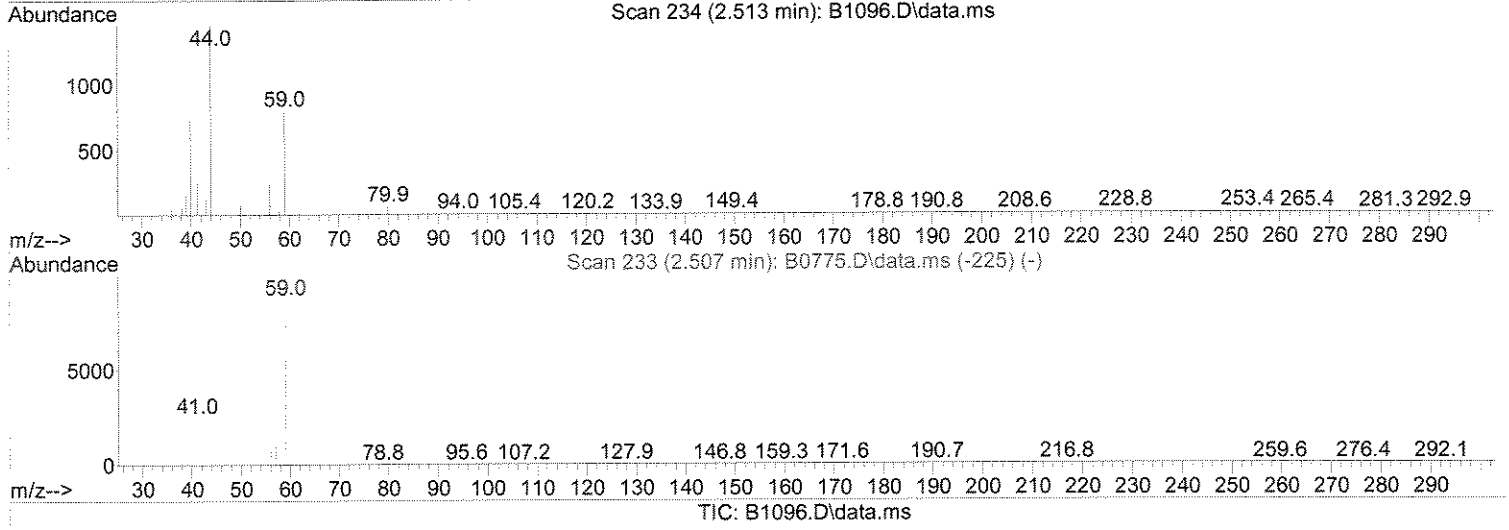
Quant Time: Jul 14 21:22:23 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FJ 7/17/08



A

DL 7/17/08



TIC: B1096.D\data.ms

(24) TBA

2.513min (+0.006) 2.70 ug/L m

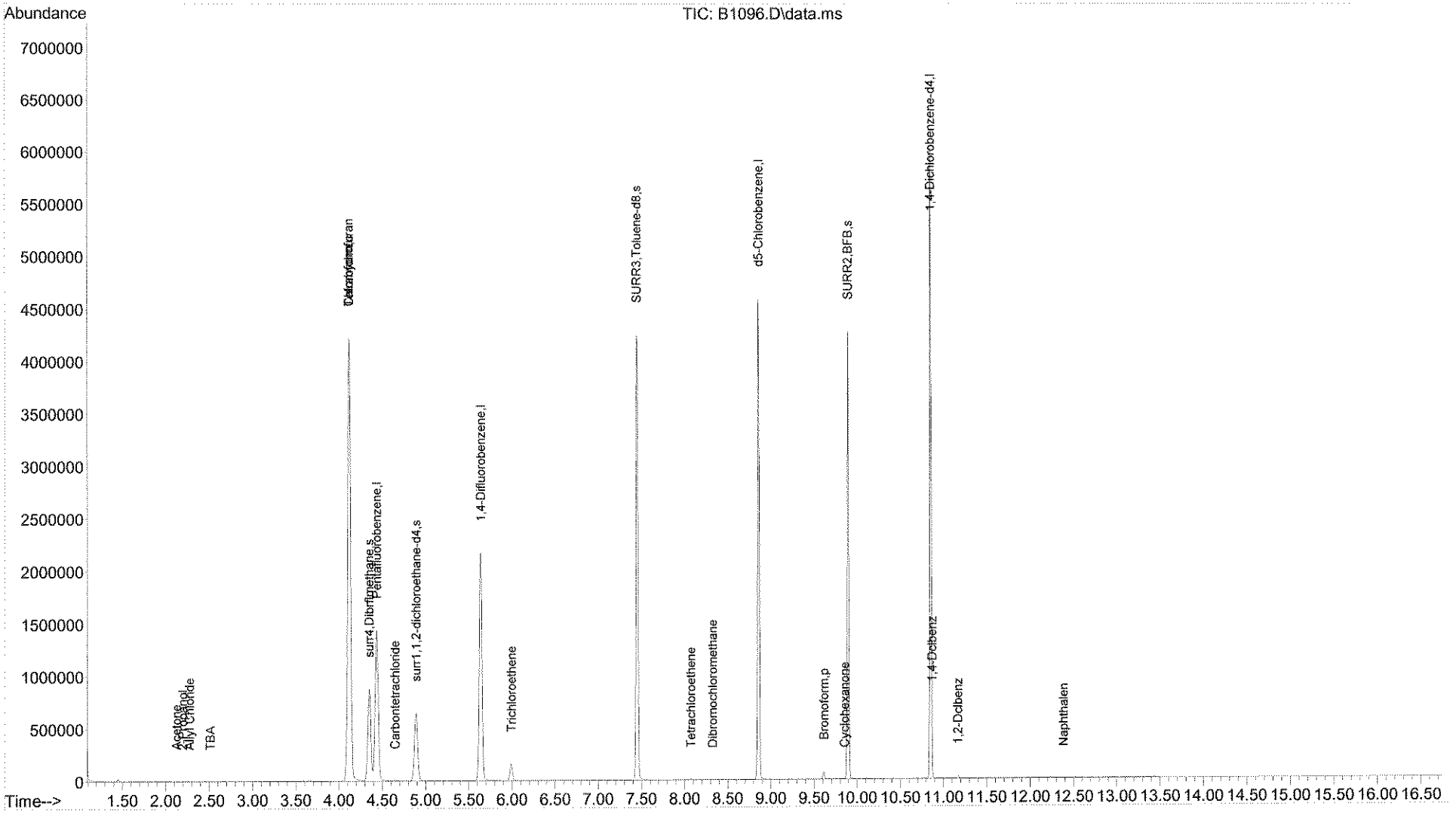
response 1482

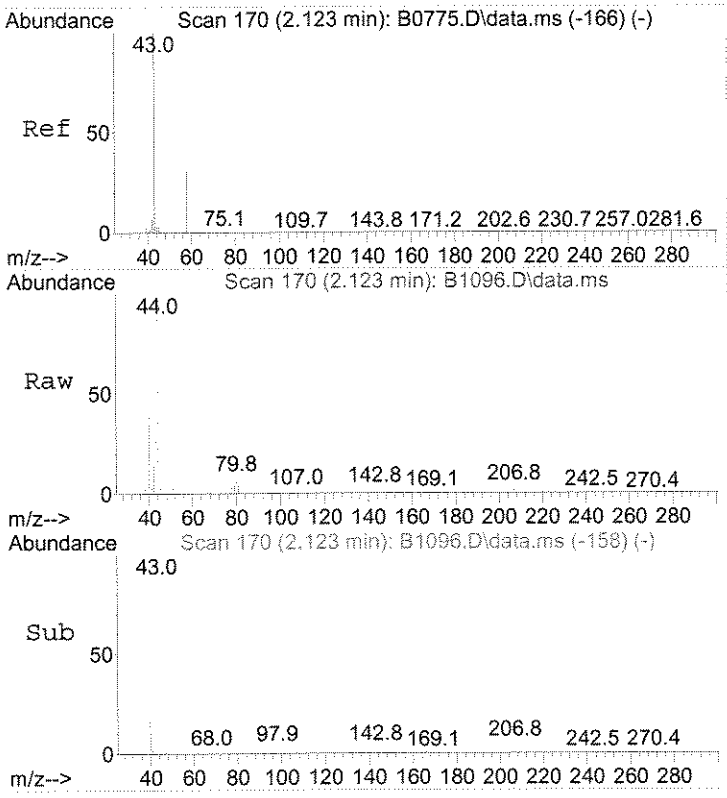
Ion	Exp%	Act%
59.10	100	100
41.10	29.10	32.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1096.D Vial: 12
Acq On : 14 Jul 2008 9:08 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 21:22:23 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

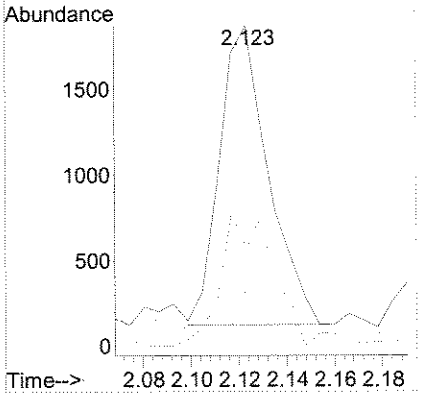


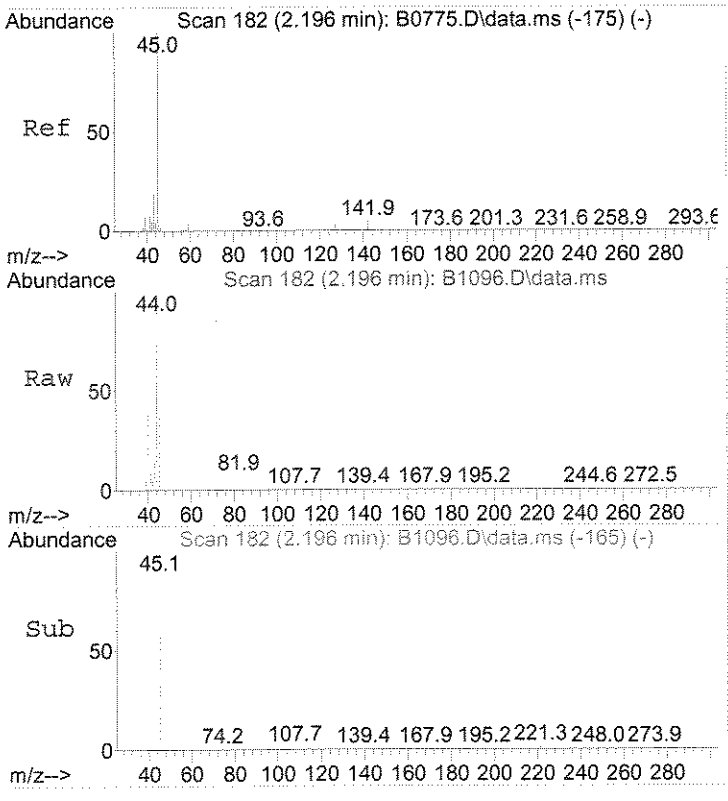


#16
Acetone
Concen: 1.52 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion: 43 Resp: 2462

Ion	Ratio	Lower	Upper
43	100		
58	30.4	0.9	60.9
42	17.9	0.0	37.2

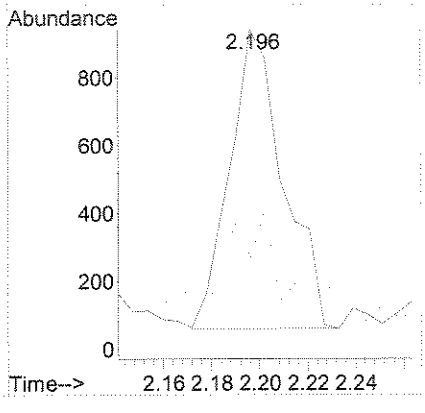


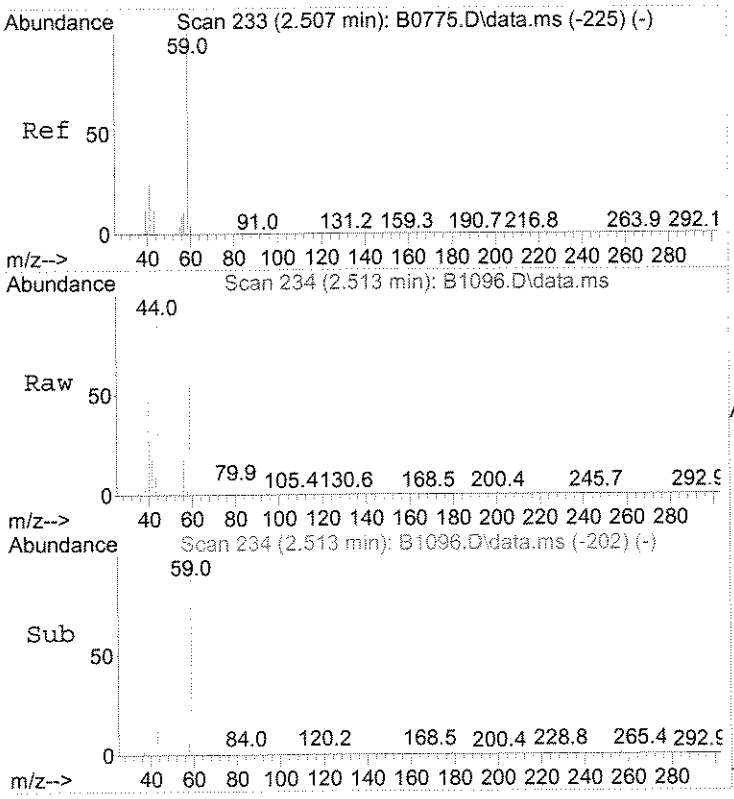


#17
2-Propanol
Concen: 3.96 ug/L
RT: 2.196 min Scan# 182
Delta R.T. -0.006 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion: 45 Resp: 1368

Ion	Ratio	Lower	Upper
45	100		
43	28.7	17.0	25.4#

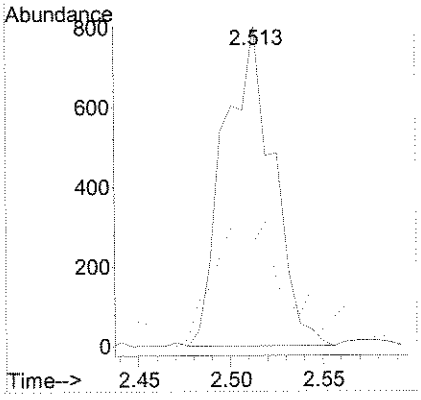


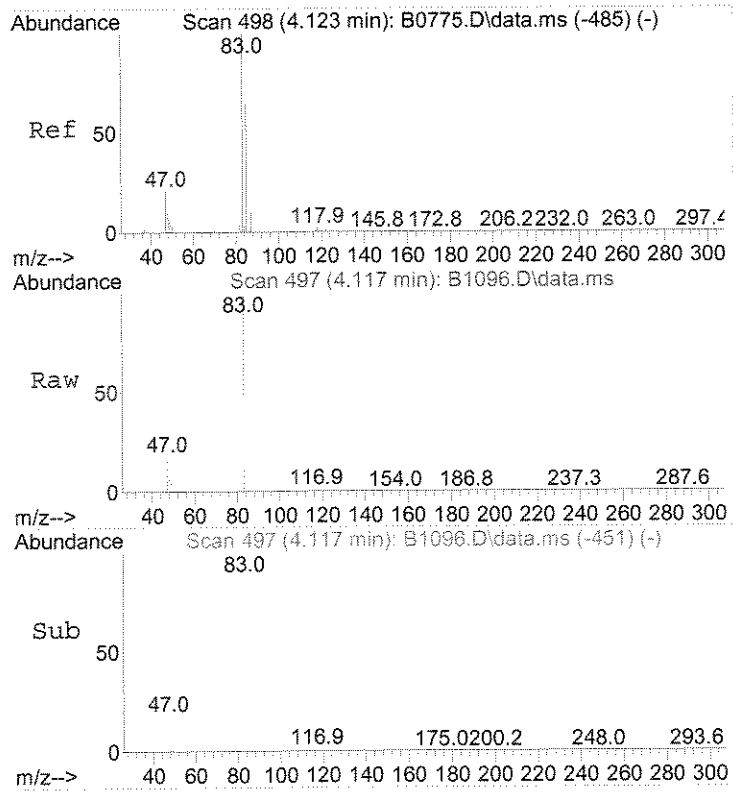


#24
TBA
Concen: 2.70 ug/L m
RT: 2.513 min Scan# 234
Delta R.T. 0.006 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion: 59 Resp: 1482

Ion	Ratio	Lower	Upper
59	100		
41	33.0	14.5	43.6

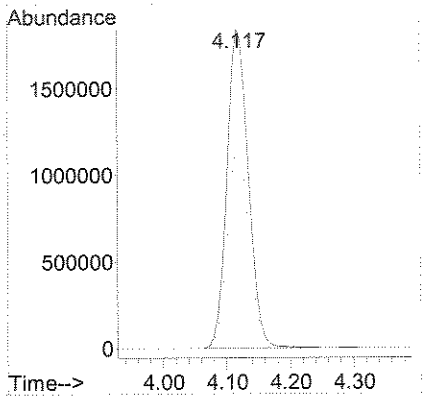


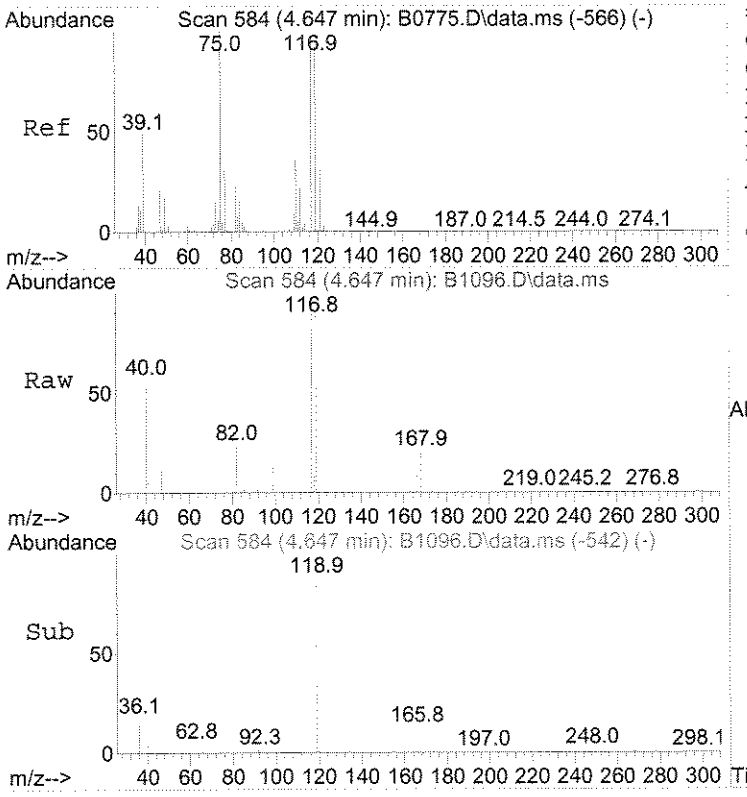


#41
Chloroform
Concen: 227.62 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion: 83 Resp: 4348853

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.7	77.5
47	18.0	17.1	25.7

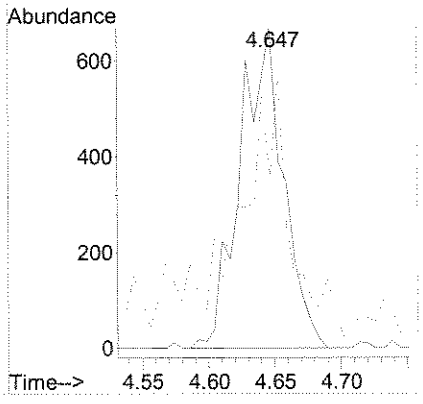


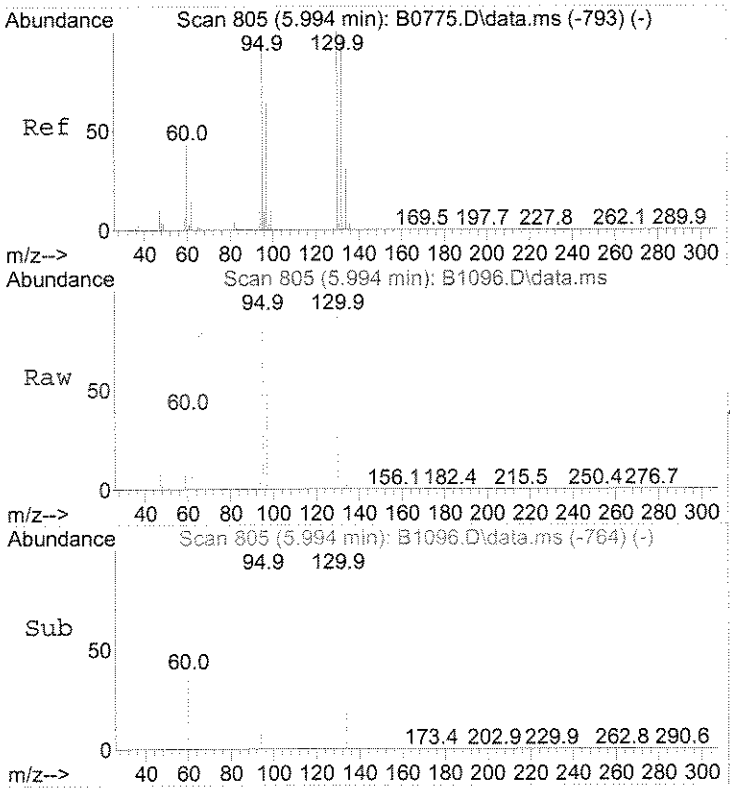


#47
Carbontetrachloride
Concen: 0.28 ug/L
RT: 4.647 min Scan# 584
Delta R.T. 0.006 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:121 Resp: 1532

Ion	Ratio	Lower	Upper
121	100		
82	53.5	62.0	93.0#

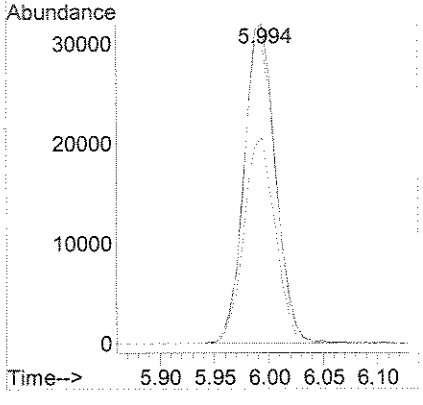


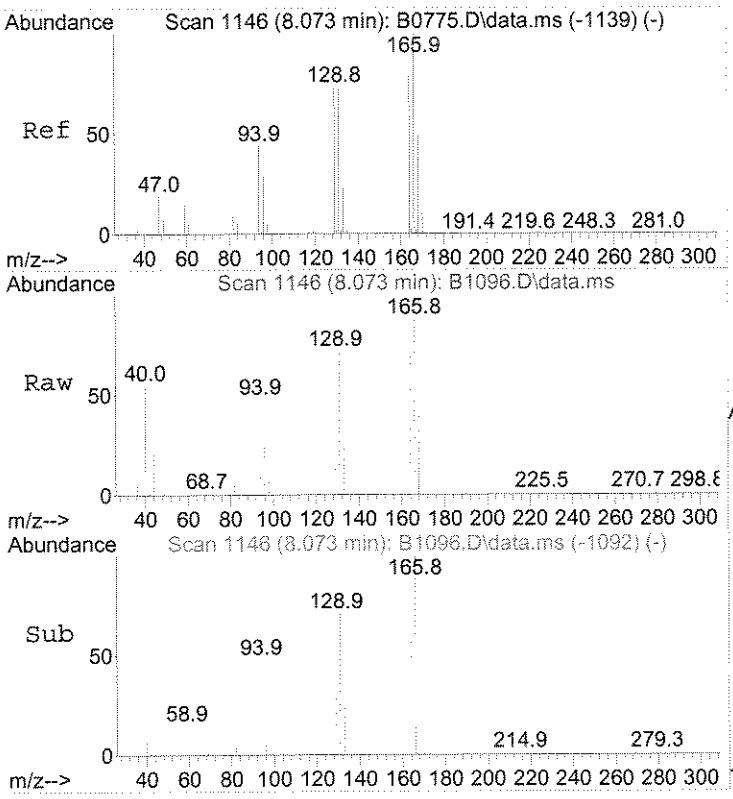


#54
Trichloroethene
Concen: 5.35 ug/L
RT: 5.994 min Scan# 805
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:130 Resp: 64924

Ion	Ratio	Lower	Upper
130	100		
132	94.0	77.0	115.4
95	94.1	78.6	118.0
97	64.5	50.9	76.3

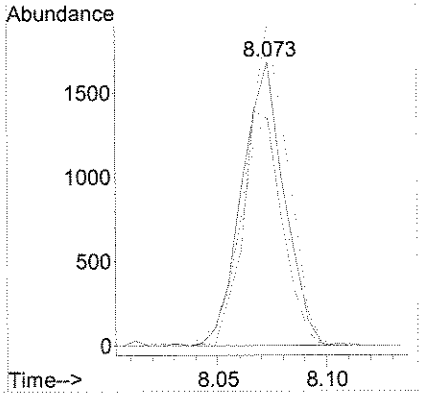


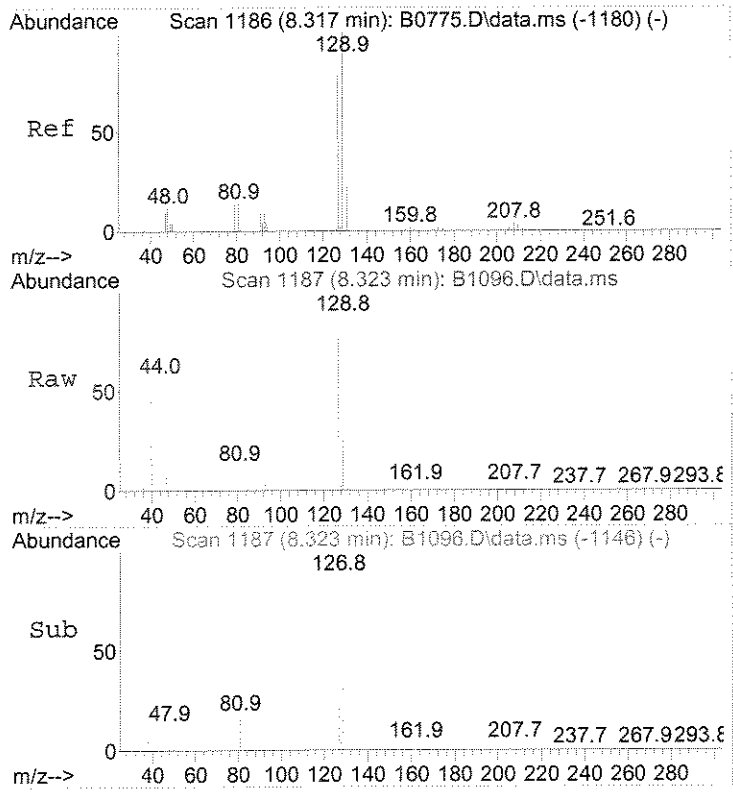


#72
Tetrachloroethene
Concen: 0.21 ug/L
RT: 8.073 min Scan# 1146
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:164 Resp: 2270

Ion	Ratio	Lower	Upper
164	100		
166	112.7	101.5	152.3
129	80.6	73.8	110.6
131	80.0	72.9	109.3

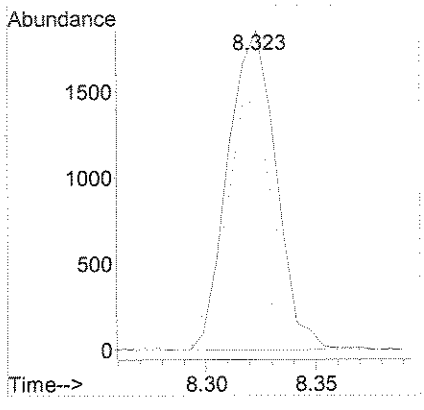


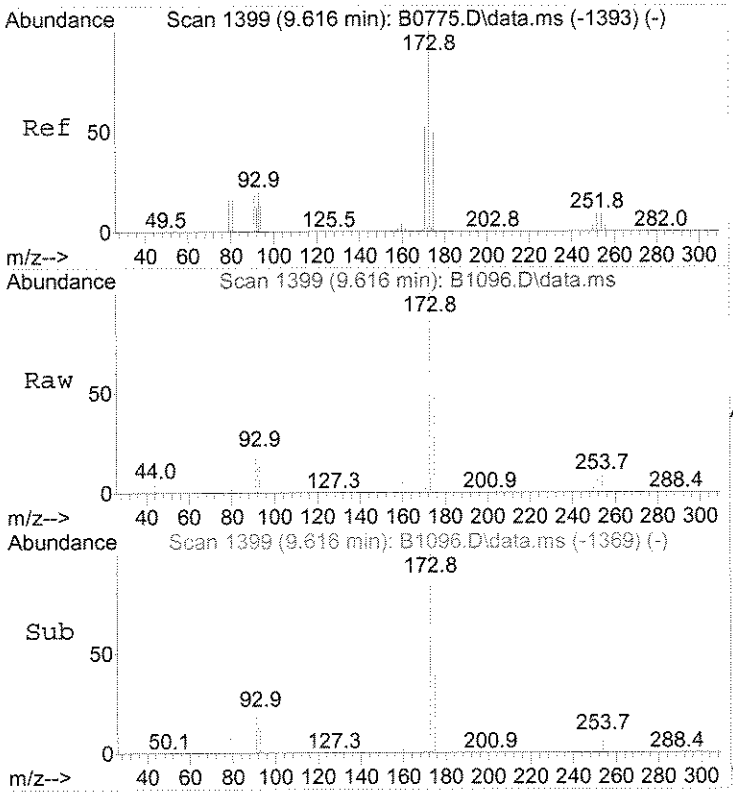


#75
Dibromochloromethane
Concen: 0.23 ug/L
RT: 8.323 min Scan# 1187
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:129 Resp: 2828

Ion	Ratio	Lower	Upper
129	100		
127	77.4	63.2	94.8
131	27.9	18.8	28.2

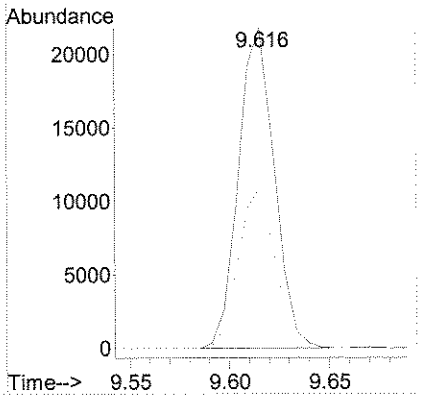


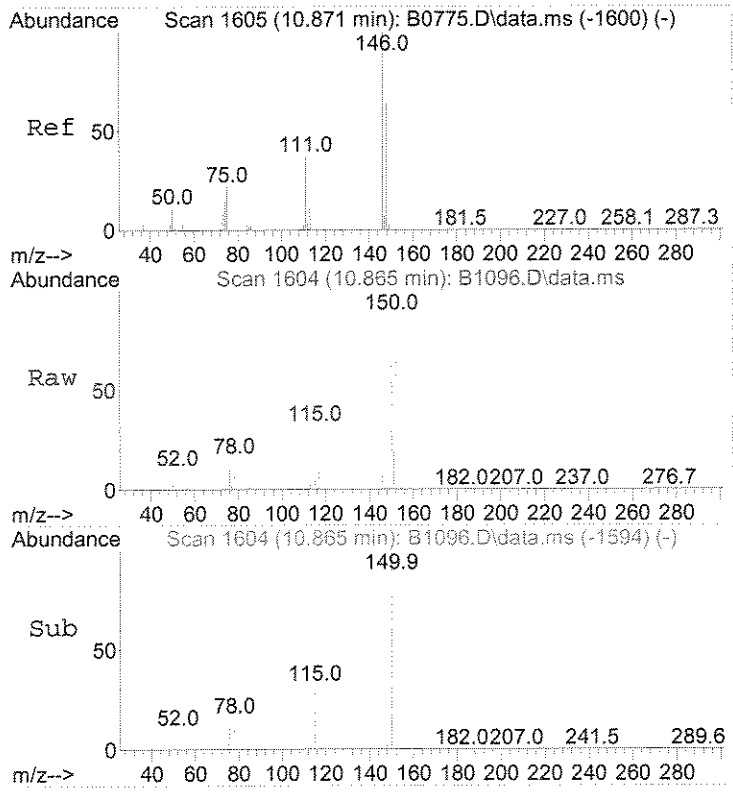


#83
Bromoform
Concen: 3.61 ug/L
RT: 9.616 min Scan# 1399
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:173 Resp: 27239

Ion	Ratio	Lower	Upper
173	100		
175	50.0	39.4	59.0

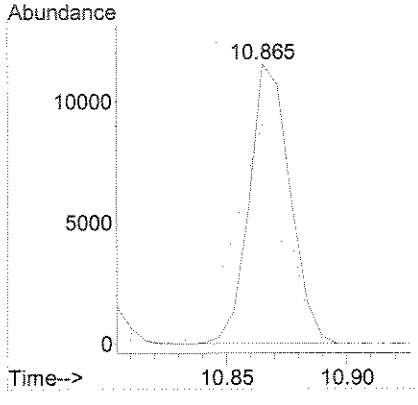


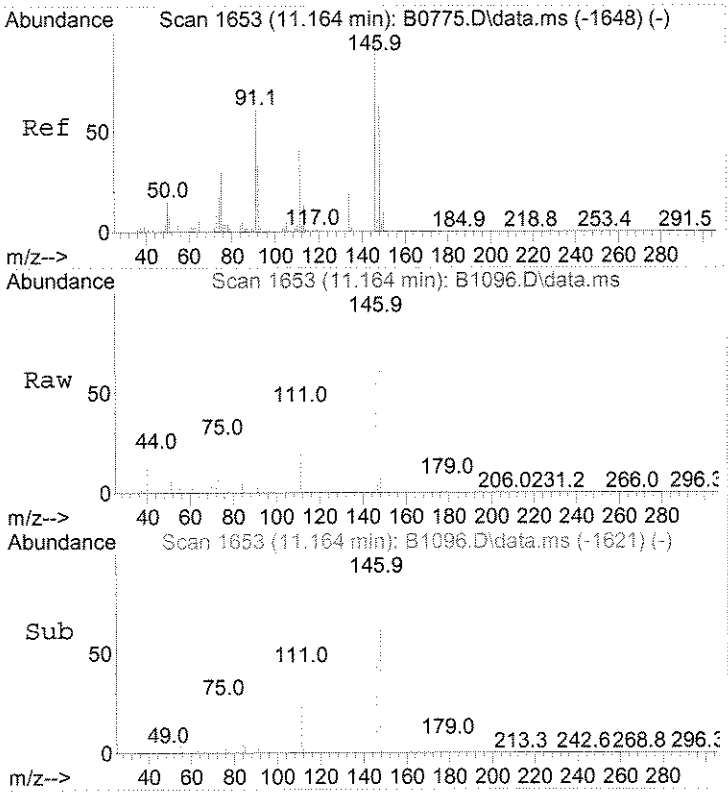


#101
1,4-Dclbenz
Concen: 0.45 ug/L
RT: 10.865 min Scan# 1604
Delta R.T. -0.006 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:146 Resp: 13637

Ion	Ratio	Lower	Upper
146	100		
148	78.8	51.2	76.8#
111	44.5	30.0	45.0

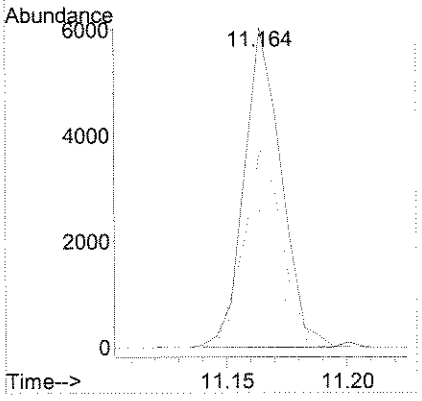




#104
1,2-Dclbenz
Concen: 0.23 ug/L
RT: 11.164 min Scan# 1653
Delta R.T. -0.000 min
Lab File: B1096.D
Acq: 14 Jul 2008 9:08 pm

Tgt Ion:146 Resp: 6505

Ion	Ratio	Lower	Upper
146	100		
148	62.0	50.3	75.5
111	43.2	33.0	49.4



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	6.6 JD	UG/L
BENZENE	1.0	5.0 U	UG/L
BROMOBENZENE	2.0	10 U	UG/L
BROMOCHLOROMETHANE	2.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	5.0 U	UG/L
BROMOFORM	1.0	8.8 D	UG/L
BROMOMETHANE	2.0	10 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
TERT-BUTYL ALCOHOL	100	13 JD	UG/L
METHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	5.0 U	UG/L
TERT-BUTYLBENZENE	2.0	10 U	UG/L
SEC-BUTYLBENZENE	2.0	10 U	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
CARBON TETRACHLORIDE	1.0	5.0 U	UG/L
CHLOROBENZENE	1.0	5.0 U	UG/L
CHLOROETHANE	2.0	10 U	UG/L
CHLOROFORM	1.0	580 D	UG/L
CHLOROMETHANE	2.0	10 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	25 U	UG/L
2-CHLOROTOLUENE	5.0	25 U	UG/L
4-CHLOROTOLUENE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	1.0	5.0 U	UG/L
1,2-DIBROMOETHANE	1.0	5.0 U	UG/L
DIBROMOMETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	10 U	UG/L
1,4-DICHLOROBENZENE	2.0	1.3 JD	UG/L
1,3-DICHLOROBENZENE	2.0	10 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHANE	1.0	5.0 U	UG/L
1,2-DICHLOROETHANE	1.0	5.0 U	UG/L
1,1-DICHLOROETHENE	1.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	5.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	5.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	10 U	UG/L
1,1-DICHLOROPROPENE	2.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	5.0 U	UG/L
ETHYLBENZENE	1.0	5.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
DI-ISOPROPYL ETHER	1.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 5.00			
ISOPROPYLBENZENE	2.0	10 U	UG/L
P-ISOPROPYLTOLUENE	2.0	10 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	5.0 U	UG/L
METHYLENE CHLORIDE	2.0	10 U	UG/L
NAPHTHALENE	2.0	10 U	UG/L
4-METHYL-2-PENTANONE	10	50 U	UG/L
N-PROPYLBENZENE	2.0	10 U	UG/L
STYRENE	1.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	5.0 U	UG/L
TETRACHLOROETHENE	1.0	5.0 U	UG/L
TOLUENE	1.0	5.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	10 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	5.0 U	UG/L
TRICHLOROETHENE	1.0	13 D	UG/L
TRICHLOROFLUOROMETHANE	1.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	10 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	10 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	10 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
M+P-XYLENE	2.0	10 U	UG/L
O-XYLENE	1.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	112	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	95	%

Quantitation Report (Not Reviewed)

Sample : 1114421 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1119.D Vial: 7
Acq On : 15 Jul 2008 5:18 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

DL

Quant Time: Jul 15 17:33:11 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.434	168	1226282	50.00	ug/L		0.00	
44) 1,4-Difluorobenzene	5.641	114	2066935	50.00	ug/L		0.00	
71) d5-Chlorobenzene	8.860	117	2039233	50.00	ug/L		0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1096012	50.00	ug/L		0.00	
System Monitoring Compounds								
46) surr4,Dibrflmethane	4.348	113	650927	47.58	ug/L		0.00	
Spiked Amount 50.000			Recovery =	95.16%				
49) surr1,1,2-dichloroetha...	4.891	65	594434	45.75	ug/L		0.00	
Spiked Amount 50.000			Recovery =	91.50%				
65) SURR3,Toluene-d8	7.445	98	2469835	54.89	ug/L		0.00	
Spiked Amount 50.000			Recovery =	109.78%				
70) SURR2,BFB	9.896	95	1039542	56.10	ug/L		0.00	
Spiked Amount 50.000			Recovery =	112.20%				
Target Compounds							Qvalue	
16) Acetone	2.123	43	2010	1.33	ug/L		85	JD
17) 2-Propanol	2.203	45	312	0.97	ug/L	#	56	NT
20) Acetonitrile	~~2.343~~	~~40~~	~~527~~	~~2.49~~	~~ug/L~~	~~#~~	~~1~~	
21) Allyl Chloride	~~2.276~~	~~76~~	~~1601~~	~~0.35~~	~~ug/L~~	~~#~~	~~1~~	
24) TBA	2.513	59	1327	2.60	ug/L		76	JD
40) Tetrahydrofuran	~~4.092~~	~~42~~	~~2457~~	~~1.69~~	~~ug/L~~	~~#~~	~~1~~	
41) Chloroform	4.117	83	2050883	115.27	ug/L		98	D
54) Trichloroethene	5.994	130	30052	2.63	ug/L		99	D
83) Bromoform	9.616	173	12661	1.77	ug/L		88	D
85) Cyclohexanone	~~9.853~~	~~55~~	~~295~~	~~0.32~~	~~ug/L~~	~~#~~	~~36~~	
101) 1,4-Dclbenz	10.865	146	7386	0.26	ug/L	#	72	JD
109) Naphthalen	~~12.383~~	~~128~~	~~517~~	~~0.55~~	~~ug/L~~	~~#~~	~~82~~	< LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

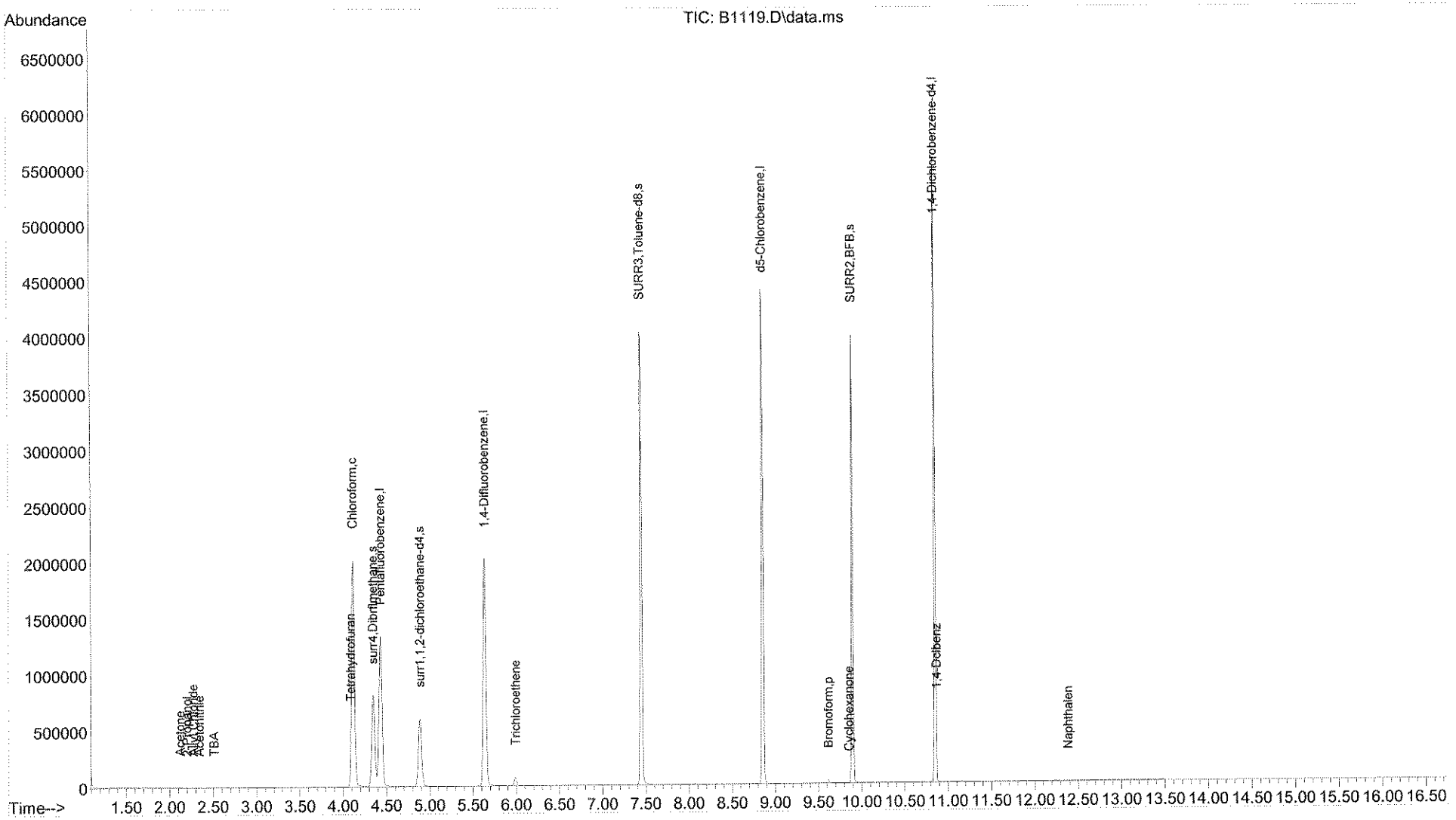
FD
7/18/08

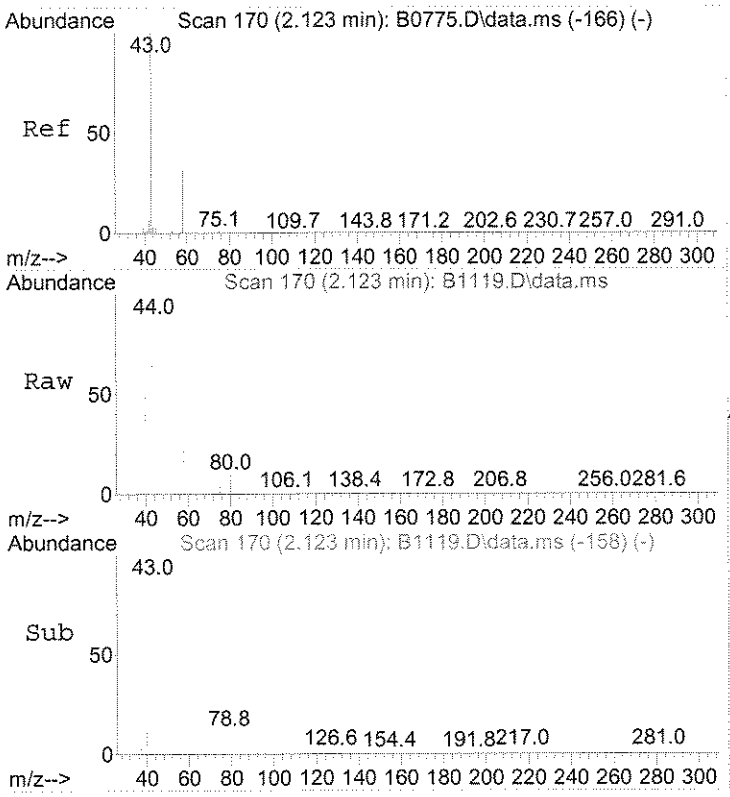
00094

Quantitation Report (Not Reviewed)

Sample : 1114421 5.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1119.D Vial: 7
Acq On : 15 Jul 2008 5:18 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 17:33:11 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

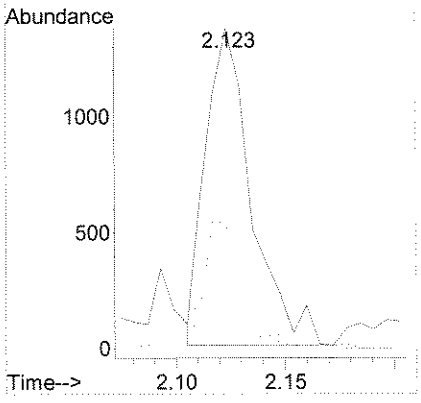


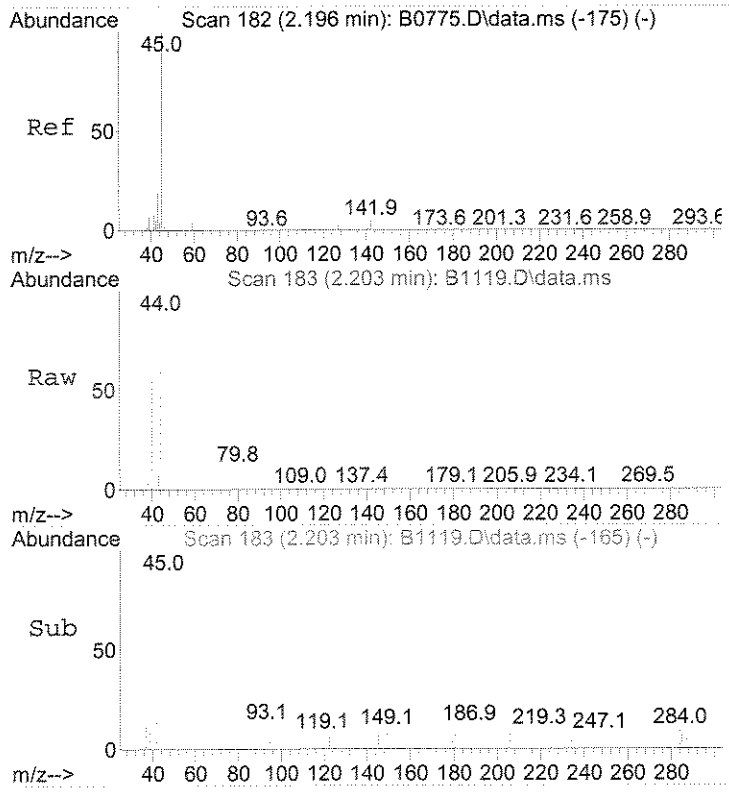


#16
Acetone
Concen: 1.33 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion: 43 Resp: 2010

Ion	Ratio	Lower	Upper
43	100		
58	38.2	0.9	60.9
42	15.4	0.0	37.2

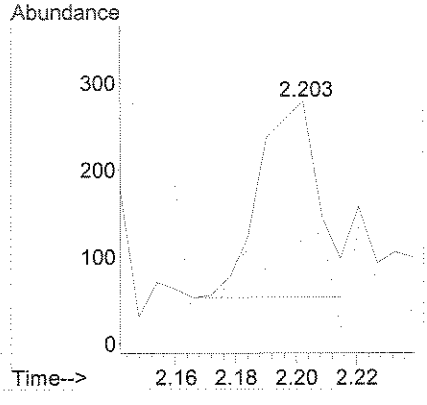


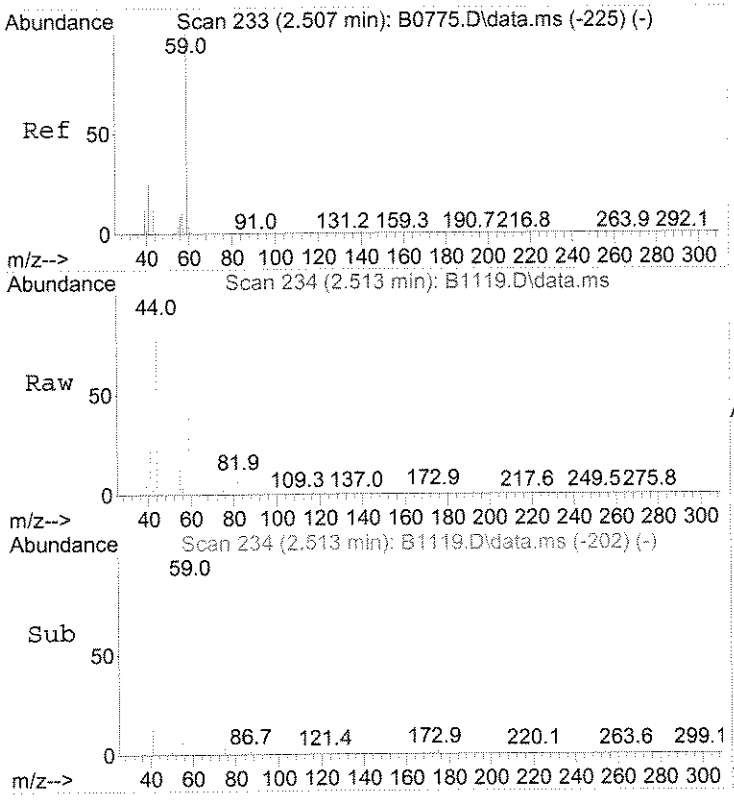


#17
2-Propanol
Concen: 0.97 ug/L
RT: 2.203 min Scan# 183
Delta R.T. -0.000 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion: 45 Resp: 312

Ion	Ratio	Lower	Upper
45	100		
43	41.9	17.0	25.4#

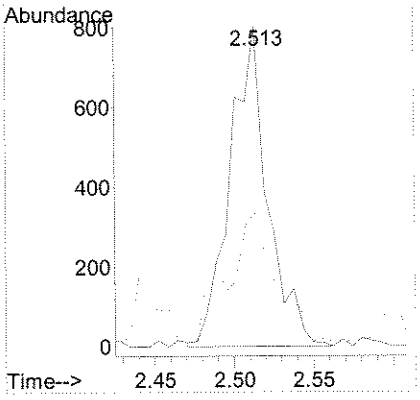


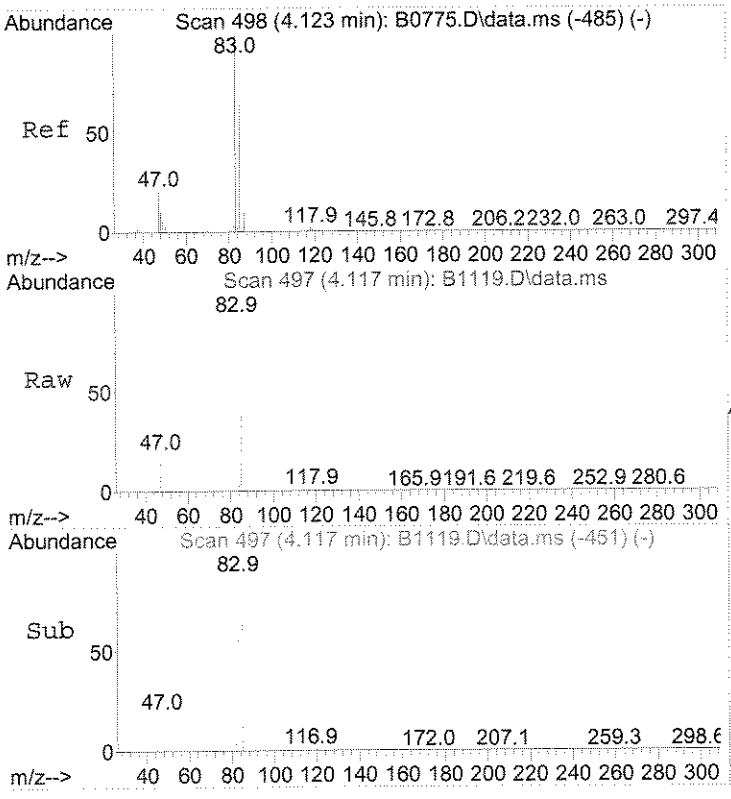


#24
TBA
Concen: 2.60 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.006 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion: 59 Resp: 1327

Ion	Ratio	Lower	Upper
59	100		
41	42.0	14.5	43.6

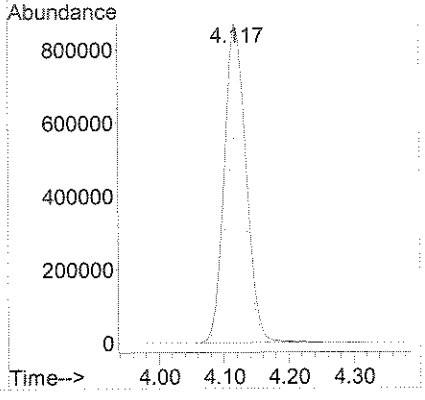


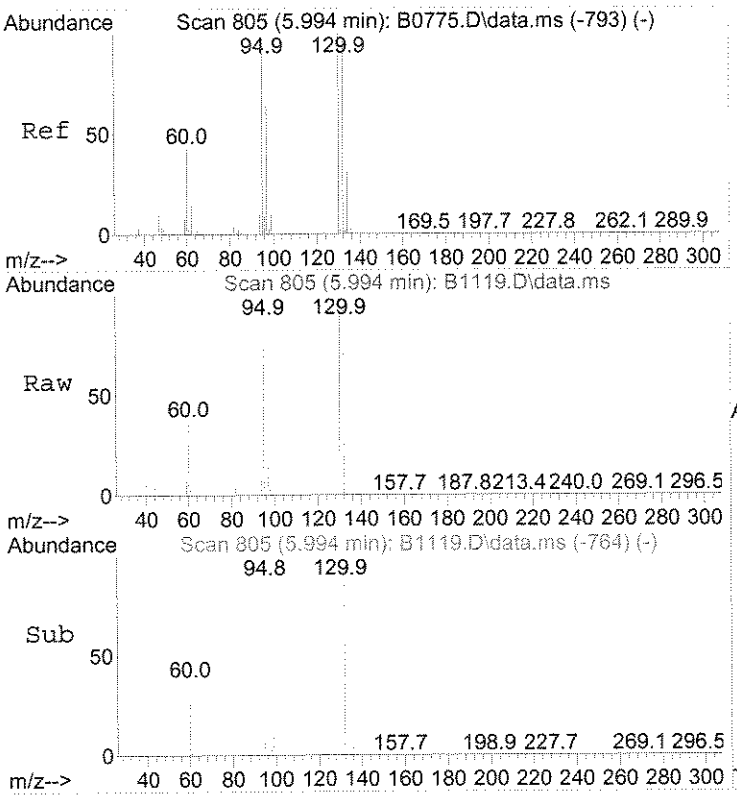


#41
Chloroform
Concen: 115.27 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion: 83 Resp: 2050883

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.7	77.5
47	18.6	17.1	25.7

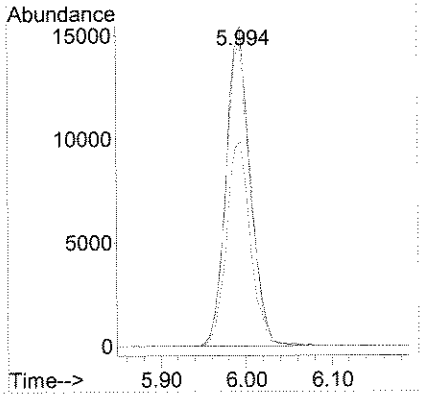


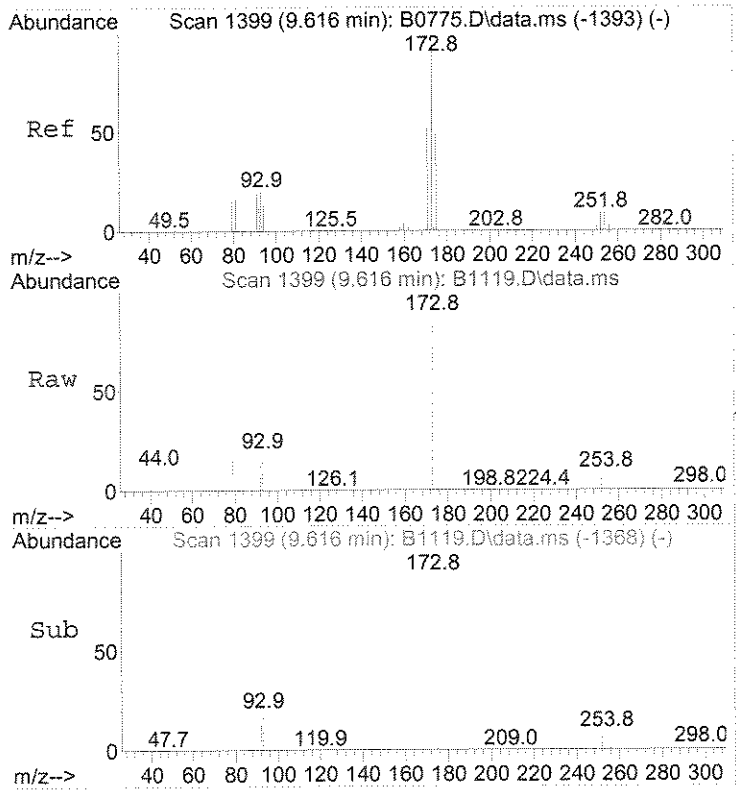


#54
Trichloroethene
Concen: 2.63 ug/L
RT: 5.994 min Scan# 805
Delta R.T. -0.000 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion:130 Resp: 30052

Ion	Ratio	Lower	Upper
130	100		
132	94.6	77.0	115.4
95	97.2	78.6	118.0
97	64.2	50.9	76.3

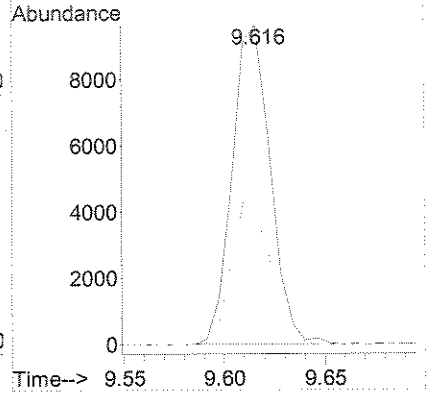


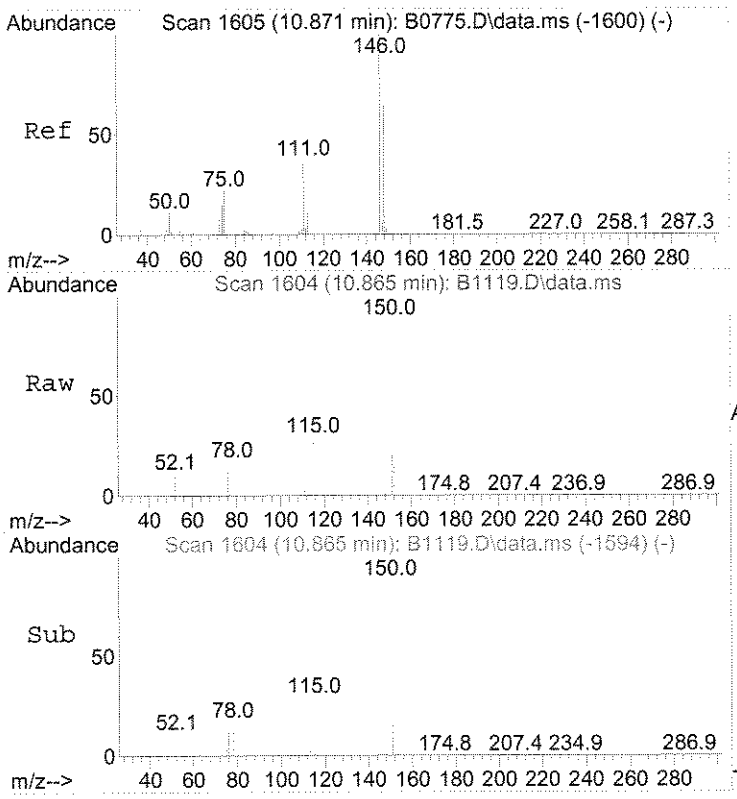


#83
Bromoform
Concen: 1.77 ug/L
RT: 9.616 min Scan# 1399
Delta R.T. -0.000 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion:173 Resp: 12661

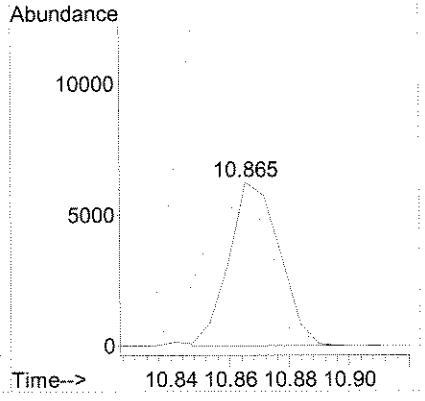
Ion	Ratio	Lower	Upper
173	100		
175	40.9	39.4	59.0





#101
1,4-Dclbenz
Concen: 0.26 ug/L
RT: 10.865 min Scan# 1604
Delta R.T. -0.006 min
Lab File: B1119.D
Acq: 15 Jul 2008 5:18 pm

Tgt Ion:146	Resp:	7386	
Ion	Ratio	Lower	Upper
146	100		
148	77.7	51.2	76.8#
111	65.5	30.0	45.0#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : TB070108GW2

Date Sampled : 07/01/08 **Order #:** 1114422 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	2.3 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.5 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : TB070108GW2

Date Sampled : 07/01/08 **Order #:** 1114422 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	93	%

Quantitation Report (Not Reviewed)

Sample : 1114422 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1091.D Vial: 7
Acq On : 14 Jul 2008 6:39 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 18:53:35 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

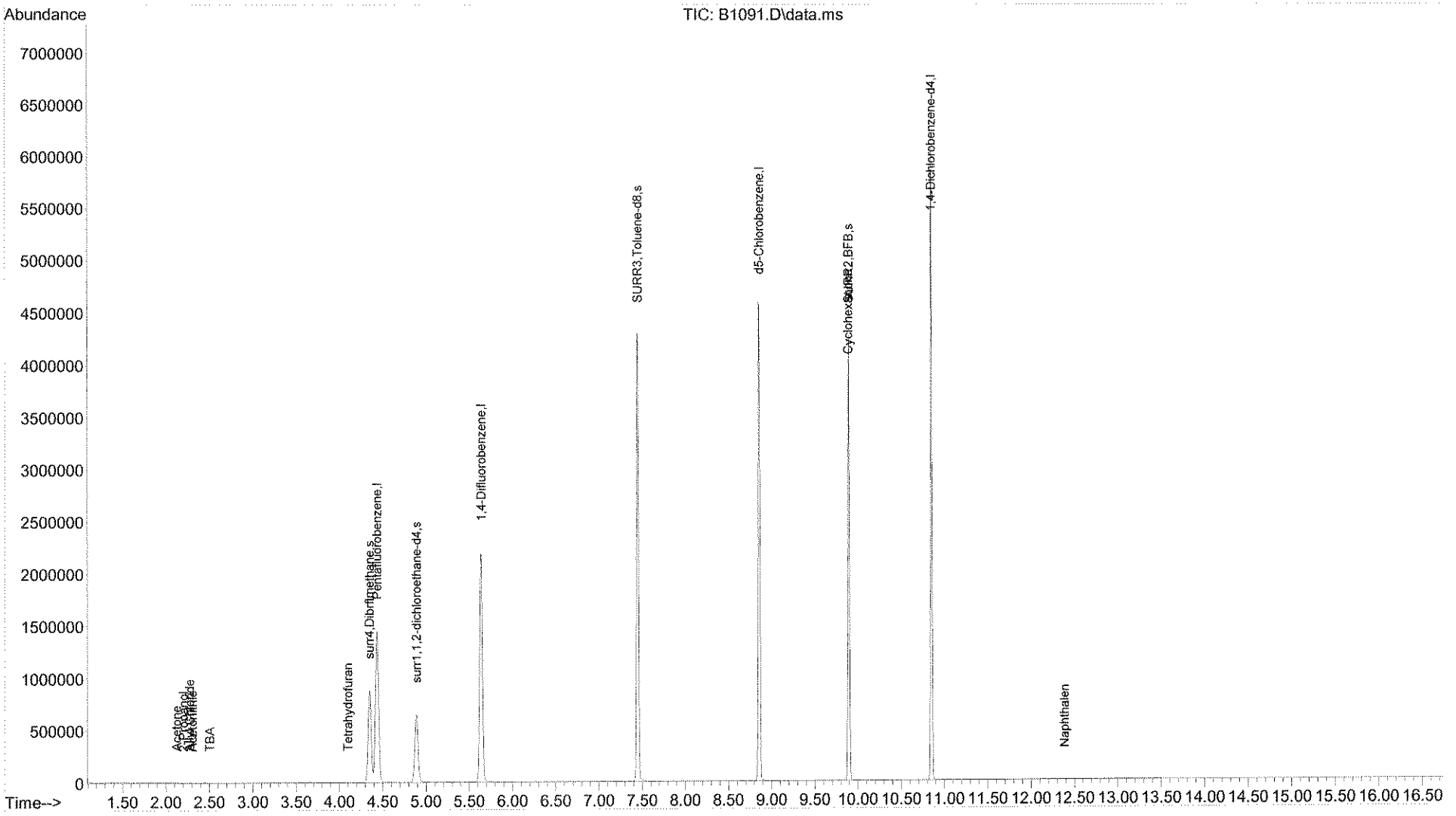
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1355605	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2245495	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2200003	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1197968	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	697427	46.70	ug/L	0.00
Spiked Amount 50.000			Recovery = 93.40%			
49) surr1,1,2-dichloroetha...	4.891	65	640836	45.40	ug/L	0.00
Spiked Amount 50.000			Recovery = 90.80%			
65) SURR3,Toluene-d8	7.451	98	2650962	54.23	ug/L	0.00
Spiked Amount 50.000			Recovery = 108.46%			
70) SURR2,BFB	9.896	95	1120209	55.65	ug/L	0.00
Spiked Amount 50.000			Recovery = 111.30%			
Target Compounds						Qvalue
16) Acetone	2.123	43	3802	2.27	ug/L	95 J
17) 2-Propanol	2.202	45	285	0.80	ug/L	94 NT
20) Acetonitrile	~~2.306~~	~~40~~	~~513~~	~~2.19~~	~~ug/L #~~	~~1~~
21) Allyl Chloride	~~2.275~~	~~76~~	~~1535~~	~~0.30~~	~~ug/L #~~	~~1~~
24) TBA	2.507	59	1416	2.51	ug/L	95 JB
40) Tetrahydrofuran	4.098	42	628	0.39	ug/L	97 NT
85) Cyclohexanone	~~9.890~~	~~55~~	~~2222~~	~~2.23~~	~~ug/L #~~	~~23~~
109) Naphthalen	~~12.383~~	~~128~~	~~670~~	~~0.55~~	~~ug/L #~~	~~91~~

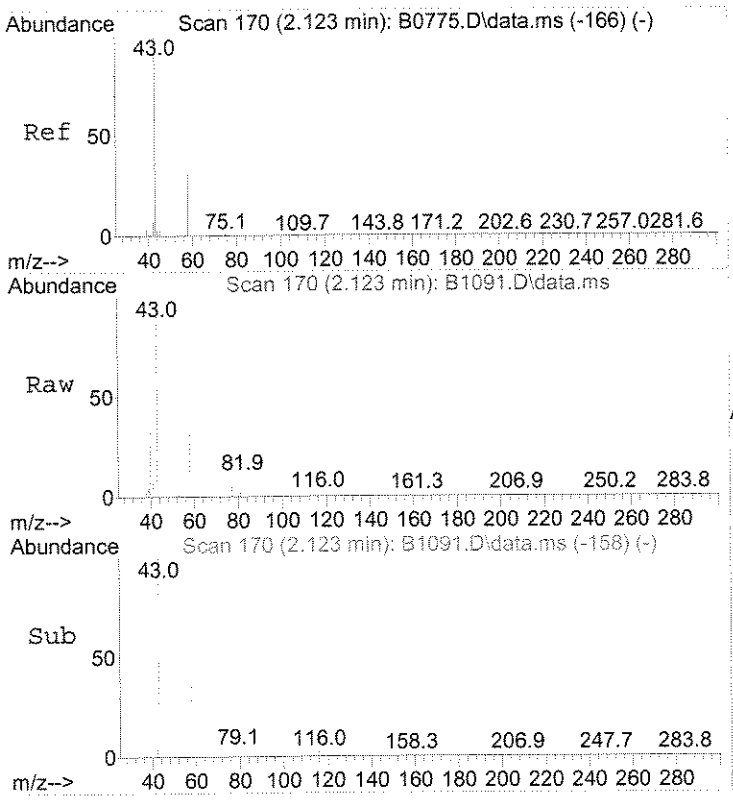
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/17/08

Sample : 1114422 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1091.D Vial: 7
Acq On : 14 Jul 2008 6:39 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 18:53:35 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

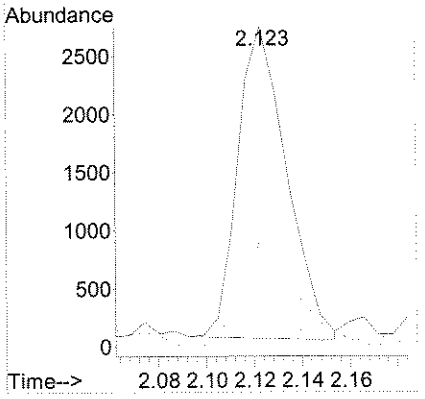


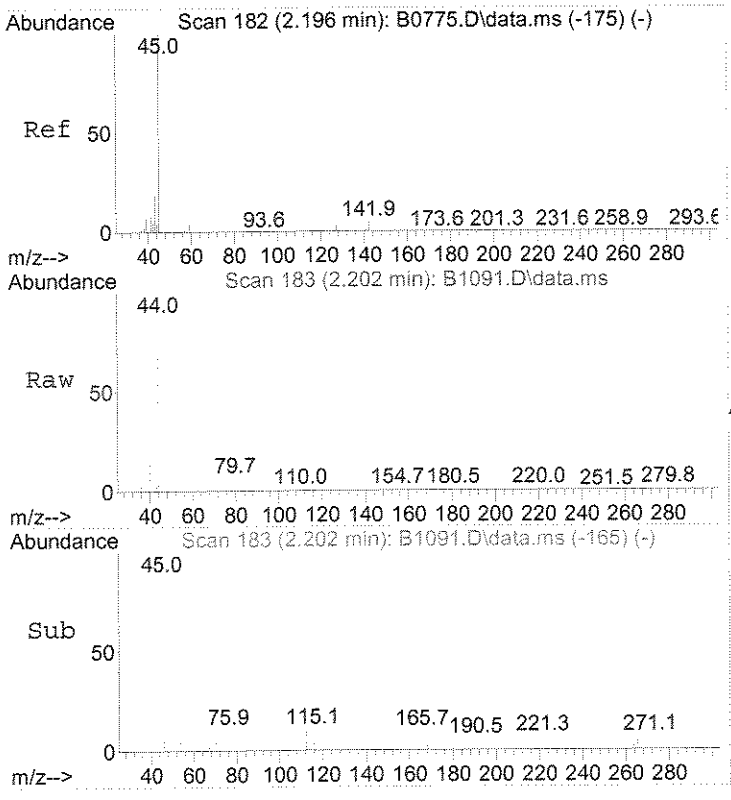


#16
Acetone
Concen: 2.27 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1091.D
Acq: 14 Jul 2008 6:39 pm

Tgt Ion: 43 Resp: 3802

Ion	Ratio	Lower	Upper
43	100		
58	33.8	0.9	60.9
42	8.3	0.0	37.2

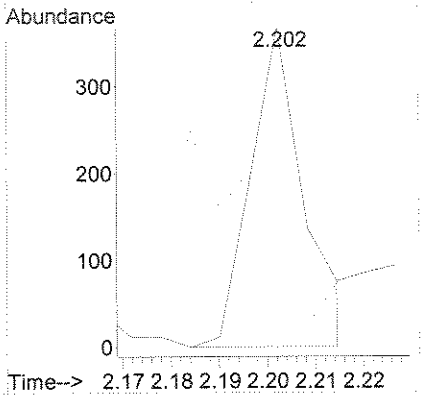


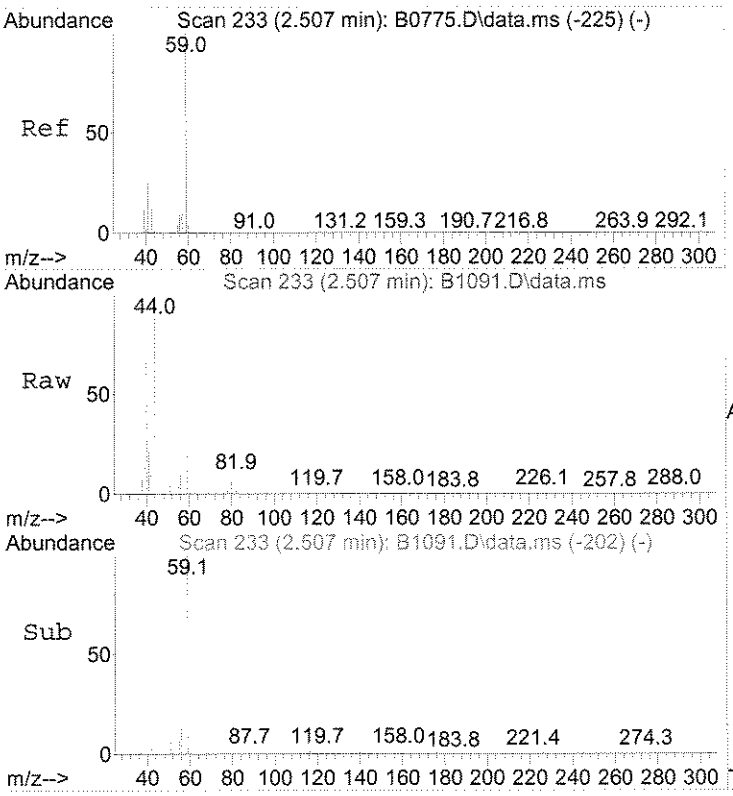


#17
2-Propanol
Concen: 0.80 ug/L
RT: 2.202 min Scan# 183
Delta R.T. -0.000 min
Lab File: B1091.D
Acq: 14 Jul 2008 6:39 pm

Tgt Ion: 45 Resp: 285

Ion	Ratio	Lower	Upper
45	100		
43	18.2	17.0	25.4

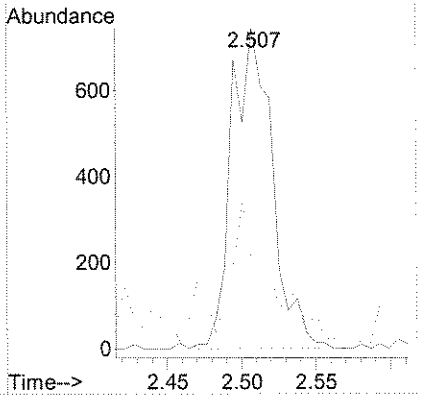


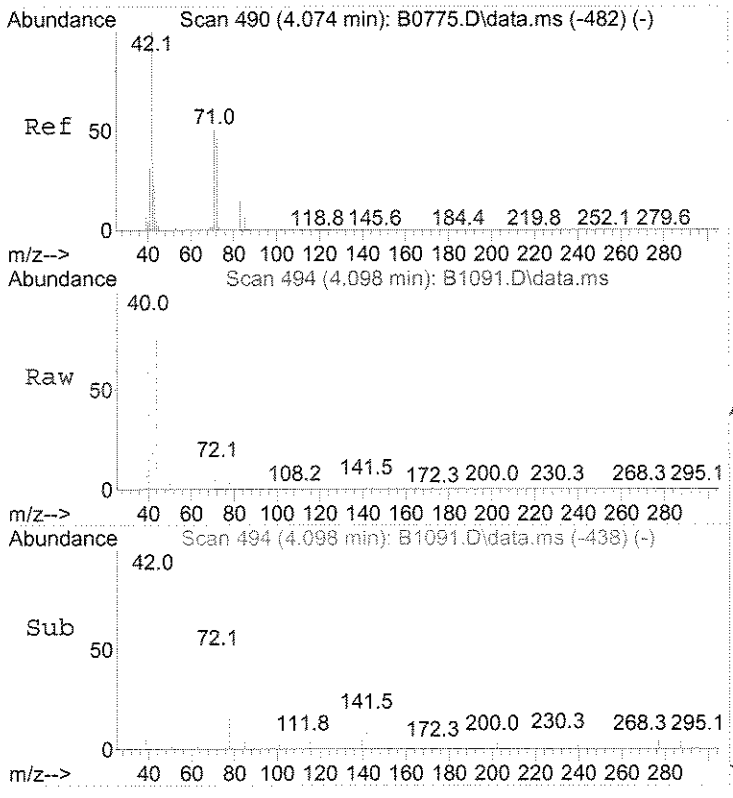


#24
TBA
Concen: 2.51 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B1091.D
Acq: 14 Jul 2008 6:39 pm

Tgt Ion: 59 Resp: 1416

Ion	Ratio	Lower	Upper
59	100		
41	26.2	14.5	43.6

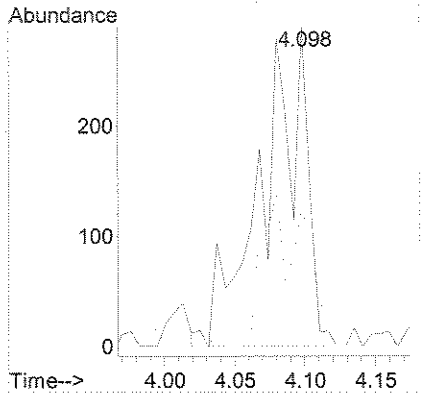




#40
Tetrahydrofuran
Concen: 0.39 ug/L
RT: 4.098 min Scan# 494
Delta R.T. 0.024 min
Lab File: B1091.D
Acq: 14 Jul 2008 6:39 pm

Tgt Ion: 42 Resp: 628

Ion	Ratio	Lower	Upper
42	100		
72	44.5	37.4	56.2



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	19 J	UG/L
BENZENE	1.0	10 U	UG/L
BROMOBENZENE	2.0	20 U	UG/L
BROMOCHLOROMETHANE	2.0	20 U	UG/L
BROMODICHLOROMETHANE	1.0	10 U	UG/L
BROMOFORM	1.0	8.0 J	UG/L
BROMOMETHANE	2.0	20 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
TERT-BUTYL ALCOHOL	100	27 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	10 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	10 U	UG/L
TERT-BUTYLBENZENE	2.0	20 U	UG/L
SEC-BUTYLBENZENE	2.0	20 U	UG/L
N-BUTYLBENZENE	5.0	50 U	UG/L
CARBON TETRACHLORIDE	1.0	10 U	UG/L
CHLOROBENZENE	1.0	10 U	UG/L
CHLOROETHANE	2.0	20 U	UG/L
CHLOROFORM	1.0	1500	UG/L
CHLOROMETHANE	2.0	20 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	50 U	UG/L
2-CHLOROTOLUENE	5.0	50 U	UG/L
4-CHLOROTOLUENE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	1.0	10 U	UG/L
1,2-DIBROMOETHANE	1.0	10 U	UG/L
DIBROMOMETHANE	1.0	10 U	UG/L
1,2-DICHLOROBENZENE	2.0	20 U	UG/L
1,4-DICHLOROBENZENE	2.0	20 U	UG/L
1,3-DICHLOROBENZENE	2.0	20 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	10 U	UG/L
1,1-DICHLOROETHANE	1.0	10 U	UG/L
1,2-DICHLOROETHANE	1.0	10 U	UG/L
1,1-DICHLOROETHENE	1.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	10 U	UG/L
2,2-DICHLOROPROPANE	2.0	20 U	UG/L
1,2-DICHLOROPROPANE	1.0	10 U	UG/L
1,3-DICHLOROPROPANE	2.0	20 U	UG/L
1,1-DICHLOROPROPENE	2.0	20 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	10 U	UG/L
ETHYLBENZENE	1.0	10 U	UG/L
HEXACHLOROBUTADIENE	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
DI-ISOPROPYL ETHER	1.0	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ISOPROPYLBENZENE	2.0	20 U	UG/L
P-ISOPROPYLTOLUENE	2.0	20 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	10 U	UG/L
METHYLENE CHLORIDE	2.0	20 U	UG/L
NAPHTHALENE	2.0	20 U	UG/L
4-METHYL-2-PENTANONE	10	100 U	UG/L
N-PROPYLBENZENE	2.0	20 U	UG/L
STYRENE	1.0	10 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	10 U	UG/L
TETRACHLOROETHENE	1.0	10 U	UG/L
TOLUENE	1.0	10 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	20 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	20 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	10 U	UG/L
TRICHLOROETHENE	1.0	6.4 J	UG/L
TRICHLOROFLUOROMETHANE	1.0	10 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	20 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	20 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	20 U	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
M+P-XYLENE	2.0	20 U	UG/L
O-XYLENE	1.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	112	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	96	%

Quantitation Report (Not Reviewed)

Sample : 1114756 10.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1097.D Vial: 13
Acq On : 14 Jul 2008 9:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 21:52:03 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

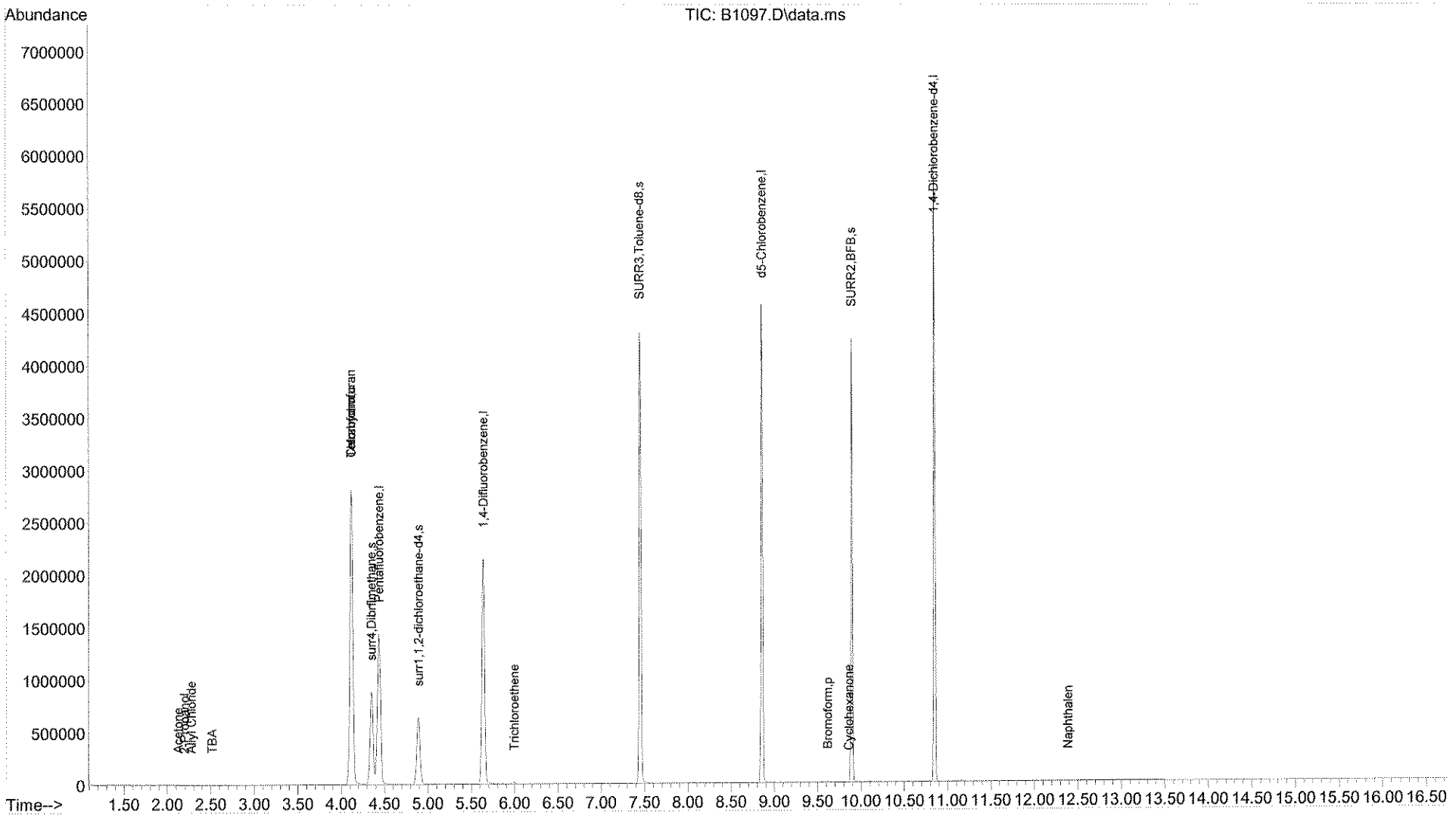
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1320019	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.641	114	2193102	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	2159741	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1171629	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	696394	48.11	ug/L		0.00
Spiked Amount 50.000			Recovery = 96.22%				
49) surr1,1,2-dichloroetha...	4.891	65	636218	46.15	ug/L		0.00
Spiked Amount 50.000			Recovery = 92.30%				
65) SURR3,Toluene-d8	7.445	98	2611568	54.70	ug/L		0.00
Spiked Amount 50.000			Recovery = 109.40%				
70) SURR2,BFB	9.896	95	1096336	55.76	ug/L		0.00
Spiked Amount 50.000			Recovery = 111.52%				
Target Compounds						Qvalue	
16) Acetone	2.123	43	3084	1.89	ug/L	90	J
17) 2-Propanol	2.196	45	939	2.71	ug/L #	34	NT
21) Allyl Chloride	~~2.276~~	~~76~~	~~1203~~	~~0.24~~	~~ug/L #~~	~~1~~	
24) TBA	2.514	59	1495	2.72	ug/L	87	JB
40) Tetrahydrofuran	~~4.117~~	~~42~~	~~6323~~	~~4.03~~	~~ug/L #~~	~~1~~	
41) Chloroform	4.117	83	2891764	150.99	ug/L	98	
54) Trichloroethene	5.995	130	7801	0.64	ug/L	94	>J
83) Bromoform	9.616	173	6048	0.80	ug/L	99	
85) Cyclohexanone	~~9.860~~	~~55~~	~~337~~	~~0.34~~	~~ug/L #~~	~~27~~	
109) Naphthalen	~~12.384~~	~~128~~	~~428~~	~~0.54~~	~~ug/L #~~	~~72~~	<LR

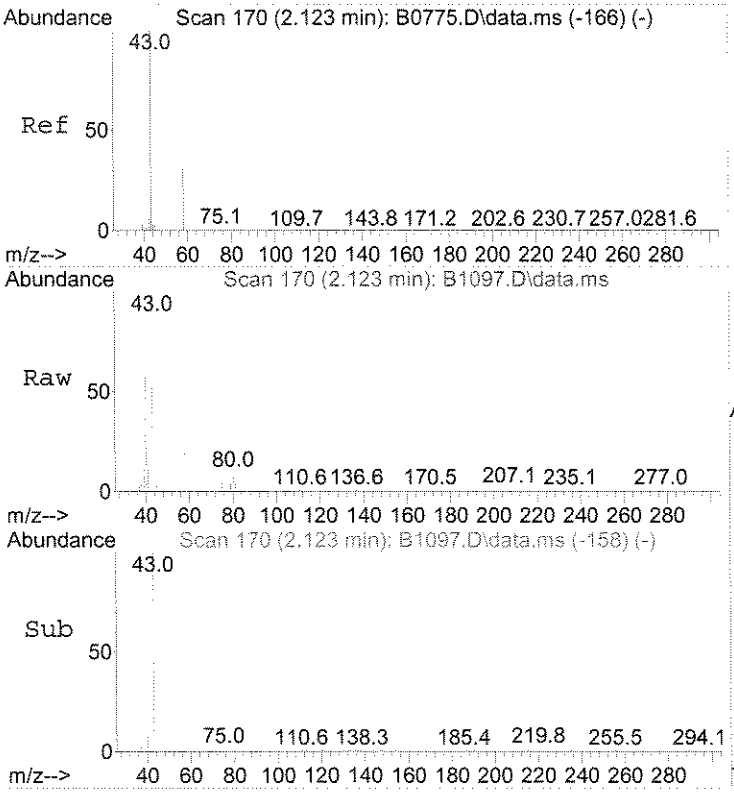
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FW 7/17/08
7/8

Sample : 1114756 10.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1097.D Vial: 13
Acq On : 14 Jul 2008 9:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 21:52:03 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

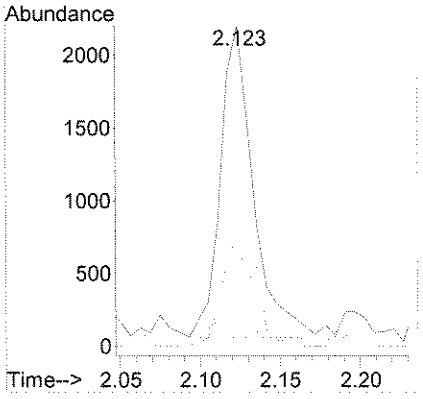


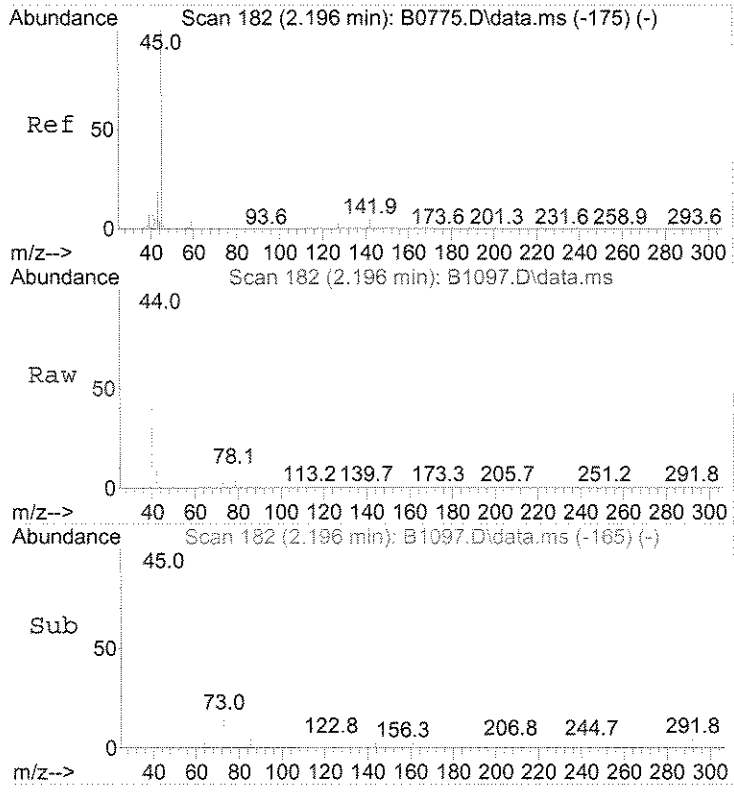


#16
Acetone
Concen: 1.89 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion: 43 Resp: 3084

Ion	Ratio	Lower	Upper
43	100		
58	33.5	0.9	60.9
42	19.1	0.0	37.2

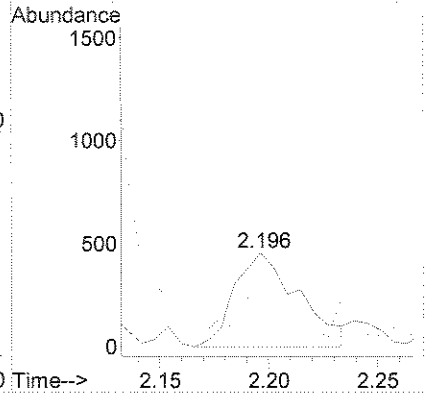


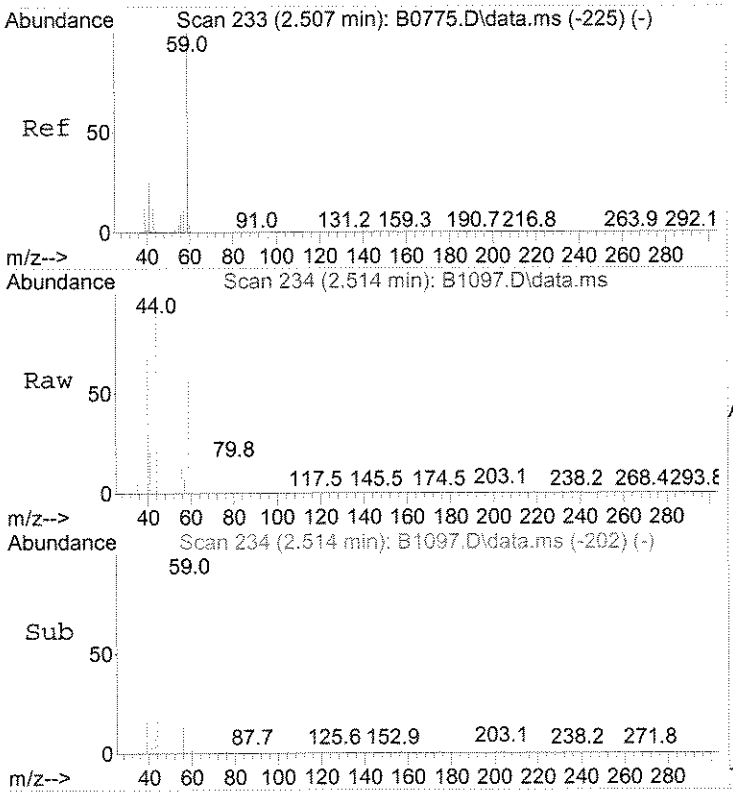


#17
2-Propanol
Concen: 2.71 ug/L
RT: 2.196 min Scan# 182
Delta R.T. -0.006 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion: 45 Resp: 939

Ion	Ratio	Lower	Upper
45	100		
43	52.4	17.0	25.4#

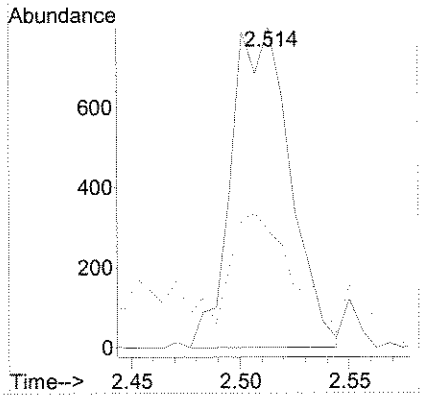


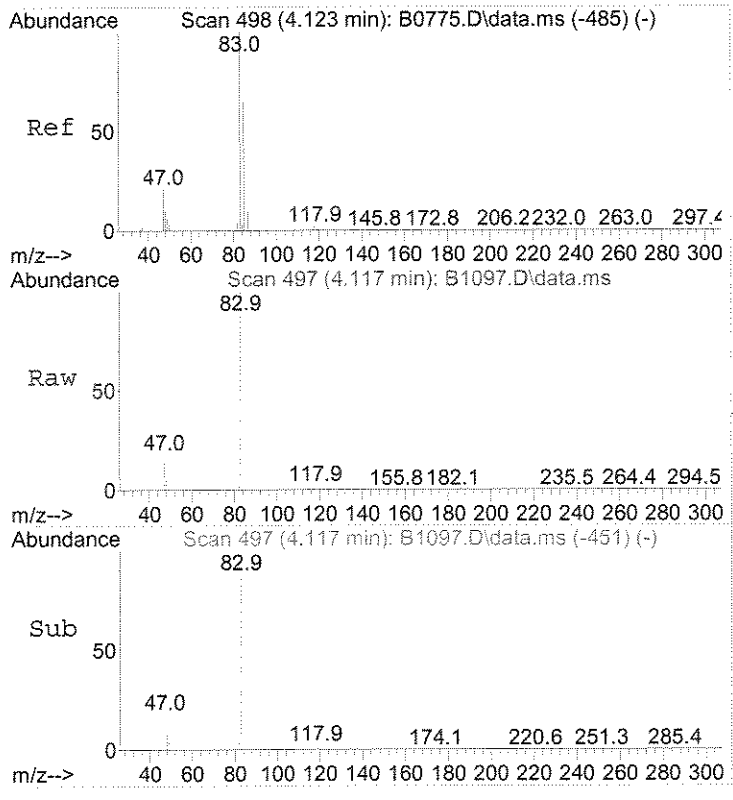


#24
TBA
Concen: 2.72 ug/L
RT: 2.514 min Scan# 234
Delta R.T. 0.006 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion: 59 Resp: 1495

Ion	Ratio	Lower	Upper
59	100		
41	36.3	14.5	43.6

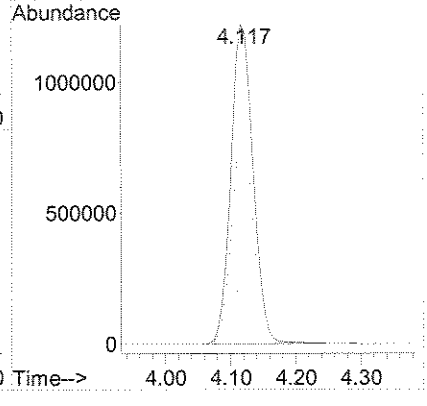


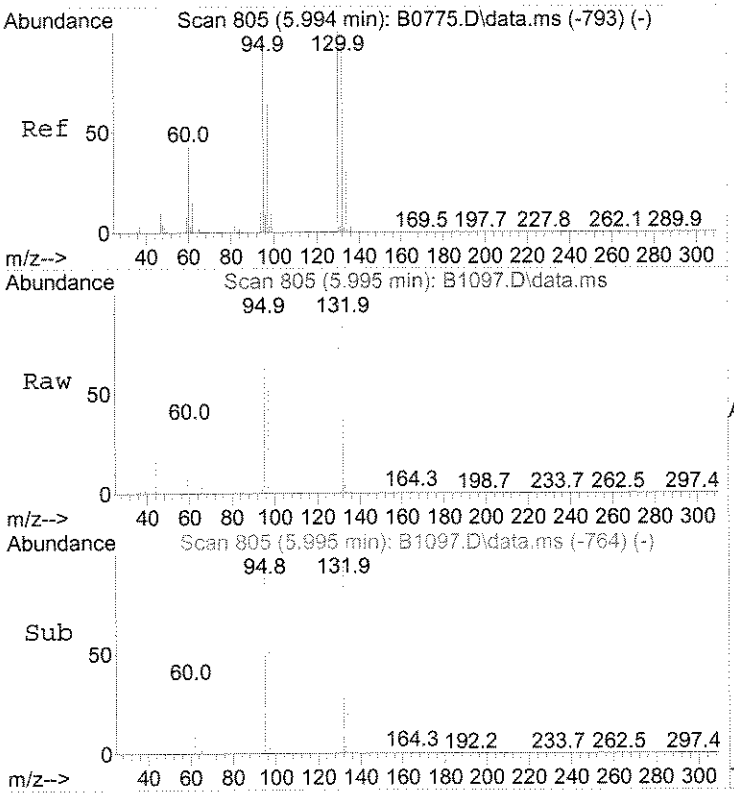


#41
Chloroform
Concen: 150.99 ug/L
RT: 4.117 min Scan# 497
Delta R.T. -0.006 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion: 83 Resp: 2891764

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.7	77.5
47	18.5	17.1	25.7

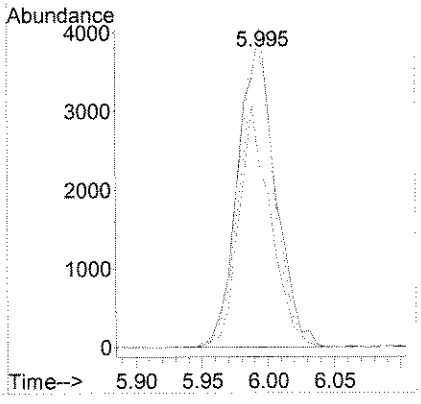


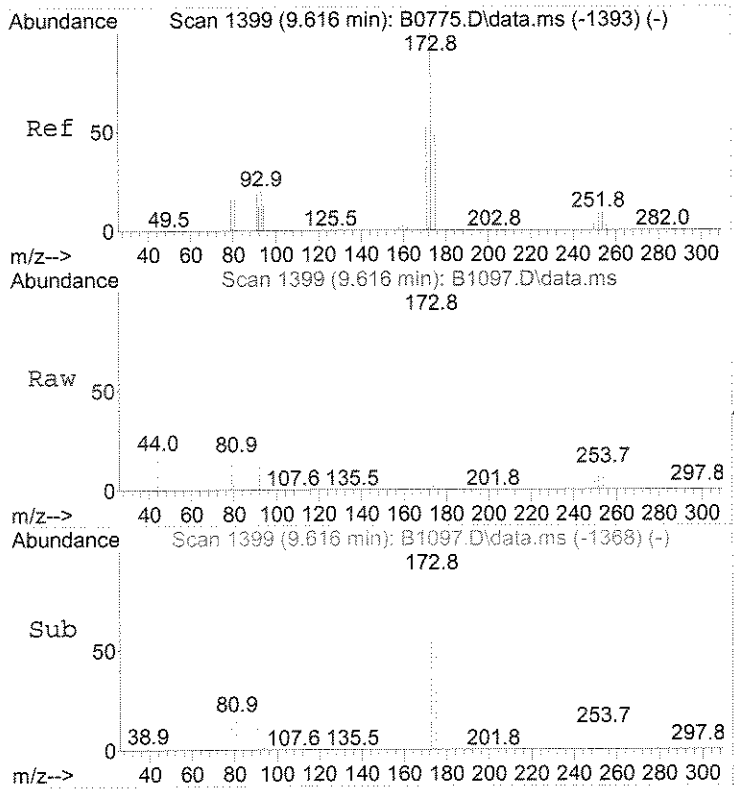


#54
Trichloroethene
Concen: 0.64 ug/L
RT: 5.995 min Scan# 805
Delta R.T. 0.000 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion:130 Resp: 7801

Ion	Ratio	Lower	Upper
130	100		
132	100.0	77.0	115.4
95	92.6	78.6	118.0
97	55.3	50.9	76.3

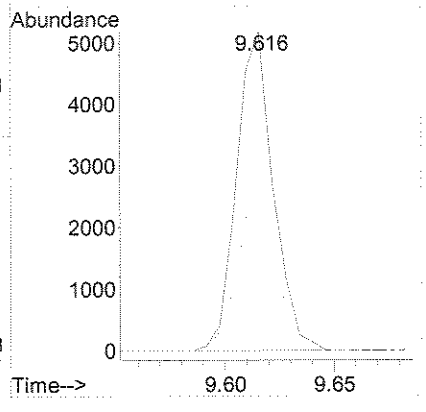




#83
Bromoform
Concen: 0.80 ug/L
RT: 9.616 min Scan# 1399
Delta R.T. 0.000 min
Lab File: B1097.D
Acq: 14 Jul 2008 9:37 pm

Tgt Ion:173 Resp: 6048

Ion	Ratio	Lower	Upper
173	100		
175	48.8	39.4	59.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : EB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114758 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	14 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	1.9 J	UG/L
TERT-BUTYL ALCOHOL	100	4.7 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	1.4 J	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	12	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : EB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114758 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/14/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	110	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	94	%

Quantitation Report (Not Reviewed)

Sample : 1114758 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1092.D Vial: 8
Acq On : 14 Jul 2008 7:09 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 19:23:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	4.434	168	1345888	50.00	ug/L		0.00	
44) 1,4-Difluorobenzene	5.635	114	2254341	50.00	ug/L		0.00	
71) d5-Chlorobenzene	8.860	117	2196594	50.00	ug/L		0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1192851	50.00	ug/L		0.00	
System Monitoring Compounds								
46) surr4,Dibrflmethane	4.348	113	701806	46.84	ug/L		0.00	
Spiked Amount 50.000			Recovery = 93.68%					
49) surr1,1,2-dichloroetha...	4.891	65	641740	45.29	ug/L		0.00	
Spiked Amount 50.000			Recovery = 90.58%					
65) SURR3,Toluene-d8	7.445	98	2676583	54.54	ug/L		0.00	
Spiked Amount 50.000			Recovery = 109.08%					
70) SURR2,BFB	9.896	95	1111022	54.98	ug/L		0.00	
Spiked Amount 50.000			Recovery = 109.96%					
Target Compounds							Qvalue	
4) Chloromethane	1.294	50	14137	1.41	ug/L		99	J
16) Acetone	2.123	43	23068	13.89	ug/L		89	J
17) 2-Propanol	2.202	45	1667	4.72	ug/L	#	81	NT
20) Acetonitrile	~~2.324~~	~~40~~	~~742~~	~~3.19~~	~~ug/L~~	~~#~~	~~1~~	
21) Allyl Chloride	~~2.276~~	~~76~~	~~1727~~	~~0.34~~	~~ug/L~~	~~#~~	~~1~~	
24) TBA	2.501	59	2631	4.70	ug/L		98	JB
35) 2-Butanone	3.720	43	5383	1.93	ug/L	#	94	J
40) Tetrahydrofuran	4.086	42	1329	0.83	ug/L	#	69	NT
68) Ethyl Methacrylate	7.896	69	408	1.59	ug/L	#	64	NT
85) Cyclohexanone	9.841	55	214	0.21	ug/L	#	81	NT
101) 1,4-Dclbenz	10.865	146	378560	12.18	ug/L		98	
109) Naphthalen	~~12.383~~	~~128~~	~~908~~	~~0.55~~	~~ug/L~~	~~#~~	~~90~~	CLR

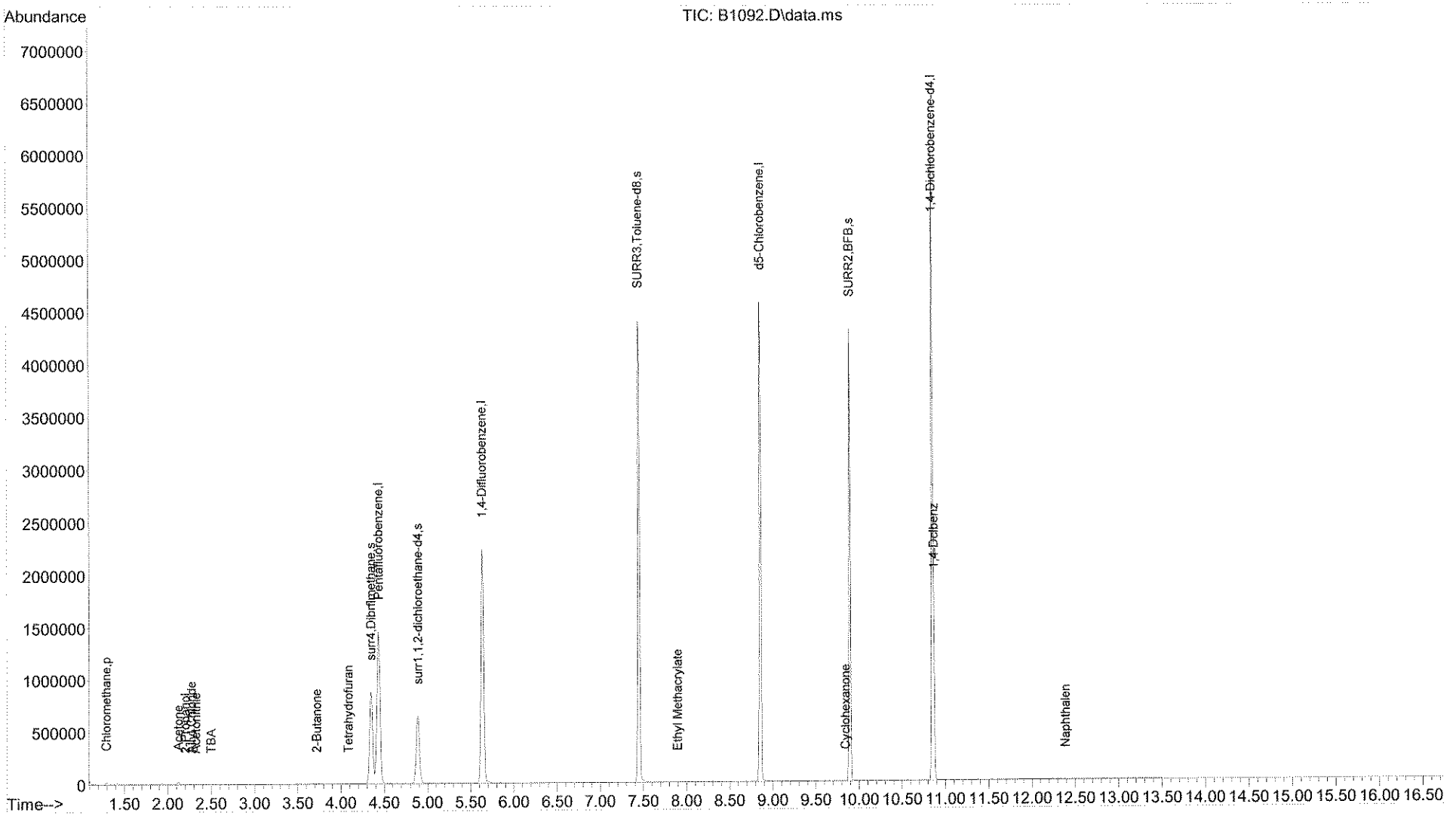
(#) = qualifier out of range (m) = manual integration (+) = signals summed

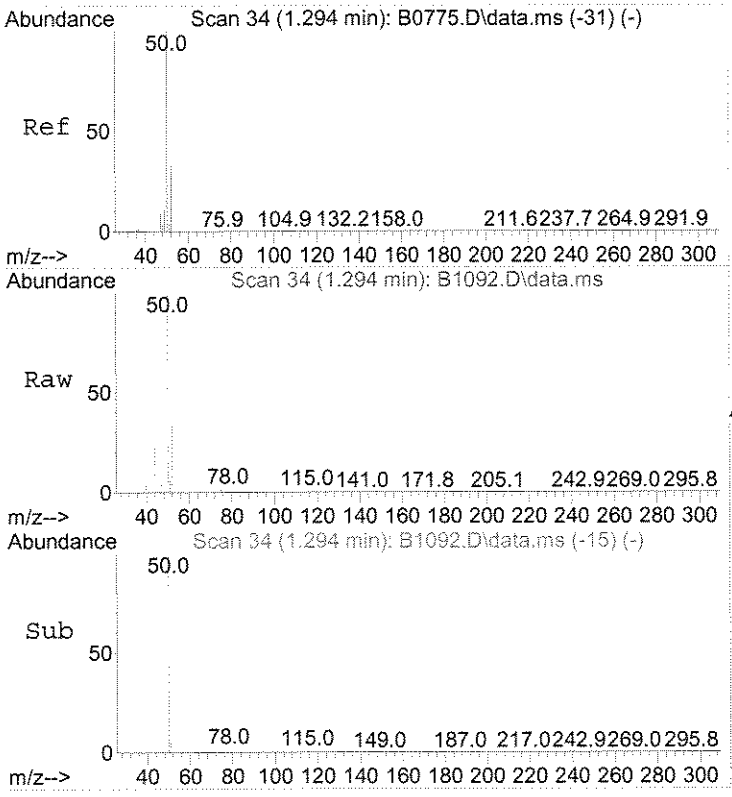
FW
7/17/08

Quantitation Report (Not Reviewed)

Sample : 1114758 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1092.D Vial: 8
Acq On : 14 Jul 2008 7:09 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 19:23:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

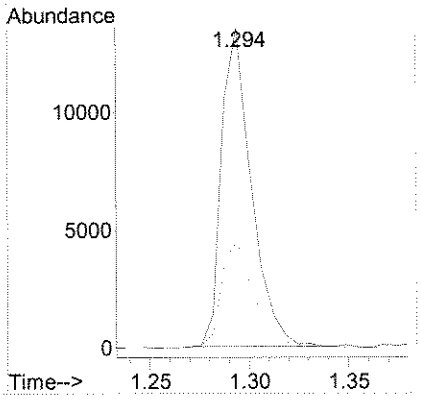


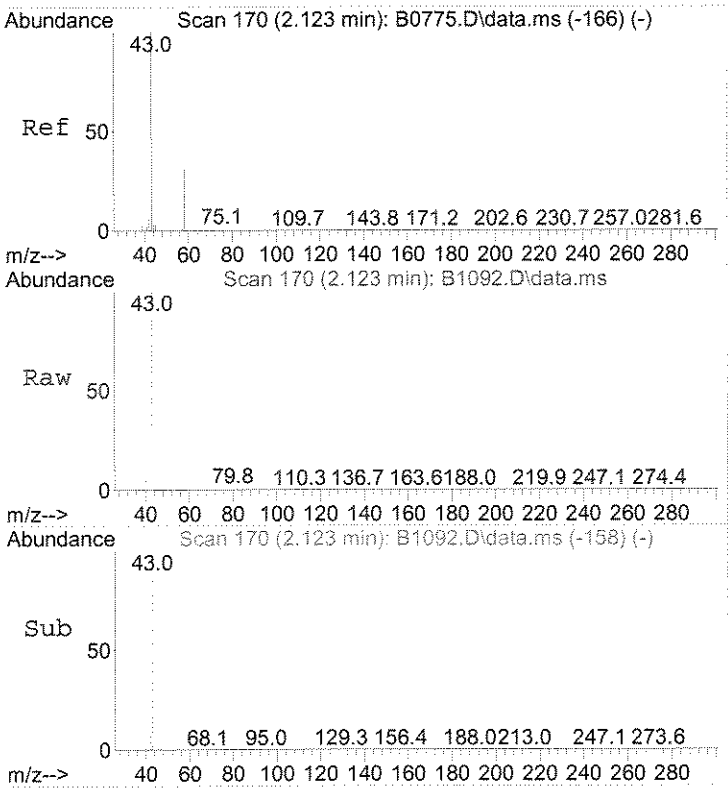


#4
Chloromethane
Concen: 1.41 ug/L
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 50 Resp: 14137

Ion	Ratio	Lower	Upper
50	100		
52	33.7	3.1	63.1

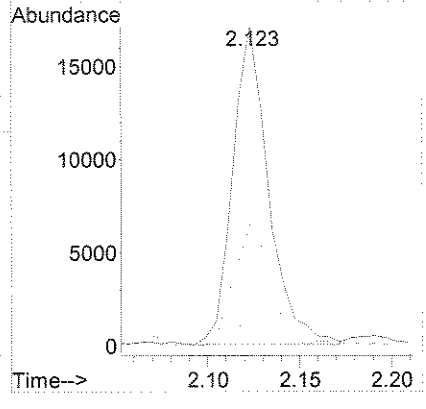


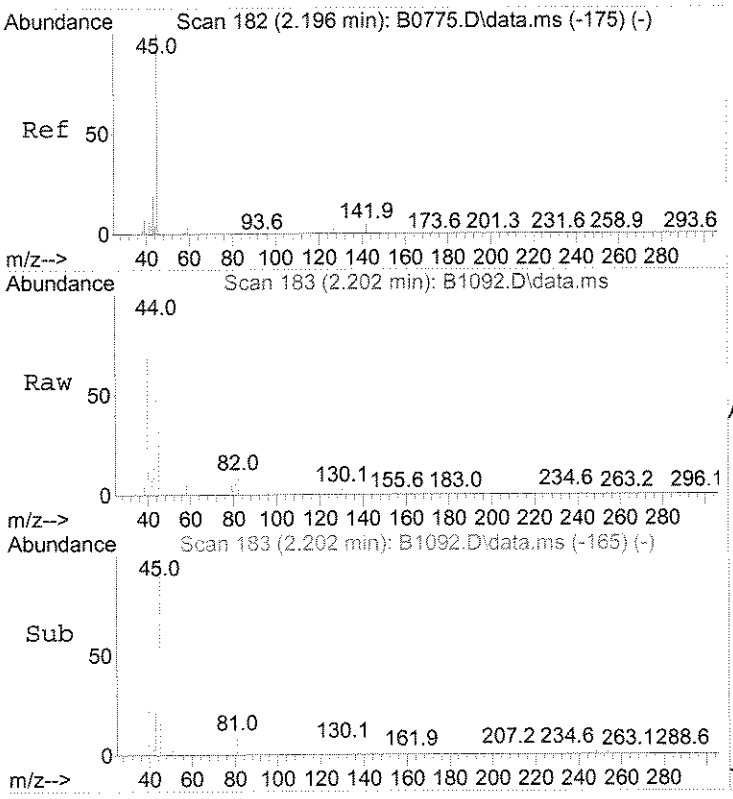


#16
Acetone
Concen: 13.89 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 43 Resp: 23068

Ion	Ratio	Lower	Upper
43	100		
58	38.5	0.9	60.9
42	7.5	0.0	37.2

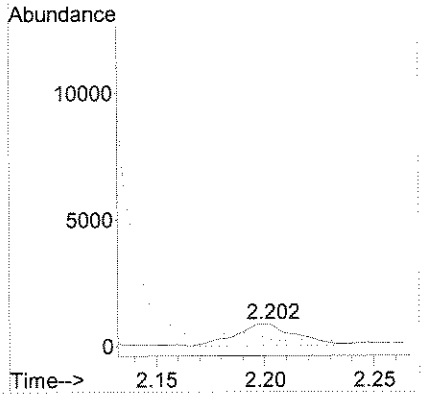


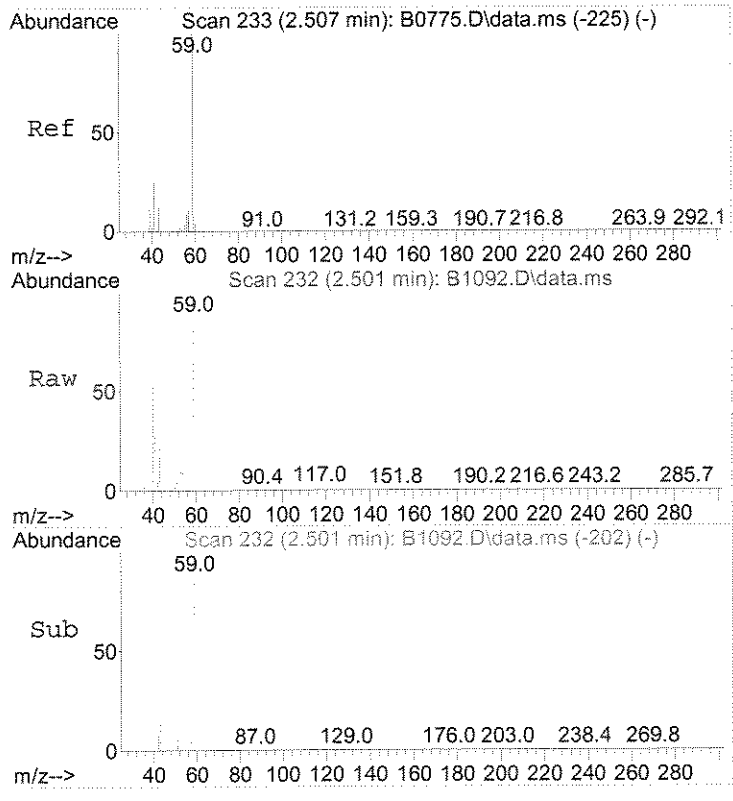


#17
2-Propanol
Concen: 4.72 ug/L
RT: 2.202 min Scan# 183
Delta R.T. -0.000 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 45 Resp: 1667

Ion	Ratio	Lower	Upper
45	100		
43	30.1	17.0	25.4#

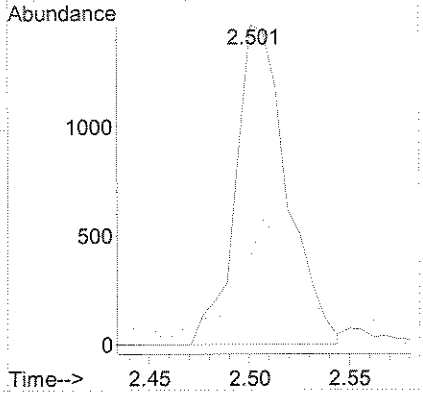


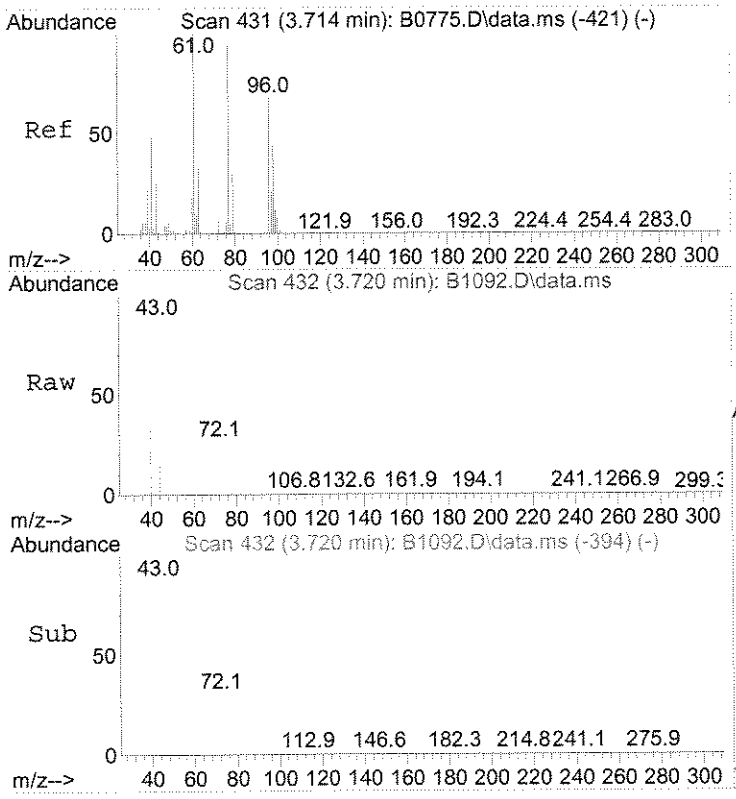


#24
TBA
Concen: 4.70 ug/L
RT: 2.501 min Scan# 232
Delta R.T. -0.006 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 59 Resp: 2631

Ion	Ratio	Lower	Upper
59	100		
41	28.2	14.5	43.6

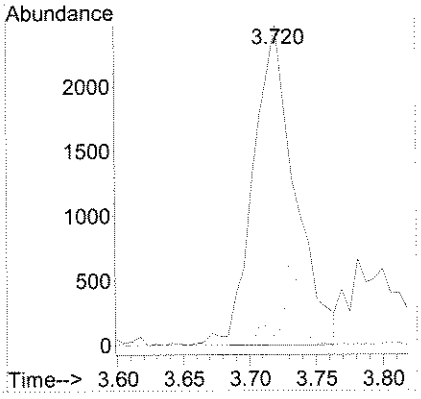


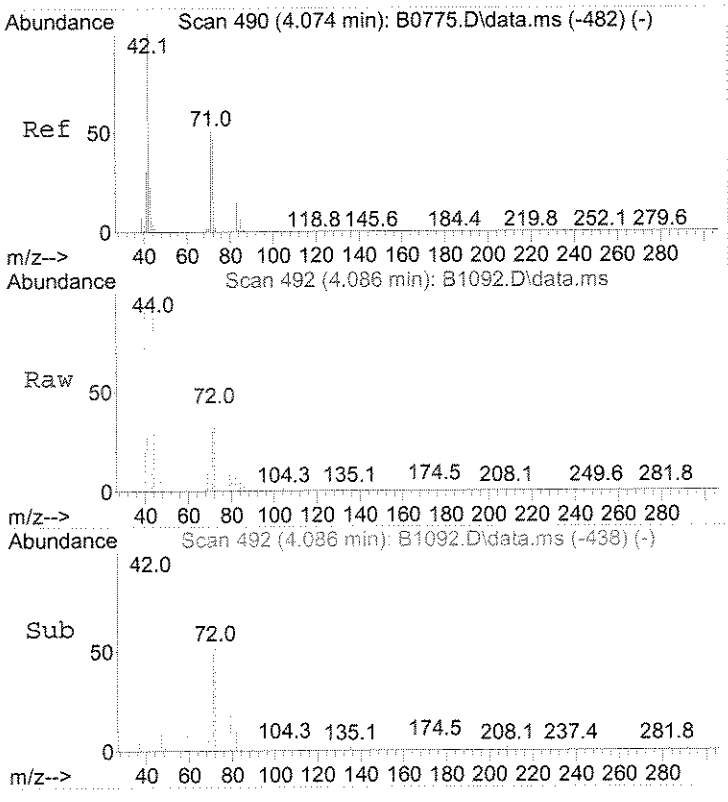


#35
2-Butanone
Concen: 1.93 ug/L
RT: 3.720 min Scan# 432
Delta R.T. 0.006 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 43 Resp: 5383

Ion	Ratio	Lower	Upper
43	100		
57	2.3	7.4	11.0#
72	26.7	22.1	33.1

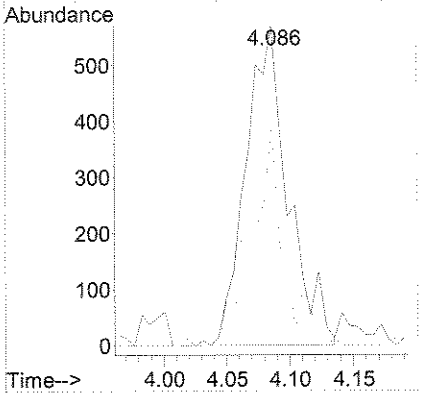


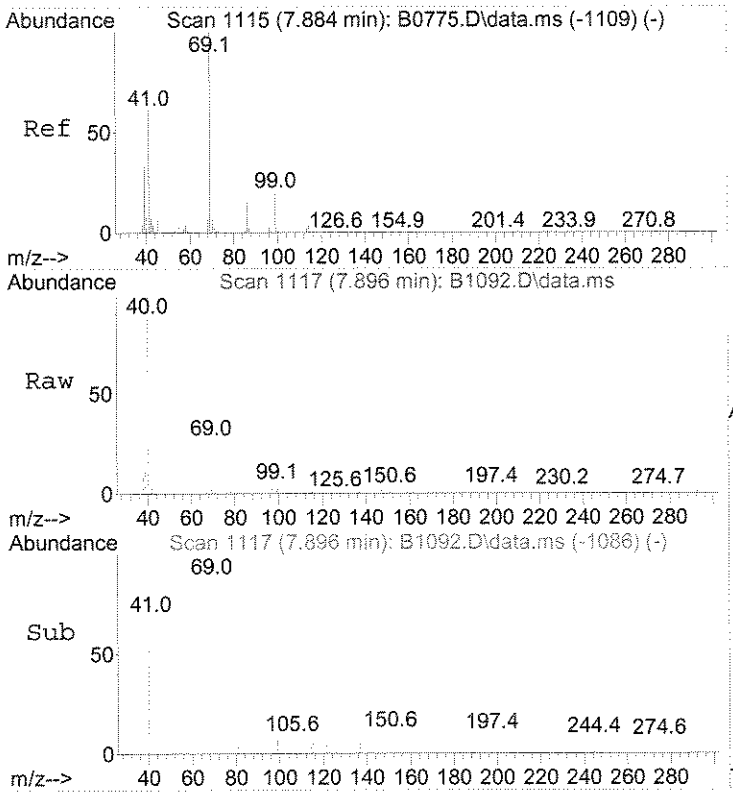


#40
Tetrahydrofuran
Concen: 0.83 ug/L
RT: 4.086 min Scan# 492
Delta R.T. 0.012 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 42 Resp: 1329

Ion	Ratio	Lower	Upper
42	100		
72	67.7	37.4	56.2#

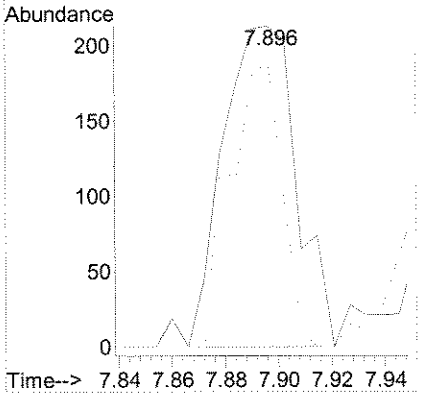


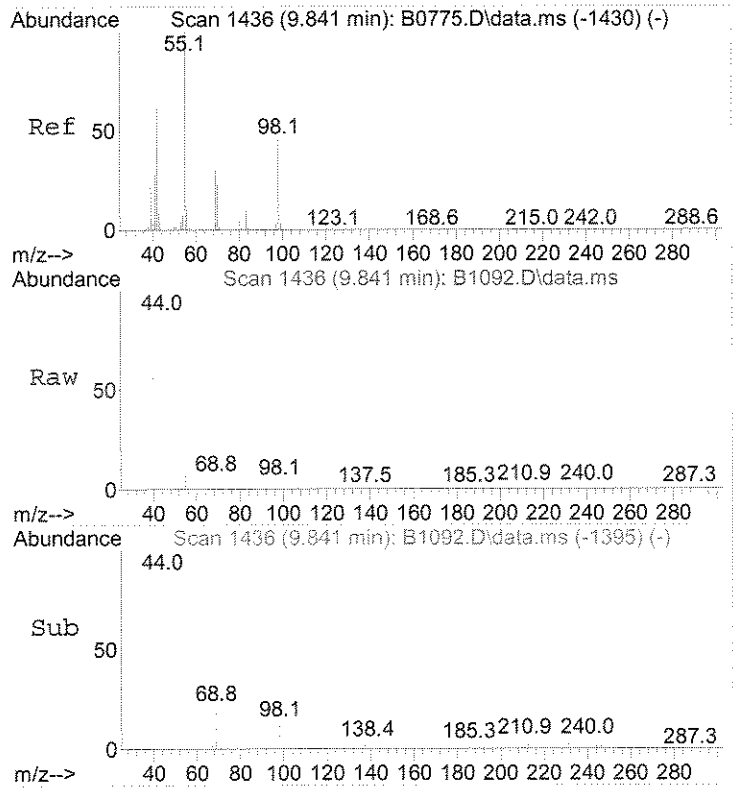


#68
Ethyl Methacrylate
Concen: 1.59 ug/L
RT: 7.896 min Scan# 1117
Delta R.T. 0.006 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 69 Resp: 408

Ion	Ratio	Lower	Upper
69	100		
41	89.2	49.2	73.8#

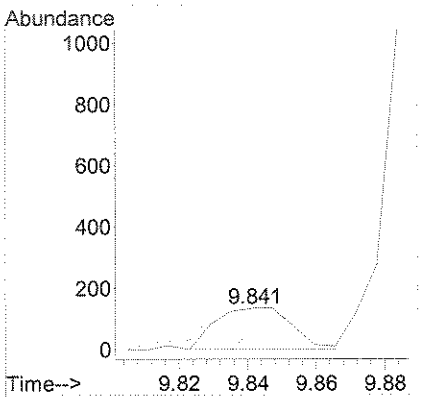


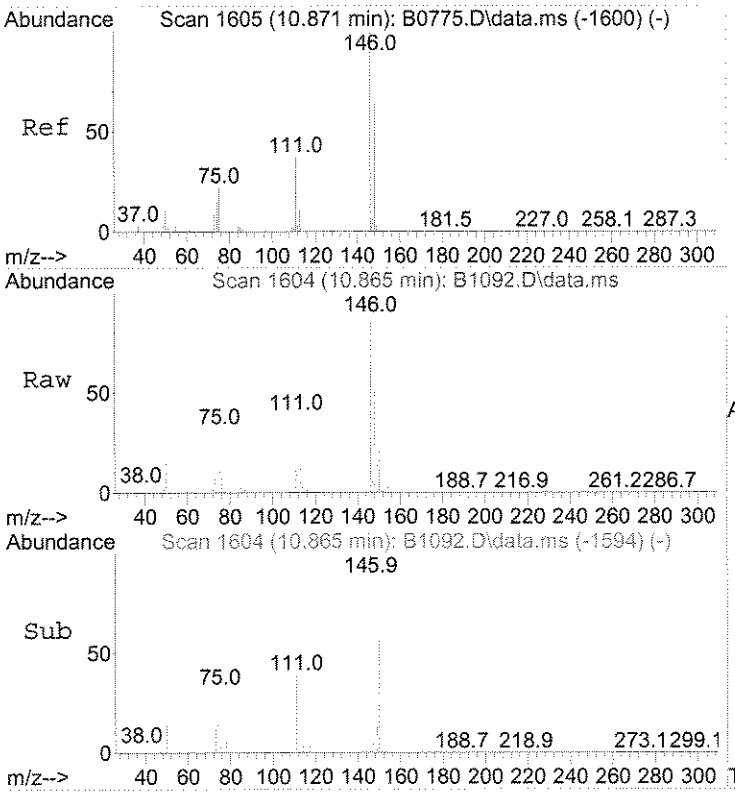


#85
Cyclohexanone
Concen: 0.21 ug/L
RT: 9.841 min Scan# 1436
Delta R.T. -0.000 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion: 55 Resp: 214

Ion	Ratio	Lower	Upper
55	100		
42	46.7	49.3	73.9#

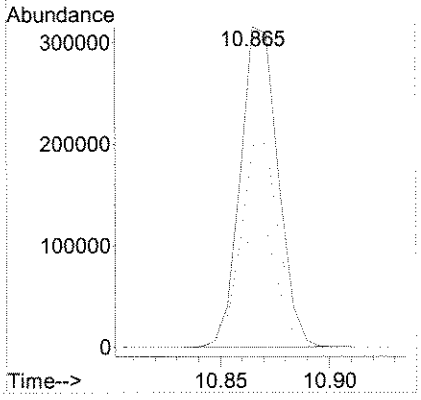




#101
1,4-Dclbenz
Concen: 12.18 ug/L
RT: 10.865 min Scan# 1604
Delta R.T. -0.006 min
Lab File: B1092.D
Acq: 14 Jul 2008 7:09 pm

Tgt Ion:146 Resp: 378560

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.2	76.8
111	39.5	30.0	45.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : TB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114759 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	1.5 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	1.7 JB	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : TB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114759 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/14/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	2.0 U	UG/L
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	93	%

Quantitation Report (Not Reviewed)

Sample : 1114759 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1093.D Vial: 9
Acq On : 14 Jul 2008 7:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 19:53:00 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1325848	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.635	114	2215952	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2192654	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1191202	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	688622	46.73	ug/L	0.00
Spiked Amount 50.000			Recovery = 93.46%			
49) surr1,1,2-dichloroetha...	4.891	65	634426	45.55	ug/L	0.00
Spiked Amount 50.000			Recovery = 91.10%			
65) SURR3,Toluene-d8	7.445	98	2643982	54.81	ug/L	0.00
Spiked Amount 50.000			Recovery = 109.62%			
70) SURR2,BFB	9.896	95	1105881	55.67	ug/L	0.00
Spiked Amount 50.000			Recovery = 111.34%			
Target Compounds						Qvalue
16) Acetone	2.123	43	2496	1.53	ug/L	74 J
17) 2-Propanol	~~2.209~~	~~45~~	~~382~~	~~1.10~~	~~ug/L #~~	~~1~~
21) Allyl Chloride	~~2.276~~	~~76~~	~~1318~~	~~0.26~~	~~ug/L #~~	~~1~~
24) TBA	2.507	59	952	1.72	ug/L	96 JB
85) Cyclohexanone	~~9.896~~	~~55~~	~~2181~~	~~2.19~~	~~ug/L #~~	~~23~~
109) Naphthalen	~~12.377~~	~~128~~	~~626~~	~~0.55~~	~~ug/L #~~	~~83~~ <LR

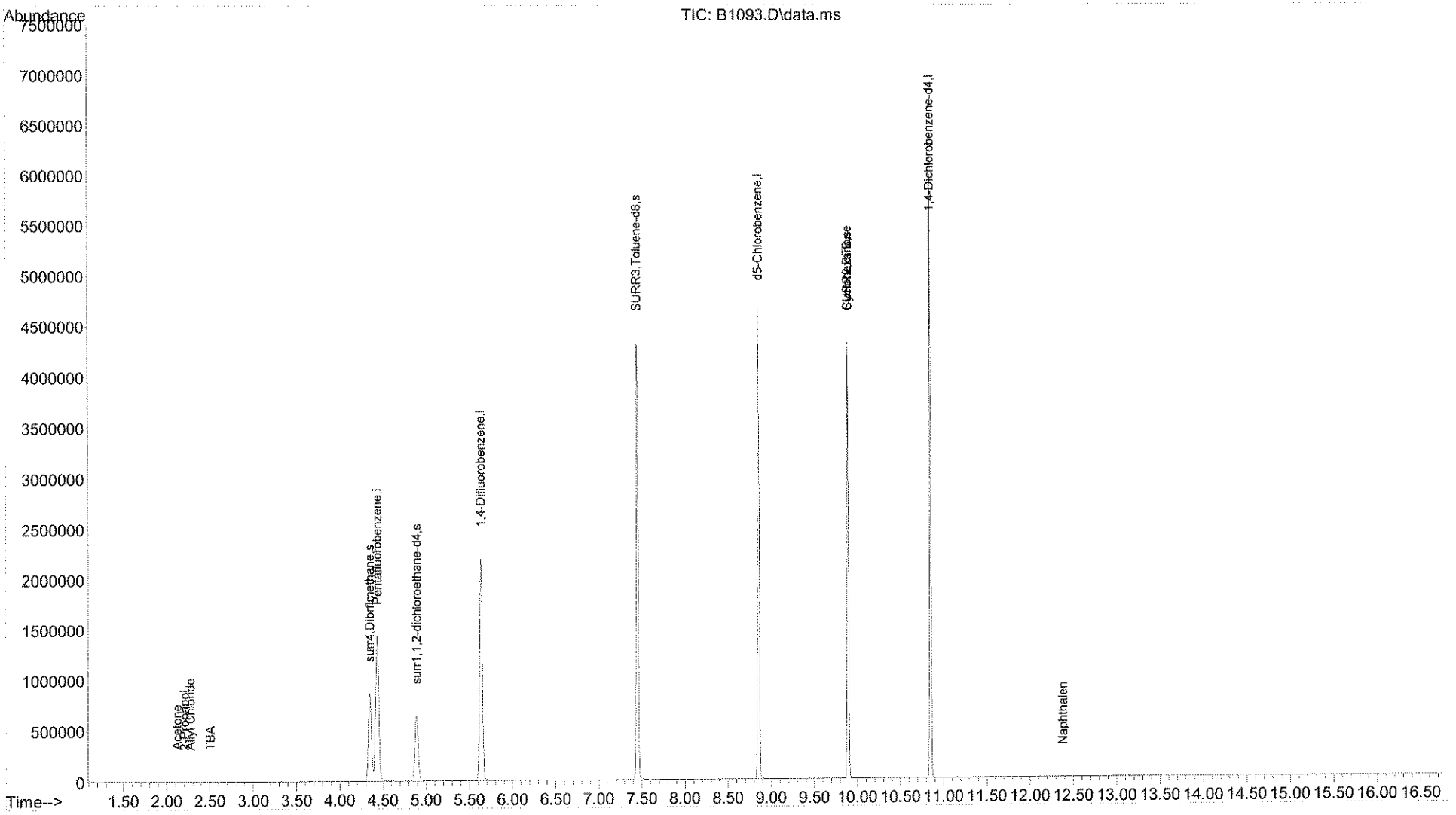
(#) = qualifier out of range (m) = manual integration (+) = signals summed

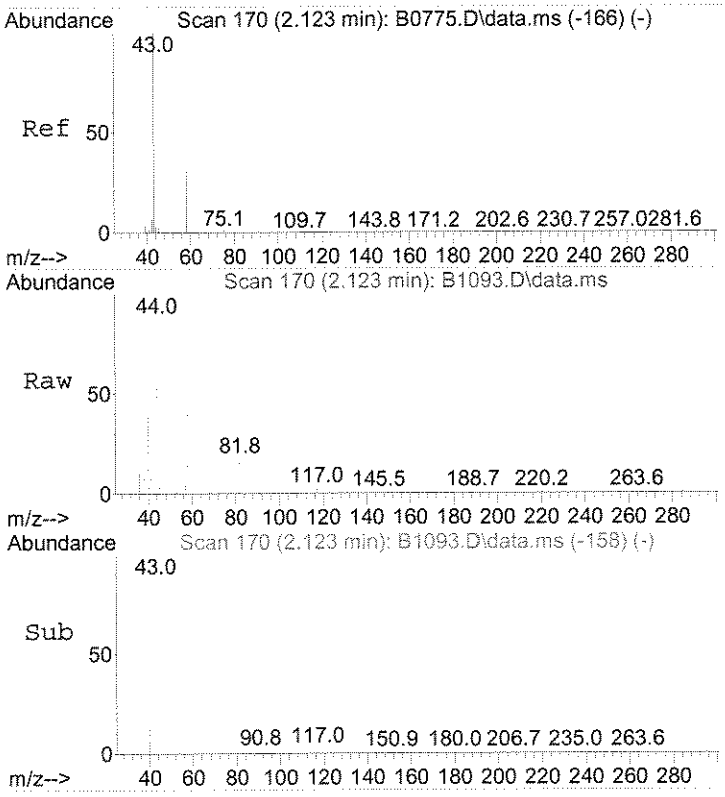
FW 7/17/08

Quantitation Report (Not Reviewed)

Sample : 1114759 1.0
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1093.D Vial: 9
Acq On : 14 Jul 2008 7:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 14 19:53:00 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

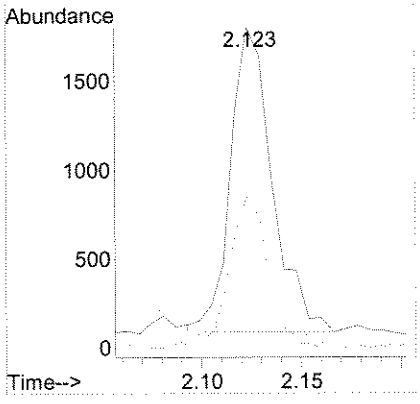


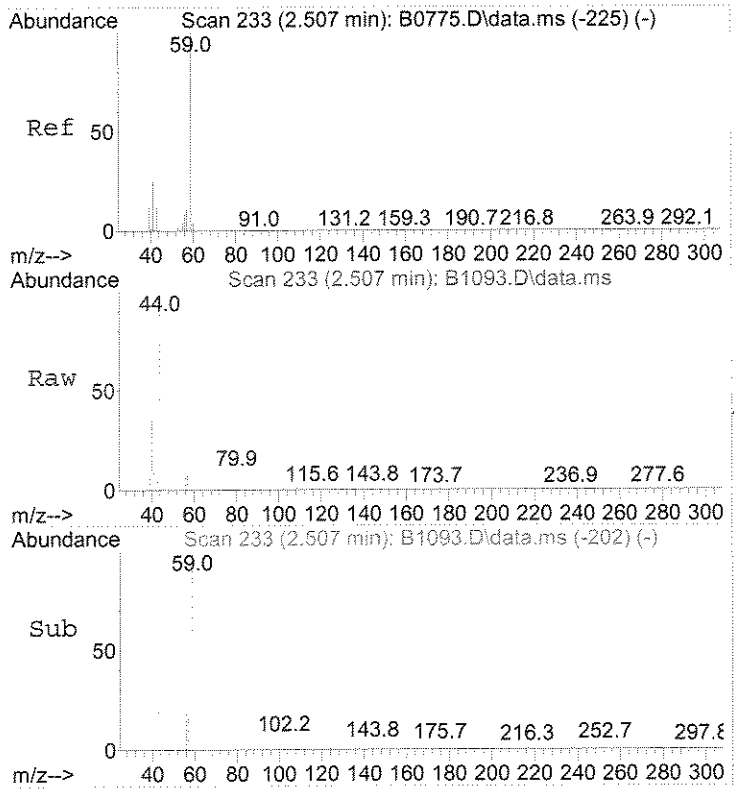


#16
Acetone
Concen: 1.53 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: B1093.D
Acq: 14 Jul 2008 7:38 pm

Tgt Ion: 43 Resp: 2496

Ion	Ratio	Lower	Upper
43	100		
58	47.6	0.9	60.9
42	9.2	0.0	37.2

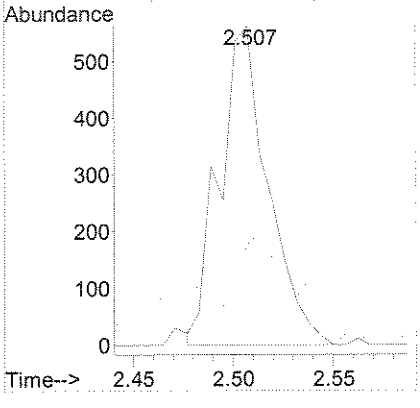




#24
TBA
Concen: 1.72 ug/L
RT: 2.507 min Scan# 233
Delta R.T. 0.000 min
Lab File: B1093.D
Acq: 14 Jul 2008 7:38 pm

Tgt Ion: 59 Resp: 952

Ion	Ratio	Lower	Upper
59	100		
41	31.4	14.5	43.6



VOLATILE ORGANICS

STANDARDS DATA

Initial Calibration - Summary Report

Calibration ID:	CAL786	8260B (WATER)	**Instrument ID:**	MSVOA10	
Method ID:	MJ162	6/26/08	**Column Name:**	MS	

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Dichlorodifluoromethane	TRG	AverageRF		0.400	15	8.4			OK	
Chloromethane	TRG	AverageRF	0.100	0.371	15	5.4			OK	
Vinyl Chloride	TRG	AverageRF		0.383	15	4.5			OK	
Bromomethane	TRG	AverageRF		0.274	15	11.9			OK	
Chloroethane	TRG	AverageRF		0.213	15	11.9			OK	
Dichlorofluoromethane (CFC 21)	TRG	AverageRF		0.718	15	4.6			OK	
Trichlorofluoromethane	TRG	AverageRF		0.670	15	7.5			OK	
Diethyl Ether	TRG	AverageRF		0.226	15	5.5			OK	
1,2-Dichloro-1,1,2-trifluoroethane (CF	TRG	AverageRF		0.434	15	9.4			OK	
2,2-Dichloro-1,1,1-trifluoroethane (CF	TRG	AverageRF		0.524	15	5.6			OK	
Acrolein	TRG	AverageRF		0.030	15	9.7			OK	
1,1-Dichloroethene	MS	AverageRF		0.337	15	3.9			OK	
Trichlorotrifluoroethane	TRG	AverageRF		0.360	15	5.8			OK	
Acetone	TRG	AverageRF		0.062	15	12.9			OK	
2-Propanol	TRG	AverageRF		0.013	15	14.6			OK	
Iodomethane (Methyl Iodide)	TRG	AverageRF		0.505	15	13.4			OK	
Carbon Disulfide	TRG	AverageRF		1.293	15	9.4			OK	
Acetonitrile	TRG	AverageRF		0.009	15	4.3			OK	
Allyl Chloride	TRG	AverageRF		0.188	15	6.1			OK	
Methyl Acetate	TRG	AverageRF		0.180	15	3.5			OK	
Methylene Chloride	TRG	AverageRF		0.419	15	11.8			OK	
tert-Butyl Alcohol	TRG	AverageRF		0.021	15	13.5			OK	
Acrylonitrile	TRG	AverageRF		0.085	15	6.2			OK	
Methyl tert-Butyl Ether	TRG	AverageRF		0.854	15	6.8			OK	
trans-1,2-Dichloroethene	TRG	AverageRF		0.386	15	3.7			OK	
1,1-Dichloroethane	TRG	AverageRF	0.100	0.712	15	3.8			OK	
Vinyl Acetate	TRG	Linear		0.039			.99	0.9983	OK	2.67*
Diisopropyl Ether	TRG	AverageRF		1.037	15	7.8			OK	
2-Chloro-1,3-butadiene	TRG	AverageRF		0.552	15	9.5			OK	
ETBE	TRG	AverageRF		0.966	15	10.7			OK	
2,2-Dichloropropane	TRG	AverageRF		0.508	15	7.8			OK	
cis-1,2-Dichloroethene	TRG	AverageRF		0.417	15	4.4			OK	
2-Butanone (MEK)	TRG	AverageRF		0.103	15	4.0			OK	
Propionitrile	TRG	AverageRF		0.032	15	10.4			OK	
Bromochloromethane	TRG	AverageRF		0.261	15	7.1			OK	
Methacrylonitrile	TRG	AverageRF		0.089	15	11.5			OK	
Tetrahydrofuran	TRG	AverageRF		0.059	15	4.0			OK	
Chloroform	TRG	AverageRF		0.725	15	3.5			OK	
1,1,1-Trichloroethane (TCA)	TRG	AverageRF		0.649	15	2.4			OK	
TAME	TRG	AverageRF		0.798	15	12.8			OK	
Cyclohexane	TRG	AverageRF		0.209	15	3.7			OK	
Dibromofluoromethane	SURR	Linear		0.297			.99	0.9991	NA	16.13
Carbon Tetrachloride	TRG	AverageRF		0.124	15	3.2			OK	
1,1-Dichloropropene	TRG	AverageRF		0.354	15	3.8			OK	
1,2-Dichloroethane-d4	SURR	AverageRF		0.314	15	8.3			NA	
Benzene	MS	AverageRF		1.007	15	2.9			OK	
1,2-Dichloroethane (EDC)	TRG	AverageRF		0.348	15	3.5			OK	
Isobutyl Alcohol	TRG	Linear		0.006			.99	0.9954	OK	76.13*
n-Heptane	TRG	AverageRF		0.206	15	9.2			OK	
Trichloroethene (TCE)	MS	AverageRF		0.277	15	4.1			OK	
Methylcyclohexane	TRG	AverageRF		0.302	15	7.2			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
1,2-Dichloropropane	TRG	AverageRF		0.251	15	4.1			OK	
Dibromomethane	TRG	AverageRF		0.147	15	3.5			OK	
1,4-Dioxane	TRG	AverageRF		0.002	15	9.4			OK	
Methyl Methacrylate	TRG	Linear		0.098			.99	0.9985	OK	1.61 *
Bromodichloromethane	TRG	AverageRF		0.361	15	2.5			OK	
2-Chloroethyl Vinyl Ether	TRG	Linear		0.074			.99	0.9971	OK	0.20
cis-1,3-Dichloropropene	TRG	AverageRF		0.377	15	10.9			OK	
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF		0.139	15	12.3			OK	
Toluene-d8	SURR	AverageRF		1.088	15	6.2			NA	
Toluene	MS	AverageRF		1.101	15	2.8			OK	
trans-1,3-Dichloropropene	TRG	AverageRF		0.324	15	14.6			OK	
Ethyl Methacrylate	TRG	Linear		0.191			.99	0.9990	OK	1.70 *
1,1,2-Trichloroethane	TRG	AverageRF		0.194	15	4.2			OK	
4-Bromofluorobenzene	SURR	AverageRF		0.448	15	6.1			NA	
Tetrachloroethene (PCE)	TRG	AverageRF		0.249	15	3.5			OK	
2-Hexanone	TRG	AverageRF		0.110	15	11.5			OK	
1,3-Dichloropropane	TRG	AverageRF		0.379	15	3.1			OK	
Dibromochloromethane	TRG	AverageRF		0.286	15	6.4			OK	
1,2-Dibromoethane (EDB)	TRG	AverageRF		0.222	15	4.4			OK	
Chlorobenzene	MS	AverageRF	0.300	0.832	15	3.1			OK	
1,1,1,2-Tetrachloroethane	TRG	AverageRF		0.297	15	3.7			OK	
Ethylbenzene	TRG	AverageRF		0.420	15	5.0			OK	
m,p-Xylenes	TRG	AverageRF		0.508	15	7.2			OK	
o-Xylene	TRG	AverageRF		0.485	15	9.7			OK	
Styrene	TRG	AverageRF		0.829	15	11.5			OK	
Bromoform	TRG	AverageRF	0.100	0.175	15	10.0			OK	
Isopropylbenzene	TRG	AverageRF		1.253	15	11.4			OK	
Cyclohexanone	TRG	AverageRF		0.023	15	6.9			*	
trans-1,4-Dichloro-2-butene	TRG	AverageRF		0.045	15	6.6			OK	
1,1,2,2-Tetrachloroethane	TRG	AverageRF	0.300	0.462	15	3.0			OK	
Bromobenzene	TRG	AverageRF		0.638	15	2.5			OK	
1,2,3-Trichloropropane	TRG	AverageRF		0.138	15	6.9			OK	
n-Propylbenzene	TRG	AverageRF		2.763	15	7.8			OK	
2-Chlorotoluene	TRG	AverageRF		1.730	15	5.6			OK	
4-Chlorotoluene	TRG	AverageRF		2.043	15	5.5			OK	
1,3,5-Trimethylbenzene	TRG	AverageRF		1.970	15	9.1			OK	
tert-Butylbenzene	TRG	AverageRF		1.613	15	11.9			OK	
1,2,4-Trimethylbenzene	TRG	AverageRF		2.037	15	11.1			OK	
sec-Butylbenzene	TRG	AverageRF		2.361	15	10.1			OK	
4-Isopropyltoluene	TRG	AverageRF		2.058	15	10.1			OK	
1,3-Dichlorobenzene	TRG	AverageRF		1.259	15	3.0			OK	
1,4-Dichlorobenzene	TRG	AverageRF		1.303	15	2.6			OK	
n-Butylbenzene	TRG	AverageRF		1.781	15	9.8			OK	
1,2-Dichlorobenzene	TRG	AverageRF		1.186	15	3.3			OK	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	AverageRF		0.101	15	11.7			OK	
1,2,4-Trichlorobenzene	TRG	AverageRF		0.809	15	6.9			OK	
Hexachlorobutadiene	TRG	AverageRF		0.329	15	6.0			OK	
Naphthalene	TRG	Linear		1.534			.99	0.9992	OK	0.69 *
1,2,3-Trichlorobenzene	TRG	AverageRF		0.741	15	6.4			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS

SPCC and CCC Evaluations

Parameter Name	Type	SPCC Criteria	SPCC Result	CCC Criteria	CCC Result
Chloromethane	SPCC	0.100	0.371		
Vinyl Chloride	CCC			30	4.5
1,1-Dichloroethene	CCC			30	3.9
1,1-Dichloroethane	SPCC	0.100	0.712		
Chloroform	CCC			30	3.5
1,2-Dichloropropane	CCC			30	4.1
Toluene	CCC			30	2.8
Chlorobenzene	SPCC	0.300	0.832		
Ethylbenzene	CCC			30	5.0
Bromoform	SPCC	0.100	0.175		
1,1,2,2-Tetrachloroethane	SPCC	0.300	0.462		

Initial Calibration - Detailed Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	AverageRF

FileID	File Location		Acquisition Date	Quantitation Date	Last Updated
6442	J:\ACQUDATA\msvoa10\data\062608\B0770.D	0.5	06/26/2008 13:21	06/30/2008 08:53	06/30/2008 10:43
6443	J:\ACQUDATA\msvoa10\data\062608\B0771.D	1.0	06/26/2008 13:51	06/30/2008 08:57	06/30/2008 10:43
6444	J:\ACQUDATA\msvoa10\data\062608\B0772.D	2.0	06/26/2008 14:21	06/30/2008 09:15	06/30/2008 10:43
6445	J:\ACQUDATA\msvoa10\data\062608\B0773.D	5.0	06/26/2008 14:50	06/30/2008 09:21	06/30/2008 10:43
6446	J:\ACQUDATA\msvoa10\data\062608\B0774.D	10.0	06/26/2008 15:22	06/30/2008 09:25	06/30/2008 10:43
6447	J:\ACQUDATA\msvoa10\data\062608\B0775.D	50.0	06/26/2008 15:52	06/30/2008 09:30	06/30/2008 10:43
6448	J:\ACQUDATA\msvoa10\data\062608\B0776.D	100.0	06/26/2008 16:49	06/30/2008 08:41	06/30/2008 10:43
6449	J:\ACQUDATA\msvoa10\data\062608\B0777.D	150.0	06/26/2008 17:19	06/30/2008 08:41	06/30/2008 10:43
6450	J:\ACQUDATA\msvoa10\data\062608\B0778.D	200.0	06/26/2008 17:49	06/30/2008 09:40	06/30/2008 10:43

	FileID									
	(0.5) 6442	(1) 6443	(2) 6444	(5) 6445	(10) 6446	(50) 6447	(100) 6448	(150) 6449	Mean	
Parameter Name	(200) 6450								**RF**	**%RSD**
Dichlorodifluoromethane	0.445	0.372	0.381	0.344	0.441	0.428	0.404	0.384		
	0.399								0.400	8.4
Chloromethane	0.410	0.356	0.359	0.358	0.393	0.385	0.367	0.354		
	0.358								0.371	5.4
Vinyl Chloride	0.394	0.354	0.388	0.385	0.403	0.405	0.383	0.361		
	0.375								0.383	4.5
Bromomethane	0.319	0.324	0.289	0.259	0.280	0.270	0.253	0.233		
	0.236								0.274	11.9
Chloroethane	0.267	0.220	0.228	0.204	0.221	0.210	0.200	0.182		
	0.186								0.213	11.9
Dichlorofluoromethane (CFC 21)	0.767	0.710	0.740	0.730	0.719	0.747	0.707	0.681		
	0.661								0.718	4.6
Trichlorofluoromethane	0.749	0.654	0.719	0.684	0.690	0.690	0.639	0.597		
	0.608								0.670	7.5
Diethyl Ether	0.229	0.235	0.236	0.240	0.235	0.229	0.213	0.210		
	0.207								0.226	5.5
1,2-Dichloro-1,1,2-trifluoroethane (	0.511	0.417	0.443	0.467	0.418	0.454	0.415	0.406		
	0.371								0.434	9.4
2,2-Dichloro-1,1,1-trifluoroethane (	0.577	0.491	0.548	0.541	0.504	0.541	0.519	0.507		
	0.492								0.524	5.6
Acrolein	0.027	0.026	0.028	0.028	0.029	0.032	0.035	0.032		
	0.031								0.030	9.7
1,1-Dichloroethene	0.359	0.335	0.342	0.334	0.346	0.349	0.329	0.315		
	0.327								0.337	3.9
Trichlorotrifluoroethane	0.380	0.352	0.393	0.359	0.380	0.364	0.346	0.331		
	0.339								0.360	5.8
Acetone				0.077	0.061	0.059	0.054	0.060		
	0.059								0.062	12.9
2-Propanol			0.011	0.012	0.011	0.013	0.014	0.016		
	0.015								0.013	14.6
Iodomethane (Methyl Iodide)	0.449	0.393	0.459	0.486	0.486	0.586	0.593	0.557		
	0.539								0.505	13.4
Carbon Disulfide	1.517	1.277	1.337	1.287	1.047	1.338	1.315	1.270		
	1.252								1.293	9.4

Initial Calibration - Detailed Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID									
Parameter Name	**6442**	**6443**	**6444**	**6445**	**6446**	**6447**	**6448**	**6449**	**Mean RF**	**%RSD**
	6450									
Acetonitrile			0.008	0.009	0.009	0.009	0.009	0.008		
	0.008								0.009	4.3
Allyl Chloride	0.202	0.163	0.191	0.180	0.190	0.197	0.194	0.184		
	0.191								0.188	6.1
Methyl Acetate		0.179	0.174	0.186	0.181	0.192	0.174	0.181		
	0.176								0.180	3.5
Methylene Chloride	0.526	0.461	0.433	0.418	0.404	0.396	0.379	0.369		
	0.383								0.419	11.8
tert-Butyl Alcohol	0.020	0.018	0.017	0.019	0.019	0.022	0.021	0.025		
	0.025								0.021	13.5
Acrylonitrile	0.074	0.082	0.083	0.085	0.088	0.092	0.084	0.090		
	0.088								0.085	6.2
Methyl tert-Butyl Ether	0.762	0.788	0.805	0.854	0.863	0.926	0.875	0.905		
	0.912								0.854	6.8
trans-1,2-Dichloroethene	0.397	0.380	0.388	0.402	0.404	0.393	0.378	0.361		
	0.374								0.386	3.7
1,1-Dichloroethane	0.741	0.692	0.742	0.719	0.735	0.722	0.697	0.663		
	0.693								0.712	3.8
Vinyl Acetate		0.027	0.035	0.032	0.037	0.042	0.044	0.045		
	0.048								0.039	18.4#
Diisopropyl Ether	0.899	0.943	0.985	1.056	1.113	1.145	1.087	1.069		
	1.034								1.037	7.8
2-Chloro-1,3-butadiene	0.495	0.488	0.553	0.567	0.483	0.624	0.610	0.583		
	0.567								0.552	9.5
ETBE	0.811	0.824	0.882	0.960	0.989	1.063	1.043	1.067		
	1.053								0.966	10.7
2,2-Dichloropropane	0.510	0.447	0.476	0.465	0.497	0.549	0.553	0.530		
	0.549								0.508	7.8
cis-1,2-Dichloroethene	0.447	0.388	0.417	0.410	0.436	0.429	0.414	0.398		
	0.414								0.417	4.4
2-Butanone (MEK)			0.104	0.108	0.101	0.106	0.096	0.107		
	0.102								0.103	4.0
Propionitrile	0.029	0.026	0.031	0.033	0.031	0.033	0.033	0.036		
	0.036								0.032	10.4
Bromochloromethane	0.306	0.266	0.261	0.256	0.263	0.261	0.247	0.242		
	0.247								0.261	7.1
Methacrylonitrile	0.075	0.074	0.081	0.090	0.093	0.096	0.093	0.101		
	0.101								0.089	11.5
Tetrahydrofuran		0.061	0.057	0.055	0.060	0.060	0.058	0.062		
	0.063								0.059	4.0
Chloroform	0.742	0.704	0.739	0.753	0.752	0.737	0.713	0.681		
	0.707								0.725	3.5
1,1,1-Trichloroethane (TCA)	0.648	0.629	0.668	0.654	0.654	0.666	0.649	0.619		
	0.651								0.649	2.4
TAME	0.657	0.705	0.704	0.737	0.787	0.877	0.868	0.926		
	0.923								0.798	12.8
Cyclohexane	0.206	0.203	0.221	0.218	0.204	0.218	0.208	0.204		
	0.200								0.209	3.7

Initial Calibration - Detailed Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID									
Parameter Name	**6442**	**6443**	**6444**	**6445**	**6446**	**6447**	**6448**	**6449**	**Mean RF**	**%RSD**
Dibromofluoromethane	0.319	0.307	0.320	0.284	0.277	0.274			0.297	7.1#
Carbon Tetrachloride	0.132	0.120	0.123	0.121	0.125	0.127	0.123	0.119	0.122	3.2
1,1-Dichloropropene	0.355	0.324	0.369	0.358	0.353	0.367	0.358	0.345	0.359	3.8
1,2-Dichloroethane-d4	0.347	0.327	0.337	0.297	0.293	0.285			0.314	8.3
Benzene	1.023	0.952	1.013	1.021	1.047	1.025	1.003	0.971	1.013	2.9
1,2-Dichloroethane (EDC)	0.360	0.351	0.355	0.354	0.363	0.351	0.334	0.331	0.332	3.5
Isobutyl Alcohol	0.005	0.004	0.005	0.006	0.006	0.007			0.006	18.3#
n-Heptane	0.204	0.165	0.193	0.200	0.215	0.224	0.226	0.211	0.219	9.2
Trichloroethene (TCE)	0.301	0.263	0.285	0.279	0.271	0.277	0.273	0.264	0.278	4.1
Methylcyclohexane	0.274	0.268	0.295	0.298	0.300	0.333	0.322	0.318	0.312	7.2
1,2-Dichloropropane	0.243	0.236	0.236	0.259	0.259	0.264	0.255	0.249	0.257	4.1
Dibromomethane	0.156	0.150	0.148	0.143	0.148	0.149	0.140	0.142	0.143	3.5
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002			0.002	9.4
Methyl Methacrylate	0.075	0.080	0.081	0.092	0.098	0.112	0.106	0.117	0.117	16.7#
Bromodichloromethane	0.370	0.352	0.347	0.356	0.371	0.372	0.365	0.354	0.362	2.5
2-Chloroethyl Vinyl Ether	0.055	0.049	0.062	0.064	0.092	0.093	0.091	0.085	0.074	24.5#
cis-1,3-Dichloropropene	0.320	0.339	0.336	0.347	0.382	0.421	0.415	0.410	0.419	10.9
4-Methyl-2-pentanone (MIBK)	0.115	0.124	0.129	0.150	0.141	0.159			0.139	12.3
Toluene-d8	1.149	1.111	1.177	1.054	1.023	1.016			1.088	6.2
Toluene	1.153	1.078	1.108	1.085	1.134	1.120	1.092	1.053	1.089	2.8
trans-1,3-Dichloropropene	0.260	0.280	0.278	0.294	0.322	0.372	0.366	0.369	0.376	14.6
Ethyl Methacrylate	0.137	0.134	0.152	0.170	0.190	0.232	0.223	0.241	0.241	23.3#
1,1,2-Trichloroethane	0.178	0.188	0.191	0.198	0.201	0.205	0.192	0.198	0.198	4.2
4-Bromofluorobenzene	0.473	0.457	0.484	0.433	0.421	0.421			0.448	6.1

Initial Calibration - Detailed Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID									
Parameter Name	**6442**	**6443**	**6444**	**6445**	**6446**	**6447**	**6448**	**6449**	**Mean RF**	**%RSD**
	6450									
Tetrachloroethene (PCE)	0.261	0.235	0.256	0.251	0.257	0.253	0.247	0.237		
	0.248								0.249	3.5
2-Hexanone				0.093	0.098	0.116	0.109	0.124		
	0.122								0.110	11.5
1,3-Dichloropropane	0.374	0.378	0.359	0.377	0.394	0.399	0.376	0.378		
	0.381								0.379	3.1
Dibromochloromethane	0.255	0.275	0.267	0.276	0.289	0.307	0.297	0.300		
	0.304								0.286	6.4
1,2-Dibromoethane (EDB)	0.213	0.205	0.215	0.217	0.226	0.236	0.223	0.229		
	0.231								0.222	4.4
Chlorobenzene	0.865	0.818	0.827	0.853	0.860	0.843	0.822	0.786		
	0.810								0.832	3.1
1,1,1,2-Tetrachloroethane	0.287	0.283	0.285	0.289	0.304	0.311	0.309	0.298		
	0.306								0.297	3.7
Ethylbenzene	0.410	0.374	0.415	0.420	0.436	0.447	0.435	0.414		
	0.425								0.420	5.0
m,p-Xylenes	0.452	0.458	0.506	0.526	0.556	0.550	0.530	0.497		
	0.501								0.508	7.2
o-Xylene	0.416	0.408	0.471	0.488	0.533	0.538	0.522	0.494		
	0.499								0.485	9.7
Styrene	0.663	0.690	0.793	0.851	0.916	0.925	0.896	0.859		
	0.869								0.829	11.5
Bromoform	0.146	0.167	0.168	0.159	0.170	0.190	0.185	0.195		
	0.197								0.175	10.0
Isopropylbenzene	1.027	1.024	1.188	1.261	1.345	1.392	1.368	1.320		
	1.352								1.253	11.4
Cyclohexanone				0.022	0.024	0.025	0.021	0.024		
	0.021								0.023	6.9
trans-1,4-Dichloro-2-butene	0.040	0.043	0.047	0.043	0.043	0.047	0.046	0.049		
	0.049								0.045	6.6
1,1,2,2-Tetrachloroethane	0.445	0.460	0.445	0.460	0.472	0.482	0.448	0.473		
	0.471								0.462	3.0
Bromobenzene	0.636	0.612	0.634	0.629	0.666	0.646	0.642	0.625		
	0.656								0.638	2.5
1,2,3-Trichloropropane	0.118	0.153	0.134	0.141	0.140	0.142	0.133	0.140		
	0.142								0.138	6.9
n-Propylbenzene	2.565	2.373	2.708	2.836	2.974	2.994	2.966	2.846		
	2.604								2.763	7.8
2-Chlorotoluene	1.636	1.529	1.704	1.735	1.823	1.807	1.798	1.727		
	1.809								1.730	5.6
4-Chlorotoluene	1.892	1.868	2.043	2.101	2.212	2.144	2.098	1.991		
	2.035								2.043	5.5
1,3,5-Trimethylbenzene	1.725	1.637	1.921	2.006	2.133	2.151	2.101	2.006		
	2.053								1.970	9.1
tert-Butylbenzene	1.398	1.266	1.474	1.604	1.720	1.782	1.762	1.703		
	1.809								1.613	11.9
1,2,4-Trimethylbenzene	1.637	1.710	1.927	2.104	2.230	2.235	2.202	2.119		
	2.169								2.037	11.1

Initial Calibration - Detailed Report

Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	AverageRF

	FileID									
Parameter Name	**6442**	**6443**	**6444**	**6445**	**6446**	**6447**	**6448**	**6449**	**Mean RF**	**%RSD**
	6450									
sec-Butylbenzene	2.034	1.916	2.291	2.401	2.548	2.591	2.555	2.457		
	2.459								2.361	10.1
4-Isopropyltoluene	1.789	1.706	1.898	2.078	2.191	2.238	2.241	2.149		
	2.229								2.058	10.1
1,3-Dichlorobenzene	1.227	1.207	1.243	1.241	1.329	1.286	1.272	1.241		
	1.288								1.259	3.0
1,4-Dichlorobenzene	1.366	1.277	1.327	1.290	1.323	1.309	1.283	1.252		
	1.299								1.303	2.6
n-Butylbenzene	1.626	1.455	1.629	1.810	1.918	1.979	1.934	1.824		
	1.850								1.781	9.8
1,2-Dichlorobenzene	1.181	1.133	1.216	1.200	1.243	1.228	1.173	1.136		
	1.164								1.186	3.3
1,2-Dibromo-3-chloropropane (DBC	0.084	0.099	0.086	0.092	0.100	0.108	0.104	0.116		
	0.117								0.101	11.7
1,2,4-Trichlorobenzene	0.761	0.718	0.754	0.791	0.845	0.880	0.845	0.832		
	0.859								0.809	6.9
Hexachlorobutadiene	0.358	0.304	0.344	0.335	0.340	0.336	0.327	0.297		
	0.318								0.329	6.0
Naphthalene	1.130	1.175	1.258	1.468	1.635	1.839	1.703	1.823		
	1.776								1.534	18.5#
1,2,3-Trichlorobenzene	0.644	0.711	0.708	0.742	0.782	0.799	0.751	0.760		
	0.773								0.741	6.4

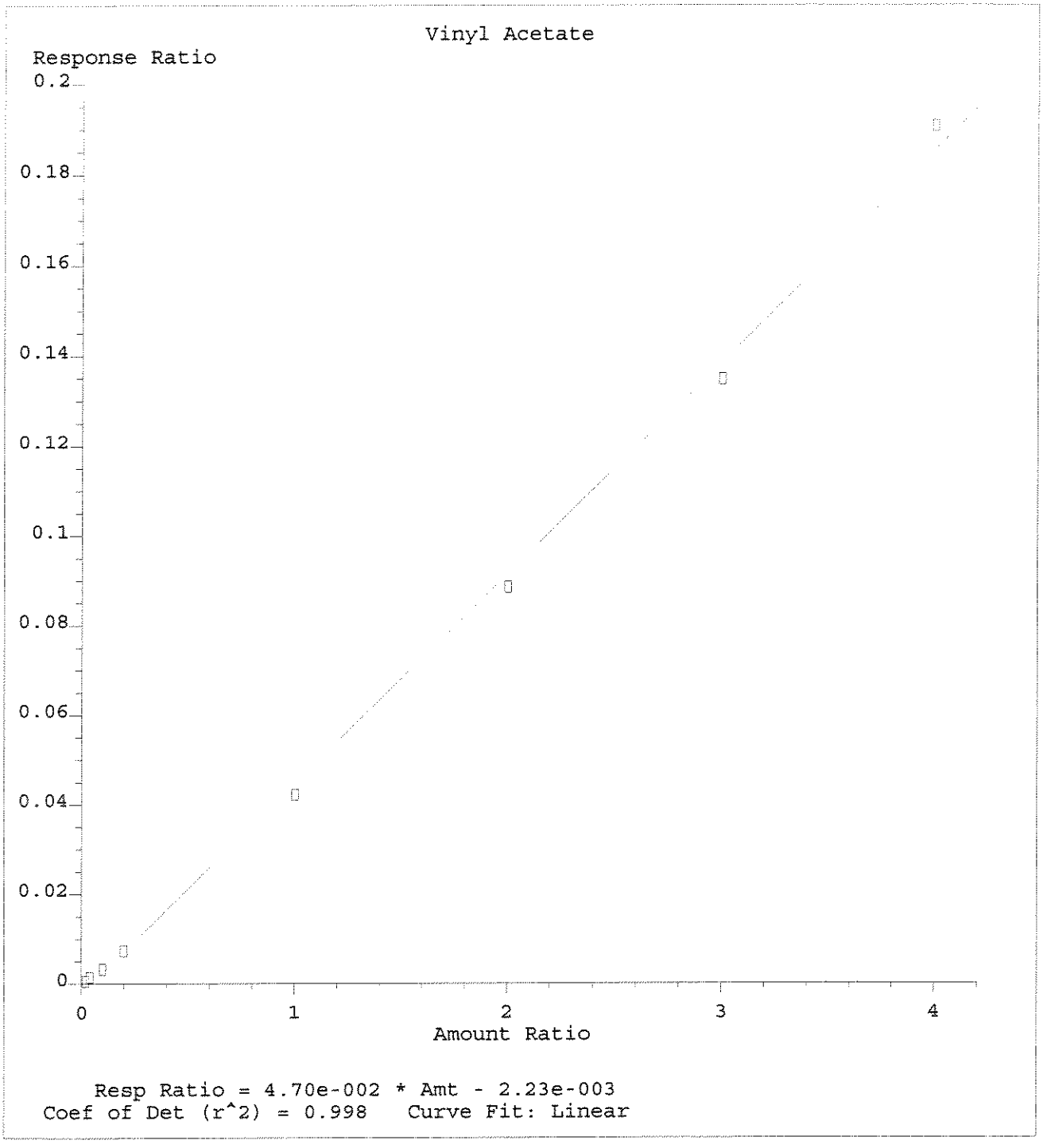
 # RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Initial Calibration - Detailed Report

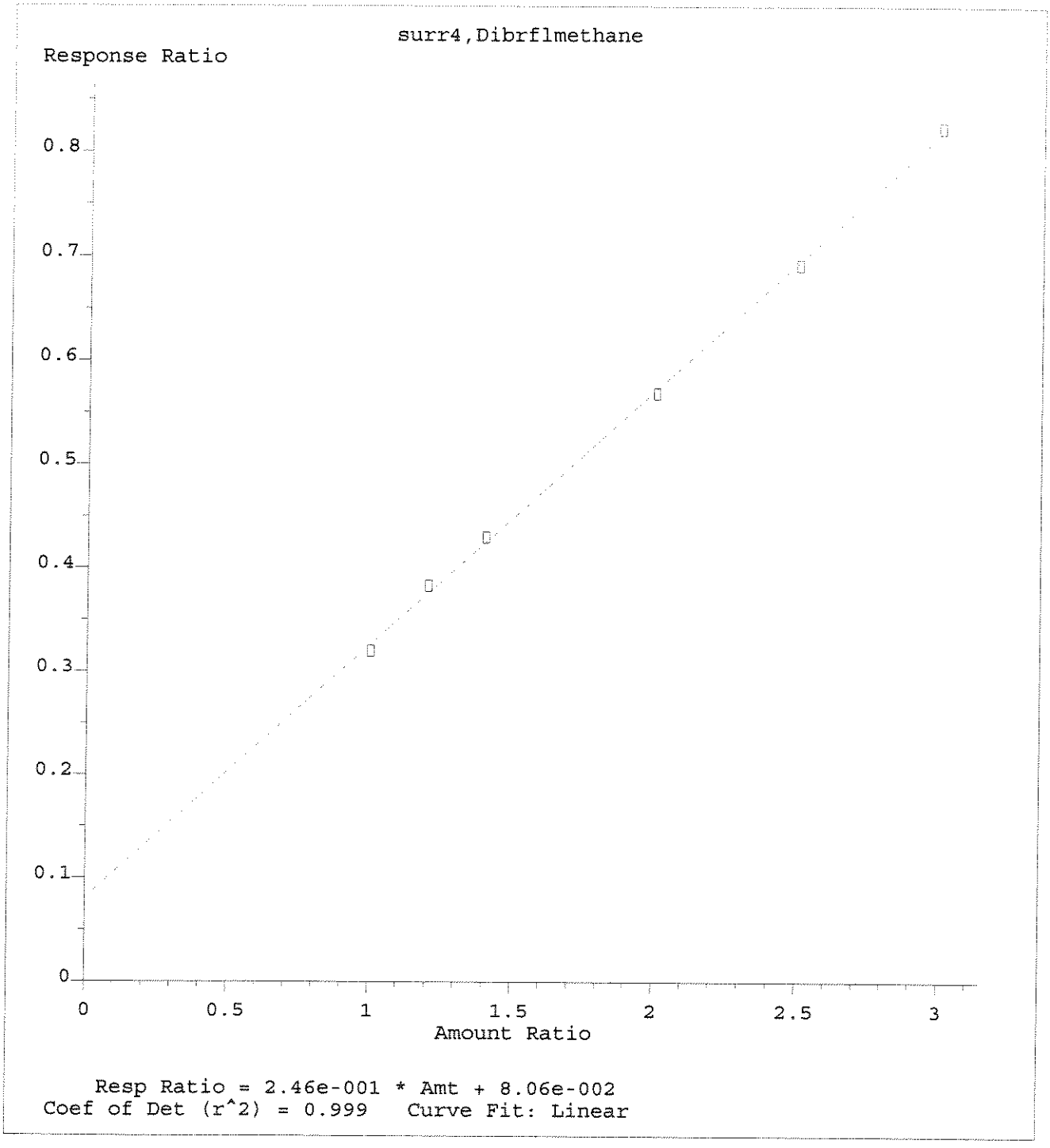
Calibration ID:	CAL786	**Instrument ID:**	MSVOA10
Method ID:	MJ162	**Column Name:**	MS
		Calibration Fit:	Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
6442	J:\ACQUDATA\msvoa10\data\062608\B0770.D	06/26/2008 13:21	06/30/2008 08:53	06/30/2008 10:43
6443	J:\ACQUDATA\msvoa10\data\062608\B0771.D	06/26/2008 13:51	06/30/2008 08:57	06/30/2008 10:43
6444	J:\ACQUDATA\msvoa10\data\062608\B0772.D	06/26/2008 14:21	06/30/2008 09:15	06/30/2008 10:43
6445	J:\ACQUDATA\msvoa10\data\062608\B0773.D	06/26/2008 14:50	06/30/2008 09:21	06/30/2008 10:43
6446	J:\ACQUDATA\msvoa10\data\062608\B0774.D	06/26/2008 15:22	06/30/2008 09:25	06/30/2008 10:43
6447	J:\ACQUDATA\msvoa10\data\062608\B0775.D	06/26/2008 15:52	06/30/2008 09:30	06/30/2008 10:43
6448	J:\ACQUDATA\msvoa10\data\062608\B0776.D	06/26/2008 16:49	06/30/2008 08:41	06/30/2008 10:43
6449	J:\ACQUDATA\msvoa10\data\062608\B0777.D	06/26/2008 17:19	06/30/2008 08:41	06/30/2008 10:43
6450	J:\ACQUDATA\msvoa10\data\062608\B0778.D	06/26/2008 17:49	06/30/2008 09:40	06/30/2008 10:43

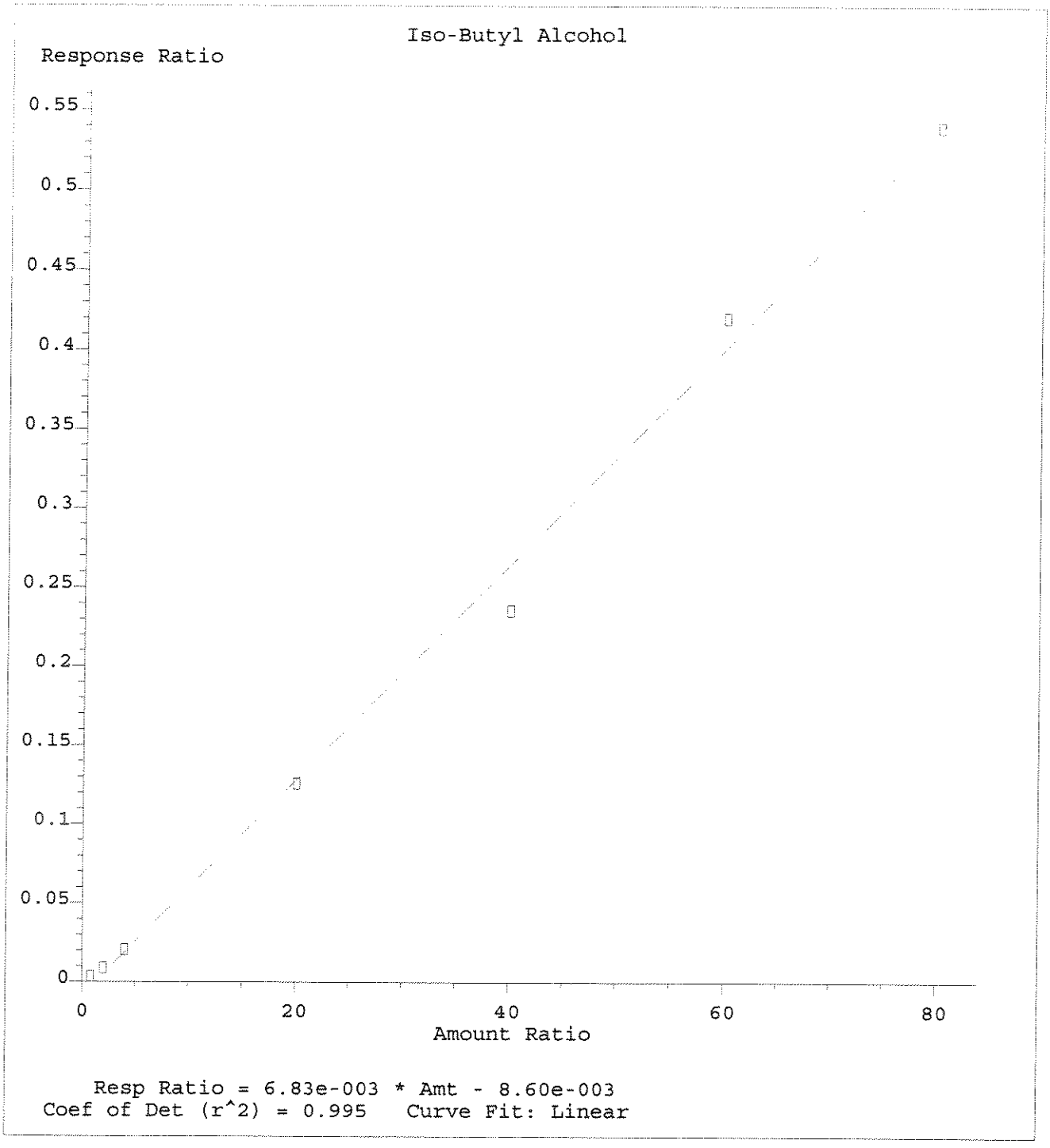
Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Vinyl Acetate		0.047	-0.002	0.9983	0.039
Dibromofluoromethane		0.246	0.081	0.9991	0.297
Isobutyl Alcohol		0.007	-0.009	0.9954	0.006
Methyl Methacrylate		0.116	-0.003	0.9985	0.098
2-Chloroethyl Vinyl Ether		0.088	0.000	0.9971	0.074
Ethyl Methacrylate		0.241	-0.007	0.9990	0.191
Naphthalene		1.789	-0.019	0.9992	1.534



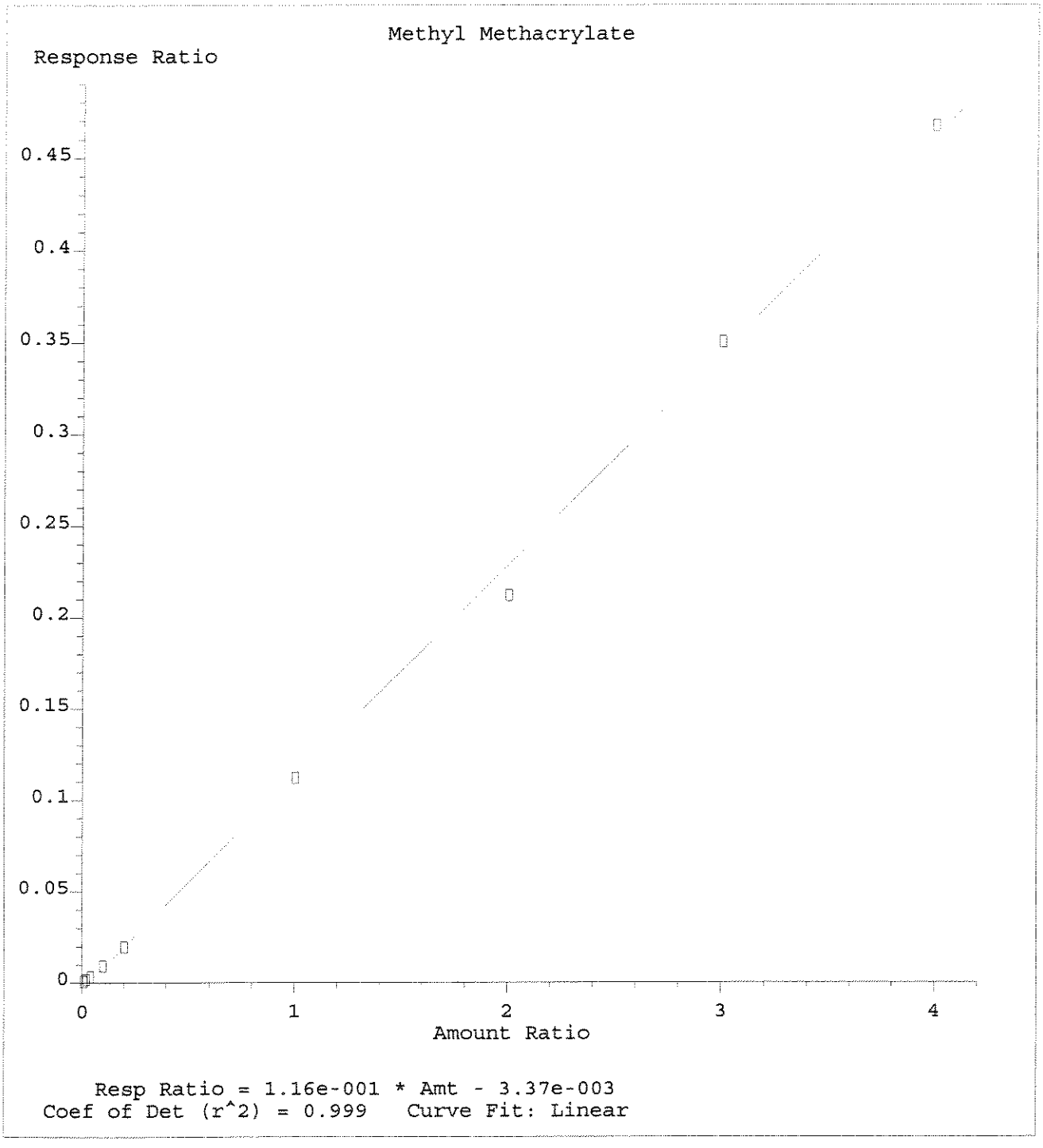
Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:47:35 2008



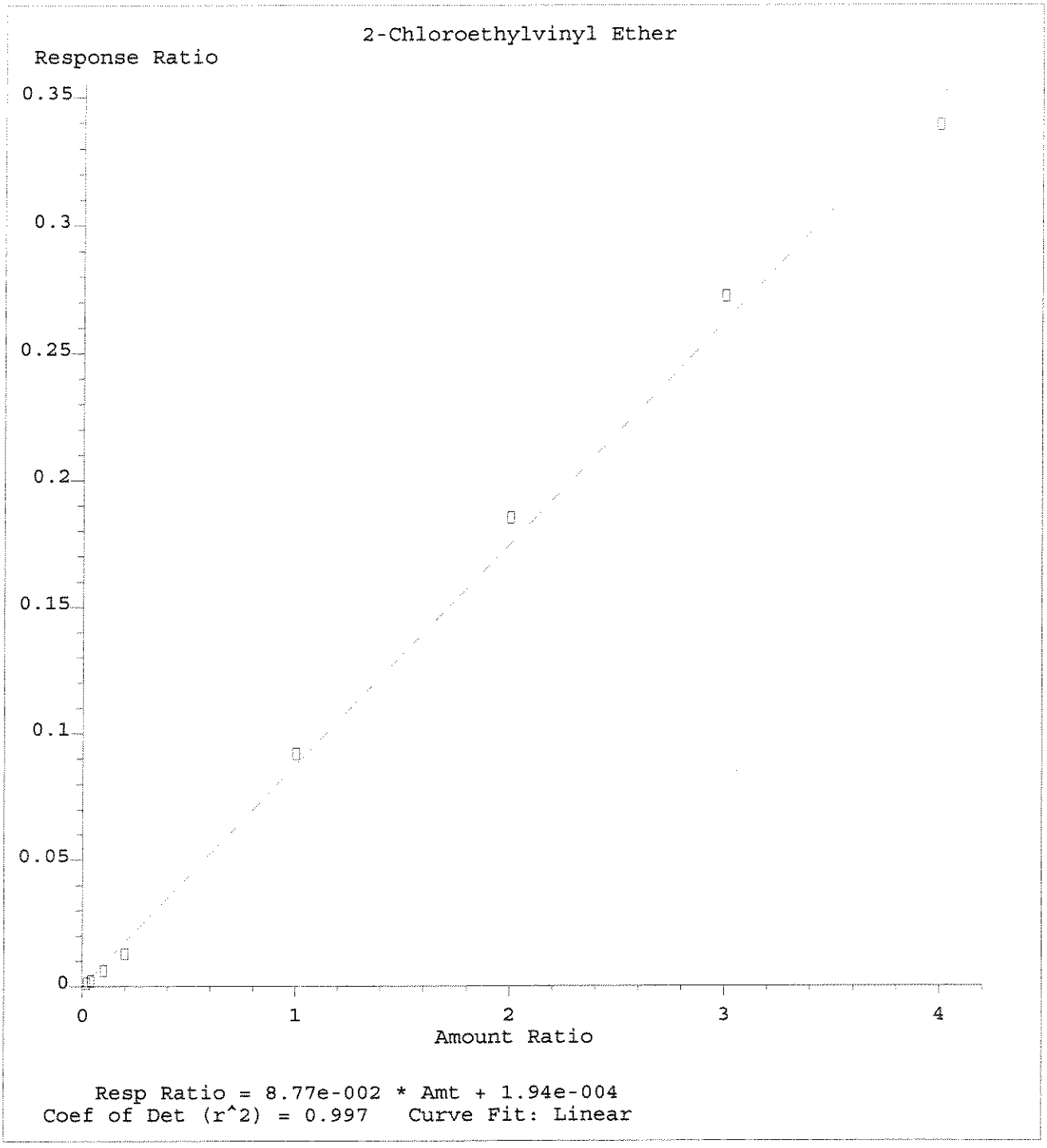
Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:52:22 2008



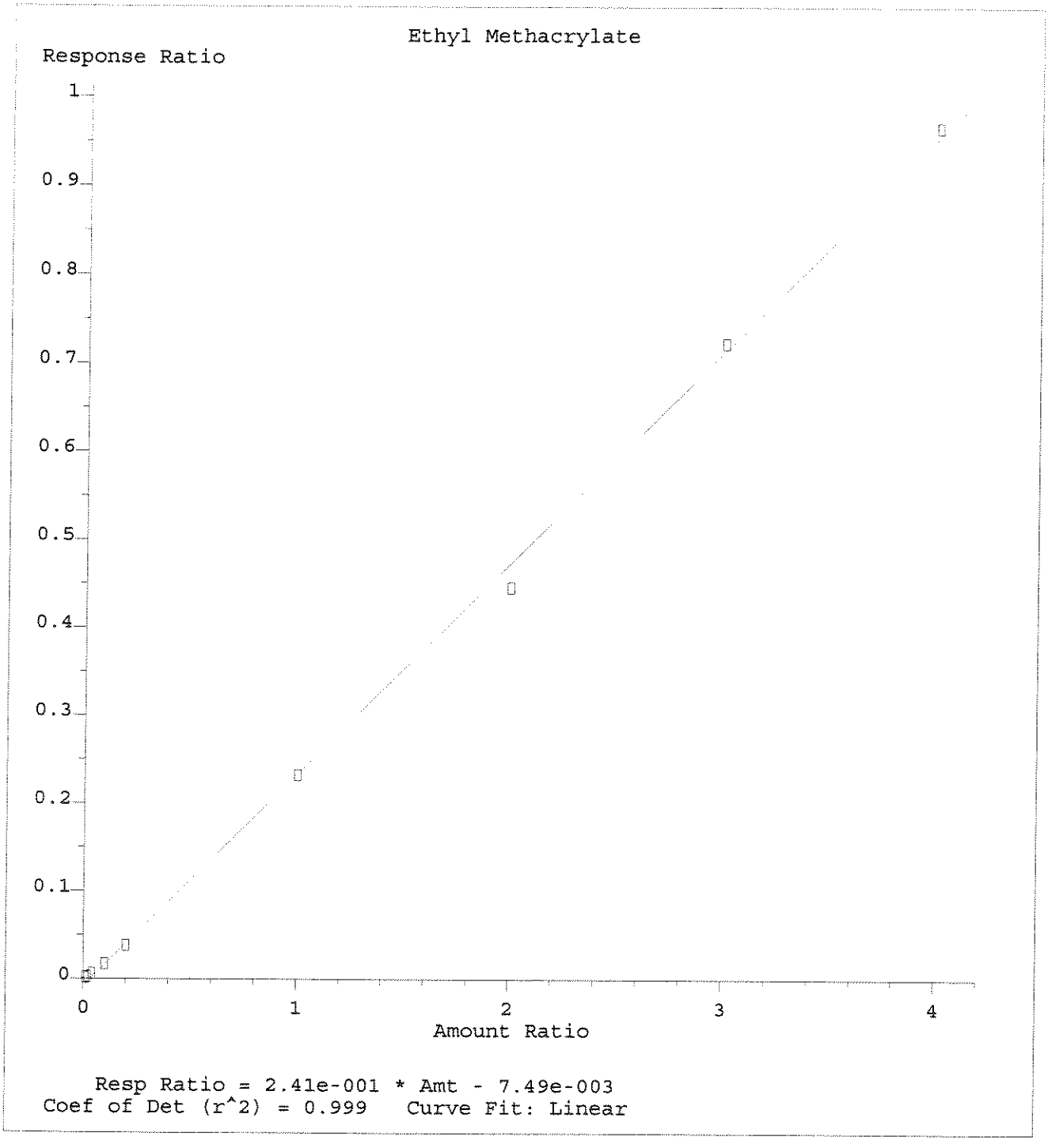
Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:53:15 2008



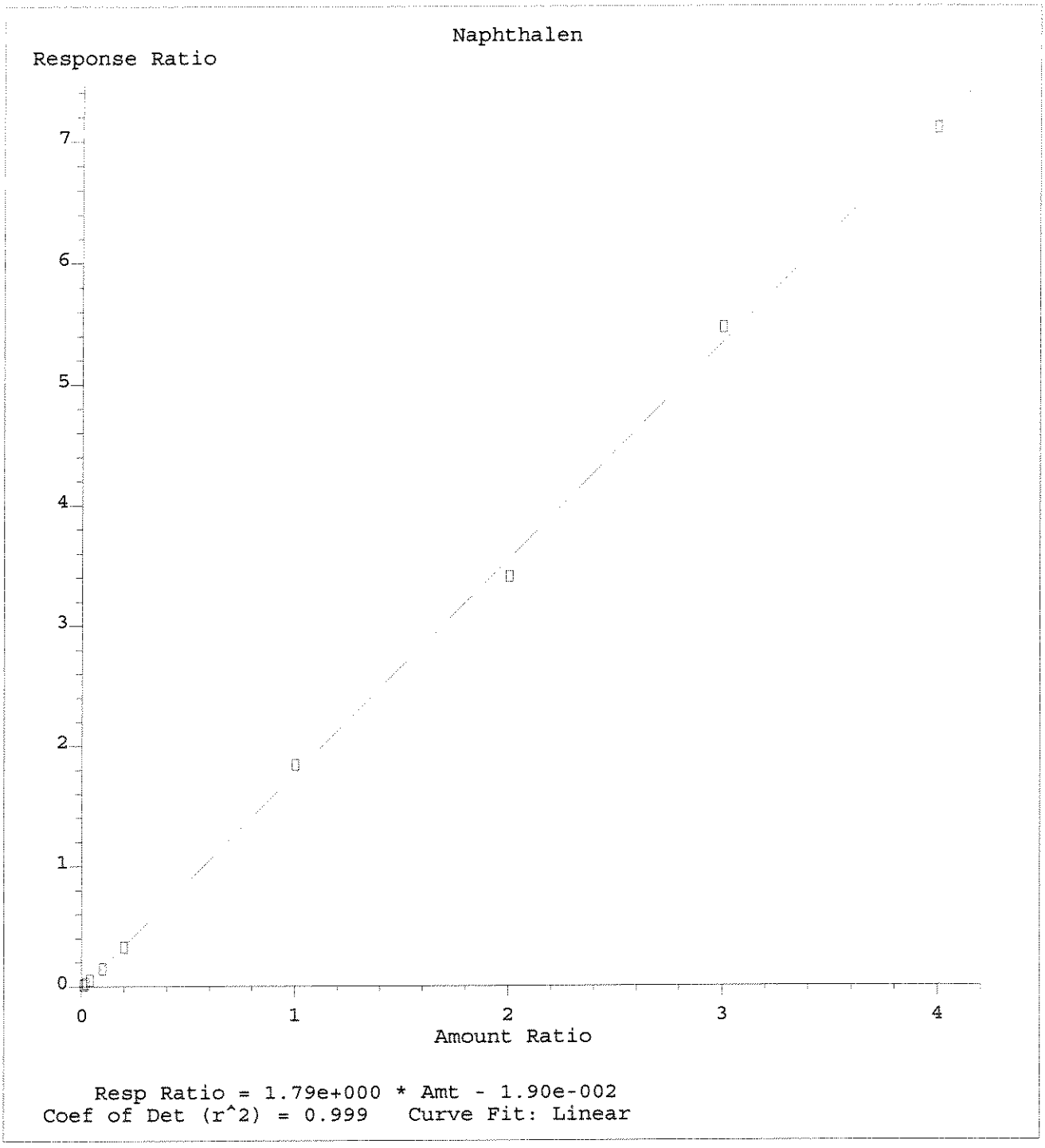
Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:54:28 2008



Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:54:58 2008



Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:55:58 2008



Method Name: J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Calibration Table Last Updated: Mon Jun 30 09:56:15 2008

Quantitation Report (QT Reviewed)

FN 6/30/08

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:53:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1174539	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.635	114	1793617	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.854	117	1612678	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	898989	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	585177	54.92	ug/L		0.00
Spiked Amount 50.000			Recovery = 109.84%				
49) surr1,1,2-dichloroetha...	4.885	65	614214	54.48	ug/L		0.00
Spiked Amount 50.000			Recovery = 108.96%				
65) SURR3,Toluene-d8	7.445	98	2089736	53.52	ug/L		0.00
Spiked Amount 50.000			Recovery = 107.04%				
70) SURR2,BFB	9.890	95	845204	52.57	ug/L		0.00
Spiked Amount 50.000			Recovery = 105.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.184	85	5229	0.56	ug/L		98
4) Chloromethane	1.294	50	4812	0.55	ug/L		89
5) Vinyl Chloride	1.355	62	4623	0.51	ug/L		88
6) Bromomethane	1.556	94	3742	0.58	ug/L		90
7) Chloroethane	1.611	64	3131	0.63	ug/L		98
8) Freon 21	1.721	67	9007	0.53	ug/L		98
9) Trichlorofluoromethane	1.764	101	8794	0.56	ug/L		89
10) Diethyl Ether	1.934	59	2688	0.51	ug/L		87
11) Freon 123a	1.928	67	6002	0.59	ug/L		84
12) Freon 123	1.971	83	6779	0.55	ug/L	#	86
13) Acrolein	2.026	56	1568	2.28	ug/L		94
14) 1,1-Diclethene	2.105	96	4218	0.53	ug/L		96
15) Freon 113	2.099	101	4469	0.53	ug/L		96
16) Acetone	2.117	43	1646	1.14	ug/L		86
17) 2-Propanol	2.196	45	2587	8.40	ug/L	#	76
18) Iodomethane	2.215	142	5272	0.41	ug/L		100
19) Carbon Disulfide	2.276	76	17816	0.59	ug/L	#	93
21) Allyl Chloride	2.355	76	2370	0.54	ug/L		94
22) Methyl Acetate	2.355	43	2357	0.56	ug/L	#	88
23) Methylene Chloride	2.446	84	6178	0.63	ug/L		95
24) TBA	2.501	59	4763	9.74	ug/L		83
25) Acrylonitrile	2.641	53	4355	2.18	ug/L		84
26) Methyl-t-Butyl Ether	2.666	73	8951	0.45	ug/L		100
27) trans-1,2-Dichloroethene	2.672	96	4665	0.51	ug/L		90
28) 1,1-Diclethane	3.062	63	8706	0.52	ug/L	#	92
30) DIPE	3.117	45	10554	0.43	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.154	53	5810	0.45	ug/L		97
32) ETBE	3.519	59	9522	0.42	ug/L		94
33) 2,2-Dichloropropane	3.696	77	5985	0.50	ug/L	#	87
34) cis-1,2-Dichloroethene	3.696	96	5254	0.54	ug/L	#	75
35) 2-Butanone	3.720	43	1384	0.57	ug/L	#	73
37) Propionitrile	3.794	54	1685	2.24	ug/L		94
38) Bromochloromethane	4.007	130	3591	0.59	ug/L		81
39) Methacrylonitrile	3.995	67	885	0.42	ug/L		97
40) Tetrahydrofuran	4.086	42	631	0.45	ug/L		93

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:53:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Chloroform	4.123	83	8710	0.51	ug/L		98
42) 1,1,1-Trichloroethane	4.373	97	7610	0.50	ug/L		87
43) TAME	5.202	73	7714	0.39	ug/L	#	61
45) Cyclohexane	4.458	41	3700	0.49	ug/L	#	79
47) Carbontetrachloride	4.635	121	2366	0.53	ug/L		97
48) 1,1-Dichloropropene	4.641	75	6374	0.50	ug/L	#	87
50) Benzene	4.989	78	18340	0.51	ug/L	#	89
51) 1,2-Dichloroethane	5.019	62	6452	0.52	ug/L	#	87
53) n-Heptane	5.482	43	3651	0.49	ug/L	#	81
54) Trichloroethene	5.988	130	5391	0.54	ug/L		91
55) Methylcyclohexane	6.232	55	4921	0.45	ug/L	#	80
56) 1,2-Diclpropane	6.281	63	4362	0.48	ug/L	#	74
57) Dibromomethane	6.433	93	2795	0.53	ug/L		96
59) Methyl Methacrylate	6.482	69	1339	0.38	ug/L	#	95
60) Bromodichloromethane	6.641	83	6632	0.51	ug/L		97
62) 2-Chloroethylvinyl Ether	7.025	63	684	0.26	ug/L		94
63) cis-1,3-Dichloropropene	7.165	75	5735	0.42	ug/L		91
64) 4-Methyl-2-pentanone	7.354	43	1720	0.34	ug/L	#	83
66) Toluene	7.519	91	20682	0.52	ug/L		91
67) trans-1,3-Dichloropropene	7.762	75	4667	0.40	ug/L		95
68) Ethyl Methacrylate	7.884	69	2465	0.36	ug/L		92
69) 1,1,2-Trichloroethane	7.945	97	3188	0.46	ug/L		86
72) Tetrachloroethene	8.073	164	4209	0.52	ug/L		92
73) 2-Hexanone	8.220	43	1090	0.31	ug/L		95
74) 1,3-Dichloropropane	8.110	76	6031	0.49	ug/L	#	80
75) Dibromochloromethane	8.317	129	4110	0.45	ug/L		96
76) 1,2-Dibromoethane	8.421	107	3443	0.48	ug/L	#	95
77) Chlorobenzene	8.878	112	13956	0.52	ug/L		98
78) 1,1,1,2-Tetrachloroethane	8.963	131	4630	0.48	ug/L		98
79) Ethylbenzene	8.994	106	6612	0.49	ug/L		95
80) (m+p)Xylene	9.097	106	14587	0.89	ug/L		88
81) o-Xylene	9.445	106	6703	0.43	ug/L		98
82) Styrene	9.463	104	10688	0.40	ug/L		93
83) Bromoform	9.616	173	2353	0.42	ug/L		91
84) Isopropylbenzene	9.768	105	16556 FV 7/18	0.41	ug/L		95
85) Cyclohexanone	9.841	55	5254	7.18	ug/L		94
86) trans-1,4-Dichloro-2-B...	10.073	53	643m	0.44	ug/L		
88) 1,1,2,2-Tetrachloroethane	10.024	83	3999	0.48	ug/L		92
89) Bromobenzene	10.018	156	5721	0.50	ug/L		93
91) 1,2,3-Trichloropropane	10.055	110	1058	0.43	ug/L	#	72
92) n-Propylbenzene	10.116	91	23058	0.46	ug/L		98
93) 2-Chlorotoluene	10.183	91	14707 FV 7/18	0.47	ug/L		95
94) 4-Chlorotoluene	10.274	91	17012m	0.47	ug/L		
95) 1,3,5-Trimethylbenzene	10.268	105	15512	0.44	ug/L		96
96) tert-Butylbenzene	10.530	119	12565	0.43	ug/L		94
97) 1,2,4-Trimethylbenzene	10.573	105	14715	0.40	ug/L		98
98) sec-Butylbenzene	10.707	105	18289	0.43	ug/L		97
99) p-Isopropyltoluene	10.829	119	16081	0.43	ug/L		98
100) 1,3-Dclbenz	10.792	146	11031	0.49	ug/L		97
101) 1,4-Dclbenz	10.865	146	12283	0.52	ug/L		92
103) n-Butylbenzene	11.158	91	14622	0.46	ug/L		92
104) 1,2-Dclbenz	11.164	146	10621	0.50	ug/L		95

Quantitation Report (QT Reviewed)

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:53:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,2-Dibromo-3-chloropr...	11.719	157	758	0.42	ug/L	90
107) 1,2,4-Tcbenzene	12.237	180	6841	0.47	ug/L	97
108) Hexachlorobt	12.335	225	3221	0.55	ug/L	97
109) Naphthalen	12.377	128	10157	0.37	ug/L	96
110) 1,2,3-Tclbenzene	12.518	180	5790	0.43	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

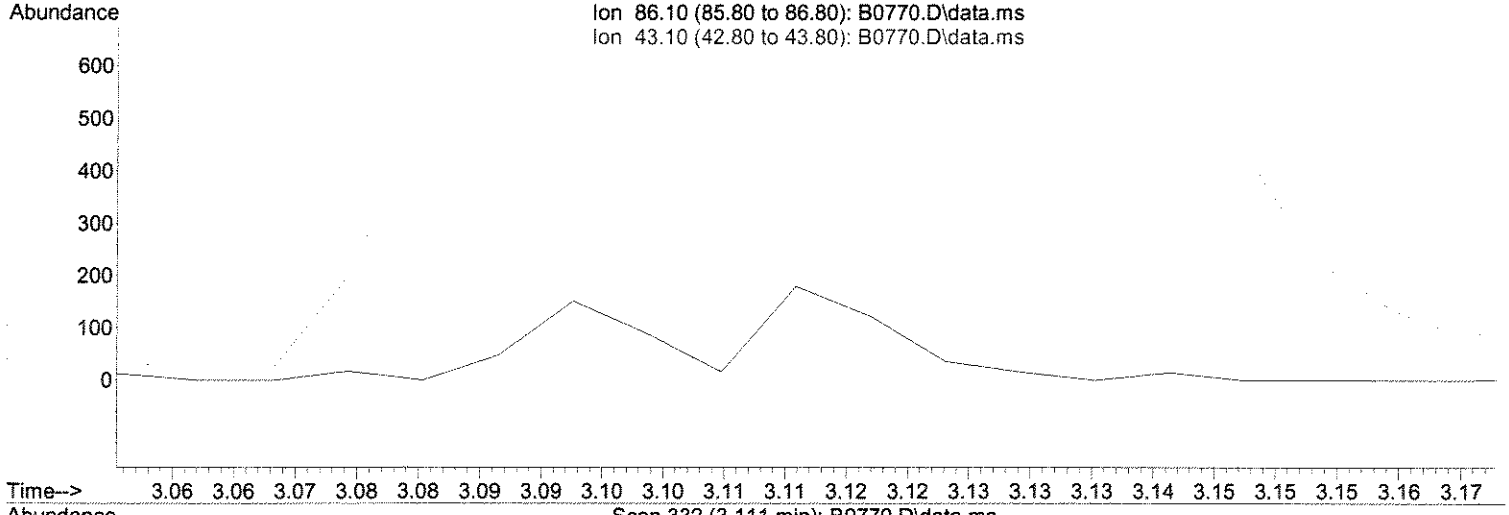
Quantitation Report (Qedit)

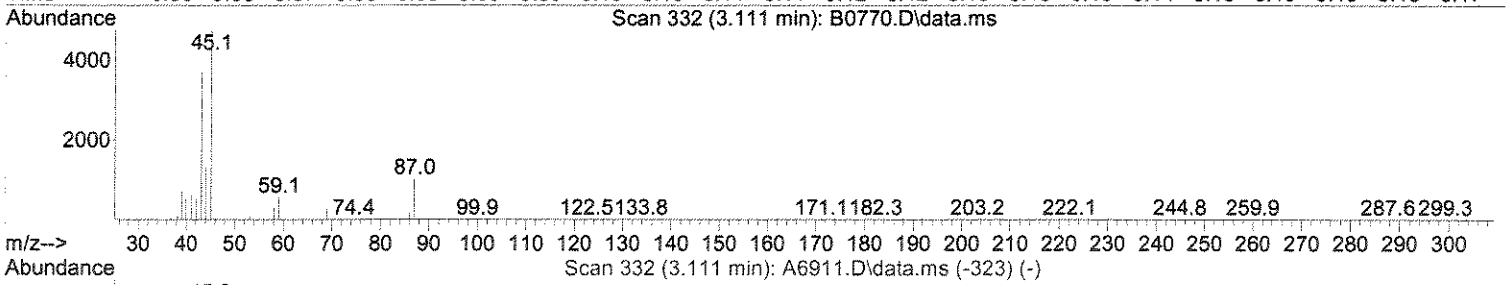
Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

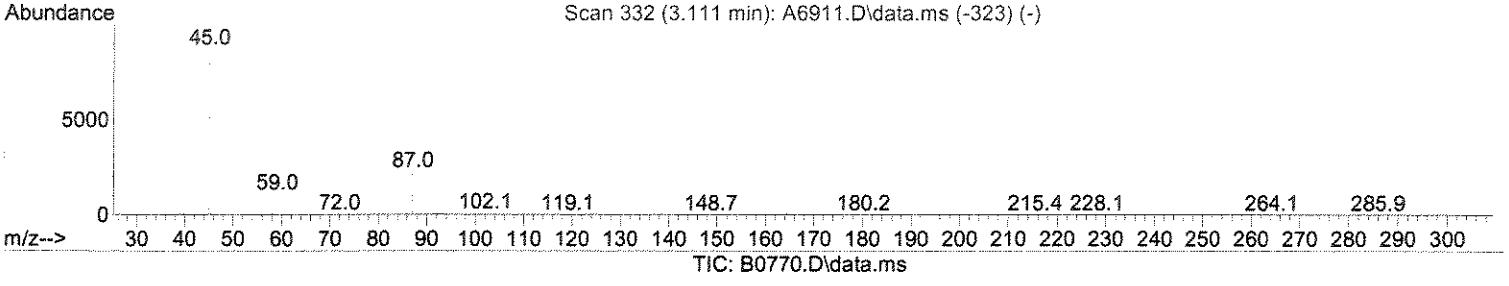
FP 6/30/08

Quant Time: Jun 30 08:25:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 27 14:47:42 2008
Response via : Initial Calibration

B. missed peak







TIC: B0770.D\data.ms

(29) Vinyl Acetate

3.110min (-3.110) 0.00 ug/L

response 0

Ion	Exp%	Act%
86.10	100	0.00
43.10	1439.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

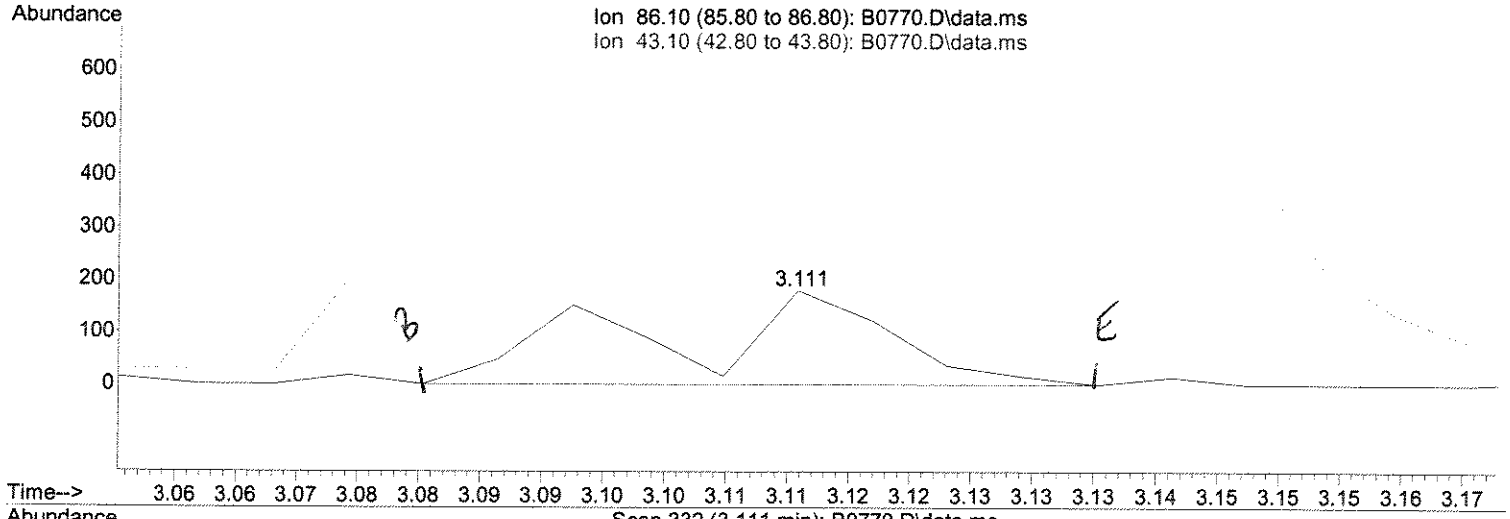
Quantitation Report (Qedit)

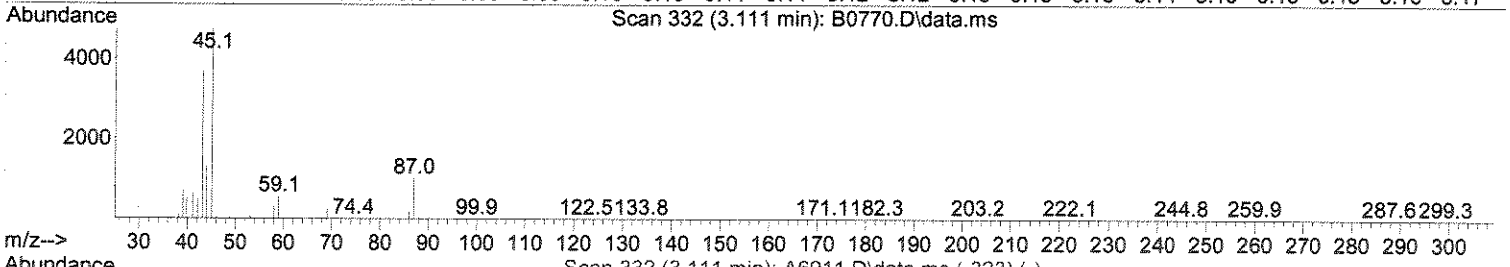
Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

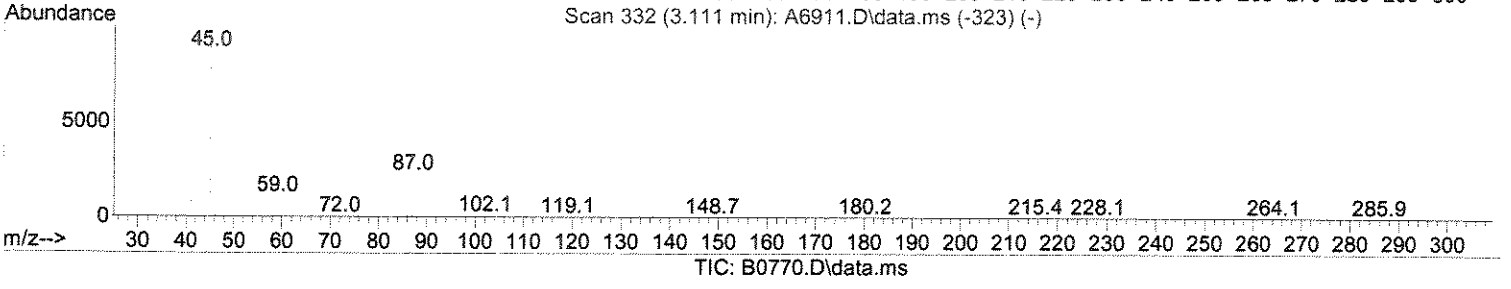
FN
6/30/08

Quant Time: Jun 30 08:25:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 27 14:47:42 2008
Response via : Initial Calibration

A
not used in ICAL







(29) Vinyl Acetate

3.111min (+0.001) 0.26 ug/L m

response 241

Ion	Exp%	Act%
86.10	100	100
43.10	1439.70	2060.56
0.00	0.00	0.00
0.00	0.00	0.00

00146

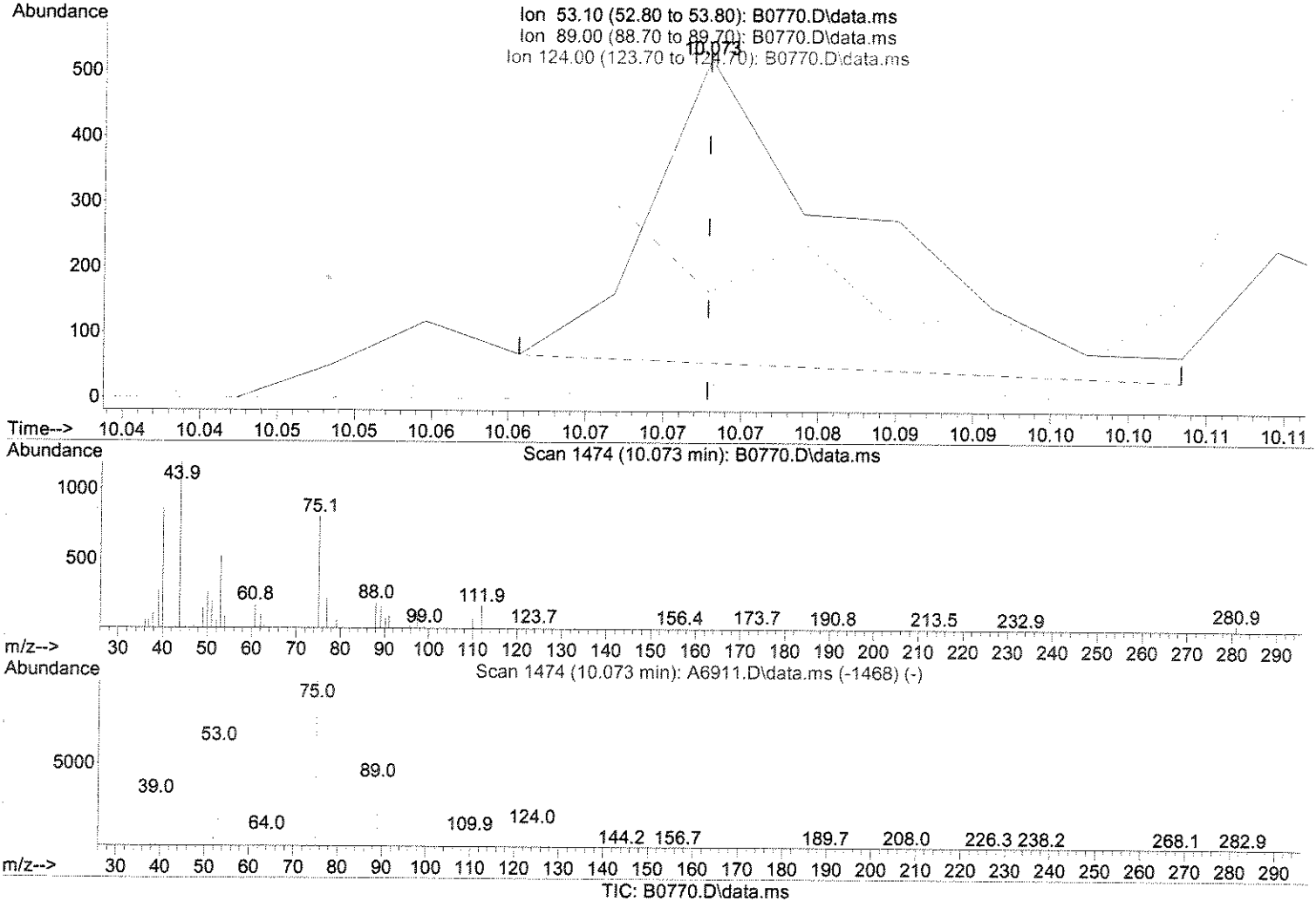
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FP 6/30/08

Quant Time: Jun 30 08:40:58 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B Bnd int.



(86) trans-1,4-Dichloro-2-Butene

10.073min (+0.000) 0.30 ug/L

response 435

Ion	Exp%	Act%
53.10	100	100
89.00	58.70	31.48#
124.00	21.00	4.61#
0.00	0.00	0.00

Quantitation Report (Qedit)

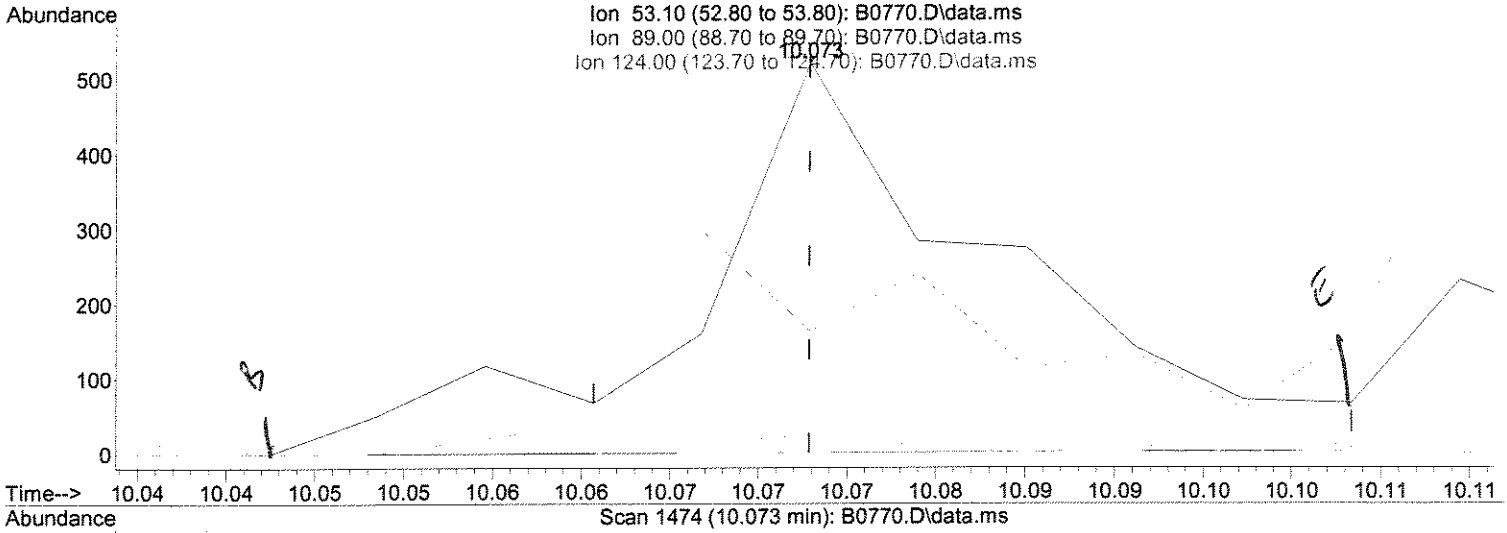
Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

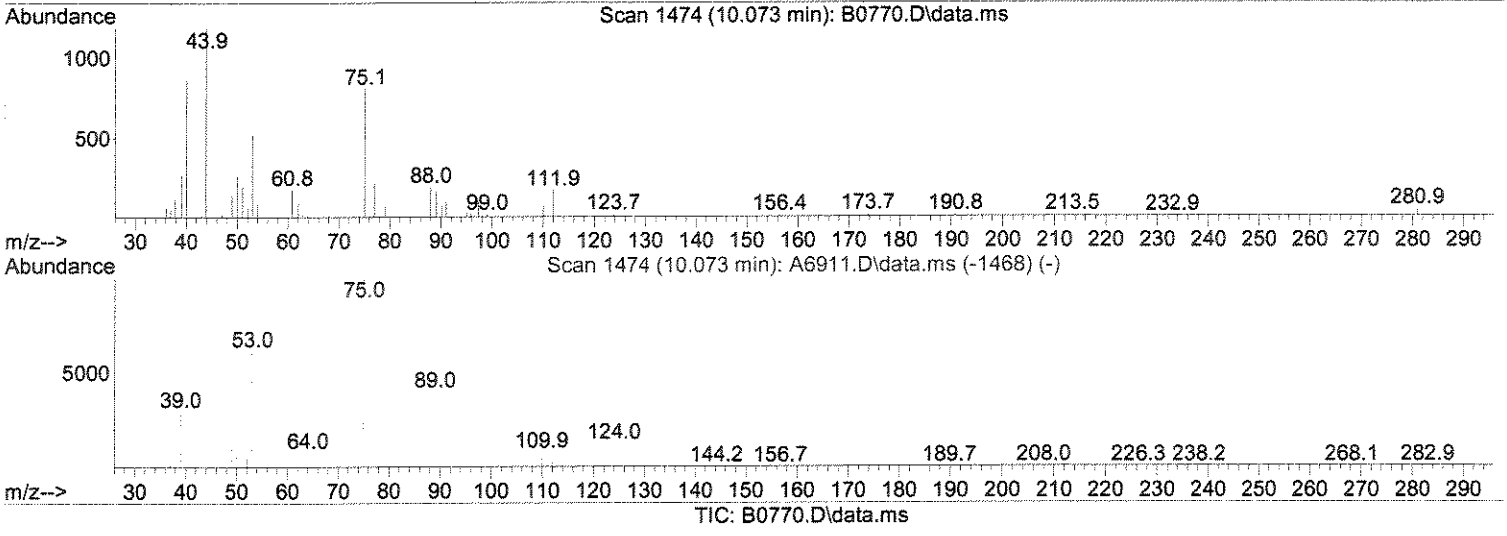
FP 6/30/08

Quant Time: Jun 30 08:40:58 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A

7/27/10





TIC: B0770.D\data.ms

(86) trans-1,4-Dichloro-2-Butene

10.073min (+0.000) 0.44 ug/L m

response 638

Ion	Exp%	Act%
53.10	100	100
89.00	58.70	31.48#
124.00	21.00	4.61#
0.00	0.00	0.00

00150

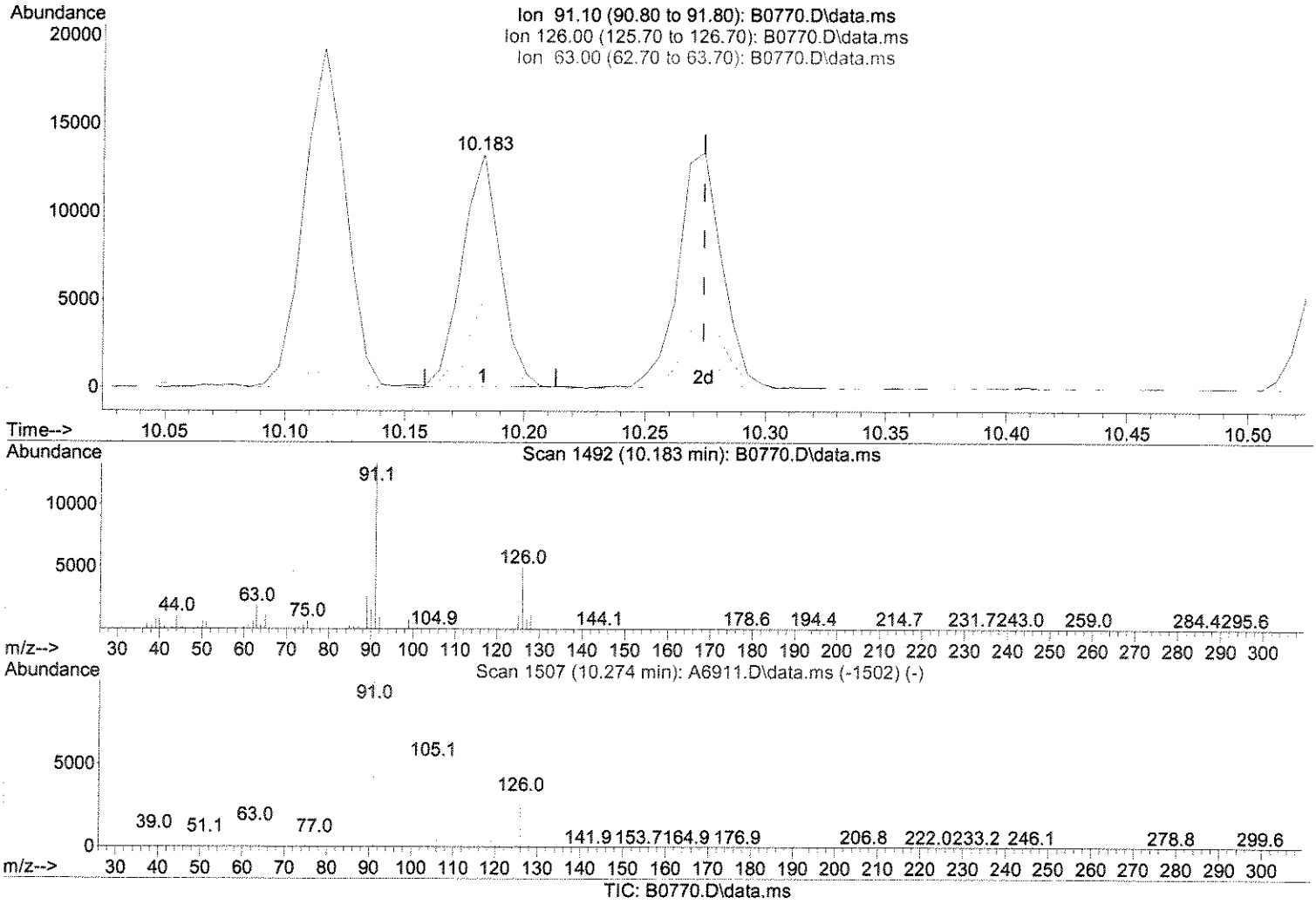
Quantitation Report (Qedit)

FN 6/30/08

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:40:58 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B wavy peak



(94) 4-Chlorotoluene

10.183min (-0.091) 0.41 ug/L

response 14707

Ion	Exp%	Act%
91.10	100	100
126.00	31.40	37.39
63.00	12.80	14.17
0.00	0.00	0.00

Quantitation Report (Qedit)

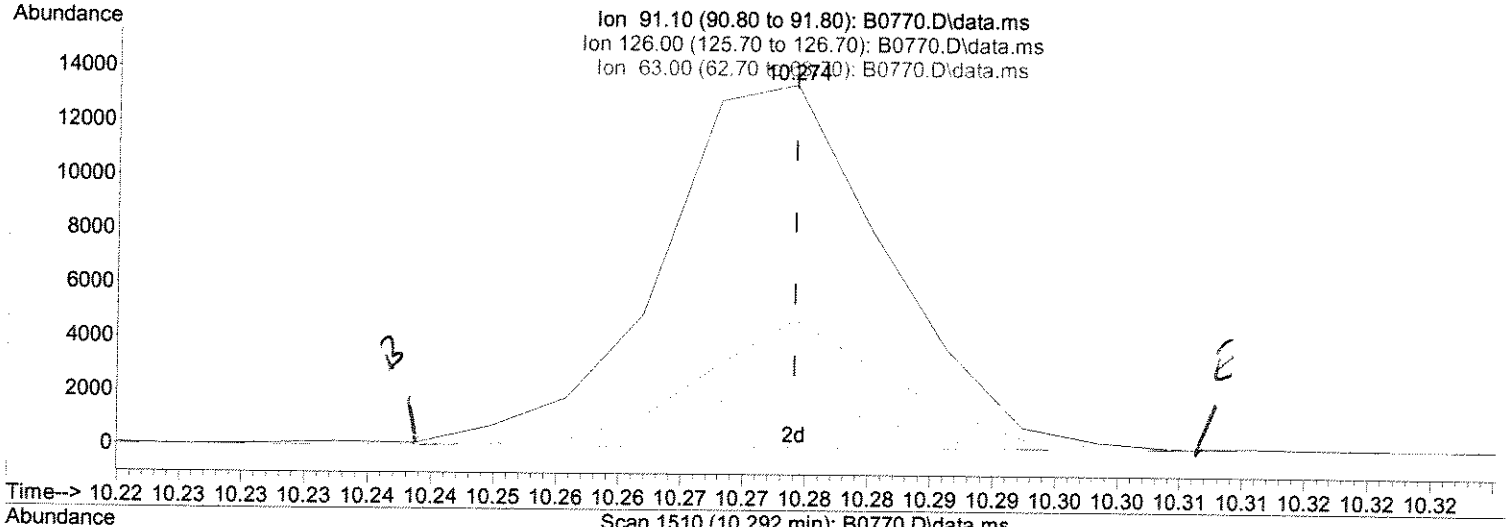
Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

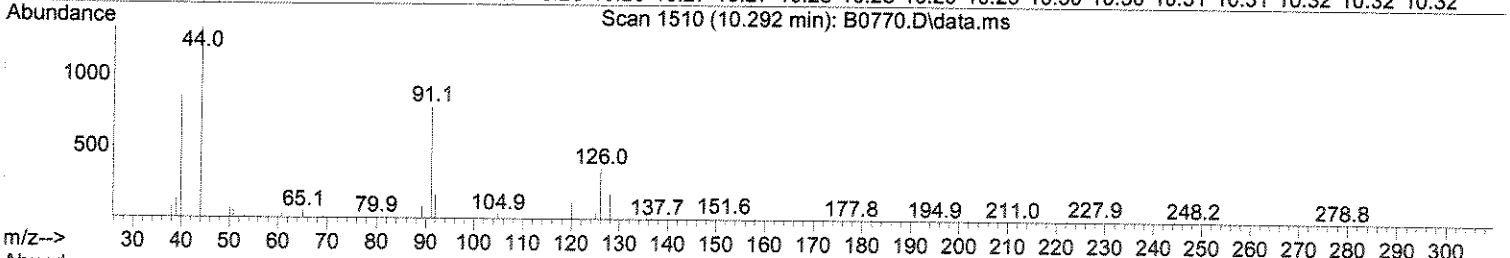
Quant Time: Jun 30 08:40:58 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

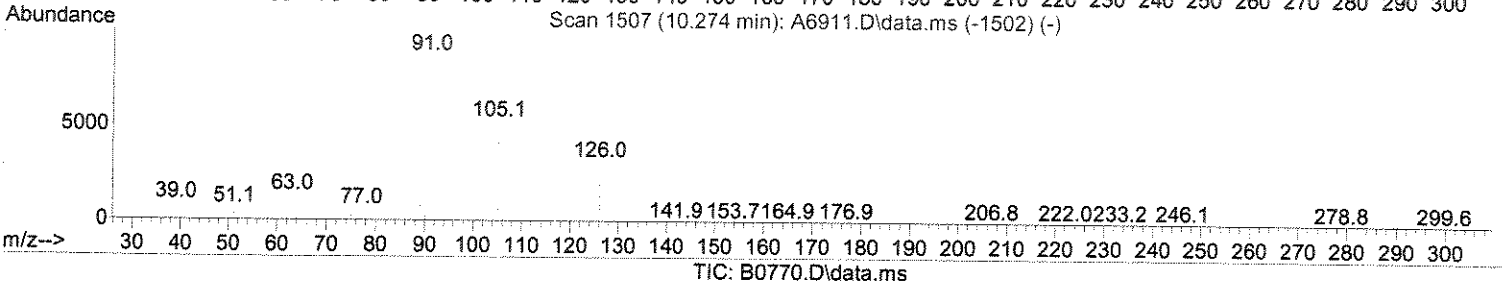
FP 6/30/08

A

7/2/08







TIC: B0770.D\data.ms

(94) 4-Chlorotoluene

10.274min (+0.000) 0.47 ug/L m

response 17012

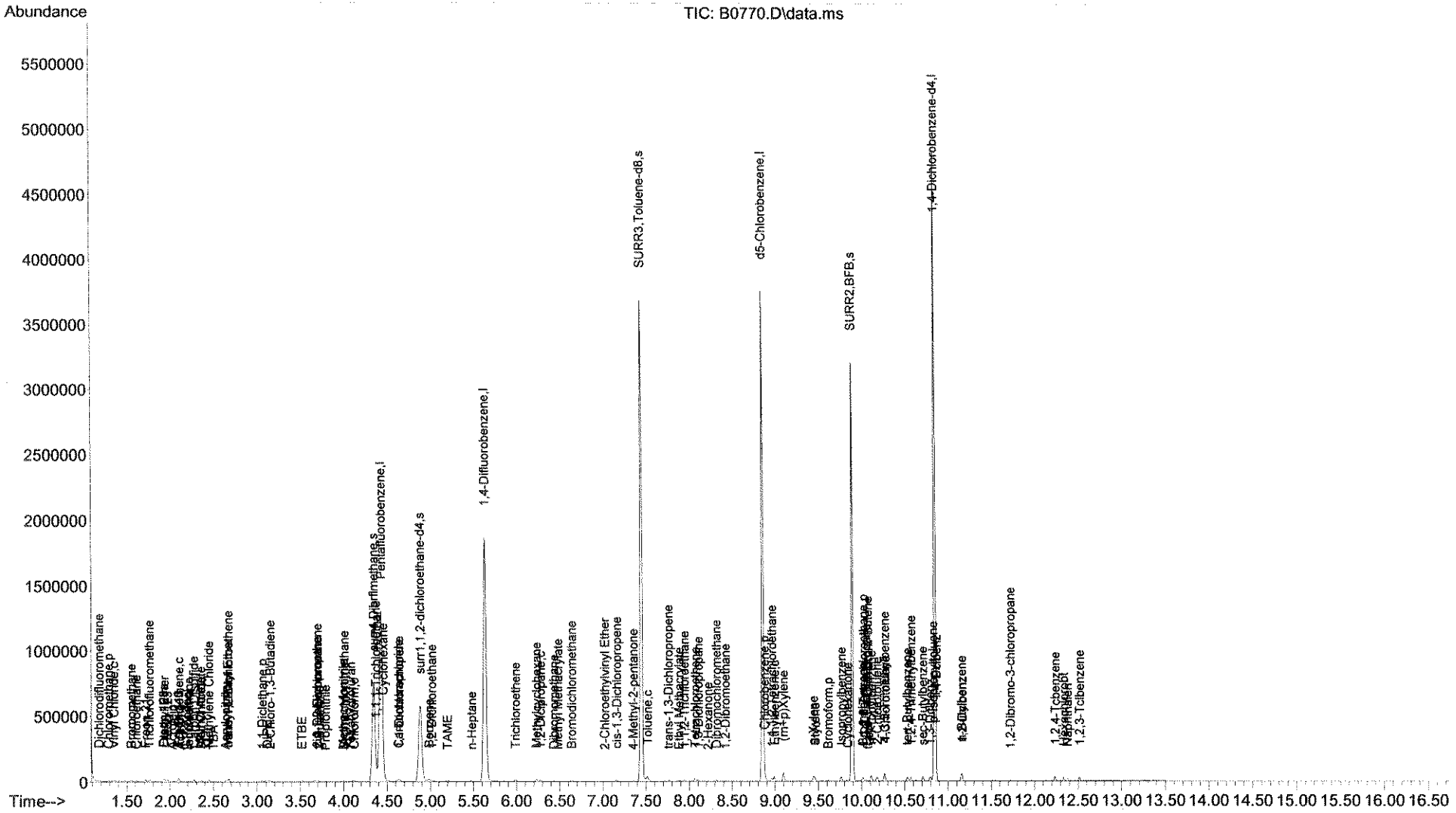
Ion	Exp%	Act%
91.10	100	100
126.00	31.40	35.26
63.00	12.80	9.68#
0.00	0.00	0.00

00152

Quantitation Report (QT Reviewed)

Sample : 0.5 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0770.D Vial: 4
Acq On : 26 Jun 2008 1:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:53:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
Acq On : 26 Jun 2008 1:51 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN
6/30/08

Quant Time: Jun 30 08:57:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1178804	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	1801514	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	1637827	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	921300	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	590808	55.21	ug/L	0.00
Spiked Amount 50.000			Recovery = 110.42%			
49) surr1,1,2-dichloroetha...	4.891	65	634475	56.03	ug/L	0.00
Spiked Amount 50.000			Recovery = 112.06%			
65) SURR3,Toluene-d8	7.445	98	2092494	53.36	ug/L	0.00
Spiked Amount 50.000			Recovery = 106.72%			
70) SURR2,BFB	9.890	95	869159	53.82	ug/L	0.00
Spiked Amount 50.000			Recovery = 107.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	8766	0.93	ug/L	96
4) Chloromethane	1.294	50	8391	0.96	ug/L	95
5) Vinyl Chloride	1.355	62	8357	0.93	ug/L	95
6) Bromomethane	1.556	94	7641	1.18	ug/L	92
7) Chloroethane	1.611	64	5179	1.03	ug/L	97
8) Freon 21	1.721	67	16735	0.99	ug/L	100
9) Trichlorofluoromethane	1.770	101	15426	0.98	ug/L	97
10) Diethyl Ether	1.934	59	5539	1.04	ug/L	98
11) Freon 123a	1.934	67	9829	0.96	ug/L	98
12) Freon 123	1.971	83	11569	0.94	ug/L	95
13) Acrolein	2.026	56	3021	4.38	ug/L	84
14) 1,1-Diclethene	2.105	96	7893	0.99	ug/L	92
15) Freon 113	2.093	101	8292	0.98	ug/L	82
16) Acetone	2.123	43	2817	1.94	ug/L	89
17) 2-Propanol	2.202	45	5094	16.47	ug/L #	91
18) Iodomethane	2.221	142	9276	0.73	ug/L	96
19) Carbon Disulfide	2.276	76	30097	0.99	ug/L #	99
20) Acetonitrile	2.324	40	826	4.06	ug/L #	45
21) Allyl Chloride	2.361	76	3838	0.87	ug/L	89
22) Methyl Acetate	2.361	43	4216	0.99	ug/L #	92
23) Methylene Chloride	2.446	84	10872	1.10	ug/L	98
24) TBA	2.507	59	8519	17.36	ug/L	83
25) Acrylonitrile	2.641	53	9664	4.82	ug/L	98
26) Methyl-t-Butyl Ether	2.666	73	18583	0.92	ug/L #	95
27) trans-1,2-Dichloroethene	2.678	96	8951	0.98	ug/L	97
28) 1,1-Diclethane	3.062	63	16313	0.97	ug/L	95
29) Vinyl Acetate	3.111	86	643	0.69	ug/L	83
30) DIPE	3.117	45	22224	0.91	ug/L	99
31) 2-Chloro-1,3-Butadiene	3.160	53	11494	0.88	ug/L	90
32) ETBE	3.519	59	19430	0.85	ug/L	94
33) 2,2-Dichloropropane	3.702	77	10530	0.88	ug/L #	93
34) cis-1,2-Dichloroethene	3.702	96	9138	0.93	ug/L	92
35) 2-Butanone	3.708	43	2693	1.10	ug/L #	98
37) Propionitrile	3.806	54	3030	4.02	ug/L	91
38) Bromochloromethane	4.001	130	6262	1.02	ug/L	93

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
Acq On : 26 Jun 2008 1:51 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:57:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	4.001	67	1737	0.83	ug/L		97
40) Tetrahydrofuran	4.074	42	1438	1.02	ug/L	#	85
41) Chloroform	4.123	83	16599	0.97	ug/L		98
42) 1,1,1-Trichloroethane	4.391	97	14834	0.97	ug/L	#	1
43) TAME	5.214	73	16619	0.85	ug/L		99
45) Cyclohexane	4.464	41	7298	0.97	ug/L		100
47) Carbontetrachloride	4.635	121	4338	0.97	ug/L		83
48) 1,1-Dichloropropene	4.641	75	11672	0.91	ug/L	#	79
50) Benzene	4.988	78	34301	0.94	ug/L	#	93
51) 1,2-Dichloroethane	5.025	62	12660	1.01	ug/L		98
52) Iso-Butyl Alcohol	4.897	43	2965	14.42	ug/L		89
53) n-Heptane	5.476	43	5938	0.80	ug/L	#	83
54) Trichloroethene	5.988	130	9460	0.95	ug/L		88
55) Methylcyclohexane	6.232	55	9641	0.89	ug/L	#	77
56) 1,2-Diclpropane	6.281	63	8505	0.94	ug/L		99
57) Dibromomethane	6.427	93	5418	1.03	ug/L		94
59) Methyl Methacrylate	6.488	69	2895	0.82	ug/L		94
60) Bromodichloromethane	6.641	83	12675	0.97	ug/L		98
62) 2-Chloroethylvinyl Ether	7.031	63	1976	0.74	ug/L	#	80
63) cis-1,3-Dichloropropene	7.165	75	12226	0.90	ug/L		94
64) 4-Methyl-2-pentanone	7.360	43	4481	0.89	ug/L	#	93
66) Toluene	7.518	91	38857	0.98	ug/L		98
67) trans-1,3-Dichloropropene	7.768	75	10077	0.86	ug/L		95
68) Ethyl Methacrylate	7.890	69	4828	0.70	ug/L	#	79
69) 1,1,2-Trichloroethane	7.945	97	6784	0.97	ug/L		90
72) Tetrachloroethene	8.073	164	7693	0.94	ug/L		94
73) 2-Hexanone	8.213	43	2599	0.72	ug/L		98
74) 1,3-Dichloropropane	8.104	76	12368	1.00	ug/L	#	88
75) Dibromochloromethane	8.323	129	9005	0.96	ug/L		87
76) 1,2-Dibromoethane	8.415	107	6715	0.92	ug/L		100
77) Chlorobenzene	8.884	112	26801	0.98	ug/L		97
78) 1,1,1,2-Tetrachloroethane	8.963	131	9274	0.95	ug/L		95
79) Ethylbenzene	8.994	106	12266	0.89	ug/L		93
80) (m+p)Xylene	9.097	106	29986	1.80	ug/L		96
81) o-Xylene	9.445	106	13362	0.84	ug/L		96
82) Styrene	9.463	104	22608	0.83	ug/L		95
83) Bromoform	9.616	173	5476	0.95	ug/L		88
84) Isopropylbenzene	9.768	105	33556	0.82	ug/L	#	98
85) Cyclohexanone	9.841	55	11820	15.90	ug/L		98
86) trans-1,4-Dichloro-2-B...	10.073	53	1406	0.95	ug/L	#	76
88) 1,1,2,2-Tetrachloroethane	10.024	83	8472	1.00	ug/L		94
89) Bromobenzene	10.012	156	11275	0.96	ug/L		88
91) 1,2,3-Trichloropropane	10.055	110	2821	1.11	ug/L		83
92) n-Propylbenzene	10.116	91	43732	0.86	ug/L	#	96
93) 2-Chlorotoluene	10.183	91	28168	0.88	ug/L		98
94) 4-Chlorotoluene	10.274	91	34425	0.93	ug/L		100
95) 1,3,5-Trimethylbenzene	10.268	105	30155	0.83	ug/L		99
96) tert-Butylbenzene	10.530	119	23325	0.78	ug/L		98
97) 1,2,4-Trimethylbenzene	10.573	105	31511	0.84	ug/L		93
98) sec-Butylbenzene	10.713	105	35304	0.81	ug/L		99
99) p-Isopropyltoluene	10.829	119	31435	0.83	ug/L		97
100) 1,3-Dclbenz	10.798	146	22233	0.96	ug/L		98

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
Acq On : 26 Jun 2008 1:51 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:57:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

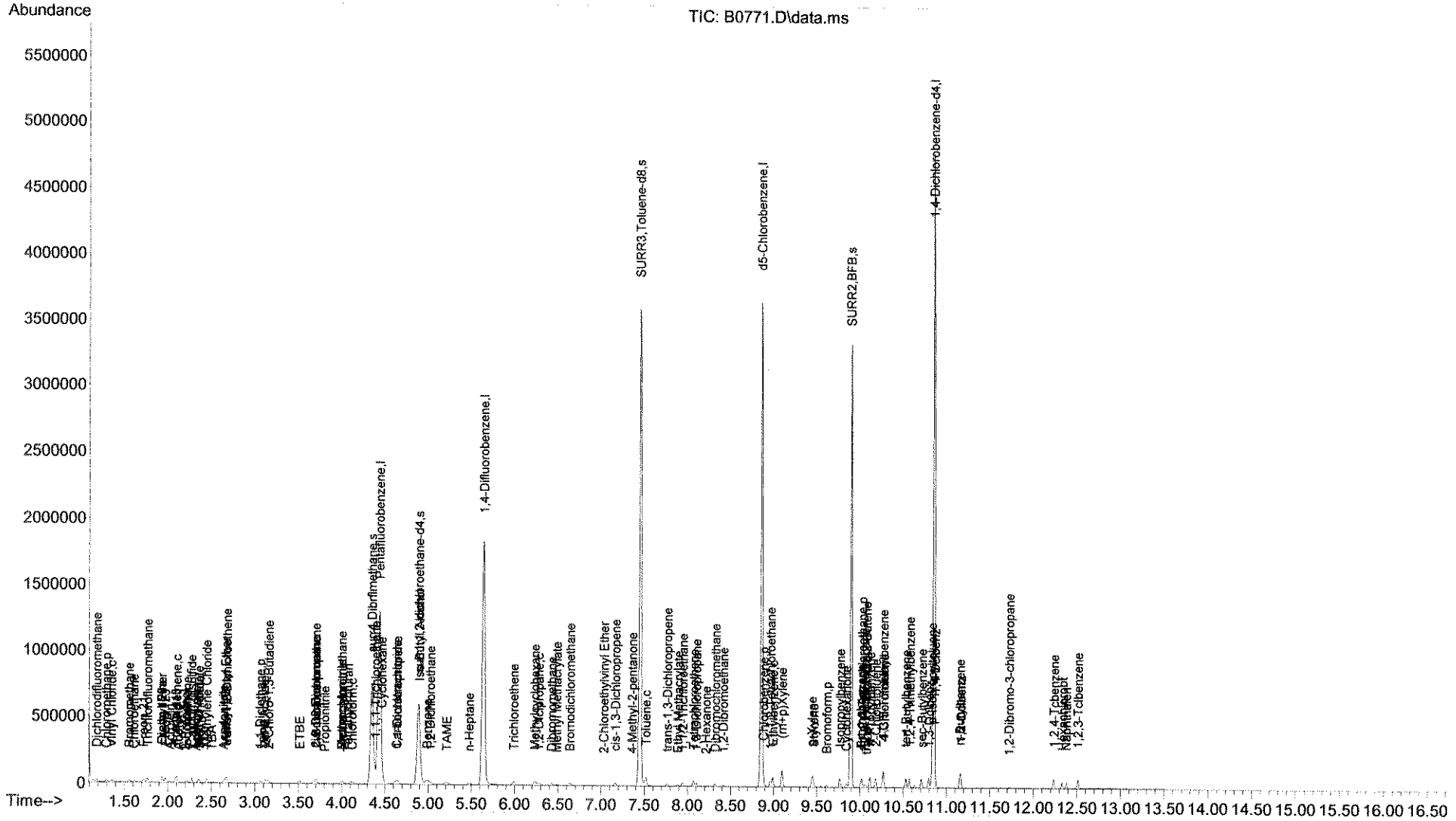
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) 1,4-Dclbenz	10.865	146	23525	0.98	ug/L	#	90
103) n-Butylbenzene	11.152	91	26818	0.82	ug/L		98
104) 1,2-Dclbenz	11.164	146	20879	0.96	ug/L		93
105) 1,2-Dibromo-3-chloropr...	11.719	157	1831	0.99	ug/L		90
107) 1,2,4-Tcbenzene	12.237	180	13224	0.89	ug/L		92
108) Hexachlorobt	12.335	225	5597	0.92	ug/L		98
109) Naphthalen	12.377	128	21657	0.77	ug/L		100
110) 1,2,3-Tclbenzene	12.511	180	13104	0.96	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0771.D Vial: 5
Acq On : 26 Jun 2008 1:51 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:57:46 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

FN
6/30/08

Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:15:43 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1196113	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.641	114	1846682	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	1665824	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	943002	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.355	113	597965	54.51	ug/L		0.00
Spiked Amount 50.000			Recovery =	109.02%			
49) surr1,1,2-dichloroetha...	4.891	65	647508	55.78	ug/L		0.00
Spiked Amount 50.000			Recovery =	111.56%			
65) SURR3,Toluene-d8	7.452	98	2145888	53.38	ug/L		0.00
Spiked Amount 50.000			Recovery =	106.76%			
70) SURR2,BFB	9.896	95	885570	53.49	ug/L		0.00
Spiked Amount 50.000			Recovery =	106.98%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.184	85	18240	1.91	ug/L		98
4) Chloromethane	1.294	50	17172	1.93	ug/L		90
5) Vinyl Chloride	1.355	62	18553	2.03	ug/L		93
6) Bromomethane	1.556	94	13807	2.11	ug/L		97
7) Chloroethane	1.611	64	10910	2.14	ug/L		97
8) Freon 21	1.721	67	35406	2.06	ug/L		98
9) Trichlorofluoromethane	1.770	101	34415	2.15	ug/L		100
10) Diethyl Ether	1.934	59	11305	2.09	ug/L		94
11) Freon 123a	1.934	67	21214	2.04	ug/L		88
12) Freon 123	1.971	83	26201	2.09	ug/L		99
13) Acrolein	2.026	56	6670	9.53	ug/L		94
14) 1,1-Diclethene	2.105	96	16375	2.03	ug/L		95
15) Freon 113	2.093	101	18794 FN 7/18	2.18	ug/L		97
16) Acetone	2.123	43	3896	2.64	ug/L		90
17) 2-Propanol	2.203	45	10303m	32.83	ug/L		
18) Iodomethane	2.221	142	21949	1.70	ug/L		95
19) Carbon Disulfide	2.276	76	63972	2.07	ug/L		98
20) Acetonitrile	2.324	40	1949	9.44	ug/L	#	70
21) Allyl Chloride	2.361	76	9150	2.03	ug/L		83
22) Methyl Acetate	2.361	43	8303	1.92	ug/L		96
23) Methylene Chloride	2.446	84	20723	2.07	ug/L		98
24) TBA	2.507	59	16422	32.98	ug/L		93
25) Acrylonitrile	2.641	53	19769	9.72	ug/L		90
26) Methyl-t-Butyl Ether	2.666	73	38514	1.88	ug/L		98
27) trans-1,2-Dichloroethene	2.678	96	18552	2.01	ug/L		92
28) 1,1-Diclethane	3.062	63	35509	2.09	ug/L		95
29) Vinyl Acetate	3.105	86	1664	1.77	ug/L		89
30) DIPE	3.117	45	47143	1.90	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.154	53	26458	2.00	ug/L		98
32) ETBE	3.519	59	42192	1.83	ug/L		99
33) 2,2-Dichloropropane	3.702	77	22782	1.87	ug/L		93
34) cis-1,2-Dichloroethene	3.702	96	19961	2.00	ug/L		95
35) 2-Butanone	3.721	43	4991	2.02	ug/L		96
37) Propionitrile	3.788	54	7425	9.70	ug/L		99
38) Bromochloromethane	4.013	130	12492	2.00	ug/L		95

Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:15:43 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) Methacrylonitrile	4.001	67	3888	1.82 ug/L	93
40) Tetrahydrofuran	4.080	42	2748	1.93 ug/L	91
41) Chloroform	4.123	83	35356	2.04 ug/L	98
42) 1,1,1-Trichloroethane	4.385	97	31971	2.06 ug/L #	80
43) TAME	5.214	73	33705	1.69 ug/L	99
45) Cyclohexane	4.470	41	16304	2.11 ug/L #	85
47) Carbontetrachloride	4.641	121	9062	1.98 ug/L	92
48) 1,1-Dichloropropene	4.647	75	27279	2.08 ug/L	98
50) Benzene	4.989	78	74808	2.01 ug/L #	95
51) 1,2-Dichloroethane	5.025	62	26196	2.04 ug/L	99
52) Iso-Butyl Alcohol	4.903	43	6667	31.63 ug/L #	77
53) n-Heptane	5.476	43	14254	1.87 ug/L	92
54) Trichloroethene	5.994	130	21026	2.06 ug/L	92
55) Methylcyclohexane	6.238	55	21822	1.96 ug/L	92
56) 1,2-Diclpropane	6.281	63	17461	1.88 ug/L	98
57) Dibromomethane	6.427	93	10915	2.02 ug/L	90
58) 1,4-Dioxane	6.494	88	2416m	40.58 ug/L	
59) Methyl Methacrylate	6.488	69	6015	1.67 ug/L	97
60) Bromodichloromethane	6.641	83	25651	1.92 ug/L #	97
62) 2-Chloroethylvinyl Ether	7.031	63	3654	1.34 ug/L	97
63) cis-1,3-Dichloropropene	7.165	75	24820	1.78 ug/L	99
64) 4-Methyl-2-pentanone	7.354	43	8495	1.65 ug/L	93
66) Toluene	7.519	91	81823	2.01 ug/L	99
67) trans-1,3-Dichloropropene	7.769	75	20553	1.72 ug/L	99
68) Ethyl Methacrylate	7.890	69	11206	1.59 ug/L	93
69) 1,1,2-Trichloroethane	7.945	97	14145	1.97 ug/L	100
72) Tetrachloroethene	8.067	164	17047	2.05 ug/L	97
73) 2-Hexanone	8.214	43	5453	1.48 ug/L #	86
74) 1,3-Dichloropropane	8.104	76	23893	1.89 ug/L	96
75) Dibromochloromethane	8.317	129	17791	1.87 ug/L	93
76) 1,2-Dibromoethane	8.415	107	14345	1.94 ug/L #	98
77) Chlorobenzene	8.884	112	55102	1.99 ug/L	98
78) 1,1,1,2-Tetrachloroethane	8.963	131	19017	1.92 ug/L	98
79) Ethylbenzene	8.994	106	27671	1.98 ug/L	88
80) (m+p)Xylene	9.098	106	67378	3.98 ug/L	95
81) o-Xylene	9.445	106	31408	1.94 ug/L	92
82) Styrene	9.463	104	52842	1.91 ug/L	99
83) Bromoform	9.616	173	11166	1.91 ug/L	96
84) Isopropylbenzene	9.768	105	79139	1.90 ug/L	97
85) Cyclohexanone	9.841	55	25599	33.86 ug/L	98
86) trans-1,4-Dichloro-2-B...	10.073	53	3102	2.07 ug/L #	82
88) 1,1,2,2-Tetrachloroethane	10.024	83	16777	1.93 ug/L	88
89) Bromobenzene	10.018	156	23918	1.99 ug/L	95
91) 1,2,3-Trichloropropane	10.055	110	5045	1.94 ug/L	84
92) n-Propylbenzene	10.116	91	102141	1.96 ug/L	98
93) 2-Chlorotoluene	10.183	91	64275	1.97 ug/L	99
94) 4-Chlorotoluene	10.274	91	77075	2.03 ug/L	95
95) 1,3,5-Trimethylbenzene	10.262	105	72459	1.95 ug/L	95
96) tert-Butylbenzene	10.536	119	55608	1.83 ug/L	95
97) 1,2,4-Trimethylbenzene	10.573	105	72696	1.89 ug/L	97
98) sec-Butylbenzene	10.713	105	86421	1.94 ug/L	99
99) p-Isopropyltoluene	10.829	119	71575	1.84 ug/L	97

Quantitation Report (QT Reviewed)

Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:15:43 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	46897	1.97 ug/L	99
101) 1,4-Dclbenz	10.865	146	50068	2.04 ug/L	94
103) n-Butylbenzene	11.158	91	61432	1.83 ug/L	96
104) 1,2-Dclbenz	11.164	146	45854	2.05 ug/L	97
105) 1,2-Dibromo-3-chloropr...	11.719	157	3262	1.72 ug/L #	86
107) 1,2,4-Tcbenzene	12.237	180	28439	1.86 ug/L	99
108) Hexachlorobt	12.335	225	12989	2.10 ug/L	97
109) Naphthalen	12.377	128	47459	1.64 ug/L	98
110) 1,2,3-Tclbenzene	12.512	180	26718	1.91 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

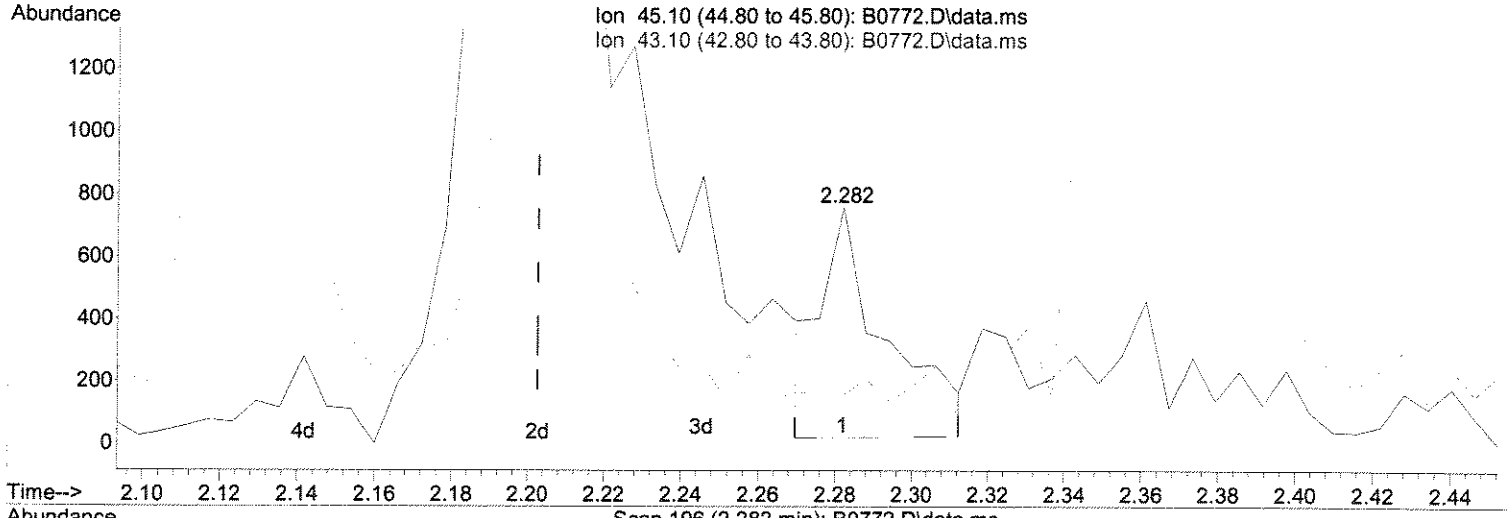
Quantitation Report (Qedit)

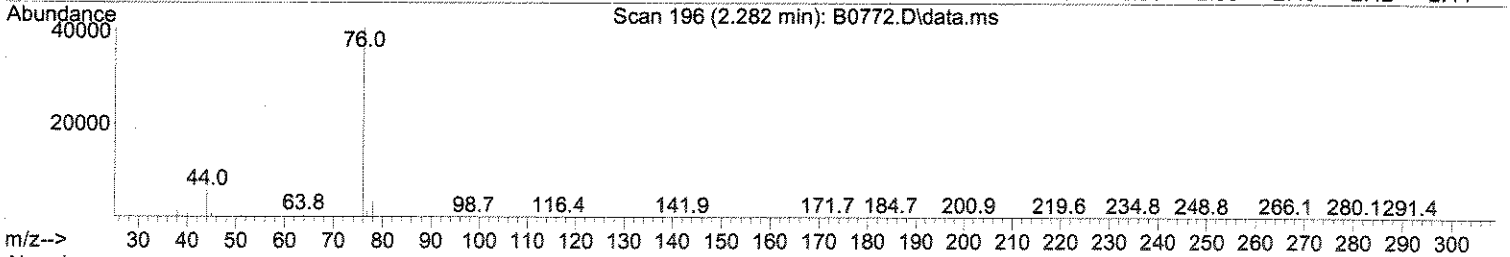
Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

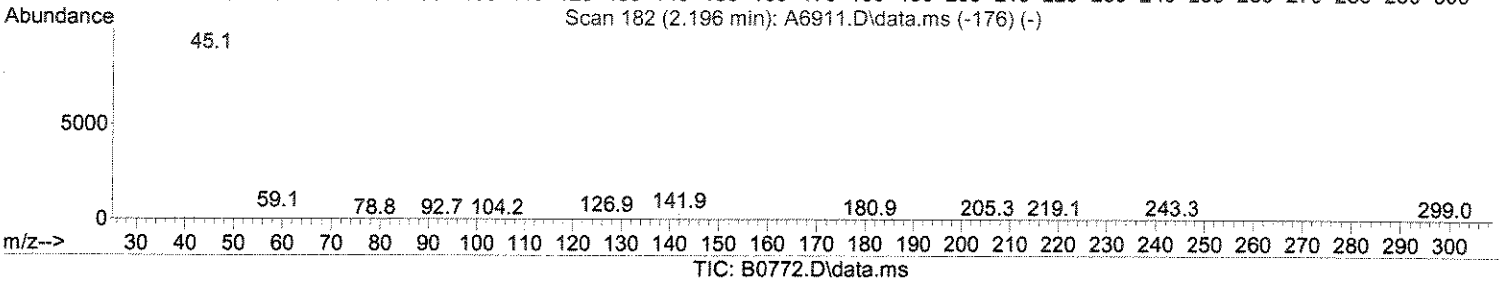
Quant Time: Jun 30 08:41:14 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

FIN 6/30/08

B bad int; missed







TIC: B0772.D\data.ms

(17) 2-Propanol

2.282min (+0.079) 2.76 ug/L

response 865

Ion	Exp%	Act%
45.10	100	100
43.10	21.20	20.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

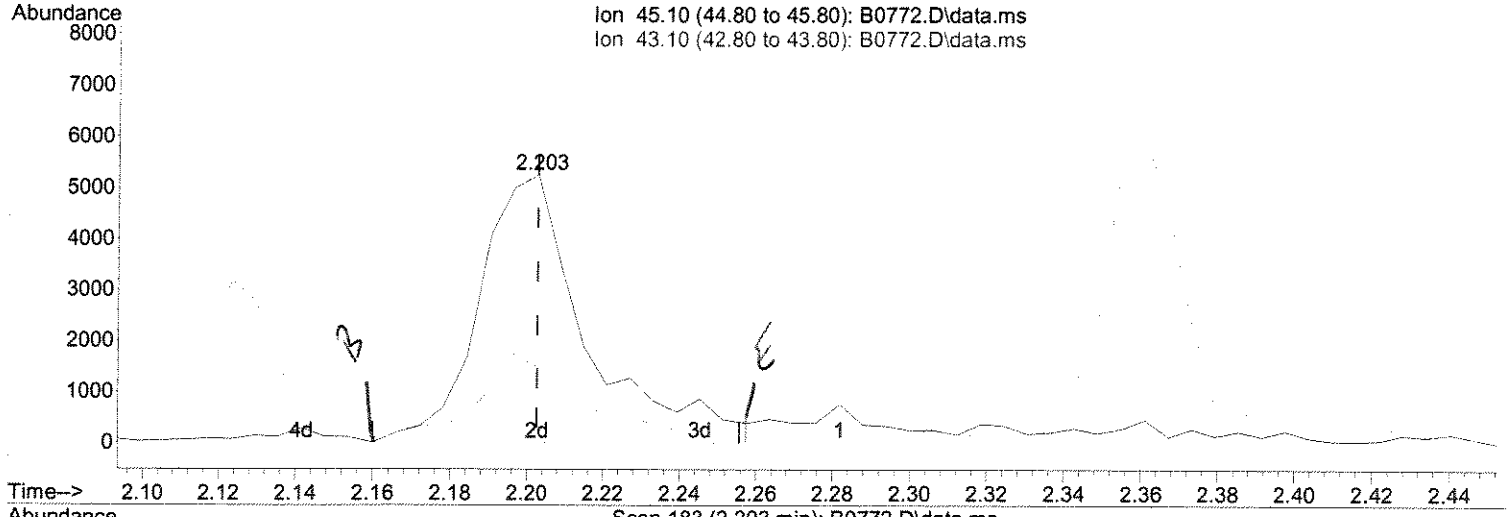
Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

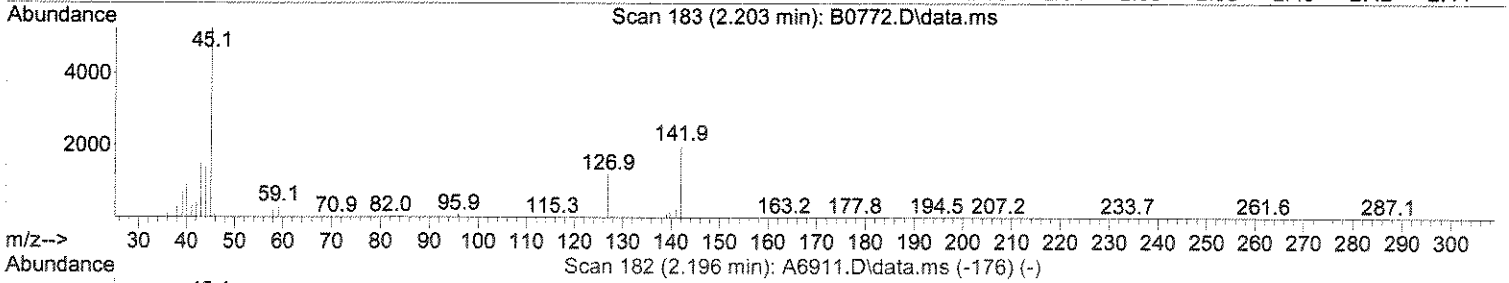
FP 6/30/08

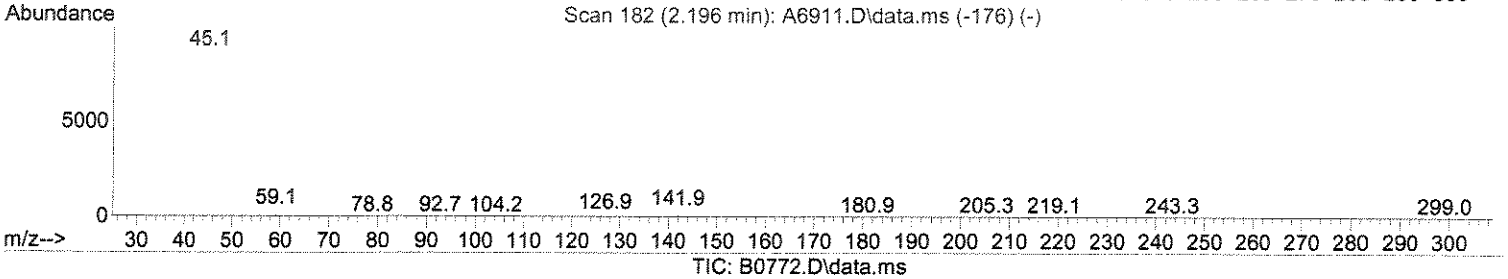
Quant Time: Jun 30 08:41:14 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A

DL 7/1/08







TIC: B0772.D\data.ms

(17) 2-Propanol

2.203min (+0.000) 32.83 ug/L m

response 10303

Ion	Exp%	Act%
45.10	100	100
43.10	21.20	28.27#
0.00	0.00	0.00
0.00	0.00	0.00

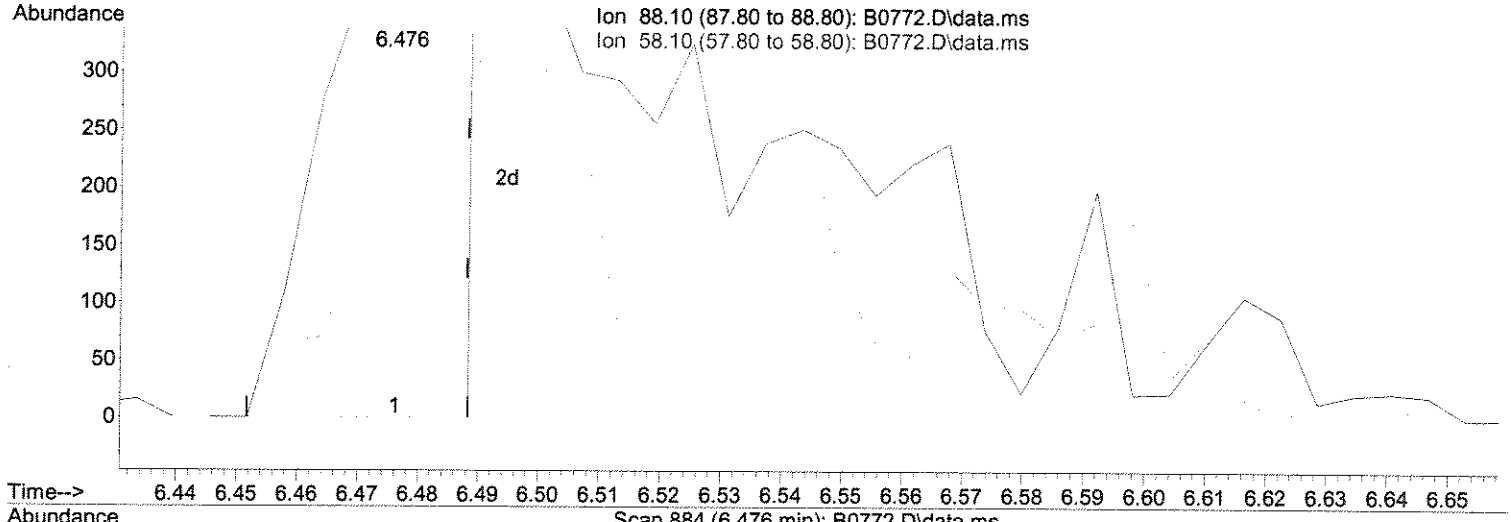
Quantitation Report (Qedit)

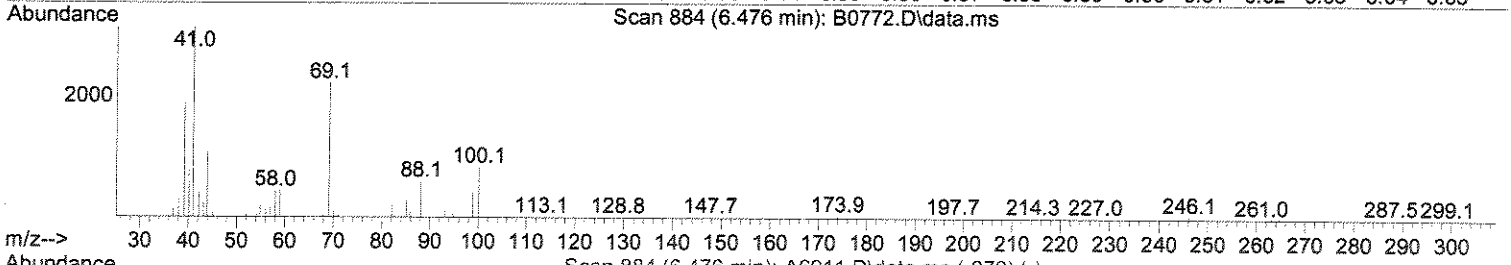
Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

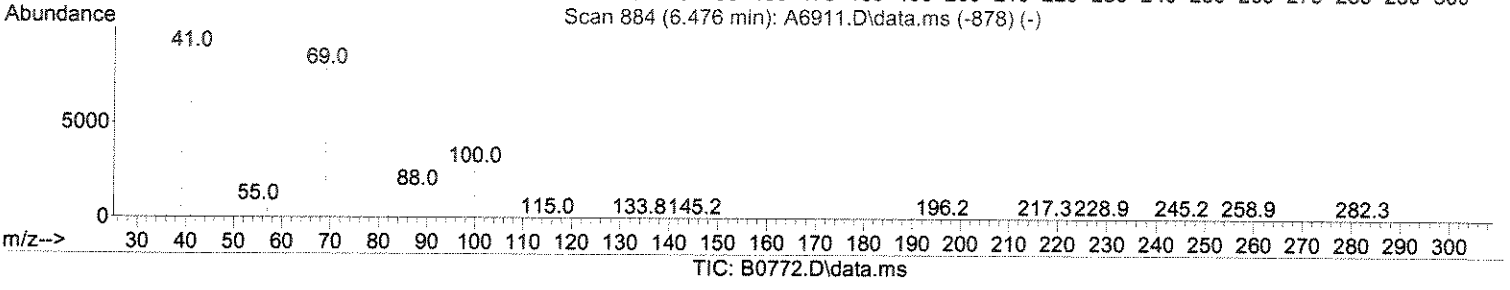
FN 6/30/08

Quant Time: Jun 30 08:41:14 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B B-d int.







TIC: B0772.D\data.ms

(58) 1,4-Dioxane

6.476min (-0.012) 13.46 ug/L

response 801

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	74.58
0.00	0.00	0.00
0.00	0.00	0.00

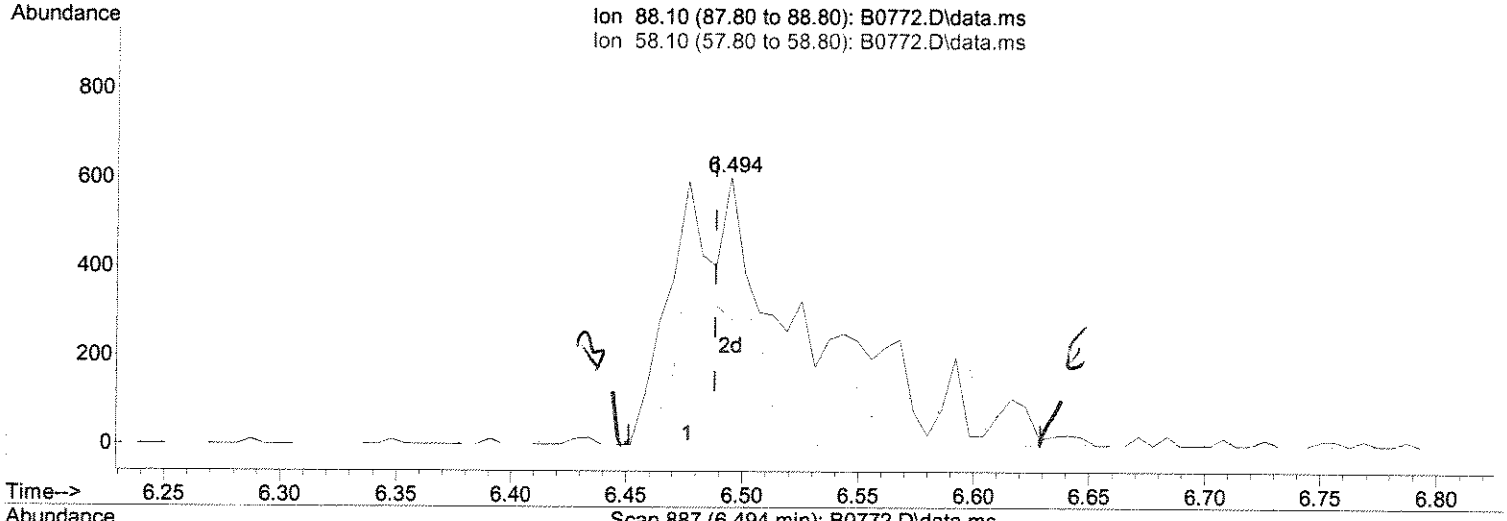
Quantitation Report (Qedit)

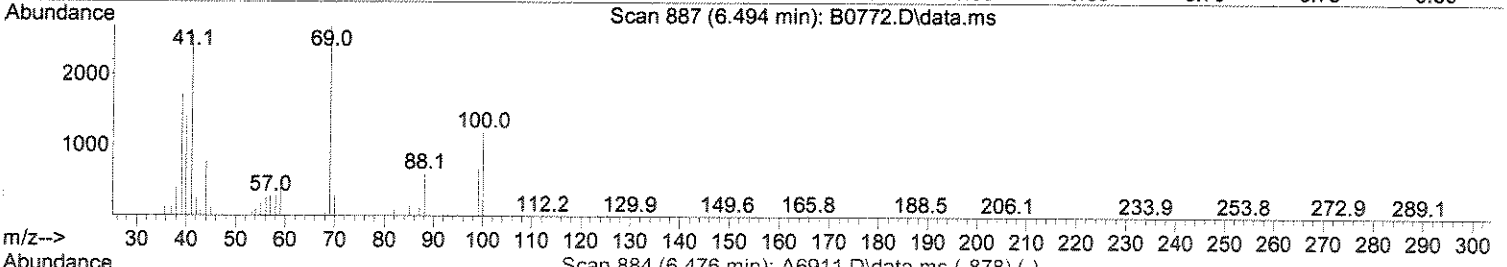
Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

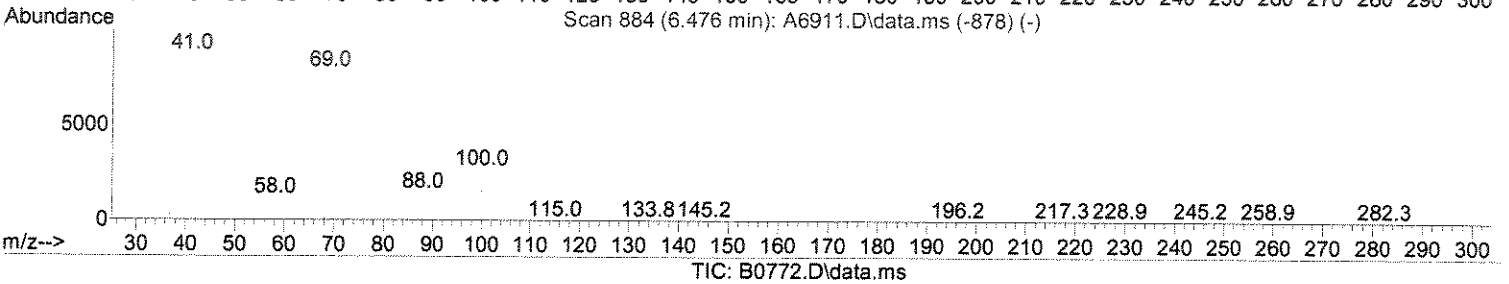
FN 6/30/08

Quant Time: Jun 30 08:41:14 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A. 7/27/(8)







(58) 1,4-Dioxane

6.494min (+0.006) 40.58 ug/L m

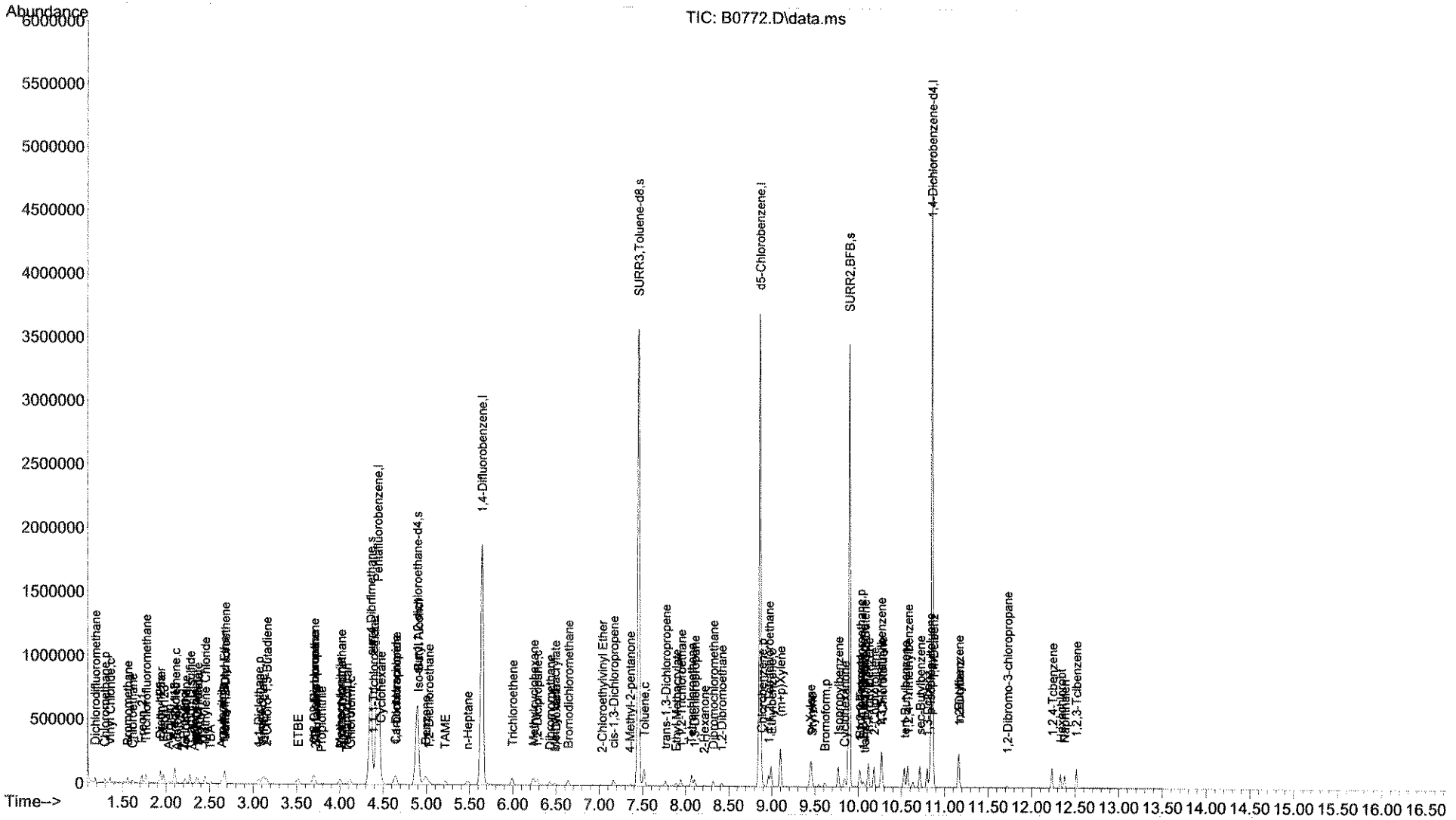
response 2416

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	46.69#
0.00	0.00	0.00
0.00	0.00	0.00

00164

Sample : 2.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0772.D Vial: 6
Acq On : 26 Jun 2008 2:21 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:15:43 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

F.J
6/3/08

Quant Time: Jun 30 09:21:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1227419	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.641	114	1881090	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	1702801	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	966652	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	720642	64.49	ug/L		0.00
Spiked Amount 50.000			Recovery =	128.98%			
49) surr1,1,2-dichloroetha...	4.891	65	782245	66.16	ug/L		0.00
Spiked Amount 50.000			Recovery =	132.32%			
65) SURR3,Toluene-d8	7.445	98	2594568	63.36	ug/L		0.00
Spiked Amount 50.000			Recovery =	126.72%			
70) SURR2,BFB	9.896	95	1068199	63.34	ug/L		0.00
Spiked Amount 50.000			Recovery =	126.68%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.184	85	42273	4.31	ug/L		95
4) Chloromethane	1.294	50	43975	4.83	ug/L		98
5) Vinyl Chloride	1.355	62	47276	5.03	ug/L		98
6) Bromomethane	1.556	94	31850	4.74	ug/L		98
7) Chloroethane	1.611	64	25021	4.78	ug/L		99
8) Freon 21	1.721	67	89603	5.09	ug/L		97
9) Trichlorofluoromethane	1.770	101	83959	5.10	ug/L		98
10) Diethyl Ether	1.934	59	29460	5.31	ug/L		95
11) Freon 123a	1.934	67	57346	5.36	ug/L		92
12) Freon 123	1.971	83	66423	5.16	ug/L		96
13) Acrolein	2.026	56	17322	24.13	ug/L		96
14) 1,1-Diclethene	2.105	96	41017	4.95	ug/L		97
15) Freon 113	2.093	101	44025	4.98	ug/L		91
16) Acetone	2.123	43	9483	6.26	ug/L		95
17) 2-Propanol	2.196	45	29459	91.49	ug/L		94
18) Iodomethane	2.221	142	59671	4.49	ug/L		95
19) Carbon Disulfide	2.276	76	158002	4.98	ug/L		99
20) Acetonitrile	2.324	40	5732	27.05	ug/L	#	61
21) Allyl Chloride	2.361	76	22150	4.80	ug/L		79
22) Methyl Acetate	2.361	43	22809	5.14	ug/L		99
23) Methylene Chloride	2.446	84	51263	4.99	ug/L		98
24) TBA	2.507	59	47453	92.87	ug/L		92
25) Acrylonitrile	2.641	53	52336	25.07	ug/L		99
26) Methyl-t-Butyl Ether	2.666	73	104786	5.00	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	49371	5.21	ug/L		96
28) 1,1-Diclethane	3.062	63	88226	5.05	ug/L		98
29) Vinyl Acetate	3.105	86	3941	4.08	ug/L		86
30) DIPE	3.117	45	129666	5.10	ug/L		98
31) 2-Chloro-1,3-Butadiene	3.160	53	69652	5.14	ug/L		98
32) ETBE	3.519	59	117814	4.97	ug/L		99
33) 2,2-Dichloropropane	3.702	77	57052	4.57	ug/L		99
34) cis-1,2-Dichloroethene	3.702	96	50339	4.92	ug/L		98
35) 2-Butanone	3.714	43	13276	5.23	ug/L	#	94
37) Propionitrile	3.787	54	20291	25.84	ug/L		94
38) Bromochloromethane	4.013	130	31394	4.90	ug/L		95

Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:21:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) Methacrylonitrile	3.995	67	11004	5.02 ug/L	87
40) Tetrahydrofuran	4.080	42	6808	4.65 ug/L	94
41) Chloroform	4.117	83	92472	5.19 ug/L	96
42) 1,1,1-Trichloroethane	4.385	97	80267	5.04 ug/L	94
43) TAME	5.214	73	90486	4.43 ug/L	99
45) Cyclohexane	4.470	41	40995	5.21 ug/L	98
47) Carbontetrachloride	4.635	121	22836	4.91 ug/L #	77
48) 1,1-Dichloropropene	4.641	75	67276	5.05 ug/L	97
50) Benzene	4.988	78	192134	5.07 ug/L	98
51) 1,2-Dichloroethane	5.025	62	66519	5.08 ug/L	98
52) Iso-Butyl Alcohol	4.903	43	16596	77.30 ug/L	88
53) n-Heptane	5.476	43	37580	4.84 ug/L	97
54) Trichloroethene	5.994	130	52481	5.04 ug/L	97
55) Methylcyclohexane	6.238	55	55982	4.92 ug/L	98
56) 1,2-Diclpropane	6.281	63	48674	5.16 ug/L	100
57) Dibromomethane	6.427	93	26868	4.87 ug/L	97
58) 1,4-Dioxane	6.476	88	7142m	117.78 ug/L	
59) Methyl Methacrylate	6.488	69	17350	4.73 ug/L	91
60) Bromodichloromethane	6.641	83	67004	4.93 ug/L	98
62) 2-Chloroethylvinyl Ether	7.031	63	11598	4.18 ug/L #	87
63) cis-1,3-Dichloropropene	7.165	75	65332	4.61 ug/L	97
64) 4-Methyl-2-pentanone	7.354	43	23275	4.43 ug/L	98
66) Toluene	7.518	91	204037	4.92 ug/L	97
67) trans-1,3-Dichloropropene	7.768	75	55305	4.53 ug/L	98
68) Ethyl Methacrylate	7.890	69	31909	4.44 ug/L	97
69) 1,1,2-Trichloroethane	7.945	97	37236	5.09 ug/L	98
72) Tetrachloroethene	8.073	164	42726	5.03 ug/L	95
73) 2-Hexanone	8.213	43	15903	4.23 ug/L #	96
74) 1,3-Dichloropropane	8.104	76	64133	4.96 ug/L	97
75) Dibromochloromethane	8.317	129	47020	4.84 ug/L	99
76) 1,2-Dibromoethane	8.415	107	36931	4.89 ug/L	98
77) Chlorobenzene	8.884	112	145312	5.13 ug/L	99
78) 1,1,1,2-Tetrachloroethane	8.963	131	49133	4.86 ug/L	98
79) Ethylbenzene	8.994	106	71568	5.01 ug/L	98
80) (m+p)Xylene	9.097	106	179195	10.35 ug/L	96
81) o-Xylene	9.445	106	83056	5.02 ug/L	99
82) Styrene	9.457	104	144974	5.13 ug/L	94
83) Bromoform	9.616	173	26994	4.53 ug/L	99
84) Isopropylbenzene	9.768	105	214694	5.03 ug/L	99
85) Cyclohexanone	9.841	55	74754	96.72 ug/L	99
86) trans-1,4-Dichloro-2-B...	10.073	53	7402	4.82 ug/L	88
88) 1,1,2,2-Tetrachloroethane	10.024	83	44443	4.98 ug/L	96
89) Bromobenzene	10.018	156	60779	4.92 ug/L	97
91) 1,2,3-Trichloropropane	10.055	110	13633	5.11 ug/L	98
92) n-Propylbenzene	10.116	91	274190	5.13 ug/L	98
93) 2-Chlorotoluene	10.183	91	167684	5.01 ug/L	98
94) 4-Chlorotoluene	10.274	91	203062	5.21 ug/L	98
95) 1,3,5-Trimethylbenzene	10.268	105	193881	5.09 ug/L	98
96) tert-Butylbenzene	10.530	119	155041	4.97 ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	203370	5.16 ug/L	100
98) sec-Butylbenzene	10.713	105	232047	5.08 ug/L	99
99) p-Isopropyltoluene	10.829	119	200870	5.05 ug/L	98

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:21:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	120003	4.93	ug/L	98
101) 1,4-Dclbenz	10.865	146	124718	4.95	ug/L	97
103) n-Butylbenzene	11.152	91	174962	5.08	ug/L	97
104) 1,2-Dclbenz	11.164	146	115984	5.06	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	8880	4.56	ug/L	91
107) 1,2,4-Tcbenzene	12.237	180	76430	4.88	ug/L	99
108) Hexachlorobt	12.335	225	32360	5.09	ug/L	98
109) Naphthalen	12.377	128	141890	4.78	ug/L	99
110) 1,2,3-Tclbenzene	12.518	180	71767	5.01	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

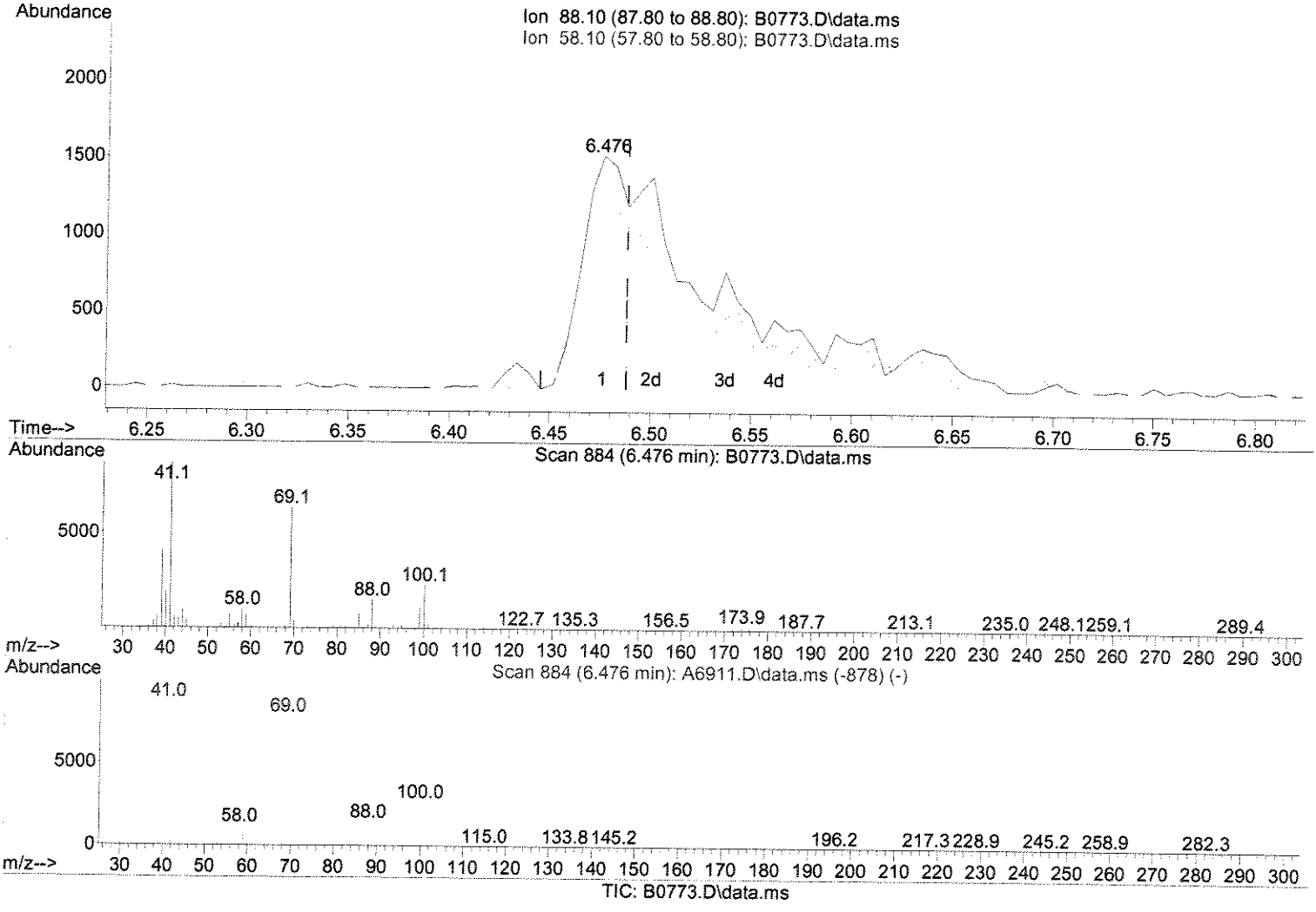
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN
6/3-4/08

Quant Time: Jun 30 08:41:24 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B bnd int.



TIC: B0773.D\data.ms

(58) 1,4-Dioxane

6.476min (-0.012) 39.03 ug/L

response 2367

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.68
0.00	0.00	0.00
0.00	0.00	0.00

00163

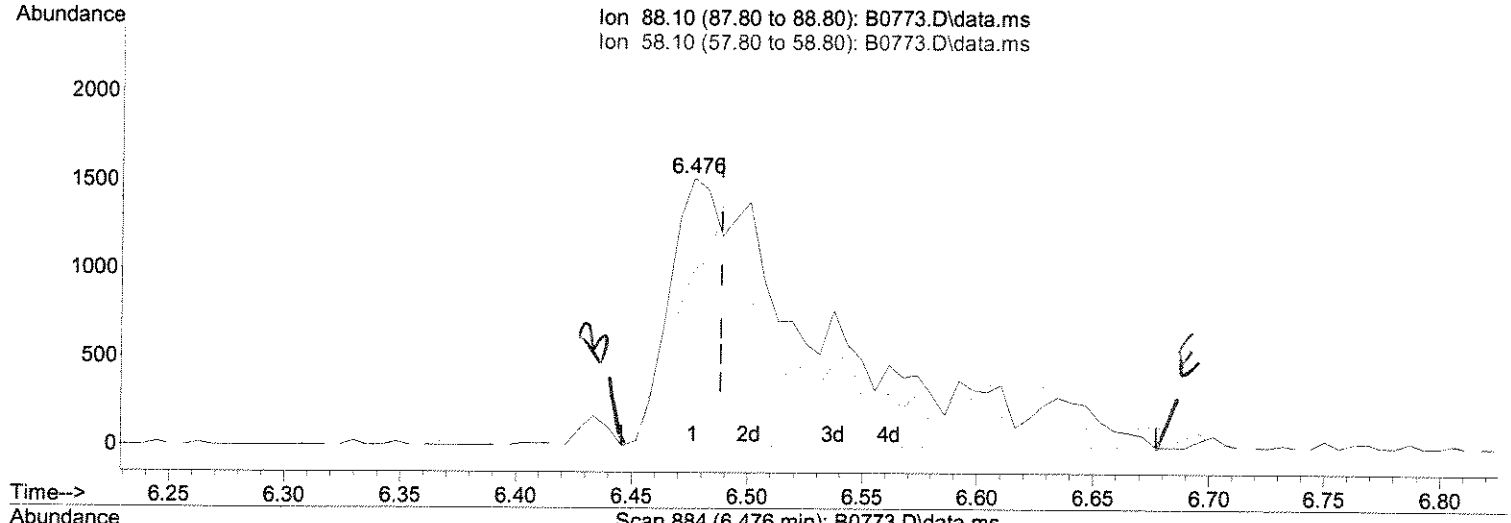
Quantitation Report (Qedit)

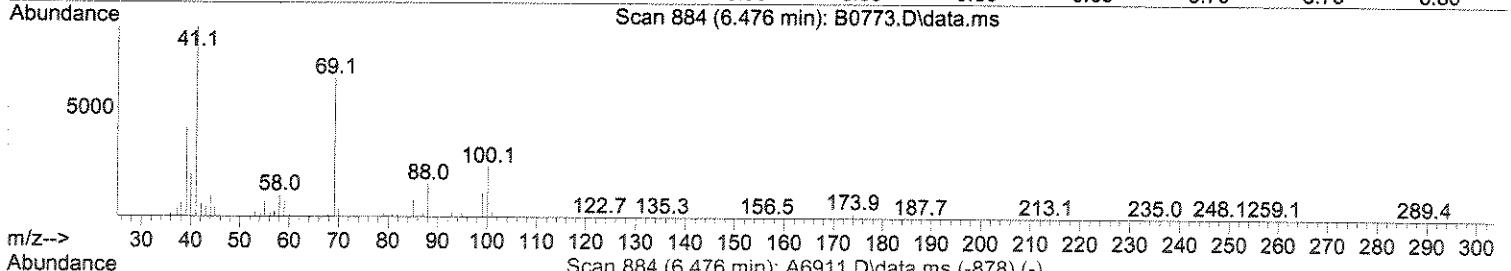
Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

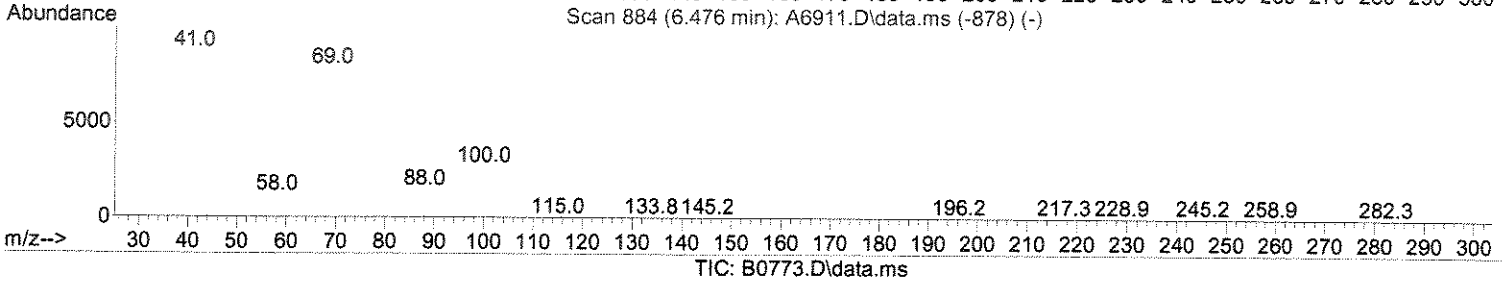
FJ
6/30/08

Quant Time: Jun 30 08:41:24 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A
7/1/08







(58) 1,4-Dioxane

6.476min (-0.012) 117.78 ug/L m

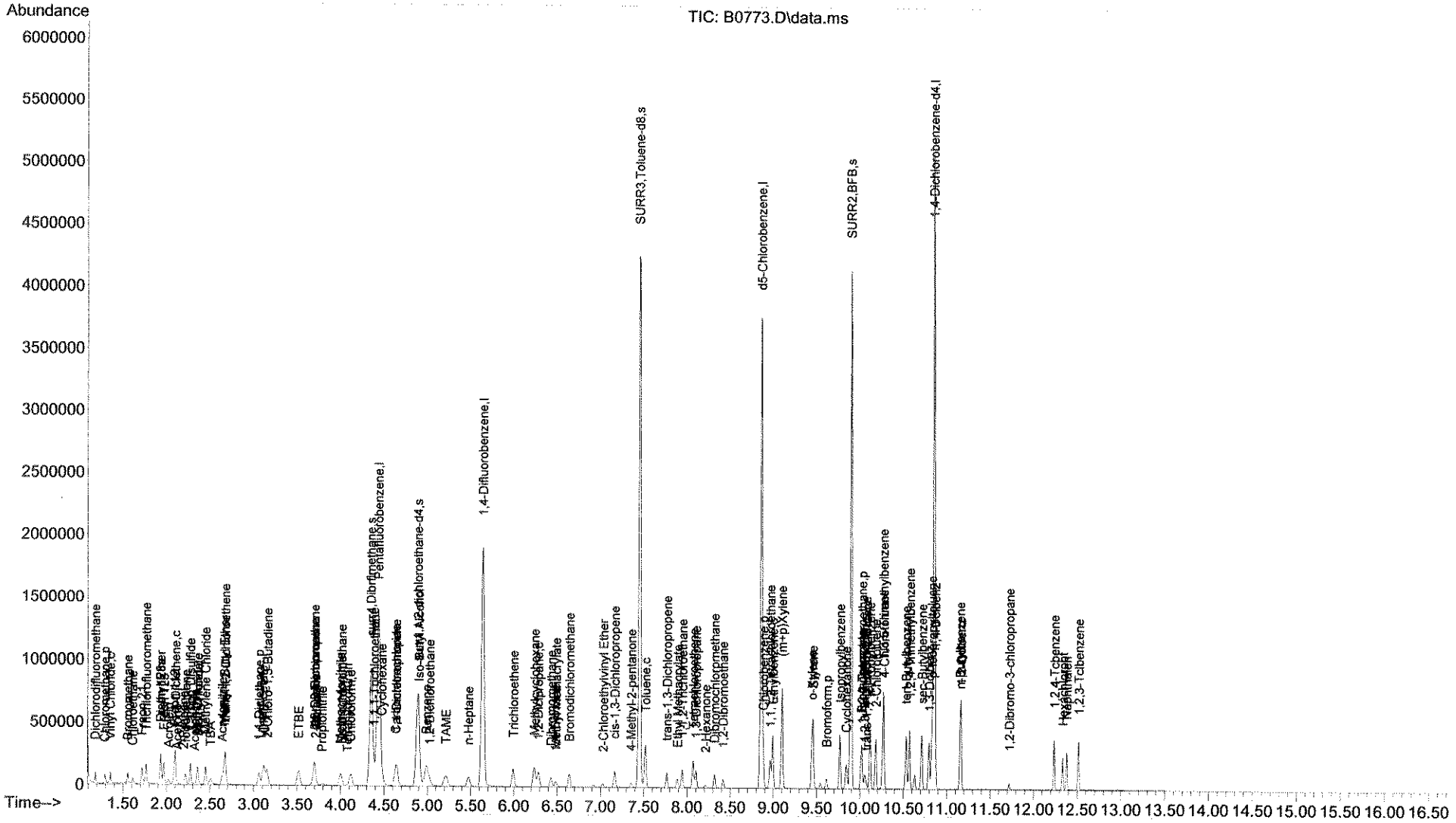
response 7142

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0773.D Vial: 7
Acq On : 26 Jun 2008 2:50 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:21:50 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 6/3/08

Quant Time: Jun 30 09:25:42 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1246944	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.641	114	1899616	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	1719038	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	970956	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	816820	72.39	ug/L		0.00
Spiked Amount 50.000			Recovery = 144.78%				
49) surr1,1,2-dichloroetha...	4.891	65	869855	72.85	ug/L		0.00
Spiked Amount 50.000			Recovery = 145.70%				
65) SURR3,Toluene-d8	7.445	98	2954362	71.45	ug/L		0.00
Spiked Amount 50.000			Recovery = 142.90%				
70) SURR2,BFB	9.896	95	1215037	71.35	ug/L		0.00
Spiked Amount 50.000			Recovery = 142.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.184	85	109946	11.03	ug/L		100
4) Chloromethane	1.294	50	98132	10.60	ug/L		99
5) Vinyl Chloride	1.355	62	100543	10.53	ug/L		97
6) Bromomethane	1.556	94	69788	10.22	ug/L		97
7) Chloroethane	1.611	64	55014	10.35	ug/L		94
8) Freon 21	1.721	67	179325	10.02	ug/L		99
9) Trichlorofluoromethane	1.770	101	172171	10.30	ug/L		100
10) Diethyl Ether	1.934	59	58522	10.39	ug/L		97
11) Freon 123a	1.934	67	104367	9.61	ug/L		98
12) Freon 123	1.971	83	125607	9.60	ug/L		98
13) Acrolein	2.026	56	36747	50.38	ug/L		98
14) 1,1-Diclethene	2.105	96	86388	10.27	ug/L		99
15) Freon 113	2.093	101	94726	10.54	ug/L		96
16) Acetone	2.123	43	15153	9.85	ug/L		100
17) 2-Propanol	2.196	45	56783	173.58	ug/L	#	88
18) Iodomethane	2.221	142	121180	8.98	ug/L		97
19) Carbon Disulfide	2.276	76	261136	8.10	ug/L		99
20) Acetonitrile	2.324	40	10705	49.73	ug/L		90
21) Allyl Chloride	2.355	76	47294	10.08	ug/L		97
22) Methyl Acetate	2.361	43	45112	10.02	ug/L		99
23) Methylene Chloride	2.446	84	100867	9.66	ug/L		98
24) TBA	2.507	59	94434	181.93	ug/L		90
25) Acrylonitrile	2.641	53	109393	51.57	ug/L		100
26) Methyl-t-Butyl Ether	2.666	73	215155	10.10	ug/L		98
27) trans-1,2-Dichloroethene	2.678	96	100700	10.45	ug/L		95
28) 1,1-Diclethane	3.062	63	183325	10.33	ug/L		98
29) Vinyl Acetate	3.099	86	9126	9.31	ug/L		72
30) DIPE	3.117	45	277547	10.74	ug/L		97
31) 2-Chloro-1,3-Butadiene	3.153	53	120427	8.74	ug/L		99
32) ETBE	3.519	59	246676	10.24	ug/L		100
33) 2,2-Dichloropropane	3.702	77	123927	9.78	ug/L		97
34) cis-1,2-Dichloroethene	3.696	96	108634	10.45	ug/L		99
35) 2-Butanone	3.714	43	25240	9.78	ug/L		97
37) Propionitrile	3.787	54	39180	49.11	ug/L		96
38) Bromochloromethane	4.007	130	65691	10.09	ug/L		95

00172

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:25:42 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.995	67	23097	10.37	ug/L		86
40) Tetrahydrofuran	4.068	42	14964	10.06	ug/L		94
41) Chloroform	4.123	83	187636	10.37	ug/L		100
42) 1,1,1-Trichloroethane	4.385	97	163129	10.08	ug/L		95
43) TAME	5.208	73	196299	9.46	ug/L		100
45) Cyclohexane	4.464	41	77348	9.74	ug/L		98
47) Carbontetrachloride	4.641	121	47555	10.12	ug/L		97
48) 1,1-Dichloropropene	4.647	75	133977	9.95	ug/L		98
50) Benzene	4.988	78	397868	10.39	ug/L		99
51) 1,2-Dichloroethane	5.025	62	137791	10.43	ug/L		95
52) Iso-Butyl Alcohol	4.891	43	38863	179.25	ug/L		92
53) n-Heptane	5.476	43	81612	10.42	ug/L		98
54) Trichloroethene	5.994	130	102982	9.80	ug/L		98
55) Methylcyclohexane	6.238	55	113952	9.93	ug/L		97
56) 1,2-Diclpropane	6.281	63	98237	10.30	ug/L		97
57) Dibromomethane	6.427	93	56407	10.13	ug/L		99
58) 1,4-Dioxane	6.476	88	15509m	253.26	ug/L		
59) Methyl Methacrylate	6.482	69	37272	10.05	ug/L		99
60) Bromodichloromethane	6.641	83	141106	10.29	ug/L		100
62) 2-Chloroethylvinyl Ether	7.025	63	24253	8.66	ug/L		94
63) cis-1,3-Dichloropropene	7.165	75	145214	10.15	ug/L		99
64) 4-Methyl-2-pentanone	7.354	43	48886	9.21	ug/L		99
66) Toluene	7.518	91	430997	10.30	ug/L		100
67) trans-1,3-Dichloropropene	7.768	75	122445	9.94	ug/L		98
68) Ethyl Methacrylate	7.884	69	72261	9.95	ug/L		95
69) 1,1,2-Trichloroethane	7.945	97	76499	10.36	ug/L		94
72) Tetrachloroethene	8.073	164	88322	10.30	ug/L		97
73) 2-Hexanone	8.213	43	33612	8.86	ug/L		94
74) 1,3-Dichloropropane	8.104	76	135531	10.39	ug/L		98
75) Dibromochloromethane	8.317	129	99320	10.12	ug/L		97
76) 1,2-Dibromoethane	8.415	107	77728	10.20	ug/L	#	99
77) Chlorobenzene	8.884	112	295628	10.34	ug/L		99
78) 1,1,1,2-Tetrachloroethane	8.963	131	104439	10.23	ug/L		97
79) Ethylbenzene	8.994	106	149875	10.39	ug/L		99
80) (m+p)Xylene	9.097	106	382228	21.87	ug/L		96
81) o-Xylene	9.445	106	183264	10.98	ug/L		95
82) Styrene	9.457	104	314868	11.05	ug/L		96
83) Bromoform	9.616	173	58476	9.72	ug/L		100
84) Isopropylbenzene	9.768	105	462338	10.73	ug/L		100
85) Cyclohexanone	9.841	55	163629	209.72	ug/L		99
86) trans-1,4-Dichloro-2-B...	10.073	53	14721	9.50	ug/L	#	96
88) 1,1,2,2-Tetrachloroethane	10.024	83	91754	10.23	ug/L		98
89) Bromobenzene	10.018	156	129307	10.43	ug/L		100
91) 1,2,3-Trichloropropane	10.055	110	27125	10.13	ug/L		93
92) n-Propylbenzene	10.116	91	577593	10.76	ug/L		99
93) 2-Chlorotoluene	10.183	91	353970	10.54	ug/L		98
94) 4-Chlorotoluene	10.274	91	429602	10.98	ug/L		98
95) 1,3,5-Trimethylbenzene	10.262	105	414134	10.82	ug/L		100
96) tert-Butylbenzene	10.530	119	333923	10.66	ug/L		99
97) 1,2,4-Trimethylbenzene	10.573	105	433077	10.95	ug/L		99
98) sec-Butylbenzene	10.713	105	494824	10.79	ug/L		99
99) p-Isopropyltoluene	10.829	119	425479	10.65	ug/L		99

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:25:42 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	258140	10.55	ug/L	98
101) 1,4-Dclbenz	10.865	146	256959	10.16	ug/L	97
103) n-Butylbenzene	11.152	91	372468	10.77	ug/L	99
104) 1,2-Dclbenz	11.164	146	241312	10.48	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	19422	9.93	ug/L	96
107) 1,2,4-Tcbenzene	12.237	180	164093	10.44	ug/L	99
108) Hexachlorobt	12.335	225	65931	10.33	ug/L	94
109) Naphthalen	12.377	128	317427	10.65	ug/L	99
110) 1,2,3-Tclbenzene	12.511	180	151948	10.56	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

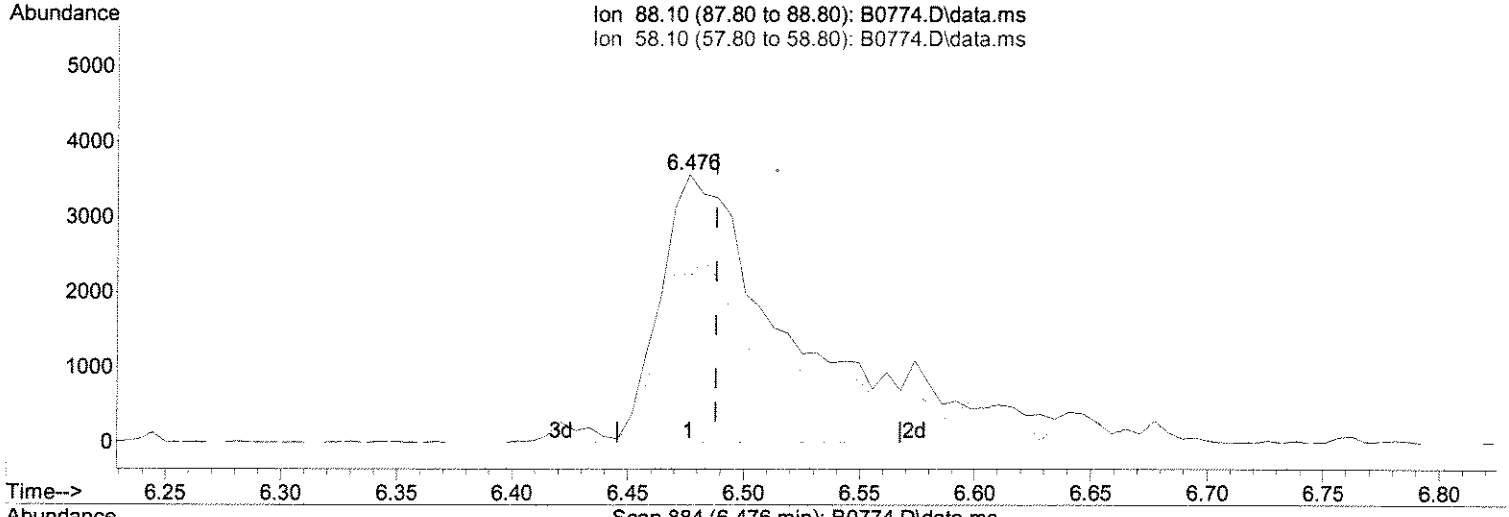
Quantitation Report (Qedit)

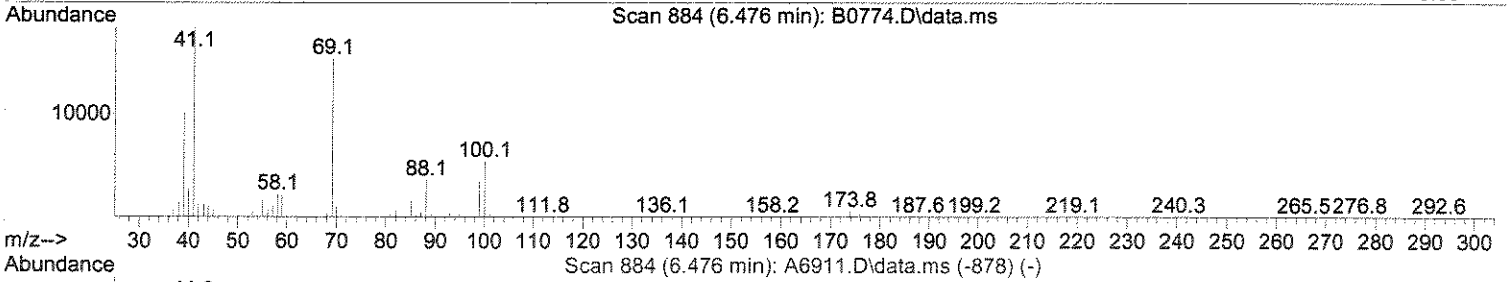
Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

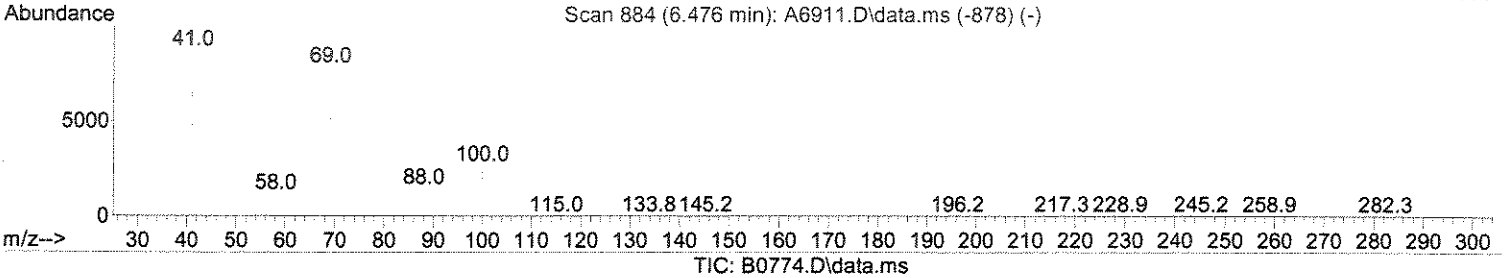
FN 6/30/08

Quant Time: Jun 30 08:41:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B bad int.







TIC: B0774.D\data.ms

(58) 1,4-Dioxane

6.476min (-0.012) 205.93 ug/L

response 12611

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	61.77
0.00	0.00	0.00
0.00	0.00	0.00

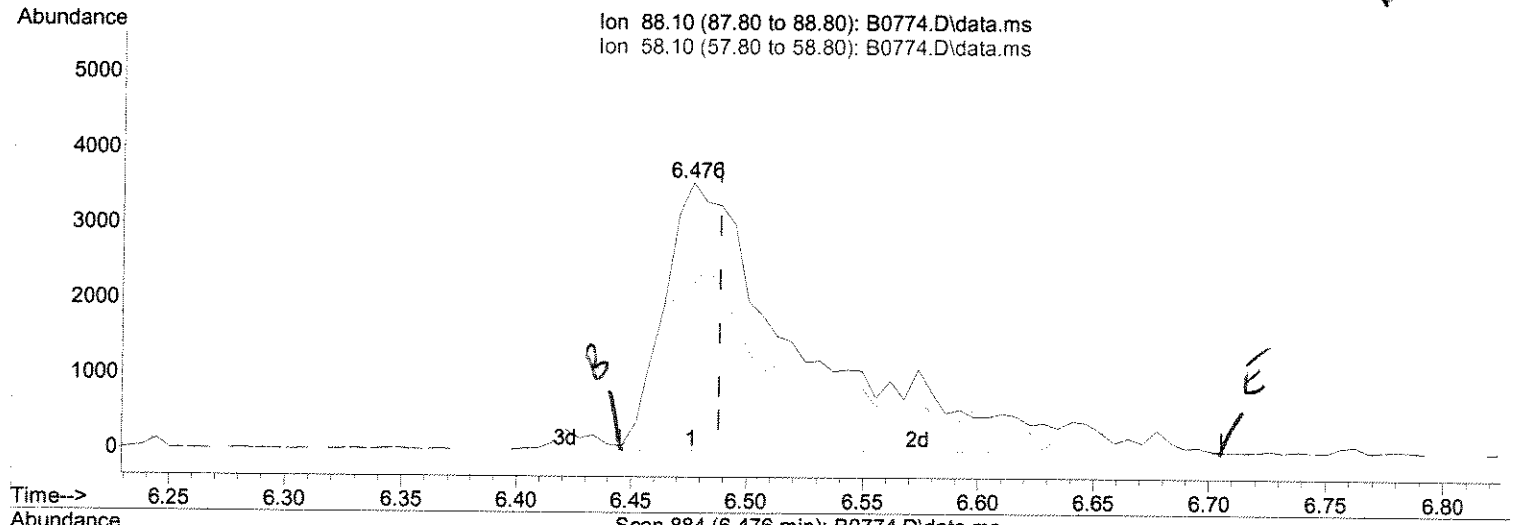
00175

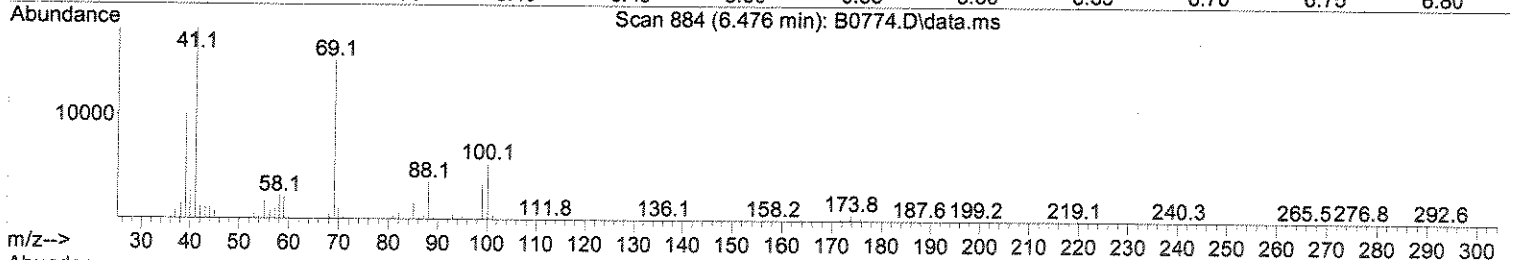
Quantitation Report (Qedit)

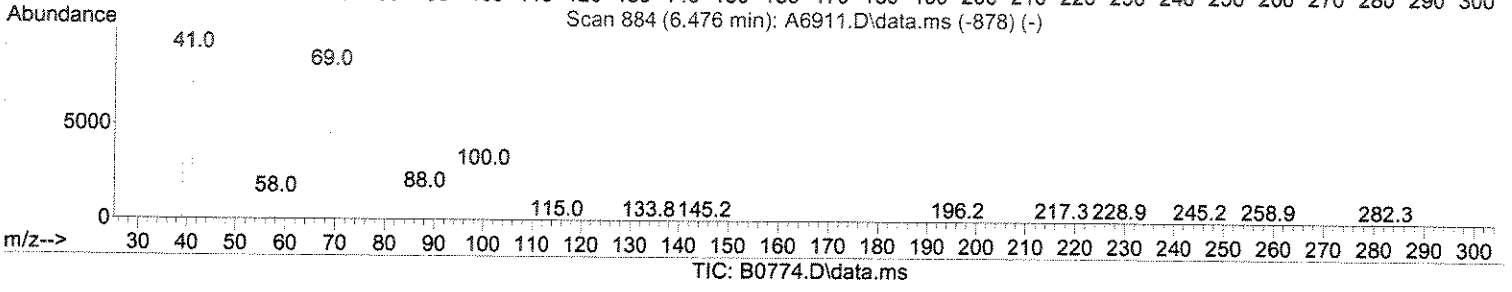
Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A FN 6/30/08
DL 7/1/08







(58) 1,4-Dioxane

6.476min (-0.012) 253.26 ug/L m

response 15509

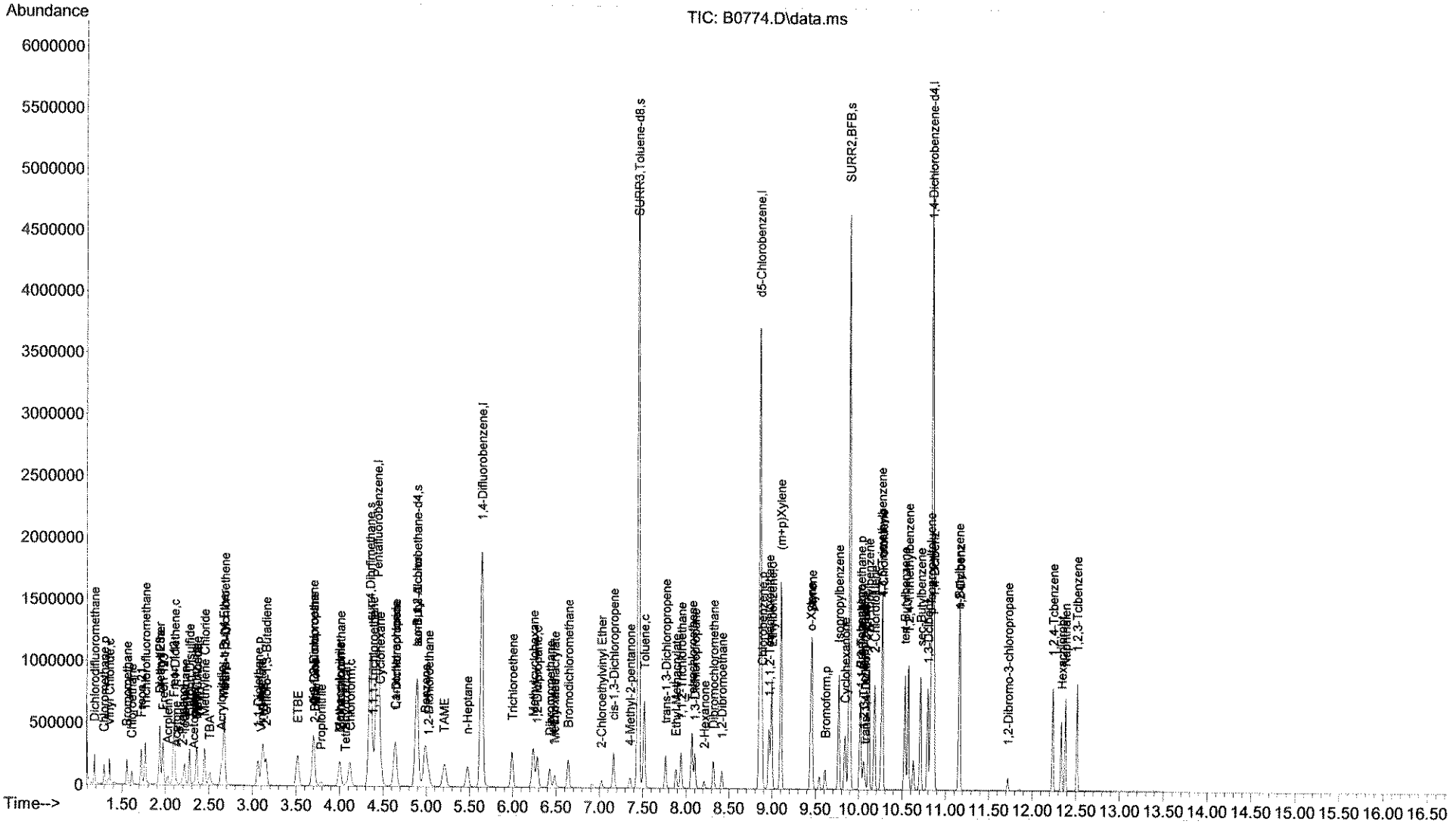
Ion	Exp%	Act%
88.10	100	100
58.10	71.80	61.77
0.00	0.00	0.00
0.00	0.00	0.00

00176

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0774.D Vial: 8
Acq On : 26 Jun 2008 3:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:25:42 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:30:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.440	168	1289470	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	1982239	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	1800756	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1032820	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.354	113	634470	53.88	ug/L	0.00
Spiked Amount 50.000			Recovery =	107.76%		
49) surr1,1,2-dichloroetha...	4.891	65	668895	53.68	ug/L	0.00
Spiked Amount 50.000			Recovery =	107.36%		
65) SURR3,Toluene-d8	7.451	98	2332331	54.05	ug/L	0.00
Spiked Amount 50.000			Recovery =	108.10%		
70) SURR2,BFB	9.896	95	959752	54.01	ug/L	0.00
Spiked Amount 50.000			Recovery =	108.02%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	551819	53.52	ug/L	100
4) Chloromethane	1.294	50	496869	51.90	ug/L	100
5) Vinyl Chloride	1.355	62	522185m	52.89	ug/L	
6) Bromomethane	1.556	94	347795	49.27	ug/L	100
7) Chloroethane	1.611	64	271297	49.35	ug/L	100
8) Freon 21	1.721	67	963238m	52.04	ug/L	
9) Trichlorofluoromethane	1.770	101	889891	51.49	ug/L	100
10) Diethyl Ether	1.934	59	294800	50.59	ug/L	100
11) Freon 123a	1.934	67	585331	52.12	ug/L	100
12) Freon 123	1.971	83	697262	51.52	ug/L	100
13) Acrolein	2.026	56	208198	276.04	ug/L	100
14) 1,1-Diclethene	2.105	96	449596	51.67	ug/L	100
15) Freon 113	2.093	101	469241	50.51	ug/L	100
16) Acetone	2.123	43	75639	47.54	ug/L	100
17) 2-Propanol	2.196	45	332376	982.55	ug/L	100
18) Iodomethane	2.221	142	755754	54.14	ug/L	100
19) Carbon Disulfide	2.276	76	1725918	51.74	ug/L	100
20) Acetonitrile	2.324	40	56161	252.29	ug/L	100
21) Allyl Chloride	2.355	76	254467	52.47	ug/L	100
22) Methyl Acetate	2.361	43	247492	53.13	ug/L	100
23) Methylene Chloride	2.446	84	510753	47.29	ug/L	100
24) TBA	2.507	59	575104	1071.41	ug/L	100
25) Acrylonitrile	2.641	53	595276	271.39	ug/L	100
26) Methyl-t-Butyl Ether	2.666	73	1193765	54.17	ug/L	100
27) trans-1,2-Dichloroethene	2.678	96	506883	50.87	ug/L	100
28) 1,1-Diclethane	3.062	63	930833	50.73	ug/L	100
29) Vinyl Acetate	3.105	86	54420	53.68	ug/L	100
30) DIPE	3.117	45	1475843	55.20	ug/L	100
31) 2-Chloro-1,3-Butadiene	3.153	53	804518	56.49	ug/L	100
32) ETBE	3.519	59	1370913	55.04	ug/L	100
33) 2,2-Dichloropropane	3.702	77	708064	54.01	ug/L	100
34) cis-1,2-Dichloroethene	3.702	96	553082	51.43	ug/L	100
35) 2-Butanone	3.714	43	136431	51.13	ug/L	100
37) Propionitrile	3.787	54	211747	256.65	ug/L	100
38) Bromochloromethane	4.007	130	336855	50.03	ug/L	100

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:30:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	124033	53.87	ug/L	100
40) Tetrahydrofuran	4.074	42	76774	49.90	ug/L	100
41) Chloroform	4.123	83	950787	50.82	ug/L	100
42) 1,1,1-Trichloroethane	4.385	97	858360	51.31	ug/L	100
43) TAME	5.214	73	1130333	52.70	ug/L	100
45) Cyclohexane	4.470	41	432217	52.15	ug/L	100
47) Carbontetrachloride	4.647	121	251945	51.38	ug/L	100
48) 1,1-Dichloropropene	4.641	75	726966	51.76	ug/L	100
50) Benzene	4.988	78	2030939	50.85	ug/L	100
51) 1,2-Dichloroethane	5.025	62	696501	50.51	ug/L	100
52) Iso-Butyl Alcohol	4.891	43	249004	1100.65	ug/L	100
53) n-Heptane	5.476	43	443670	54.27	ug/L	100
54) Trichloroethene	5.994	130	548463	50.01	ug/L	100
55) Methylcyclohexane	6.238	55	660620	55.14	ug/L	100
56) 1,2-Diclpropane	6.287	63	523238	52.59	ug/L	100
57) Dibromomethane	6.427	93	295115	50.79	ug/L	100
58) 1,4-Dioxane	6.476	88	82511	1291.22	ug/L	100
59) Methyl Methacrylate	6.482	69	221864	57.34	ug/L	100
60) Bromodichloromethane	6.641	83	737041	51.51	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	182258	62.35	ug/L	100
63) cis-1,3-Dichloropropene	7.165	75	833912	55.86	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	296815	53.57	ug/L	100
66) Toluene	7.518	91	2219769	50.84	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	736899	57.33	ug/L	100
68) Ethyl Methacrylate	7.884	69	460228	60.73	ug/L	100
69) 1,1,2-Trichloroethane	7.945	97	405465	52.61	ug/L	100
72) Tetrachloroethene	8.073	164	455552	50.73	ug/L	100
73) 2-Hexanone	8.213	43	208129	52.36	ug/L	100
74) 1,3-Dichloropropane	8.104	76	717637	52.52	ug/L	100
75) Dibromochloromethane	8.317	129	553535	53.83	ug/L	100
76) 1,2-Dibromoethane	8.415	107	424749	53.20	ug/L	100
77) Chlorobenzene	8.884	112	1518087	50.68	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	559577	52.32	ug/L	100
79) Ethylbenzene	8.994	106	805166	53.26	ug/L	100
80) (m+p)Xylene	9.104	106	1980214	108.16	ug/L	100
81) o-Xylene	9.445	106	968012	55.37	ug/L	100
82) Styrene	9.463	104	1666475	55.81	ug/L	100
83) Bromoform	9.616	173	342788	54.37	ug/L	100
84) Isopropylbenzene	9.768	105	2506700	55.55	ug/L	100
85) Cyclohexanone	9.841	55	890383	1089.39	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	84310	51.94	ug/L	100
88) 1,1,2,2-Tetrachloroethane	10.024	83	497936	52.21	ug/L	100
89) Bromobenzene	10.018	156	666915	50.57	ug/L	100
91) 1,2,3-Trichloropropane	10.055	110	146399	51.37	ug/L	100
92) n-Propylbenzene	10.116	91	3092722	54.19	ug/L	100
93) 2-Chlorotoluene	10.183	91	1866770	52.25	ug/L	100
94) 4-Chlorotoluene	10.274	91	2213995	53.21	ug/L	100
95) 1,3,5-Trimethylbenzene	10.262	105	2221136	54.58	ug/L	100
96) tert-Butylbenzene	10.530	119	1840876	55.25	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	2307977	54.85	ug/L	100
98) sec-Butylbenzene	10.713	105	2675523	54.85	ug/L	100
99) p-Isopropyltoluene	10.829	119	2311165	54.38	ug/L	100

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:30:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1328035	51.05	ug/L	100
101) 1,4-Dclbenz	10.871	146	1351612	50.22	ug/L	100
103) n-Butylbenzene	11.152	91	2044282	55.58	ug/L	100
104) 1,2-Dclbenz	11.164	146	1267808	51.76	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	111500	53.57	ug/L	100
107) 1,2,4-Tcbenzene	12.237	180	909137	54.38	ug/L	100
108) Hexachlorobt	12.335	225	346602	51.07	ug/L	100
109) Naphthalen	12.377	128	1899473	59.94	ug/L	100
110) 1,2,3-Tclbenzene	12.511	180	825037	53.88	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

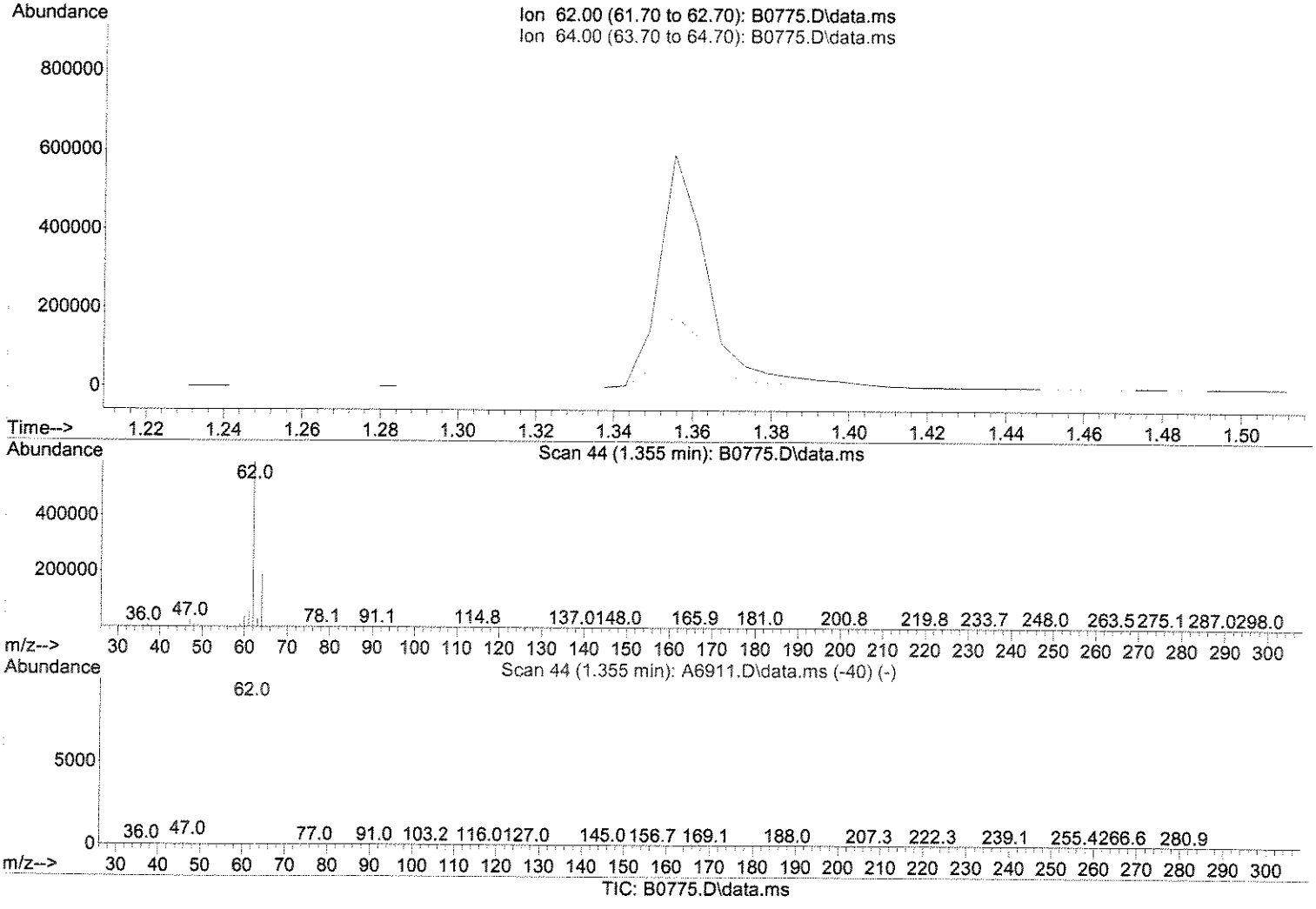
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FW
d3+8

Quant Time: Jun 30 08:41:40 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B missed peak



(5) Vinyl Chloride (c)

1.355min (-1.355) 0.00 ug/L

response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00181

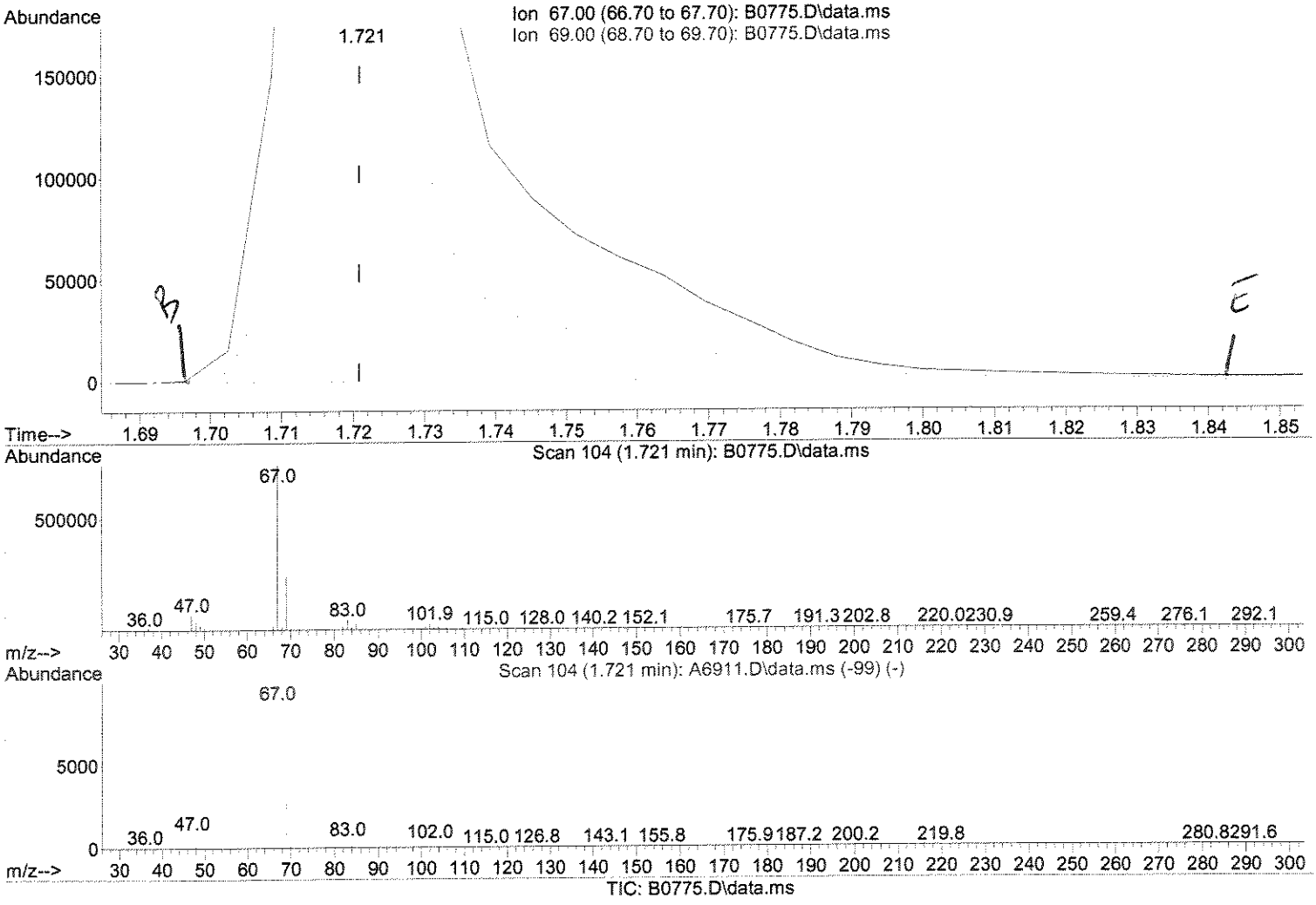
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN
6/30/08

Quant Time: Jun 30 08:41:40 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A
8/27/10



(8) Freon 21

1.721min (-0.000) 52.04 ug/L m

response 963238

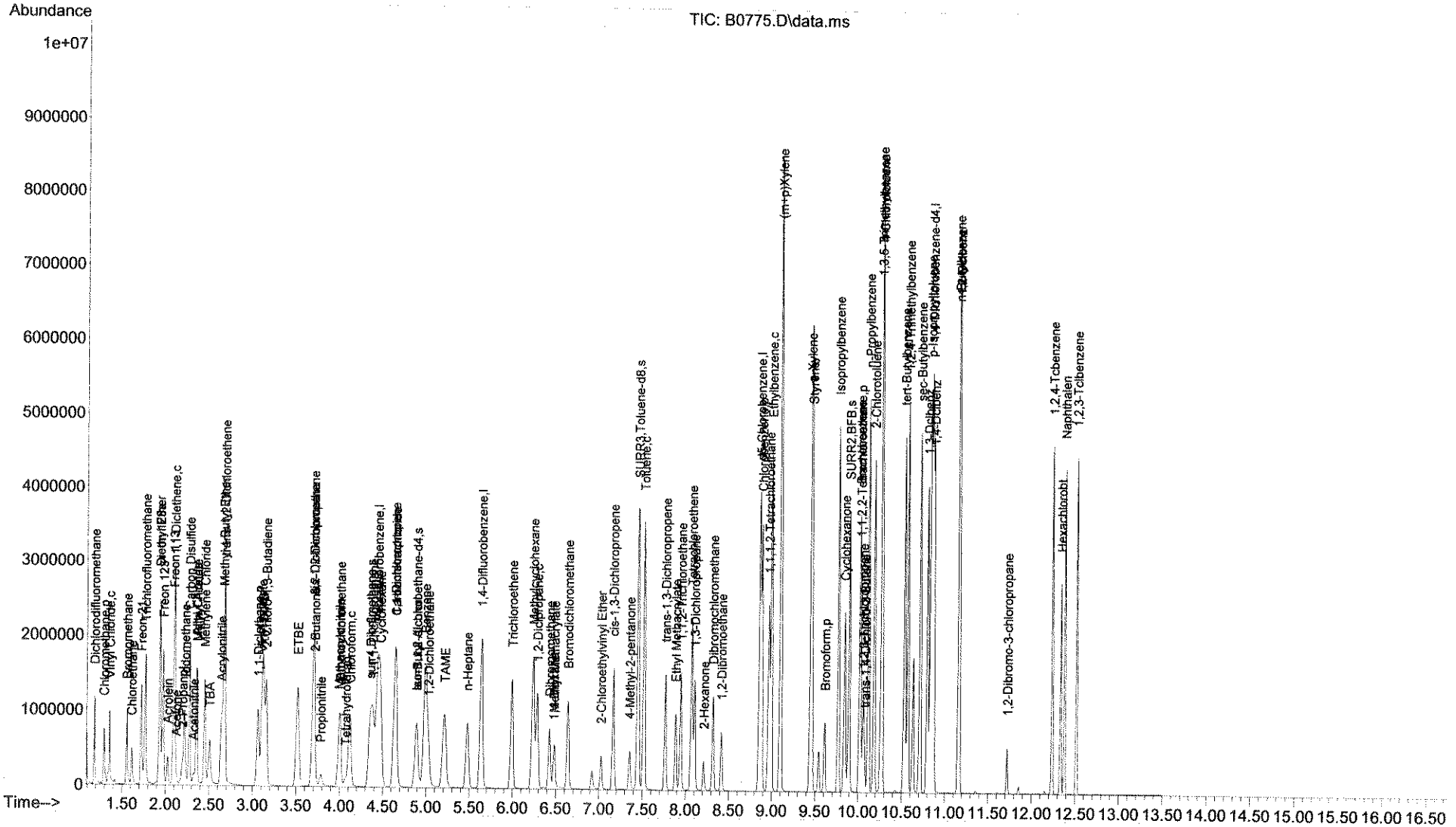
Ion	Exp%	Act%
67.00	100	100
69.00	32.70	32.71
0.00	0.00	0.00
0.00	0.00	0.00

00182

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0775.D Vial: 9
Acq On : 26 Jun 2008 3:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:30:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

FD 6/3/08

Sample : 100 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
Acq On : 26 Jun 2008 4:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:47 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1365167	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.635	114	2090538	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	1898041	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.853	152	1076439	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	1189268	95.77	ug/L	0.00
Spiked Amount 50.000			Recovery = 191.54%			
49) surr1,1,2-dichloroetha...	4.891	65	1242929	94.59	ug/L	0.00
Spiked Amount 50.000			Recovery = 189.18%			
65) SURR3,Toluene-d8	7.451	98	4408364	96.87	ug/L	0.00
Spiked Amount 50.000			Recovery = 193.74%			
70) SURR2,BFB	9.896	95	1812393	96.71	ug/L	0.00
Spiked Amount 50.000			Recovery = 193.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	1103173	101.06	ug/L	98
4) Chloromethane	1.294	50	1003306	98.98	ug/L	99
5) Vinyl Chloride	1.355	62	1046732	100.15	ug/L	99
6) Bromomethane	1.556	94	691895	92.58	ug/L	98
7) Chloroethane	1.611	64	546502	93.91	ug/L	99
8) Freon 21	1.721	67	1931596	98.57	ug/L	99
9) Trichlorofluoromethane	1.763	101	1745473	95.39	ug/L	99
10) Diethyl Ether	1.934	59	582656	94.45	ug/L	99
11) Freon 123a	1.928	67	1132845	95.27	ug/L	95
12) Freon 123	1.971	83	1417056	98.89	ug/L	100
13) Acrolein	2.026	56	471342	590.27	ug/L	99
14) 1,1-Diclethene	2.099	96	897691	97.45	ug/L	97
15) Freon 113	2.093	101	943355	95.91	ug/L	99
16) Acetone	2.123	43	148750	88.31	ug/L	96
17) 2-Propanol	2.196	45	752399	2100.86	ug/L	100
18) Iodomethane	2.221	142	1619366	109.58	ug/L	97
19) Carbon Disulfide	2.276	76	3590118	101.66	ug/L	99
20) Acetonitrile	2.324	40	119544	507.25	ug/L	94
21) Allyl Chloride	2.355	76	529065	103.05	ug/L	93
22) Methyl Acetate	2.355	43	475889	96.50	ug/L	99
23) Methylene Chloride	2.446	84	1033538	90.39	ug/L	98
24) TBA	2.507	59	1167990	2055.29	ug/L	94
25) Acrylonitrile	2.641	53	1146745	493.82	ug/L	99
26) Methyl-t-Butyl Ether	2.666	73	2389191	102.41	ug/L	99
27) trans-1,2-Dichloroethene	2.678	96	1031802	97.82	ug/L	98
28) 1,1-Diclethane	3.062	63	1902239	97.91	ug/L	99
29) Vinyl Acetate	3.099	86	120897	112.64	ug/L	92
30) DIPE	3.117	45	2968483	104.87	ug/L	99
31) 2-Chloro-1,3-Butadiene	3.153	53	1665798	110.49	ug/L	95
32) ETBE	3.519	59	2848295	108.02	ug/L	100
33) 2,2-Dichloropropane	3.702	77	1508687	108.71	ug/L	99
34) cis-1,2-Dichloroethene	3.696	96	1131717	99.39	ug/L	98
35) 2-Butanone	3.714	43	261694	92.63	ug/L	96
37) Propionitrile	3.787	54	450473	515.72	ug/L	94
38) Bromochloromethane	4.007	130	674739	94.65	ug/L	99

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
Acq On : 26 Jun 2008 4:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:47 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	253398	103.95	ug/L	95
40) Tetrahydrofuran	4.068	42	157471	96.67	ug/L	92
41) Chloroform	4.117	83	1946396	98.27	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	1771426	100.01	ug/L	100
43) TAME	5.208	73	2369039	104.33	ug/L	99
45) Cyclohexane	4.464	41	870198	99.55	ug/L	100
47) Carbontetrachloride	4.641	121	515306	99.65	ug/L	94
48) 1,1-Dichloropropene	4.641	75	1497795	101.12	ug/L	99
50) Benzene	4.988	78	4191888	99.52	ug/L	99
51) 1,2-Dichloroethane	5.025	62	1397874	96.12	ug/L	99
52) Iso-Butyl Alcohol	4.885	43	492219	2063.00	ug/L	96
53) n-Heptane	5.476	43	944727	109.58	ug/L	98
54) Trichloroethene	5.988	130	1141589	98.71	ug/L	99
55) Methylcyclohexane	6.232	55	1344264	106.39	ug/L	99
56) 1,2-Diclpropane	6.281	63	1068127	101.80	ug/L	99
57) Dibromomethane	6.427	93	583709	95.26	ug/L	97
58) 1,4-Dioxane	6.476	88	170420	2528.75	ug/L	93
59) Methyl Methacrylate	6.482	69	443475	108.68	ug/L	99
60) Bromodichloromethane	6.641	83	1524626	101.03	ug/L	99
62) 2-Chloroethylvinyl Ether	7.025	63	387235	125.61	ug/L	94
63) cis-1,3-Dichloropropene	7.165	75	1736515	110.29	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	588596	100.73	ug/L	98
66) Toluene	7.518	91	4564512	99.14	ug/L	99
67) trans-1,3-Dichloropropene	7.768	75	1531236	112.95	ug/L	100
68) Ethyl Methacrylate	7.884	69	931724	116.59	ug/L	100
69) 1,1,2-Trichloroethane	7.945	97	801668	98.63	ug/L	99
72) Tetrachloroethene	8.073	164	936214	98.91	ug/L	98
73) 2-Hexanone	8.213	43	415276	99.11	ug/L	99
74) 1,3-Dichloropropane	8.104	76	1427144	99.10	ug/L	99
75) Dibromochloromethane	8.317	129	1127575	104.03	ug/L	99
76) 1,2-Dibromoethane	8.415	107	845565	100.48	ug/L	99
77) Chlorobenzene	8.884	112	3122111	98.88	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	1174238	104.17	ug/L	99
79) Ethylbenzene	8.994	106	1652393	103.70	ug/L	100
80) (m+p)Xylene	9.104	106	4023855	208.53	ug/L	98
81) o-Xylene	9.445	106	1981951	107.56	ug/L	98
82) Styrene	9.463	104	3400811	108.05	ug/L	100
83) Bromoform	9.616	173	701529	105.56	ug/L	99
84) Isopropylbenzene	9.768	105	5194802	109.21	ug/L	99
85) Cyclohexanone	9.841	55	1584199	1838.94	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	174628	102.06	ug/L	91
88) 1,1,2,2-Tetrachloroethane	10.024	83	963560	96.93	ug/L	99
89) Bromobenzene	10.018	156	1382047	100.56	ug/L	99
91) 1,2,3-Trichloropropane	10.055	110	285400	96.09	ug/L	96
92) n-Propylbenzene	10.116	91	6385772	107.35	ug/L	99
93) 2-Chlorotoluene	10.183	91	3870999	103.95	ug/L	99
94) 4-Chlorotoluene	10.274	91	4515756	104.14	ug/L	100
95) 1,3,5-Trimethylbenzene	10.268	105	4523262	106.64	ug/L	98
96) tert-Butylbenzene	10.530	119	3794359	109.26	ug/L	100
97) 1,2,4-Trimethylbenzene	10.573	105	4739838	108.08	ug/L	98
98) sec-Butylbenzene	10.713	105	5500101	108.19	ug/L	99
99) p-Isopropyltoluene	10.829	119	4824725	108.91	ug/L	99

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
Acq On : 26 Jun 2008 4:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

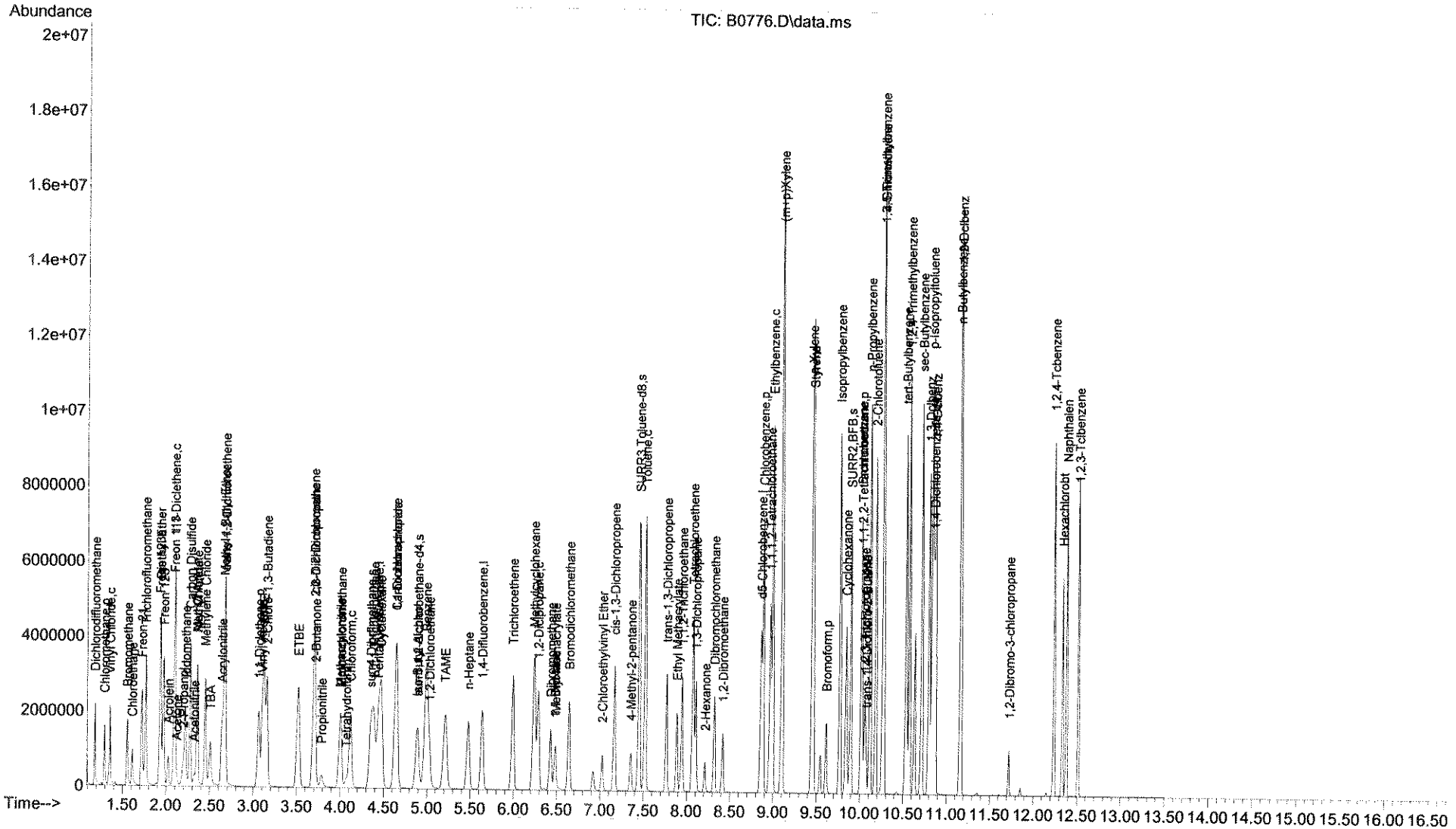
Quant Time: Jun 30 08:41:47 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	2739275	101.03	ug/L	99
101) 1,4-Dclbenz	10.871	146	2762988	98.50	ug/L	100
103) n-Butylbenzene	11.152	91	4162625	108.59	ug/L	99
104) 1,2-Dclbenz	11.164	146	2524426	98.88	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	223701	103.12	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	1819702	104.44	ug/L	99
108) Hexachlorobt	12.335	225	703147	99.40	ug/L	99
109) Naphthalen	12.377	128	3667317	111.04	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	1617816	101.37	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 100 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0776.D Vial: 10
Acq On : 26 Jun 2008 4:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:47 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

FJ 6/30/08

Sample : 150 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
Acq On : 26 Jun 2008 5:19 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:56 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1418241	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2164155	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	1988588	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.853	152	1124265	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.354	113	1497645	116.50	ug/L	0.00
Spiked Amount 50.000			Recovery =	233.00%		
49) surr1,1,2-dichloroetha...	4.891	65	1582845	116.36	ug/L	0.00
Spiked Amount 50.000			Recovery =	232.72%		
65) SURR3,Toluene-d8	7.451	98	5536878	117.53	ug/L	0.00
Spiked Amount 50.000			Recovery =	235.06%		
70) SURR2,BFB	9.896	95	2275602	117.29	ug/L	0.00
Spiked Amount 50.000			Recovery =	234.58%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	1631890	143.90	ug/L	98
4) Chloromethane	1.294	50	1505069	142.92	ug/L	100
5) Vinyl Chloride	1.355	62	1536566	141.51	ug/L	99
6) Bromomethane	1.556	94	992843	127.88	ug/L	100
7) Chloroethane	1.611	64	775624	128.29	ug/L	99
8) Freon 21	1.721	67	2895607	142.24	ug/L	100
9) Trichlorofluoromethane	1.763	101	2541202	133.68	ug/L	98
10) Diethyl Ether	1.934	59	891950	139.17	ug/L	99
11) Freon 123a	1.934	67	1727679	139.86	ug/L	99
12) Freon 123	1.971	83	2157274	144.91	ug/L	99
13) Acrolein	2.026	56	679490	819.10	ug/L	99
14) 1,1-Diclethene	2.105	96	1340910	140.12	ug/L	96
15) Freon 113	2.093	101	1409143	137.90	ug/L	100
16) Acetone	2.123	43	255876	146.22	ug/L	94
17) 2-Propanol	2.196	45	1349824	3627.96	ug/L	100
18) Iodomethane	2.221	142	2370566	154.41	ug/L	97
19) Carbon Disulfide	2.276	76	5404407	147.31	ug/L	99
20) Acetonitrile	2.324	40	180447	737.02	ug/L	92
21) Allyl Chloride	2.355	76	782838	146.77	ug/L	93
22) Methyl Acetate	2.361	43	770765	150.45	ug/L	98
23) Methylene Chloride	2.446	84	1569587	132.14	ug/L	98
24) TBA	2.507	59	2145633	3634.34	ug/L	93
25) Acrylonitrile	2.641	53	1904441	789.41	ug/L	99
26) Methyl-t-Butyl Ether	2.666	73	3851172	158.90	ug/L	99
27) trans-1,2-Dichloroethene	2.678	96	1536043	140.17	ug/L	98
28) 1,1-Diclethane	3.062	63	2820139	139.73	ug/L	99
29) Vinyl Acetate	3.105	86	191245	171.52	ug/L	96
30) DIPE	3.117	45	4547211	154.64	ug/L	97
31) 2-Chloro-1,3-Butadiene	3.153	53	2479714	158.32	ug/L	97
32) ETBE	3.519	59	4538195	165.67	ug/L	100
33) 2,2-Dichloropropane	3.702	77	2254237	156.35	ug/L	99
34) cis-1,2-Dichloroethene	3.702	96	1694414	143.24	ug/L	99
35) 2-Butanone	3.714	43	453960	154.68	ug/L	96
37) Propionitrile	3.787	54	775766	854.89	ug/L	96
38) Bromochloromethane	4.007	130	1031521	139.28	ug/L	99

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
Acq On : 26 Jun 2008 5:19 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:56 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methacrylonitrile	3.995	67	430123	169.85	ug/L	94
40) Tetrahydrofuran	4.074	42	261721	154.65	ug/L	96
41) Chloroform	4.123	83	2897097	140.79	ug/L	99
42) 1,1,1-Trichloroethane	4.385	97	2635276	143.22	ug/L	99
43) TAME	5.214	73	3937804	166.93	ug/L	99
45) Cyclohexane	4.470	41	1323522	146.26	ug/L	99
47) Carbontetrachloride	4.641	121	771336	144.09	ug/L	95
48) 1,1-Dichloropropene	4.647	75	2239618	146.07	ug/L	97
50) Benzene	4.988	78	6303562	144.56	ug/L	99
51) 1,2-Dichloroethane	5.025	62	2148101	142.69	ug/L	99
52) Iso-Butyl Alcohol	4.891	43	908348	3677.58	ug/L	94
53) n-Heptane	5.476	43	1370537	153.56	ug/L	98
54) Trichloroethene	5.994	130	1714131	143.17	ug/L	99
55) Methylcyclohexane	6.238	55	2067071	158.03	ug/L	97
56) 1,2-Diclpropane	6.287	63	1619762	149.13	ug/L	99
57) Dibromomethane	6.427	93	920370	145.09	ug/L	100
58) 1,4-Dioxane	6.476	88	288491	4135.12	ug/L	99
59) Methyl Methacrylate	6.482	69	758186	179.48	ug/L	100
60) Bromodichloromethane	6.641	83	2296263	146.99	ug/L	100
62) 2-Chloroethylvinyl Ether	7.025	63	589236	184.63	ug/L	95
63) cis-1,3-Dichloropropene	7.165	75	2660930	163.26	ug/L	100
64) 4-Methyl-2-pentanone	7.354	43	1034021	170.94	ug/L	99
66) Toluene	7.518	91	6833643	143.37	ug/L	100
67) trans-1,3-Dichloropropene	7.768	75	2398917	170.93	ug/L	99
68) Ethyl Methacrylate	7.890	69	1564043	189.05	ug/L	94
69) 1,1,2-Trichloroethane	7.945	97	1286677	152.91	ug/L	98
72) Tetrachloroethene	8.073	164	1414953	142.68	ug/L	99
73) 2-Hexanone	8.213	43	740564	168.70	ug/L	97
74) 1,3-Dichloropropane	8.104	76	2256322	149.54	ug/L	99
75) Dibromochloromethane	8.323	129	1789180	157.55	ug/L	98
76) 1,2-Dibromoethane	8.415	107	1366101	154.94	ug/L	99
77) Chlorobenzene	8.884	112	4690794	141.80	ug/L	100
78) 1,1,1,2-Tetrachloroethane	8.963	131	1778712	150.61	ug/L	99
79) Ethylbenzene	8.994	106	2469579	147.93	ug/L	99
80) (m+p)Xylene	9.103	106	5928178	293.23	ug/L	91
81) o-Xylene	9.451	106	2948247	152.71	ug/L	99
82) Styrene	9.463	104	5123243	155.37	ug/L	99
83) Bromoform	9.616	173	1162730	166.99	ug/L	99
84) Isopropylbenzene	9.768	105	7875491	158.03	ug/L	100
85) Cyclohexanone	9.841	55	2819825	3124.21	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.073	53	290306	161.94	ug/L	90
88) 1,1,2,2-Tetrachloroethane	10.030	83	1594489	153.58	ug/L	98
89) Bromobenzene	10.018	156	2109198	146.94	ug/L	97
91) 1,2,3-Trichloropropane	10.061	110	473411	152.62	ug/L	96
92) n-Propylbenzene	10.122	91	9598350	154.49	ug/L	99
93) 2-Chlorotoluene	10.183	91	5825146	149.77	ug/L	99
94) 4-Chlorotoluene	10.274	91	6716400	148.30	ug/L	98
95) 1,3,5-Trimethylbenzene	10.268	105	6766729	152.74	ug/L	99
96) tert-Butylbenzene	10.536	119	5743690	158.36	ug/L	99
97) 1,2,4-Trimethylbenzene	10.573	105	7147853	156.06	ug/L	99
98) sec-Butylbenzene	10.713	105	8287815	156.10	ug/L	99
99) p-Isopropyltoluene	10.829	119	7248932	156.68	ug/L	99

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
Acq On : 26 Jun 2008 5:19 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:56 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

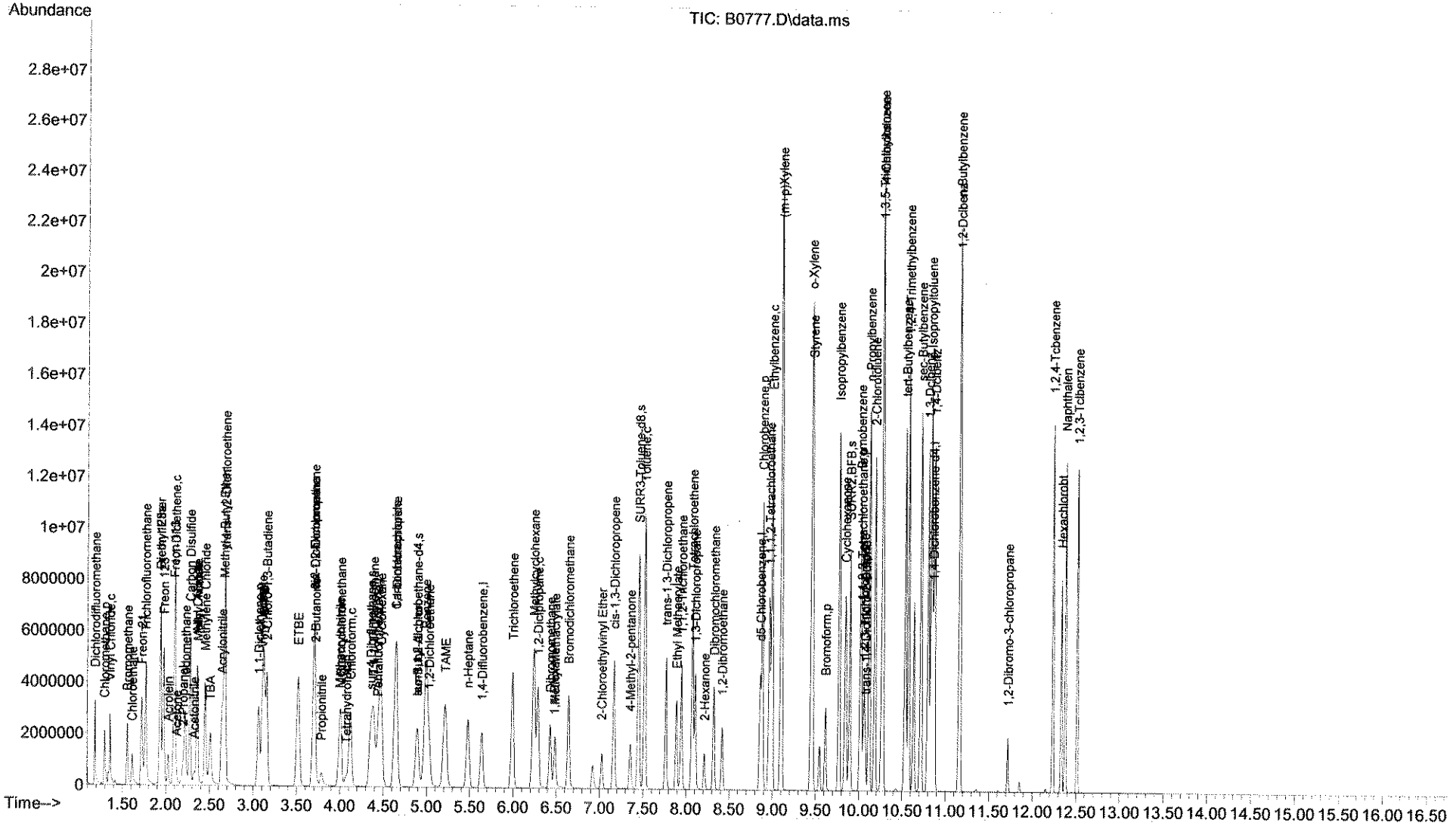
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	4184955	147.78	ug/L	99
101) 1,4-Dclbenz	10.871	146	4222756	144.14	ug/L	99
103) n-Butylbenzene	11.158	91	6152417	153.67	ug/L	98
104) 1,2-Dclbenz	11.164	146	3831176	143.68	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	391983	173.01	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	2805358	154.15	ug/L	98
108) Hexachlorobt	12.335	225	1001987	135.62	ug/L	98
109) Naphthalen	12.377	128	6148395	178.24	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	2562646	153.74	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0777.D Vial: 11
Acq On : 26 Jun 2008 5:19 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:41:56 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 6/30/08

Quant Time: Jun 30 09:40:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.440	168	1459126	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2237917	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2060561	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.853	152	1142832	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.355	113	1842101	138.57	ug/L	0.00
Spiked Amount 50.000			Recovery =	277.14%		
49) surr1,1,2-dichloroetha...	4.891	65	1912140	135.93	ug/L	0.00
Spiked Amount 50.000			Recovery =	271.86%		
65) SURR3,Toluene-d8	7.452	98	6819646	139.99	ug/L	0.00
Spiked Amount 50.000			Recovery =	279.98%		
70) SURR2,BFB	9.896	95	2826772	140.90	ug/L	0.00
Spiked Amount 50.000			Recovery =	281.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	2329859	199.69	ug/L	99
4) Chloromethane	1.294	50	2092174	193.11	ug/L	100
5) Vinyl Chloride	1.355	62	2188294m	195.89	ug/L	
6) Bromomethane	1.550	94	1379537	172.71	ug/L	98
7) Chloroethane	1.611	64	1088015m	174.92	ug/L	
8) Freon 21	1.721	67	3855696	184.09	ug/L	99
9) Trichlorofluoromethane	1.764	101	3549117	181.47	ug/L	98
10) Diethyl Ether	1.934	59	1208766	183.32	ug/L	99
11) Freon 123a	1.934	67	2164815m	170.34	ug/L	
12) Freon 123	1.971	83	2871568m	187.49	ug/L	
13) Acrolein	2.026	56	892409	1045.62	ug/L	99
14) 1,1-Diclethene	2.105	96	1908497	193.85	ug/L	95
15) Freon 113	2.093	101	1976301	187.99	ug/L	98
16) Acetone	2.123	43	343546	190.82	ug/L	96
17) 2-Propanol	2.203	45	1768336	4619.63	ug/L	98
18) Iodomethane	2.221	142	3146004	199.18	ug/L	97
19) Carbon Disulfide	2.276	76	7306918	193.59	ug/L	99
20) Acetonitrile	2.324	40	245112	973.09	ug/L	97
21) Allyl Chloride	2.355	76	1117007	203.55	ug/L	90
22) Methyl Acetate	2.361	43	1025615	194.58	ug/L	97
23) Methylene Chloride	2.446	84	2235293	182.91	ug/L	96
24) TBA	2.507	59	2877520	4737.47	ug/L	90
25) Acrylonitrile	2.642	53	2563190	1032.70	ug/L	99
26) Methyl-t-Butyl Ether	2.666	73	5325287	213.56	ug/L	98
27) trans-1,2-Dichloroethene	2.678	96	2184978	193.80	ug/L	97
28) 1,1-Diclethane	3.062	63	4046528	194.87	ug/L	99
29) Vinyl Acetate	3.099	86	278222	242.53	ug/L	74
30) DIPE	3.117	45	6034520	199.46	ug/L	97
31) 2-Chloro-1,3-Butadiene	3.154	53	3311615	205.51	ug/L	96
32) ETBE	3.519	59	6147246	218.11	ug/L	99
33) 2,2-Dichloropropane	3.702	77	3204800	216.05	ug/L	99
34) cis-1,2-Dichloroethene	3.702	96	2414829	198.43	ug/L	96
35) 2-Butanone	3.714	43	596569	197.58	ug/L	95
37) Propionitrile	3.788	54	1041903	1116.00	ug/L	97
38) Bromochloromethane	4.007	130	1444533	189.58	ug/L	98

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:40:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.995	67	588718	225.96	ug/L		92
40) Tetrahydrofuran	4.074	42	365745	210.06	ug/L		93
41) Chloroform	4.123	83	4129053	195.04	ug/L		99
42) 1,1,1-Trichloroethane	4.385	97	3800035	200.73	ug/L		99
43) TAME	5.214	73	5386695	221.95	ug/L		99
45) Cyclohexane	4.470	41	1794487	191.77	ug/L		99
47) Carbontetrachloride	4.641	121	1095864	197.96	ug/L		97
48) 1,1-Dichloropropene	4.647	75	3217291	202.91	ug/L		96
50) Benzene	4.989	78	9068135	201.11	ug/L		98
51) 1,2-Dichloroethane	5.025	62	2969958	190.78	ug/L		99
52) Iso-Butyl Alcohol	4.897	43	1207478	4727.52	ug/L		91
53) n-Heptane	5.476	43	1960848	212.46	ug/L		98
54) Trichloroethene	5.995	130	2487537	200.92	ug/L		99
55) Methylcyclohexane	6.238	55	2790154	206.28	ug/L		95
56) 1,2-Diclpropane	6.287	63	2297245	204.53	ug/L		100
57) Dibromomethane	6.427	93	1284368	195.80	ug/L		99
58) 1,4-Dioxane	6.482	88	377936	5238.63	ug/L		99
59) Methyl Methacrylate	6.482	69	1045869	239.42	ug/L		98
60) Bromodichloromethane	6.641	83	3239014	200.50	ug/L		100
62) 2-Chloroethylvinyl Ether	7.025	63	758753	229.91	ug/L		95
63) cis-1,3-Dichloropropene	7.165	75	3747342	222.34	ug/L		100
64) 4-Methyl-2-pentanone	7.354	43	1399527	223.74	ug/L		99
66) Toluene	7.519	91	9745236	197.71	ug/L		100
67) trans-1,3-Dichloropropene	7.769	75	3368501	232.11	ug/L		99
68) Ethyl Methacrylate	7.890	69	2160612	252.55	ug/L		96
69) 1,1,2-Trichloroethane	7.945	97	1776043	204.11	ug/L		99
72) Tetrachloroethene	8.073	164	2043265	198.84	ug/L		98
73) 2-Hexanone	8.214	43	1005305	221.01	ug/L		97
74) 1,3-Dichloropropane	8.104	76	3137428	200.68	ug/L		100
75) Dibromochloromethane	8.323	129	2503688	212.76	ug/L		98
76) 1,2-Dibromoethane	8.415	107	1902663	208.26	ug/L		99
77) Chlorobenzene	8.884	112	6677781	194.82	ug/L		100
78) 1,1,1,2-Tetrachloroethane	8.963	131	2525205	206.35	ug/L		100
79) Ethylbenzene	8.994	106	3506132	202.69	ug/L		91
80) (m+p)Xylene	9.104	106	8252316	393.93	ug/L	#	61
81) o-Xylene	9.451	106	4114426	205.67	ug/L		98
82) Styrene	9.463	104	7159706	209.54	ug/L		99
83) Bromoform	9.616	173	1622587	224.90	ug/L		99
84) Isopropylbenzene	9.774	105	11145887	215.84	ug/L		99
85) Cyclohexanone	9.841	55	3493547	3735.46	ug/L		99
86) trans-1,4-Dichloro-2-B...	10.073	53	400143	215.41	ug/L		90
88) 1,1,2,2-Tetrachloroethane	10.030	83	2154925	204.19	ug/L		98
89) Bromobenzene	10.018	156	2996617	205.37	ug/L		98
91) 1,2,3-Trichloropropane	10.061	110	647646	205.39	ug/L		96
92) n-Propylbenzene	10.116	91	11904830	188.50	ug/L	#	92
93) 2-Chlorotoluene	10.183	91	8268660	209.14	ug/L		98
94) 4-Chlorotoluene	10.274	91	9303141	202.07	ug/L		97
95) 1,3,5-Trimethylbenzene	10.268	105	9384762	208.40	ug/L		99
96) tert-Butylbenzene	10.536	119	8267642	224.24	ug/L		99
97) 1,2,4-Trimethylbenzene	10.573	105	9915193	212.96	ug/L		98
98) sec-Butylbenzene	10.713	105	11239855	208.26	ug/L		96
99) p-Isopropyltoluene	10.835	119	10190850	216.69	ug/L		98

Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:40:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	5889426	204.59	ug/L	99
101) 1,4-Dclbenz	10.872	146	5935993	199.32	ug/L	99
103) n-Butylbenzene	11.158	91	8456826	207.79	ug/L	97
104) 1,2-Dclbenz	11.164	146	5321420	196.33	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	533721	231.74	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	3924785	212.16	ug/L	98
108) Hexachlorobt	12.335	225	1451531	193.27	ug/L	99
109) Naphthalen	12.377	128	8118026	231.51	ug/L	99
110) 1,2,3-Tclbenzene	12.518	180	3534791	208.62	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

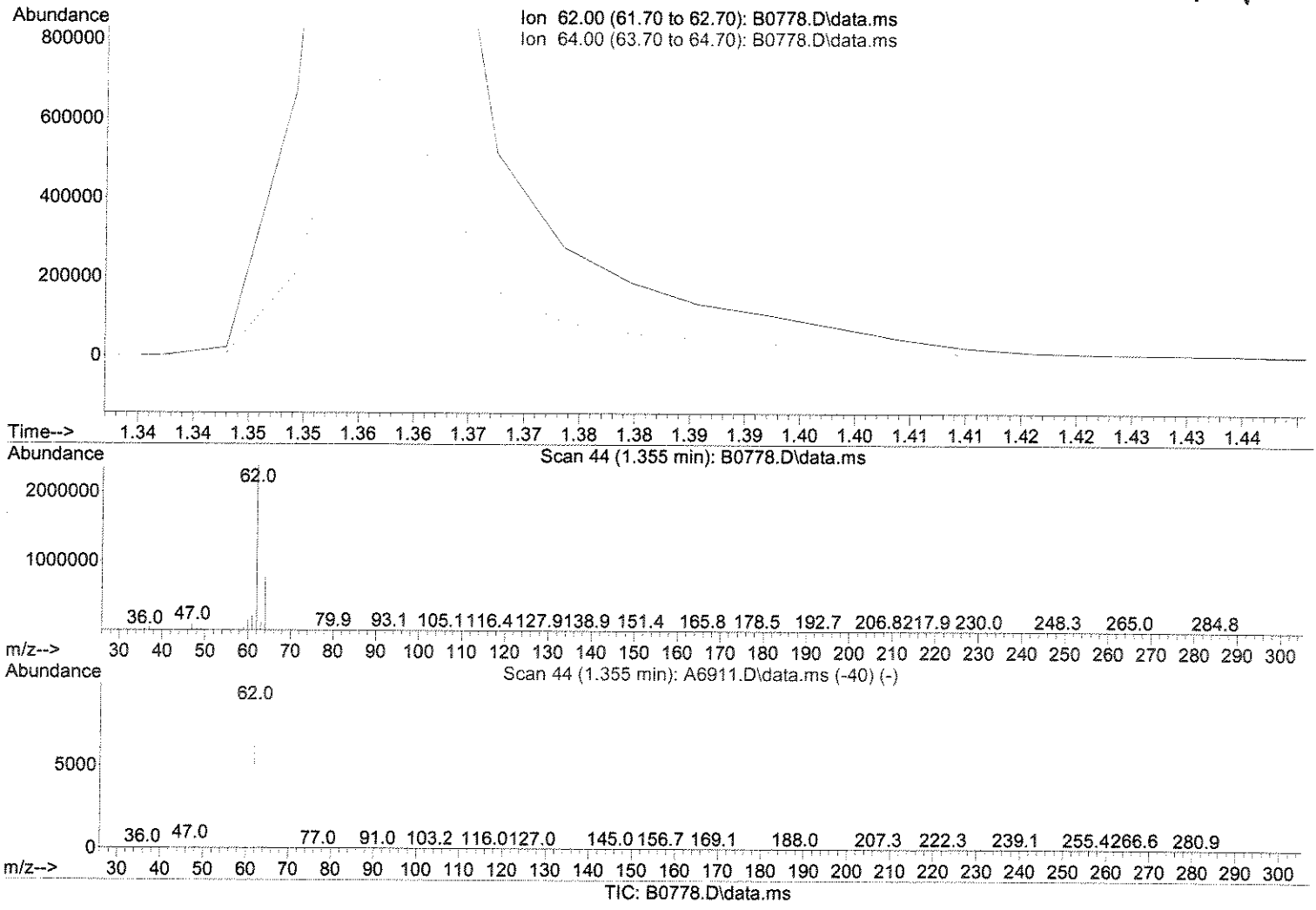
Quantitation Report (Qedit)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

FW 6/3/08

B missed peak DJ 7/12



(5) Vinyl Chloride (c)

1.355min (-1.355) 0.00 ug/L

response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

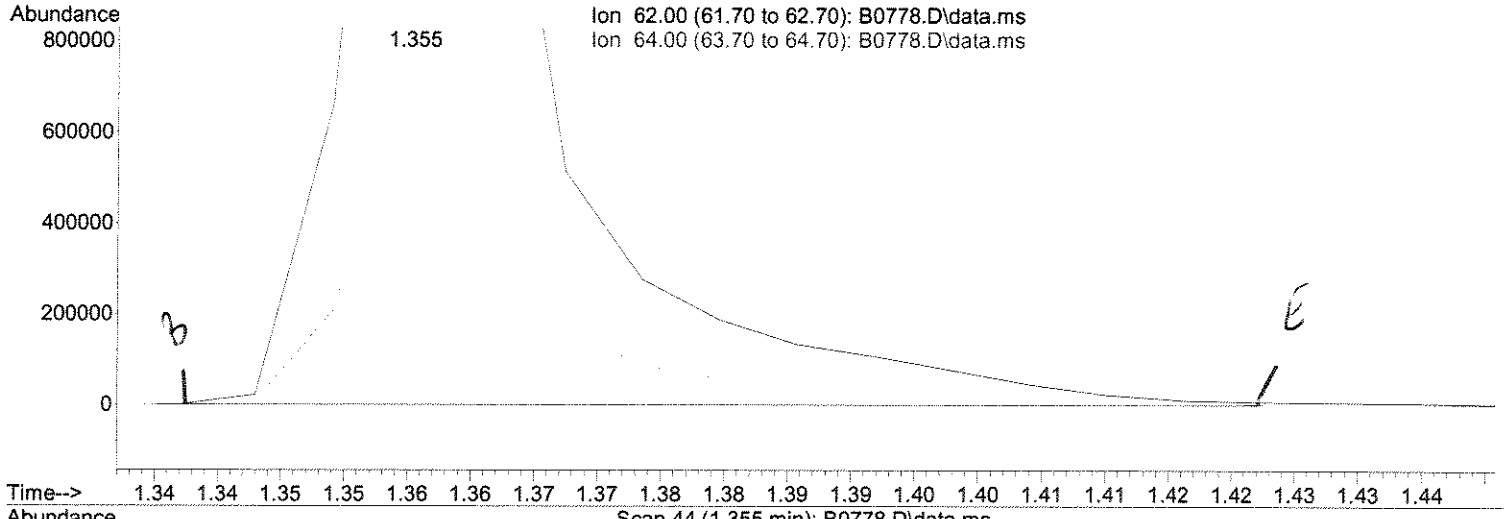
Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

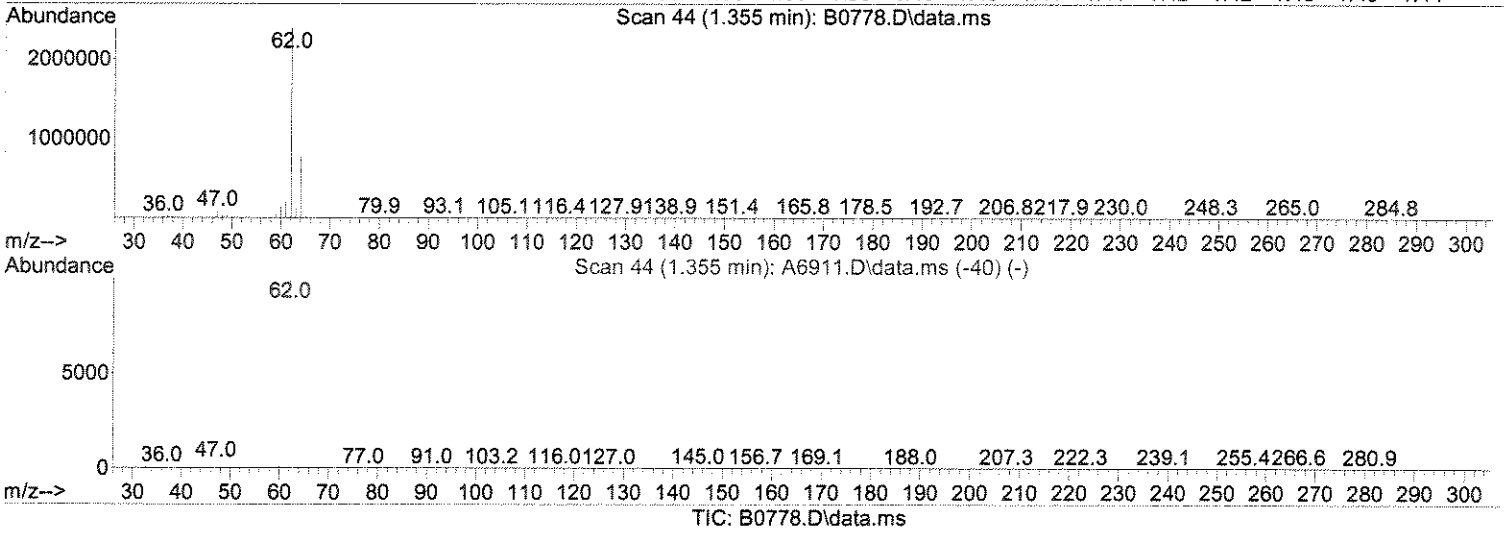
FJ 6/30/08

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A

DL 7/14





(5) Vinyl Chloride (c)

1.355min (+0.000) 195.89 ug/L m

response 2188294

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	31.80
0.00	0.00	0.00
0.00	0.00	0.00

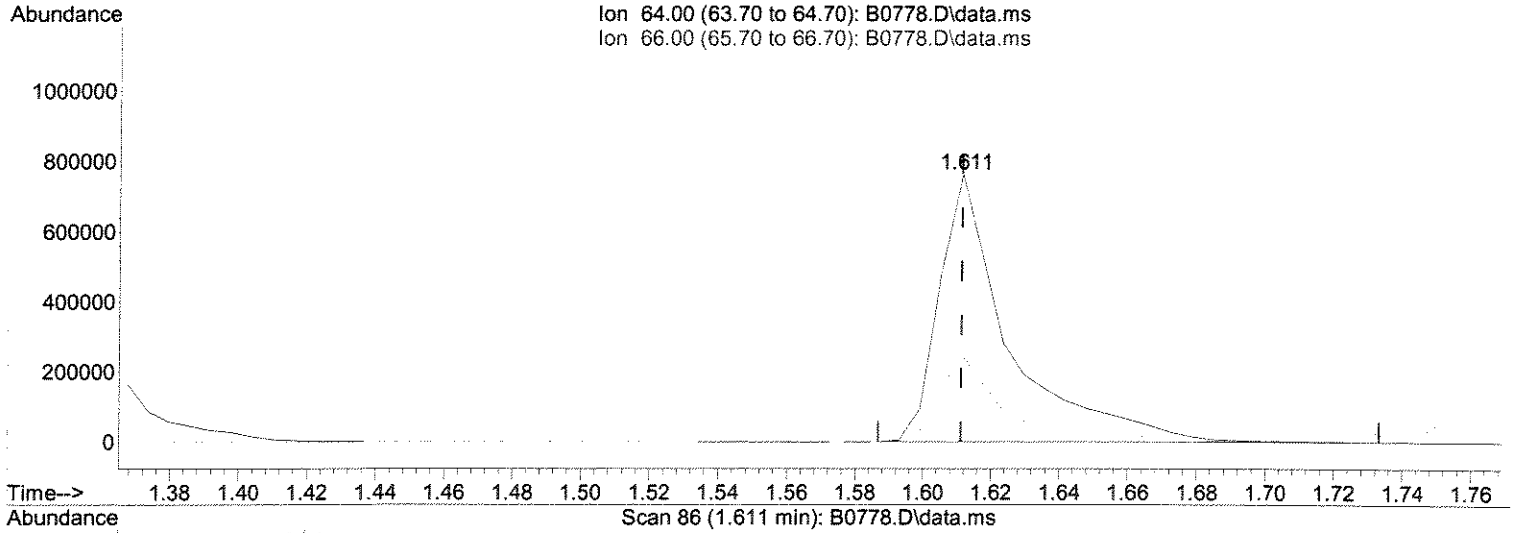
Quantitation Report (Qedit)

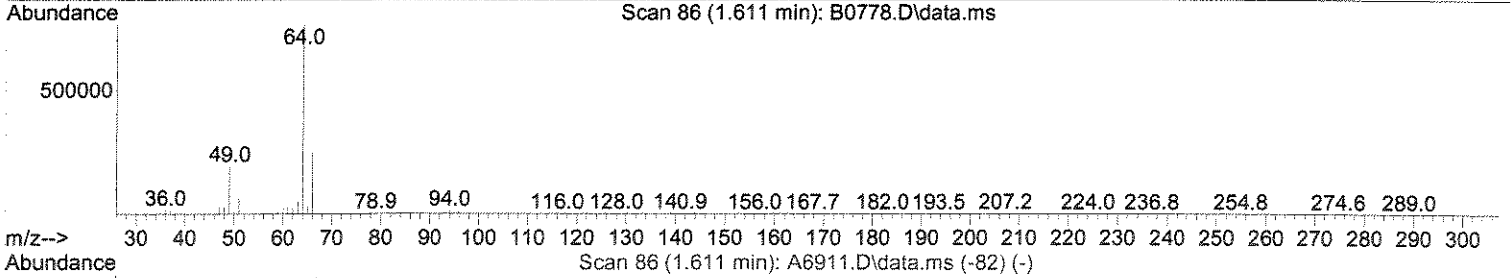
Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

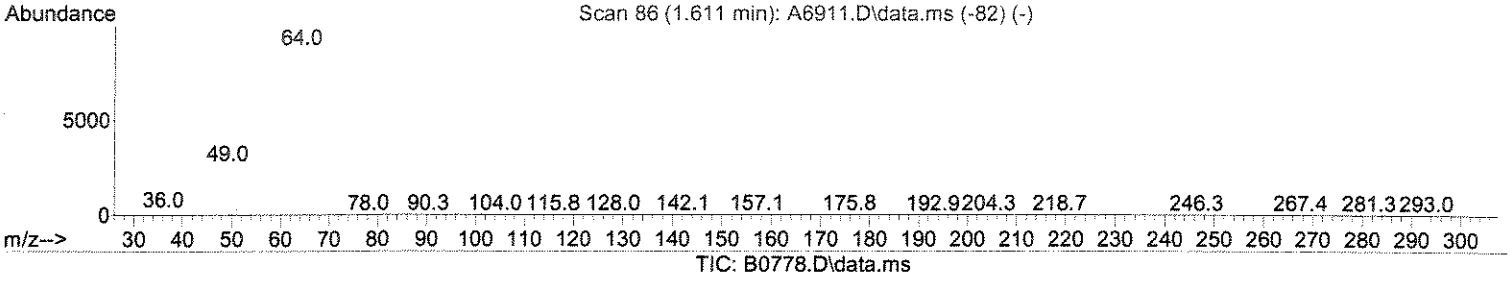
Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

FJ 6/30/08

B bnd int.







TIC: B0778.D\data.ms

(7) Chloroethane

1.611min (+0.000) 175.21 ug/L

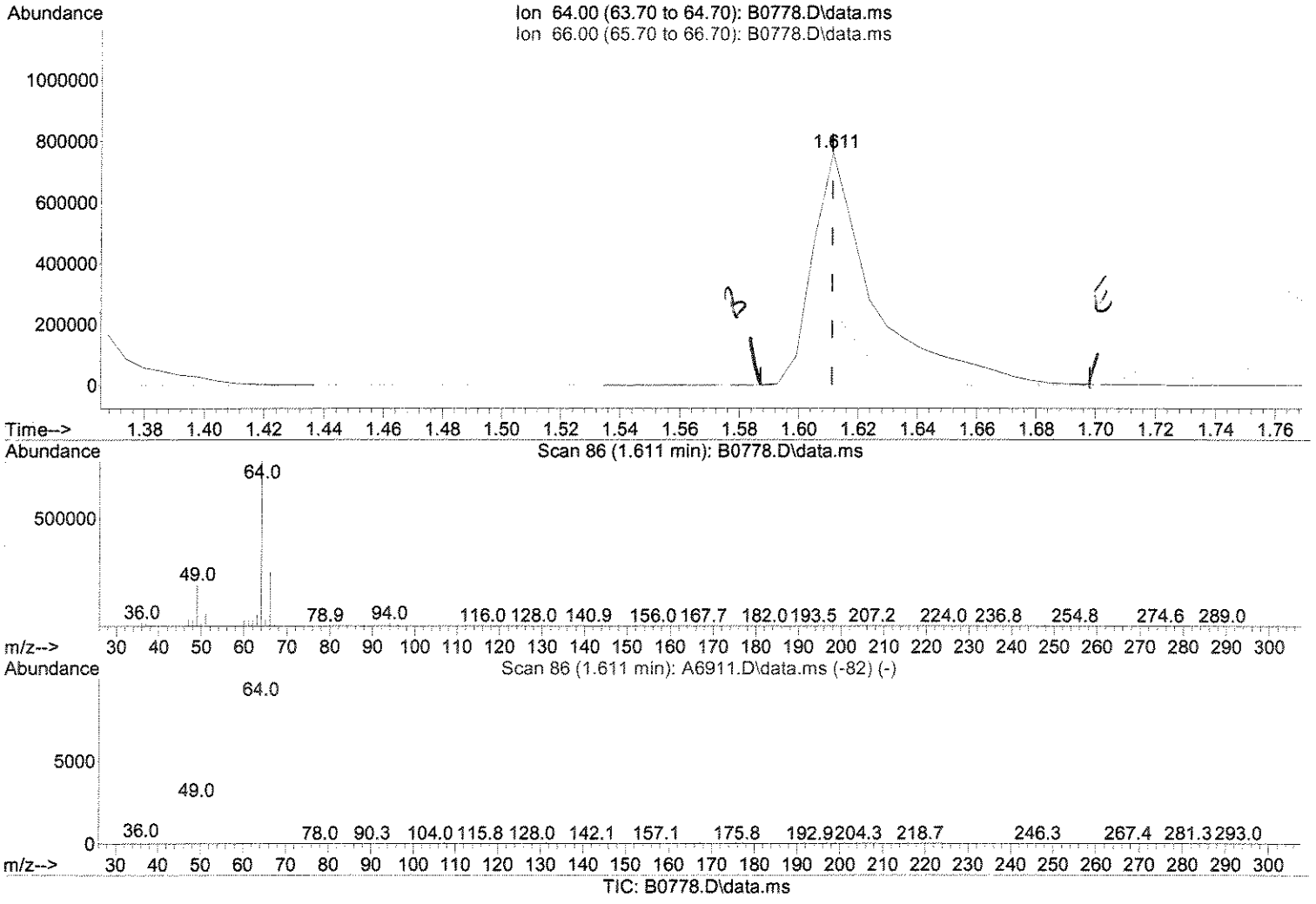
response 1089830

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	32.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



TIC: B0778.D\data.ms

(7) Chloroethane

1.611min (+0.000) 174.92 ug/L m

response 1088015

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	32.55
0.00	0.00	0.00
0.00	0.00	0.00

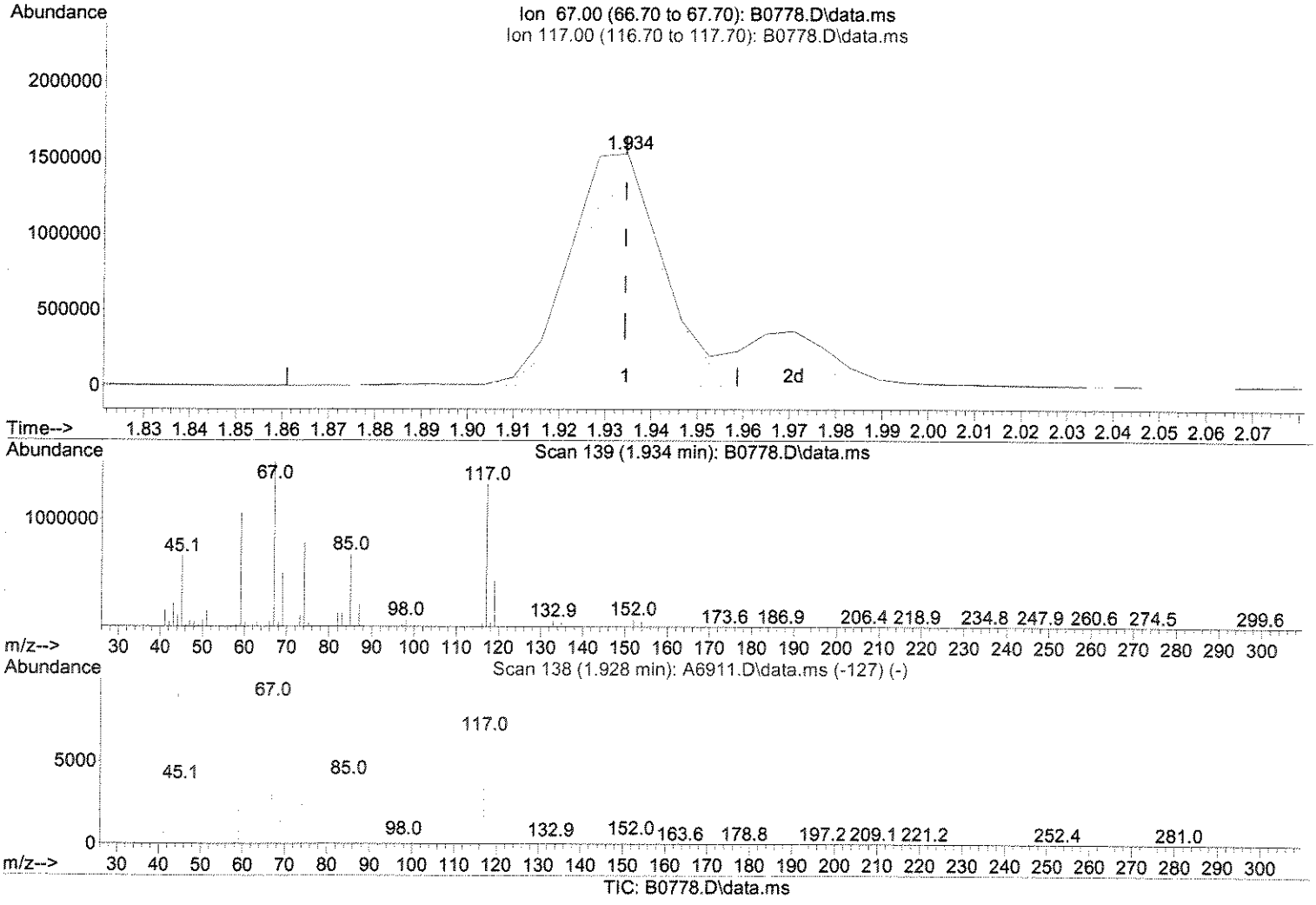
Quantitation Report (Qedit)

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FD 6/30/08

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

B bad int



(11) Freon 123a

1.934min (+0.000) 178.01 ug/L

response 2262338

Ion	Exp%	Act%
67.00	100	100
117.00	84.30	86.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

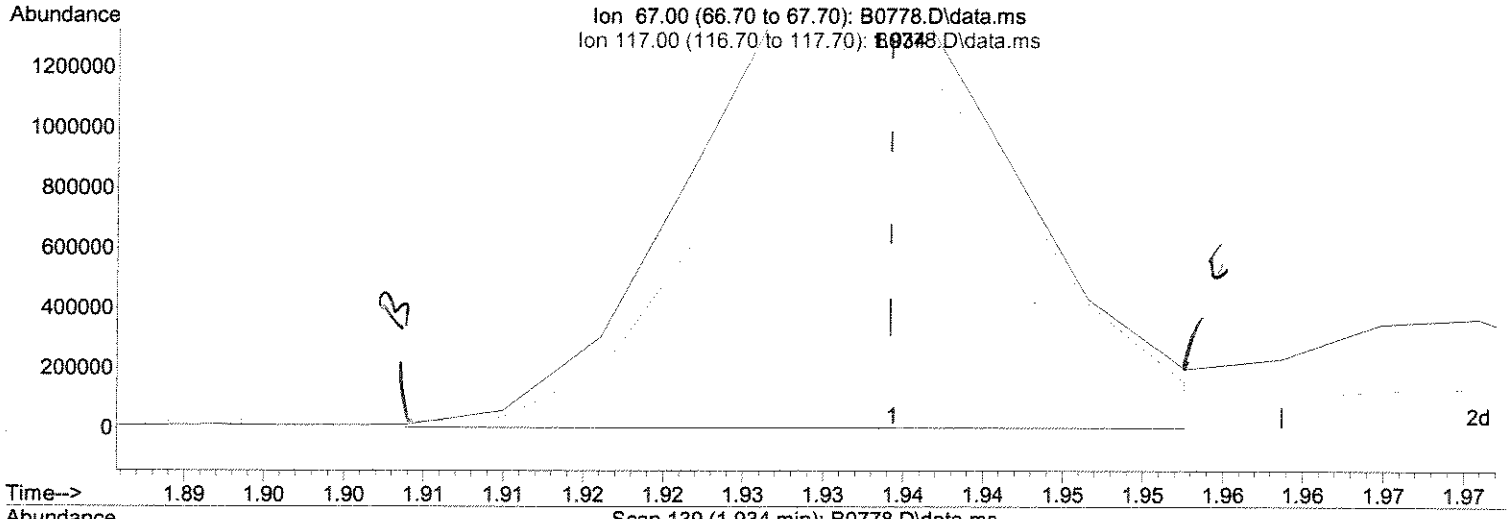
Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

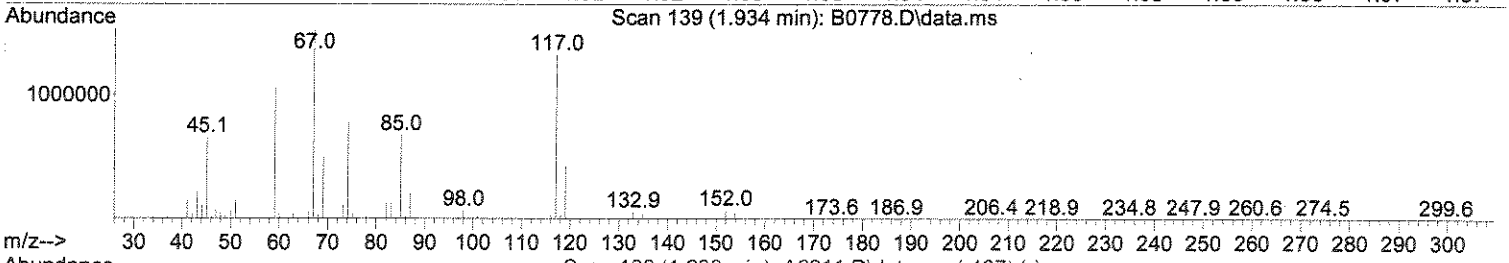
Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

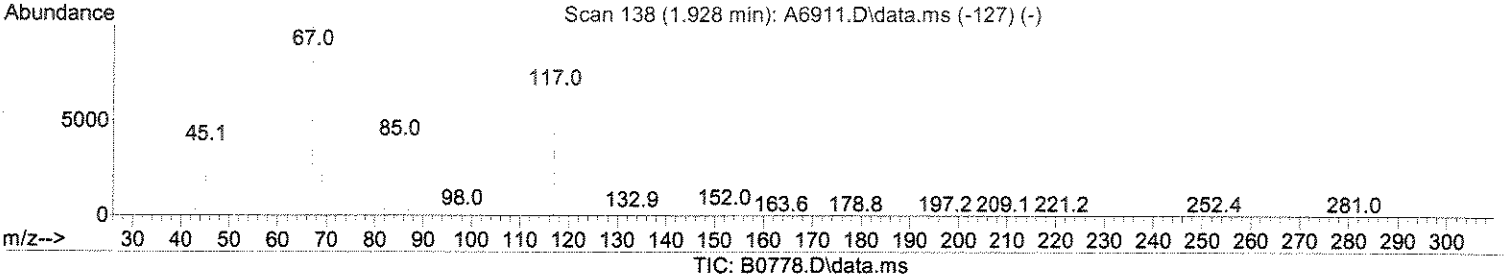
FN 6/30/08

A

DL 7/10







TIC: B0778.D\data.ms

(11) Freon 123a

1.934min (+0.000) 170.34 ug/L m

response 2164815

Ion	Exp%	Act%
67.00	100	100
117.00	84.30	86.53
0.00	0.00	0.00
0.00	0.00	0.00

00200

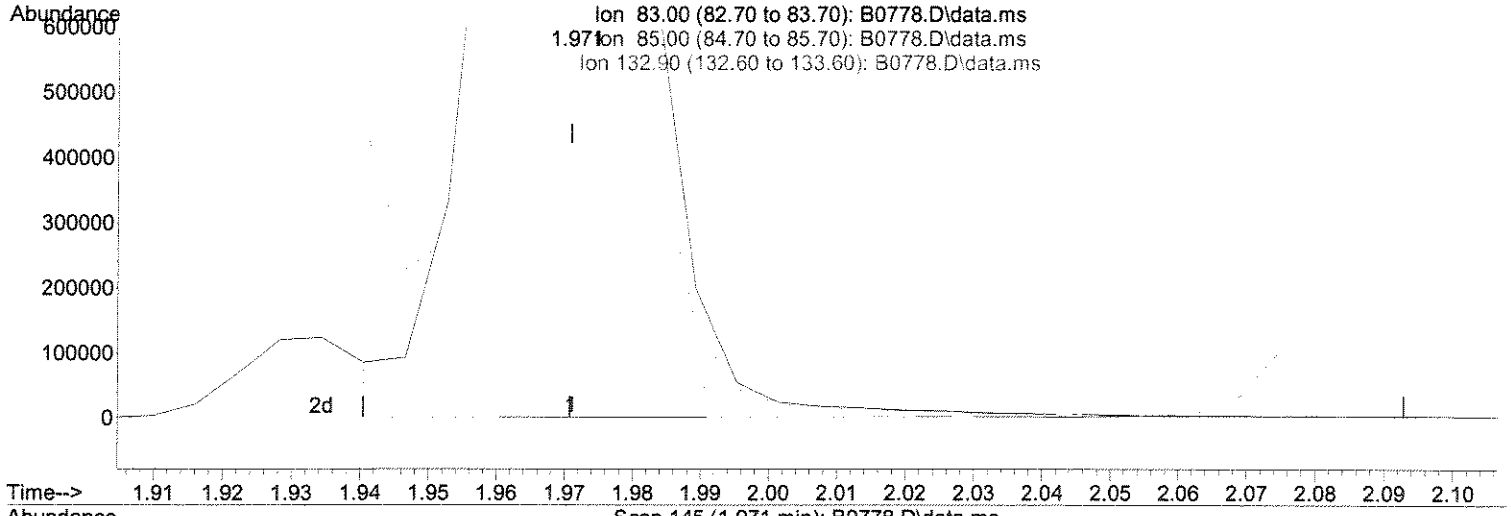
Quantitation Report (Qedit)

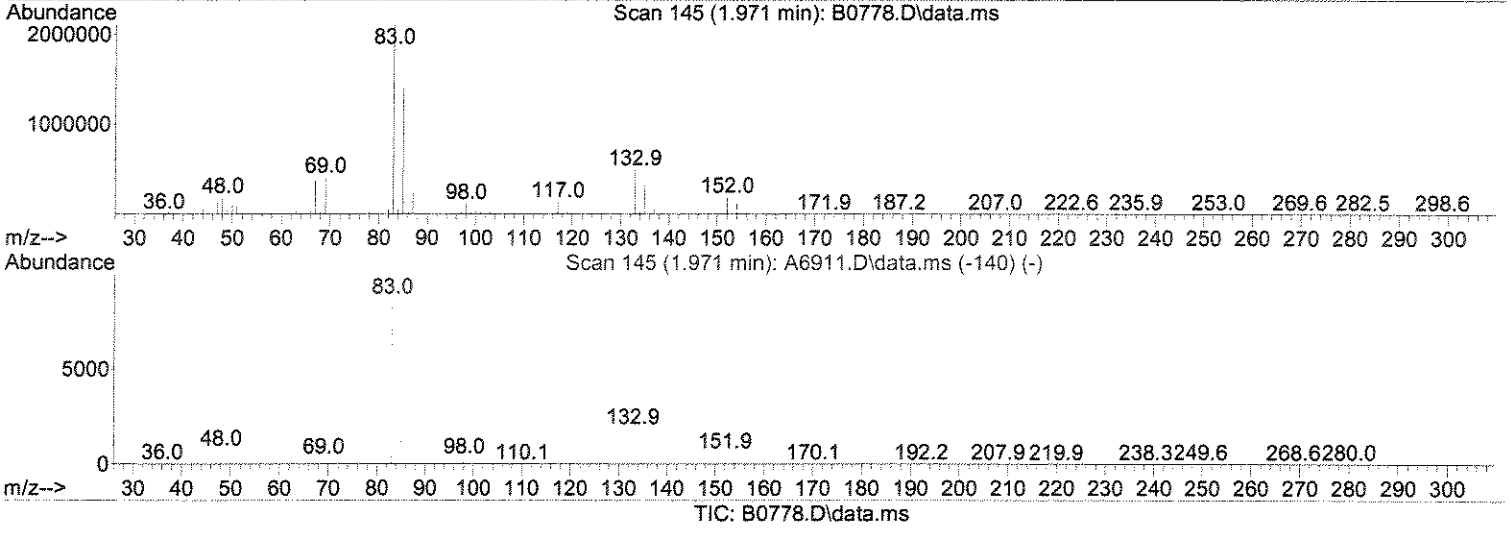
Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

FV 6/30/08

B ~~before~~ bad int.





(12) Freon 123

1.971min (+0.000) 189.14 ug/L

response 2896732

Ion	Exp%	Act%
83.00	100	100
85.00	65.50	66.60
132.90	24.20	23.39
0.00	0.00	0.00

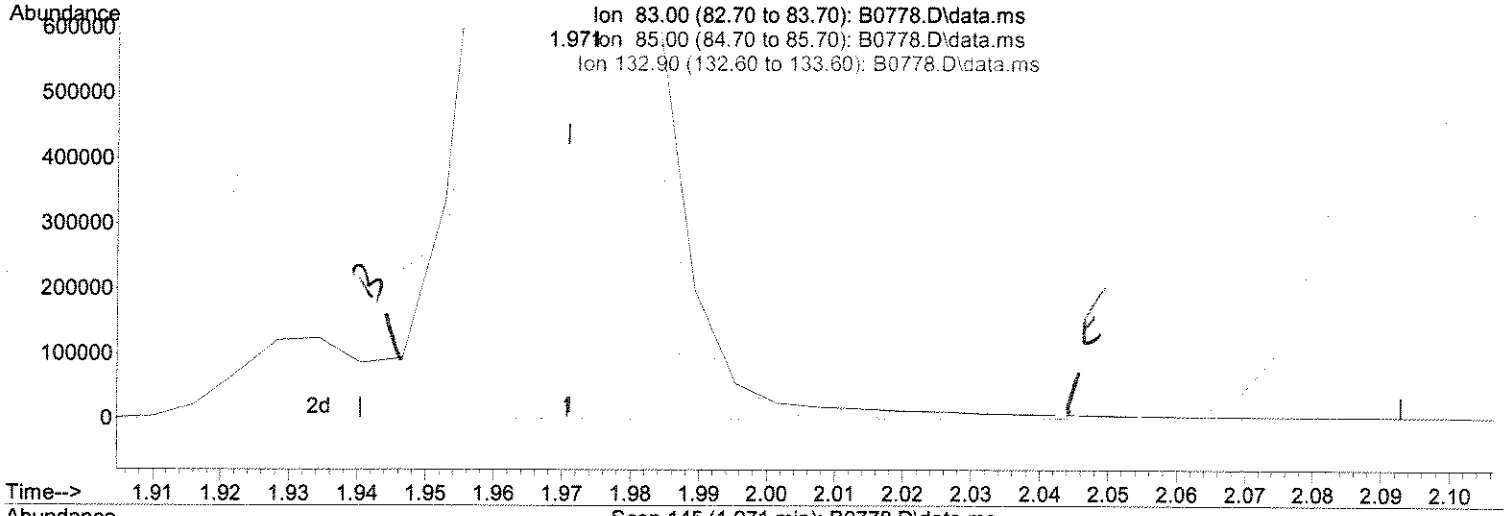
Quantitation Report (Qedit)

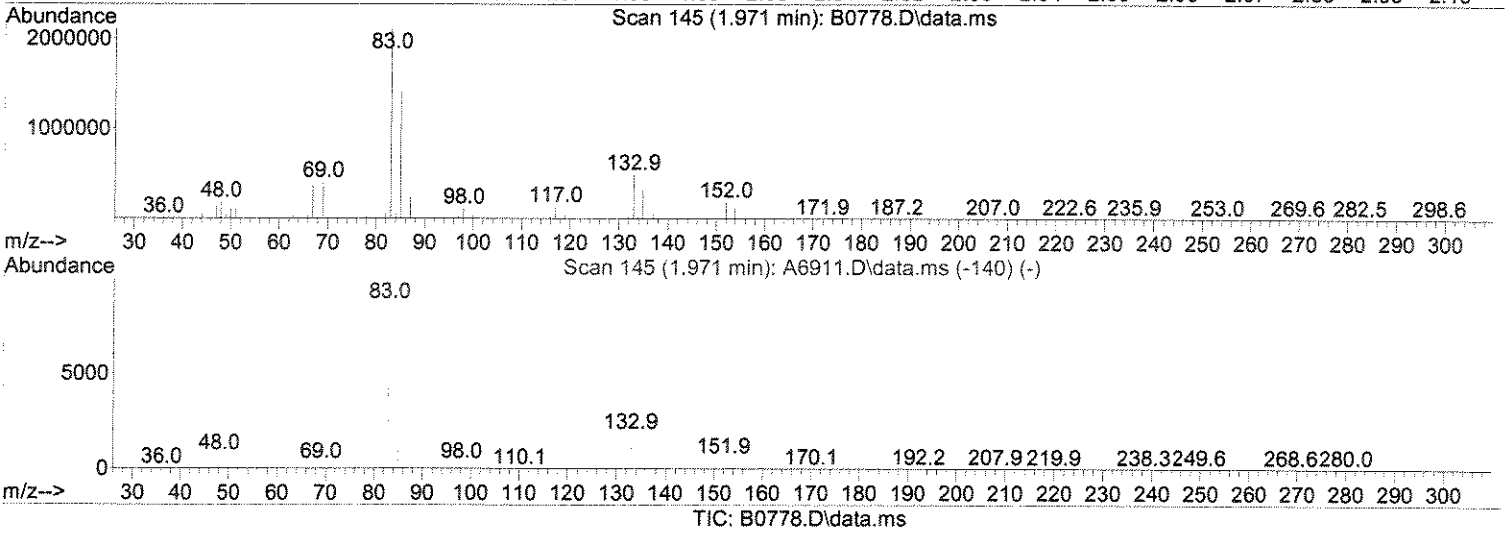
Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 6/30/08

Quant Time: Jun 30 08:42:05 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration

A 07/08





(12) Freon 123

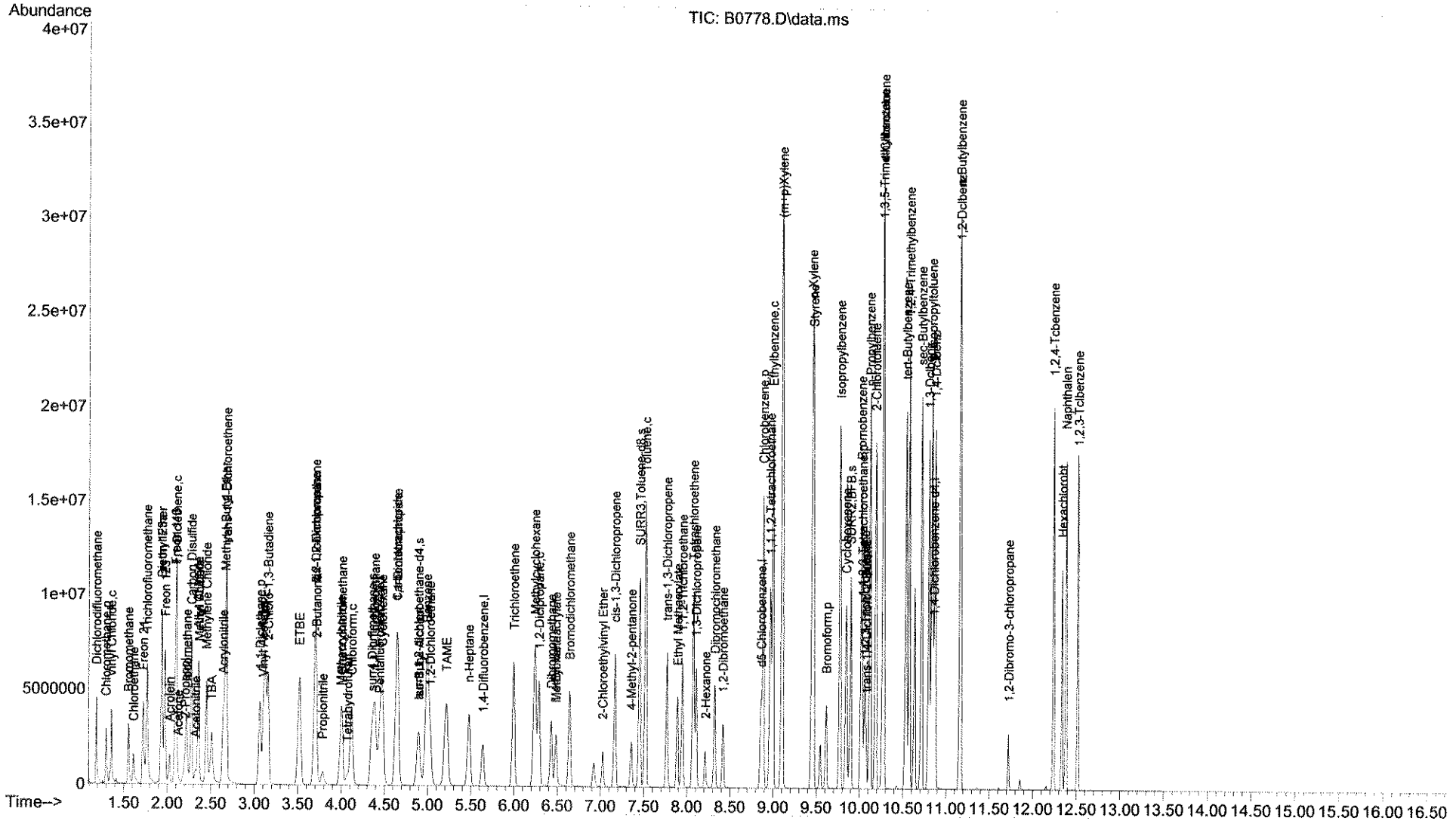
1.971min (+0.000) 187.49 ug/L m

response 2871568

Ion	Exp%	Act%
83.00	100	100
85.00	65.50	66.60
132.90	24.20	23.39
0.00	0.00	0.00

Sample : 200 PPB STD
Data File : J:\ACQUDATA\msvoa10\data\062608\B0778.D Vial: 12
Acq On : 26 Jun 2008 5:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jun 30 09:40:06 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 08:42:00 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN 7/17/08

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	114	0.00
2		Dichlorodifluoromethane	0.400	0.400	0.0	107	0.00
3		Freon 114	0.000	0.000	0.0	107	0.00
4	p	Chloromethane	0.371	0.352	5.1	104	0.00
5	c	Vinyl Chloride	0.383	0.382	0.3	108	0.00
6		Bromomethane	0.274	0.257	6.2	109	0.00
7		Chloroethane	0.213	0.216	-1.4	117	0.00
8		Freon 21	0.718	0.713	0.7	109	0.00
9		Trichlorofluoromethane	0.670	0.635	5.2	105	0.00
10		Diethyl Ether	0.226	0.209	7.5	105	0.00
11		Freon 123a	0.434	0.435	-0.2	110	0.00
12		Freon 123	0.524	0.559	-6.7	118	0.00
13		Acrolein	0.030	0.022	26.7#	78	0.00
14	c	1,1-Diclethene	0.337	0.381	-13.1	125	0.00
15		Freon 113	0.360	0.394	-9.4	124	0.00
16		Acetone	0.062	0.058	6.5	114	0.00
17		2-Propanol	0.013	0.011	15.4	101	0.00
18		Iodomethane	0.505	0.671	-32.9#	131	0.00
19		Carbon Disulfide	1.293	1.420	-9.8	121	0.00
20		Acetonitrile	0.009	0.009	0.0	112	0.00
21		Allyl Chloride	0.188	0.230	-22.3#	133	0.00
22		Methyl Acetate	0.180	0.186	-3.3	111	0.00
23		Methylene Chloride	0.419	0.447	-6.7	129	0.00
24		TBA	0.021	0.019	9.5	97	0.00
25		Acrylonitrile	0.085	0.089	-4.7	110	0.00
26		Methyl-t-Butyl Ether	0.854	0.916	-7.3	113	0.00
27		trans-1,2-Dichloroethene	0.386	0.449	-16.3	130	0.00
28	p	1,1-Diclethane	0.712	0.748	-5.1	118	0.00
29		Vinyl Acetate	0.039	0.036	18.1 ~~7.7~~	98	0.00
30		DIPE	1.037	1.048	-1.1	105	0.00
31		2-Chloro-1,3-Butadiene	0.552	0.549	0.5	100	0.00
32		ETBE	0.966	1.019	-5.5	109	0.00
33		2,2-Dichloropropane	0.508	0.543	-6.9	113	0.00
34		cis-1,2-Dichloroethene	0.417	0.483	-15.8	129	0.00
35		2-Butanone	0.103	0.090	12.6	97	0.00
36		Ethyl Acetate	0.000	0.000	0.0	97	0.00
37		Propionitrile	0.032	0.033	-3.1	115	0.00
38		Bromochloromethane	0.261	0.288	-10.3	126	0.00
39		Methacrylonitrile	0.089	0.111	-24.7#	132	0.00
40		Tetrahydrofuran	0.059	0.055	6.8	105	0.00
41	c	Chloroform	0.725	0.764	-5.4	118	0.00
42		1,1,1-Trichloroethane	0.649	0.642	1.1	110	0.00
43		TAME	0.798	0.872	-9.3	114	0.00
44	I	1,4-Difluorobenzene	1.000	1.000	0.0	120	0.00
45		Cyclohexane	0.209	0.179	14.4	99	0.00
46	s	surr4,Dibrflmethane	0.297	0.306	8.5 ~~-3.0~~	115	0.00
47		Carbontetrachloride	0.124	0.114	8.1	108	0.00

Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/17/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dr.ft	%Dev	Area%	Dev(min)
48		1,1-Dichloropropene	0.354	0.361		-2.0	119	0.00
49	s	surr1,1,2-dichloroethane-d4	0.314	0.274		12.7	98	0.00
50		Benzene	1.007	1.098		-9.0	129	0.00
51		1,2-Dichloroethane	0.348	0.304		12.6	104	0.00
52		Iso-Butyl Alcohol	0.006	0.004	28.2	~~33.3#~~	86	0.00
53		n-Heptane	0.206	0.198		3.9	107	0.00
54		Trichloroethene	0.277	0.287		-3.6	125	0.00
55		Methylcyclohexane	0.302	0.303		-0.3	109	0.00
56	c	1,2-Diclpropane	0.251	0.273		-8.8	125	0.00
57		Dibromomethane	0.147	0.145		1.4	117	0.00
58		1,4-Dioxane	0.002	0.002		0.0	104	0.00
59		Methyl Methacrylate	0.098	0.117	-3.8	~~19.4~~	126	0.00
60		Bromodichloromethane	0.361	0.351		2.8	114	0.00
61		2-Nitropropane	0.000	0.000		0.0	82	0.00
62		2-Chloroethylvinyl Ether	0.074	0.119	-35.1	~~60.8#~~	156	0.00
63		cis-1,3-Dichloropropene	0.377	0.414		-9.8	118	0.00
64		4-Methyl-2-pentanone	0.139	0.115		17.3	92	0.00
65	s	SURR3,Toluene-d8	1.088	1.195		-9.8	122	0.00
66	c	Toluene	1.101	1.172		-6.4	126	0.00
67		trans-1,3-Dichloropropene	0.324	0.344		-6.2	112	0.00
68		Ethyl Methacrylate	0.191	0.247	-5.6	~~29.3#~~	128	0.00
69		1,1,2-Trichloroethane	0.194	0.208		-7.2	122	0.00
70	s	SURR2,BFB	0.448	0.513		-14.5	128	0.00
71	I	d5-Chlorobenzene	1.000	1.000		0.0	129	0.00
72		Tetrachloroethene	0.249	0.237		4.8	121	0.00
73		2-Hexanone	0.110	0.081		26.4#	91	0.00
74		1,3-Dichloropropane	0.379	0.366		3.4	119	0.00
75		Dibromochloromethane	0.286	0.266		7.0	112	0.00
76		1,2-Dibromoethane	0.222	0.212		4.5	116	0.00
77	p	Chlorobenzene	0.832	0.821		1.3	126	0.00
78		1,1,1,2-Tetrachloroethane	0.297	0.285		4.0	119	0.00
79	c	Ethylbenzene	0.420	0.430		-2.4	124	0.00
80		(m+p)Xylene	0.508	0.534		-5.1	126	0.00
81		o-Xylene	0.485	0.520		-7.2	125	0.00
82		Styrene	0.829	0.887		-7.0	124	0.00
83	p	Bromoform	0.175	0.161		8.0	109	0.00
84		Isopropylbenzene	1.253	1.275		-1.8	118	0.00
85		Cyclohexanone	0.023	0.019		17.4	99	0.00
86		trans-1,4-Dichloro-2-Butene	0.045	0.052		-15.6	144	0.00
87	I	1,4-Dichlorobenzene-d4	1.000	1.000		0.0	129	0.00
88	p	1,1,2,2-Tetrachloroethane	0.462	0.433		6.3	116	0.00
89		Bromobenzene	0.638	0.615		3.6	123	0.00
90		4-Ethyltoulene	0.000	0.000		0.0	120	0.00
91		1,2,3-Trichloropropane	0.138	0.119		13.8	108	0.00
92		n-Propylbenzene	2.763	2.803		-1.4	121	0.00
93		2-Chlorotoluene	1.730	1.683		2.7	120	0.00

Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN 7/17/08

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D.H %Dev	Area%	Dev(min)
94	4-Chlorotoluene	2.043	1.968	3.7	118	0.00
95	1,3,5-Trimethylbenzene	1.970	1.948	1.1	117	0.00
96	tert-Butylbenzene	1.613	1.609	0.2	116	0.00
97	1,2,4-Trimethylbenzene	2.037	2.046	-0.4	118	0.00
98	sec-Butylbenzene	2.361	2.378	-0.7	118	0.00
99	p-Isopropyltoluene	2.058	2.043	0.7	118	0.00
100	1,3-Dclbenz	1.259	1.207	4.1	121	0.00
101	1,4-Dclbenz	1.303	1.224	6.1	120	0.00
102	Benzyl Chloride	0.000	0.000	0.0	74	0.00
103	n-Butylbenzene	1.781	1.798	-1.0	117	0.00
104	1,2-Dclbenz	1.186	1.134	4.4	119	0.00
105	1,2-Dibromo-3-chloropropane	0.101	0.085	15.8	101	0.00
106	Nitrobenzene	0.000	0.000	0.0	96	0.00
107	1,2,4-Tcbenzene	0.809	0.786	2.8	115	0.00
108	Hexachlorobt	0.329	0.288	12.5	110	0.00
109	Naphthalen	1.534	1.548	12.4 ~~-0.9~~	108	0.00
110	1,2,3-Tclbenzene	0.741	0.699	5.7	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FN 7/17/08

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1472466	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.635	114	2387515	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	2329582	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1329444	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	730296	45.74	ug/L		0.00
Spiked Amount 50.000			Recovery =	91.48%			
49) surr1,1,2-dichloroetha...	4.891	65	653086	43.52	ug/L		0.00
Spiked Amount 50.000			Recovery =	87.04%			
65) SURR3,Toluene-d8	7.445	98	2853788	54.91	ug/L		0.00
Spiked Amount 50.000			Recovery =	109.82%			
70) SURR2,BFB	9.896	95	1223828	57.18	ug/L		0.00
Spiked Amount 50.000			Recovery =	114.36%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.178	85	589362	50.06	ug/L		99
4) Chloromethane	1.294	50	517711	47.35	ug/L		98
5) Vinyl Chloride	1.355	62	562461	49.84	ug/L		99
6) Bromomethane	1.556	94	378389	46.94	ug/L		99
7) Chloroethane	1.611	64	318408	50.73	ug/L		98
8) Freon 21	1.721	67	1049402	49.63	ug/L		100
9) Trichlorofluoromethane	1.764	101	934729	47.36	ug/L		100
10) Diethyl Ether	1.934	59	308244	46.32	ug/L		93
11) Freon 123a	1.928	67	641075	50.20	ug/L		96
12) Freon 123	1.965	83	823644	53.34	ug/L		98
13) Acrolein	2.026	56	161796	185.02	ug/L		94
14) 1,1-Diclethene	2.099	96	560838	56.45	ug/L		91
15) Freon 113	2.093	101	580586	54.72	ug/L		99
16) Acetone	2.123	43	86102	47.39	ug/L		84
17) 2-Propanol	2.196	45	337301	873.08	ug/L		97
18) Iodomethane	2.215	142	987585	66.35	ug/L		93
19) Carbon Disulfide	2.276	76	2090331	54.88	ug/L		99
20) Acetonitrile	2.318	40	62811	247.10	ug/L		93
21) Allyl Chloride	2.355	76	339255	61.26	ug/L	#	67
22) Methyl Acetate	2.355	43	274000	51.61	ug/L		92
23) Methylene Chloride	2.446	84	658394	53.39	ug/L		88
24) TBA	2.507	59	559187	912.29	ug/L		95
25) Acrylonitrile	2.635	53	654540	261.32	ug/L		98
26) Methyl-t-Butyl Ether	2.666	73	1348457	53.59	ug/L		100
27) trans-1,2-Dichloroethene	2.672	96	660985	58.10	ug/L		93
28) 1,1-Diclethane	3.062	63	1101098	52.55	ug/L		98
29) Vinyl Acetate	3.099	86	53389	40.97	ug/L		70
30) DIPE	3.117	45	1543541	50.56	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.154	53	808079	49.69	ug/L		81
32) ETBE	3.513	59	1500340	52.75	ug/L		97
33) 2,2-Dichloropropane	3.702	77	799667	53.42	ug/L		97
34) cis-1,2-Dichloroethene	3.696	96	711887	57.97	ug/L		90
35) 2-Butanone	3.708	43	132846	43.60	ug/L	#	91
37) Propionitrile	3.788	54	242850	257.76	ug/L		98
38) Bromochloromethane	4.007	130	424514	55.21	ug/L		91

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.989	67	163419	62.16	ug/L	#	77
40) Tetrahydrofuran	4.074	42	80409	45.96	ug/L		90
41) Chloroform	4.117	83	1124788	52.65	ug/L		97
42) 1,1,1-Trichloroethane	4.385	97	944627	49.45	ug/L		98
43) TAME	5.208	73	1283607	54.61	ug/L		94
45) Cyclohexane	4.464	41	427646	42.84	ug/L		96
47) Carbontetrachloride	4.641	121	271836	46.03	ug/L		93
48) 1,1-Dichloropropene	4.641	75	862862	51.01	ug/L		97
50) Benzene	4.989	78	2621681	54.50	ug/L		94
51) 1,2-Dichloroethane	5.025	62	725434	43.68	ug/L		99
52) Iso-Butyl Alcohol	4.891	43	213833	718.12	ug/L		94
53) n-Heptane	5.476	43	472697	48.01	ug/L		89
54) Trichloroethene	5.995	130	686223	51.96	ug/L		98
55) Methylcyclohexane	6.232	55	722398	50.06	ug/L		87
56) 1,2-Diclpropane	6.281	63	651830	54.40	ug/L		98
57) Dibromomethane	6.427	93	346618	49.53	ug/L		98
58) 1,4-Dioxane	6.476	88	85643	895.07	ug/L		96
59) Methyl Methacrylate	6.482	69	280291	51.90	ug/L		85
60) Bromodichloromethane	6.641	83	837328	48.58	ug/L		100
62) 2-Chloroethylvinyl Ether	7.025	63	283503	67.56	ug/L		98
63) cis-1,3-Dichloropropene	7.165	75	988117	54.95	ug/L		98
64) 4-Methyl-2-pentanone	7.354	43	273906	41.25	ug/L		92
66) Toluene	7.519	91	2799331	53.24	ug/L		99
67) trans-1,3-Dichloropropene	7.769	75	822143	53.10	ug/L		98
68) Ethyl Methacrylate	7.884	69	589400	52.78	ug/L		86
69) 1,1,2-Trichloroethane	7.945	97	495855	53.41	ug/L		98
72) Tetrachloroethene	8.073	164	552424	47.55	ug/L		100
73) 2-Hexanone	8.214	43	189192	36.79	ug/L		91
74) 1,3-Dichloropropane	8.104	76	851730	48.19	ug/L		91
75) Dibromochloromethane	8.317	129	619703	46.58	ug/L		99
76) 1,2-Dibromoethane	8.415	107	494304	47.86	ug/L		99
77) Chlorobenzene	8.884	112	1913468	49.38	ug/L		98
78) 1,1,1,2-Tetrachloroethane	8.963	131	663413	47.95	ug/L		97
79) Ethylbenzene	8.994	106	1001338	51.20	ug/L		93
80) (m+p)Xylene	9.098	106	2490049	105.14	ug/L		98
81) o-Xylene	9.445	106	1210474	53.52	ug/L		95
82) Styrene	9.463	104	2066005	53.48	ug/L		97
83) Bromoform	9.616	173	374447	45.89	ug/L		99
84) Isopropylbenzene	9.768	105	2970105	50.88	ug/L		99
85) Cyclohexanone	9.841	55	885176	837.18	ug/L		89
86) trans-1,4-Dichloro-2-B...	10.073	53	121461	57.84	ug/L	#	85
88) 1,1,2,2-Tetrachloroethane	10.024	83	576304	46.94	ug/L		97
89) Bromobenzene	10.018	156	817559	48.16	ug/L		99
91) 1,2,3-Trichloropropane	10.055	110	157639	42.98	ug/L		96
92) n-Propylbenzene	10.116	91	3726868	50.73	ug/L		99
93) 2-Chlorotoluene	10.183	91	2237718	48.66	ug/L		97
94) 4-Chlorotoluene	10.274	91	2616971	48.18	ug/L		96
95) 1,3,5-Trimethylbenzene	10.262	105	2590358	49.45	ug/L		97
96) tert-Butylbenzene	10.530	119	2138744	49.87	ug/L		98
97) 1,2,4-Trimethylbenzene	10.573	105	2720109	50.22	ug/L		98
98) sec-Butylbenzene	10.713	105	3161363	50.35	ug/L		99
99) p-Isopropyltoluene	10.829	119	2716527	49.65	ug/L		98

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

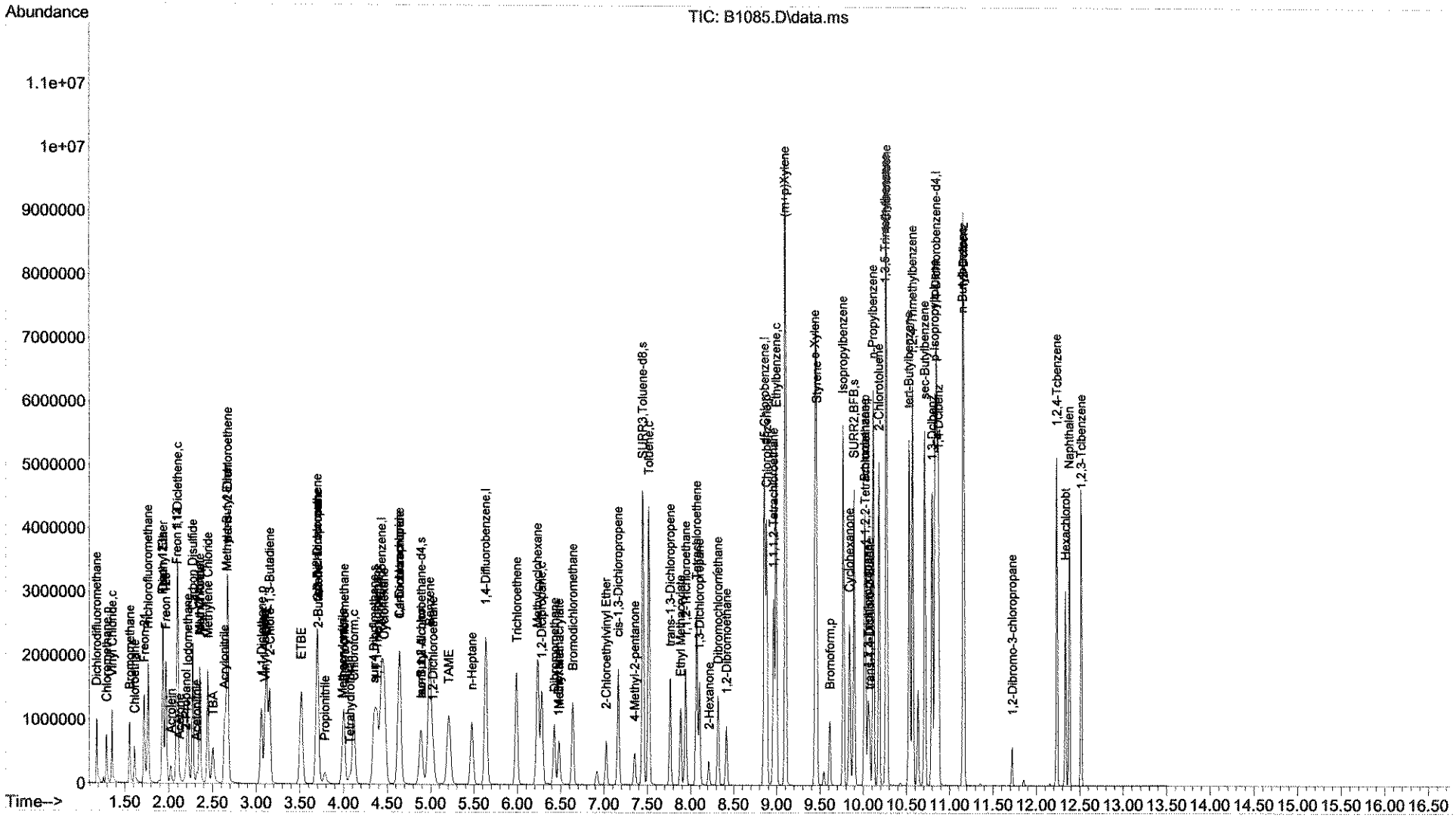
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1604231	47.91	ug/L	99
101) 1,4-Dclbenz	10.872	146	1626944	46.96	ug/L	99
103) n-Butylbenzene	11.152	91	2390444	50.49	ug/L	99
104) 1,2-Dclbenz	11.164	146	1507709	47.82	ug/L	100
105) 1,2-Dibromo-3-chloropr...	11.719	157	112885	42.13	ug/L	98
107) 1,2,4-Tcbenzene	12.237	180	1044943	48.56	ug/L	98
108) Hexachlorobt	12.335	225	382462	43.77	ug/L	98
109) Naphthalen	12.377	128	2058196	43.81	ug/L	99
110) 1,2,3-Tclbenzene	12.518	180	929791	47.17	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1085.D Vial: 1
Acq On : 14 Jul 2008 2:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:06:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 7/18/08

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Drift%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2		Dichlorodifluoromethane	0.400	0.419	-4.7	101	0.00
3		Freon 114	0.000	0.000	0.0	101	0.00
4	p	Chloromethane	0.371	0.365	1.6	97	0.00
5	c	Vinyl Chloride	0.383	0.397	-3.7	101	0.00
6		Bromomethane	0.274	0.265	3.3	101	0.00
7		Chloroethane	0.213	0.228	-7.0	111	0.00
8		Freon 21	0.718	0.730	-1.7	101	0.00
9		Trichlorofluoromethane	0.670	0.668	0.3	100	0.00
10		Diethyl Ether	0.226	0.215	4.9	97	0.00
11		Freon 123a	0.434	0.451	-3.9	102	0.00
12		Freon 123	0.524	0.571	-9.0	109	0.00
13		Acrolein	0.030	0.020	33.3#	64	0.00
14	c	1,1-Diclethene	0.337	0.396	-17.5	117	0.00
15		Freon 113	0.360	0.415	-15.3	118	0.00
16		Acetone	0.062	0.054	12.9	94	0.00
17		2-Propanol	0.013	0.012	7.7	96	0.00
18		Iodomethane	0.505	0.657	-30.1#	115	0.00
19		Carbon Disulfide	1.293	1.422	-10.0	109	0.00
20		Acetonitrile	0.009	0.010	-11.1	114	0.00
21		Allyl Chloride	0.188	0.238	-26.6#	124	0.00
22		Methyl Acetate	0.180	0.187	-3.9	101	0.00
23		Methylene Chloride	0.419	0.453	-8.1	118	0.00
24		TBA	0.021	0.019	9.5	90	0.00
25		Acrylonitrile	0.085	0.089	-4.7	99	0.00
26		Methyl-t-Butyl Ether	0.854	0.912	-6.8	101	0.00
27		trans-1,2-Dichloroethene	0.386	0.456	-18.1	120	0.00
28	p	1,1-Diclethane	0.712	0.776	-9.0	111	0.00
29		Vinyl Acetate	0.039	0.039	12.6 ~~0.0~~	95	0.00
30		DIPE	1.037	1.081	-4.2	97	0.00
31		2-Chloro-1,3-Butadiene	0.552	0.550	0.4	91	0.00
32		ETBE	0.966	1.040	-7.7	101	0.00
33		2,2-Dichloropropane	0.508	0.568	-11.8	107	0.00
34		cis-1,2-Dichloroethene	0.417	0.492	-18.0	118	0.00
35		2-Butanone	0.103	0.089	13.6	87	0.00
36		Ethyl Acetate	0.000	0.000	0.0	87	0.00
37		Propionitrile	0.032	0.033	-3.1	103	0.00
38		Bromochloromethane	0.261	0.285	-9.2	112	0.00
39		Methacrylonitrile	0.089	0.112	-25.8#	120	0.00
40		Tetrahydrofuran	0.059	0.056	5.1	98	0.00
41	c	Chloroform	0.725	0.779	-7.4	109	0.00
42		1,1,1-Trichloroethane	0.649	0.663	-2.2	103	0.00
43		TAME	0.798	0.884	-10.8	104	0.00
44	I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
45		Cyclohexane	0.209	0.181	13.4	91	0.00
46	s	surr4,Dibrflmethane	0.297	0.305	8.8 ~~-2.7~~	105	0.00
47		Carbontetrachloride	0.124	0.119	4.0	103	0.00

Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/18/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Diff	%Dev	Area%	Dev(min)
48		1,1-Dichloropropene	0.354	0.373		-5.4	112	0.00
49	s	surr1,1,2-dichloroethane-d4	0.314	0.269		14.3	88	0.00
50		Benzene	1.007	1.108		-10.0	119	0.00
51		1,2-Dichloroethane	0.348	0.300		13.8	94	0.00
52		Iso-Butyl Alcohol	0.006	0.004	27.9	~~33.3#~~	79	-0.01
53		n-Heptane	0.206	0.214		-3.9	105	0.00
54		Trichloroethene	0.277	0.293		-5.8	116	0.00
55		Methylcyclohexane	0.302	0.311		-3.0	103	0.00
56	c	1,2-Diclpropane	0.251	0.277		-10.4	115	0.00
57		Dibromomethane	0.147	0.146		0.7	107	0.00
58		1,4-Dioxane	0.002	0.002		0.0	97	0.00
59		Methyl Methacrylate	0.098	0.117	-3.1	~~-19.4~~	114	0.00
60		Bromodichloromethane	0.361	0.355		1.7	105	0.00
61		2-Nitropropane	0.000	0.000		0.0	79	0.00
62		2-Chloroethylvinyl Ether	0.074	0.112	-27.8	~~-51.4#~~	134	0.00
63		cis-1,3-Dichloropropene	0.377	0.420		-11.4	110	0.00
64		4-Methyl-2-pentanone	0.139	0.115		17.3	84	0.00
65	s	SURR3,Toluene-d8	1.088	1.203		-10.6	112	0.00
66	c	Toluene	1.101	1.196		-8.6	117	0.00
67		trans-1,3-Dichloropropene	0.324	0.349		-7.7	103	0.00
68		Ethyl Methacrylate	0.191	0.245	-4.8	~~-20.3#~~	116	0.00
69		1,1,2-Trichloroethane	0.194	0.202		-4.1	108	0.00
70	s	SURR2,BFB	0.448	0.522		-16.5	118	0.00
71	I	d5-Chlorobenzene	1.000	1.000		0.0	119	0.00
72		Tetrachloroethene	0.249	0.239		4.0	112	0.00
73		2-Hexanone	0.110	0.081		26.4#	83	0.00
74		1,3-Dichloropropane	0.379	0.362		4.5	108	0.00
75		Dibromochloromethane	0.286	0.267		6.6	103	0.00
76		1,2-Dibromoethane	0.222	0.210		5.4	106	0.00
77	p	Chlorobenzene	0.832	0.821		1.3	116	0.00
78		1,1,1,2-Tetrachloroethane	0.297	0.286		3.7	109	0.00
79	c	Ethylbenzene	0.420	0.437		-4.0	116	0.00
80		(m+p)Xylene	0.508	0.540		-6.3	117	0.00
81		o-Xylene	0.485	0.522		-7.6	115	0.00
82		Styrene	0.829	0.889		-7.2	114	0.00
83	p	Bromoform	0.175	0.159		9.1	99	0.00
84		Isopropylbenzene	1.253	1.303		-4.0	111	0.00
85		Cyclohexanone	0.023	0.021		8.7	99	0.00
86		trans-1,4-Dichloro-2-Butene	0.045	0.050		-11.1	128	0.00
87	I	1,4-Dichlorobenzene-d4	1.000	1.000		0.0	116	0.00
88	p	1,1,2,2-Tetrachloroethane	0.462	0.434		6.1	105	0.00
89		Bromobenzene	0.638	0.613		3.9	111	0.00
90		4-Ethyltoulene	0.000	0.000		0.0	112	0.00
91		1,2,3-Trichloropropane	0.138	0.118		14.5	97	0.00
92		n-Propylbenzene	2.763	2.894		-4.7	112	0.00
93		2-Chlorotoluene	1.730	1.725		0.3	111	0.00

Evaluate Continuing Calibration Report

Sample : CCV
Data File : J:\ACQUDATA\msvoa10\data\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FD 7/18/08

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94	4-Chlorotoluene	2.043	2.021	1.1	110	0.00
95	1,3,5-Trimethylbenzene	1.970	2.014	-2.2	109	0.00
96	tert-Butylbenzene	1.613	1.664	-3.2	109	0.00
97	1,2,4-Trimethylbenzene	2.037	2.093	-2.7	109	0.00
98	sec-Butylbenzene	2.361	2.469	-4.6	111	0.00
99	p-Isopropyltoluene	2.058	2.107	-2.4	110	0.00
100	1,3-Dclbenz	1.259	1.222	2.9	111	0.00
101	1,4-Dclbenz	1.303	1.227	5.8	109	0.00
102	Benzyl Chloride	0.000	0.000	0.0	68	0.00
103	n-Butylbenzene	1.781	1.870	-5.0	110	0.00
104	1,2-Dclbenz	1.186	1.143	3.6	108	0.00
105	1,2-Dibromo-3-chloropropane	0.101	0.086	14.9	93	0.00
106	Nitrobenzene	0.000	0.000	0.0	109	0.00
107	1,2,4-Tcbenzene	0.809	0.784	3.1	104	0.00
108	Hexachlorobt	0.329	0.297	9.7	103	0.00
109	Naphthalen	1.534	1.517	14.1 ~~1.1~~	96	0.00
110	1,2,3-Tclbenzene	0.741	0.695	6.2	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FP 7/18/08

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1328254	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.635	114	2178116	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.854	117	2139189	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1201588	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	665004	45.63	ug/L		0.00
Spiked Amount 50.000			Recovery = 91.26%				
49) surr1,1,2-dichloroetha...	4.885	65	586554	42.84	ug/L		0.00
Spiked Amount 50.000			Recovery = 85.68%				
65) SURR3,Toluene-d8	7.445	98	2620659	55.27	ug/L		0.00
Spiked Amount 50.000			Recovery = 110.54%				
70) SURR2,BFB	9.896	95	1136758	58.22	ug/L		0.00
Spiked Amount 50.000			Recovery = 116.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.178	85	556865	52.43	ug/L		99
4) Chloromethane	1.288	50	484175	49.09	ug/L		98
5) Vinyl Chloride	1.355	62	526721	51.75	ug/L		99
6) Bromomethane	1.550	94	351816	48.38	ug/L		98
7) Chloroethane	1.611	64	302445	53.42	ug/L		99
8) Freon 21	1.715	67	969055	50.81	ug/L		99
9) Trichlorofluoromethane	1.764	101	886725	49.81	ug/L		100
10) Diethyl Ether	1.934	59	285602	47.58	ug/L		93
11) Freon 123a	1.928	67	599441	52.04	ug/L		96
12) Freon 123	1.965	83	758792	54.47	ug/L		98
13) Acrolein	2.020	56	133298	168.98	ug/L		98
14) 1,1-Diclethene	2.099	96	525994	58.69	ug/L		92
15) Freon 113	2.093	101	551502	57.62	ug/L		99
16) Acetone	2.123	43	71099	43.38	ug/L		82
17) 2-Propanol	2.196	45	319581	917.03	ug/L		100
18) Iodomethane	2.215	142	872838	65.01	ug/L		94
19) Carbon Disulfide	2.276	76	1889413	54.99	ug/L		99
20) Acetonitrile	2.318	40	64201	279.99	ug/L		89
21) Allyl Chloride	2.355	76	316562	63.37	ug/L	#	66
22) Methyl Acetate	2.355	43	248979	51.99	ug/L		92
23) Methylene Chloride	2.446	84	601399	54.06	ug/L		88
24) TBA	2.507	59	515085	931.58	ug/L		94
25) Acrylonitrile	2.635	53	591850	261.95	ug/L		100
26) Methyl-t-Butyl Ether	2.666	73	1211030	53.35	ug/L		99
27) trans-1,2-Dichloroethene	2.672	96	605931	59.04	ug/L		94
28) 1,1-Diclethane	3.056	63	1030432	54.51	ug/L		98
29) Vinyl Acetate	3.099	86	51574	43.71	ug/L		79
30) DIPE	3.117	45	1435347	52.12	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.154	53	729922	49.76	ug/L		79
32) ETBE	3.513	59	1380969	53.83	ug/L		97
33) 2,2-Dichloropropane	3.696	77	755020	55.91	ug/L		98
34) cis-1,2-Dichloroethene	3.696	96	653565	58.99	ug/L		89
35) 2-Butanone	3.708	43	118455	43.10	ug/L	#	87
37) Propionitrile	3.788	54	217284	255.67	ug/L		97
38) Bromochloromethane	4.007	130	378052	54.50	ug/L		89

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.989	67	148816	62.75	ug/L	#	76
40) Tetrahydrofuran	4.068	42	74975	47.50	ug/L		91
41) Chloroform	4.117	83	1034567	53.68	ug/L		98
42) 1,1,1-Trichloroethane	4.379	97	880773	51.11	ug/L		99
43) TAME	5.208	73	1174598	55.40	ug/L		94
45) Cyclohexane	4.464	41	394423	43.31	ug/L		95
47) Carbontetrachloride	4.635	121	259700	48.20	ug/L		95
48) 1,1-Dichloropropene	4.641	75	812452	52.65	ug/L		95
50) Benzene	4.982	78	2412908	54.98	ug/L		95
51) 1,2-Dichloroethane	5.019	62	653532	43.13	ug/L		99
52) Iso-Butyl Alcohol	4.885	43	196016	721.26	ug/L		91
53) n-Heptane	5.476	43	465882	51.86	ug/L		89
54) Trichloroethene	5.988	130	637660	52.92	ug/L		99
55) Methylcyclohexane	6.238	55	677351	51.45	ug/L		88
56) 1,2-Diclpropane	6.281	63	603131	55.17	ug/L		100
57) Dibromomethane	6.427	93	316998	49.65	ug/L		99
58) 1,4-Dioxane	6.476	88	80170	918.42	ug/L		98
59) Methyl Methacrylate	6.482	69	253979	51.56	ug/L		85
60) Bromodichloromethane	6.641	83	773663	49.21	ug/L		99
62) 2-Chloroethylvinyl Ether	7.025	63	244573	63.88	ug/L		99
63) cis-1,3-Dichloropropene	7.165	75	914147	55.73	ug/L		98
64) 4-Methyl-2-pentanone	7.354	43	250392	41.33	ug/L	#	92
66) Toluene	7.519	91	2605217	54.31	ug/L		99
67) trans-1,3-Dichloropropene	7.762	75	760832	53.87	ug/L		99
68) Ethyl Methacrylate	7.884	69	533473	52.38	ug/L		87
69) 1,1,2-Trichloroethane	7.945	97	439778	51.93	ug/L		98
72) Tetrachloroethene	8.067	164	511992	47.99	ug/L		96
73) 2-Hexanone	8.213	43	172401	36.51	ug/L	#	88
74) 1,3-Dichloropropane	8.104	76	775451	47.78	ug/L		90
75) Dibromochloromethane	8.317	129	571529	46.78	ug/L		99
76) 1,2-Dibromoethane	8.415	107	448646	47.30	ug/L		100
77) Chlorobenzene	8.884	112	1756441	49.36	ug/L		97
78) 1,1,1,2-Tetrachloroethane	8.963	131	610876	48.08	ug/L		97
79) Ethylbenzene	8.994	106	935137	52.07	ug/L		93
80) (m+p)Xylene	9.097	106	2311433	106.28	ug/L		97
81) o-Xylene	9.445	106	1116501	53.76	ug/L		96
82) Styrene	9.457	104	1901273	53.60	ug/L		99
83) Bromoform	9.616	173	339917	45.37	ug/L		100
84) Isopropylbenzene	9.768	105	2787821	52.00	ug/L		99
85) Cyclohexanone	9.841	55	884460	910.95	ug/L		91
86) trans-1,4-Dichloro-2-B...	10.073	53	108008	56.01	ug/L	#	80
88) 1,1,2,2-Tetrachloroethane	10.024	83	521475	47.00	ug/L		96
89) Bromobenzene	10.018	156	737093	48.04	ug/L		98
91) 1,2,3-Trichloropropane	10.055	110	141531	42.69	ug/L		98
92) n-Propylbenzene	10.116	91	3477956	52.38	ug/L		98
93) 2-Chlorotoluene	10.183	91	2072606	49.86	ug/L		98
94) 4-Chlorotoluene	10.274	91	2428711	49.47	ug/L		97
95) 1,3,5-Trimethylbenzene	10.262	105	2419839	51.11	ug/L		97
96) tert-Butylbenzene	10.530	119	1999099	51.57	ug/L		98
97) 1,2,4-Trimethylbenzene	10.573	105	2515486	51.39	ug/L		98
98) sec-Butylbenzene	10.713	105	2967217	52.29	ug/L		99
99) p-Isopropyltoluene	10.829	119	2531599	51.20	ug/L		98

Quantitation Report (Not Reviewed)

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

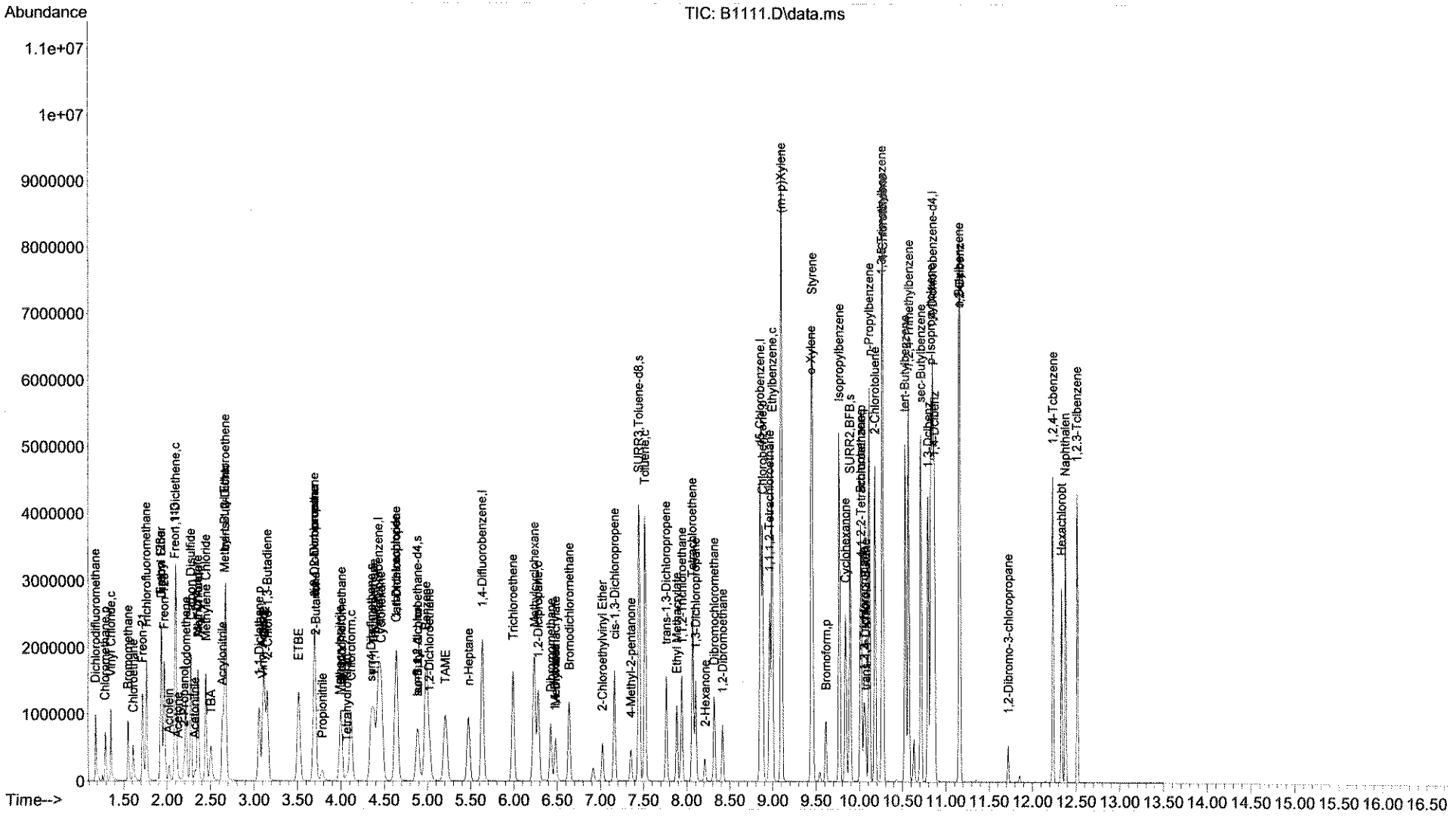
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	1468885	48.53	ug/L	100
101) 1,4-Dclbenz	10.871	146	1474287	47.08	ug/L	99
103) n-Butylbenzene	11.152	91	2247231	52.52	ug/L	100
104) 1,2-Dclbenz	11.164	146	1373284	48.19	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	103643	42.80	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	942631	48.46	ug/L	98
108) Hexachlorobt	12.335	225	357468	45.27	ug/L	100
109) Naphthalen	12.377	128	1822267	42.93	ug/L	99
110) 1,2,3-Tclbenzene	12.511	180	835359	46.89	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Sample : CCV
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1111.D Vial: 1
Acq On : 15 Jul 2008 12:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:03:30 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



VOLATILE ORGANICS

RAW QC DATA

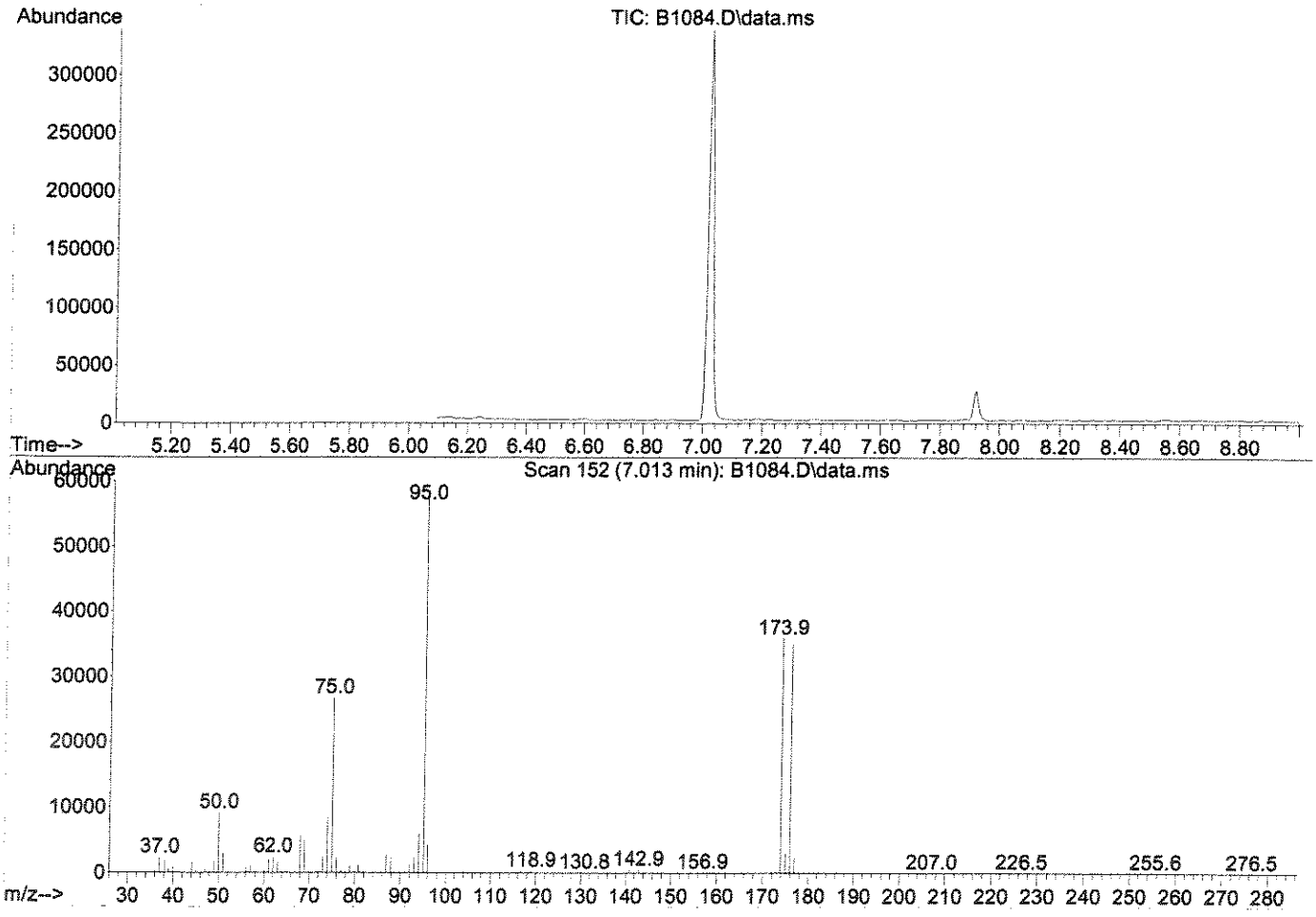
BFB

Data Path : J:\ACQUDATA\msvoa10\data\071408\
Data File : B1084.D
Acq On : 14 Jul 2008 2:19 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FN 7/17/08

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



Spectrum Information: Scan 152

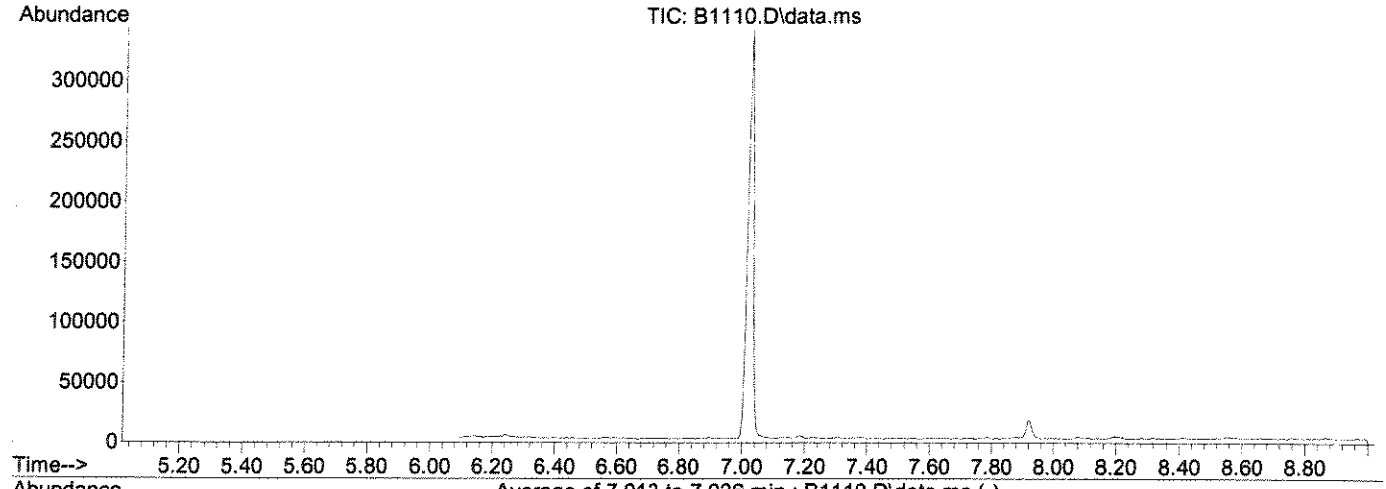
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	9206	PASS
75	95	30	60	46.8	26736	PASS
95	95	100	100	100.0	57184	PASS
96	95	5	9	7.6	4337	PASS
173	174	0.00	2	0.7	243	PASS
174	95	50	120	62.8	35912	PASS
175	174	5	9	8.2	2953	PASS
176	174	95	101	97.8	35128	PASS
177	176	5	9	7.0	2449	PASS

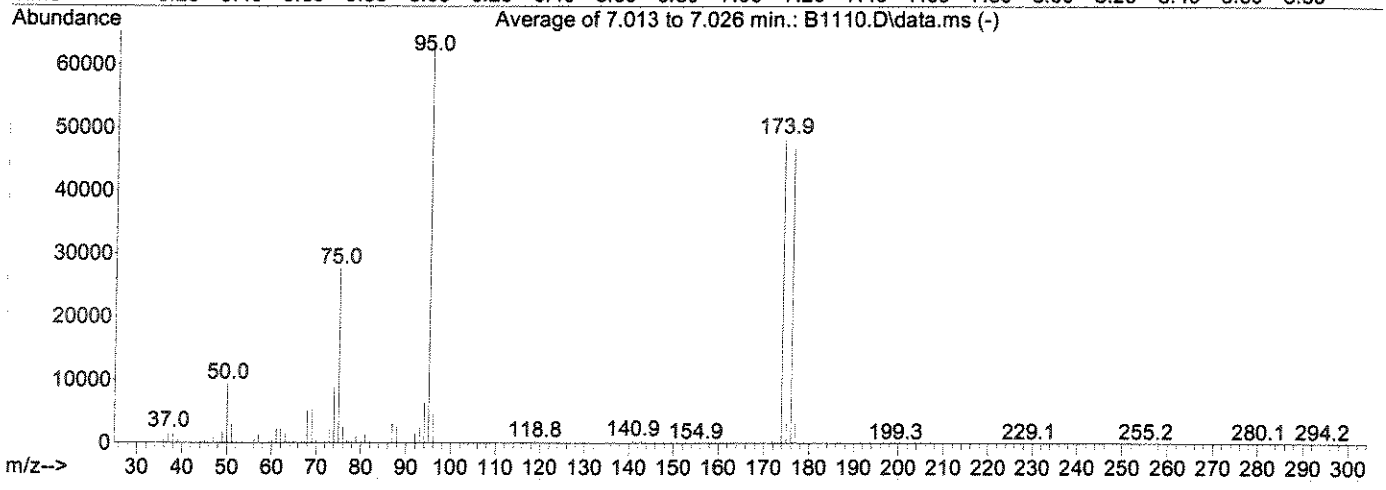
Data Path : J:\ACQUDATA\msvoa10\data\071508\
Data File : B1110.D
Acq On : 15 Jul 2008 12:12 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

FN 7/18/08

Integration File: CPD4.P

Method : J:\ACQUDATA\MSVOA10\METHODS\T062608.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006





AutoFind: Scans 152, 153, 154; Background Corrected with Scan 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	9448	PASS
75	95	30	60	44.4	27643	PASS
95	95	100	100	100.0	62221	PASS
96	95	5	9	7.7	4776	PASS
173	174	0.00	2	0.7	323	PASS
174	95	50	120	77.8	48389	PASS
175	174	5	9	6.7	3243	PASS
176	174	95	101	96.3	46584	PASS
177	176	5	9	6.8	3158	PASS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1120301 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	2.0 J	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1120301 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/14/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	109	%
TOLUENE-D8	(70 - 130 %)	108	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	92	%

Quantitation Report (Not Reviewed)

Sample : MBLK
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1088.D Vial: 4
Acq On : 14 Jul 2008 5:09 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : 112301 1.0

Quant Time: Jul 14 17:24:16 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1408003	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2307891	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.860	117	2252346	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1219764	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	711171	46.20	ug/L	0.00	
Spiked Amount 50.000			Recovery = 92.40%				
49) surr1,1,2-dichloroetha...	4.891	65	643449	44.36	ug/L	0.00	
Spiked Amount 50.000			Recovery = 88.72%				
65) SURR3,Toluene-d8	7.445	98	2716545	54.07	ug/L	0.00	
Spiked Amount 50.000			Recovery = 108.14%				
70) SURR2,BFB	9.896	95	1125295	54.39	ug/L	0.00	
Spiked Amount 50.000			Recovery = 108.78%				
Target Compounds						Qvalue	
16) Acetone	2.123	43	1254	0.72	ug/L	78	LT
17) 2-Propanol	2.202	45	179	0.48	ug/L #	82	NT
21) Allyl Chloride	~~2.270~~	~~76~~	~~1530~~	~~0.29~~	~~ug/L #~~	~~1~~	
24) TBA	2.507	59	1199	2.05	ug/L #	54	J
40) Tetrahydrofuran	~~4.068~~	~~42~~	~~402~~	~~0.24~~	~~ug/L #~~	~~64~~	
85) Cyclohexanone	9.841	55	328	0.32	ug/L #	79	NT
109) Naphthalen	~~12.383~~	~~128~~	~~1580~~	~~0.57~~	~~ug/L #~~	~~82~~	<LR

(#) = qualifier out of range (m) = manual integration (+) = signals summed

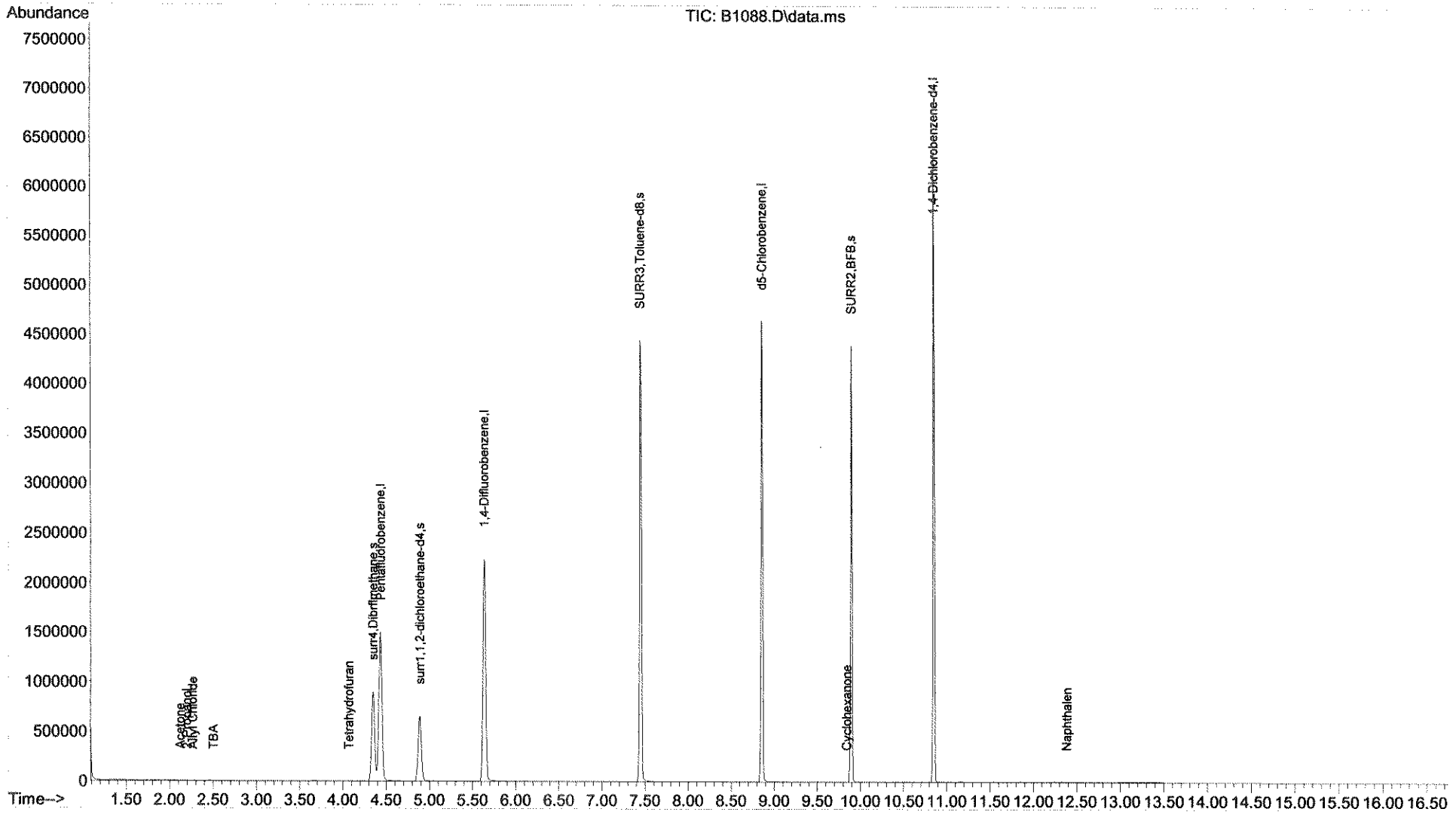
FN
7/17/08

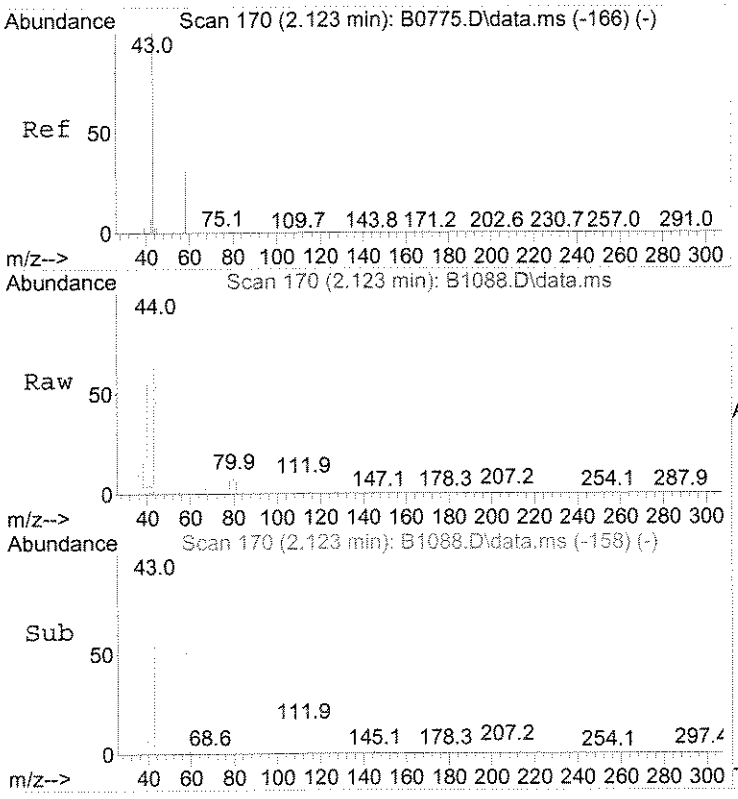
00223

Quantitation Report (Not Reviewed)

Sample : MBLK
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1088.D Vial: 4
Acq On : 14 Jul 2008 5:09 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 17:24:16 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

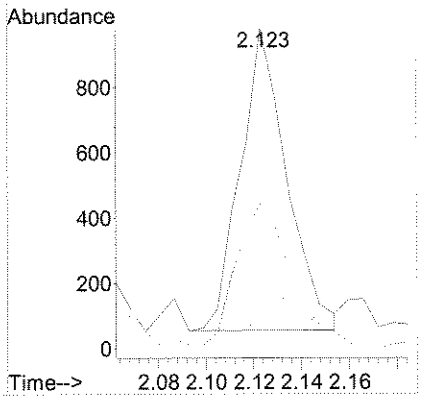


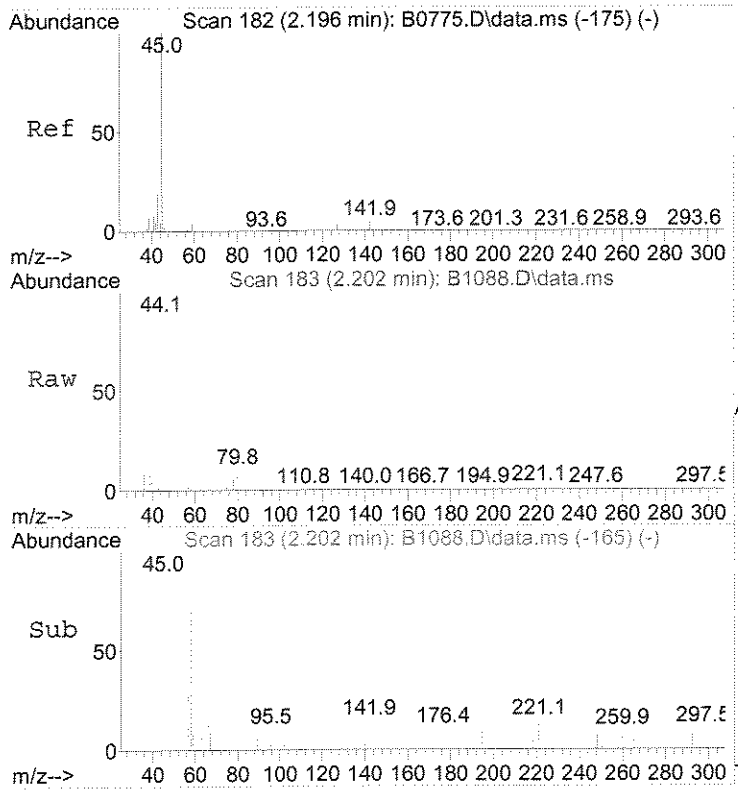


#16
Acetone
Concen: 0.72 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1088.D
Acq: 14 Jul 2008 5:09 pm

Tgt Ion: 43 Resp: 1254

Ion	Ratio	Lower	Upper
43	100		
58	45.5	0.9	60.9
42	7.4	0.0	37.2

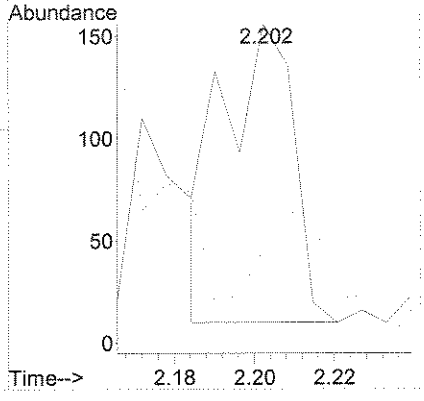


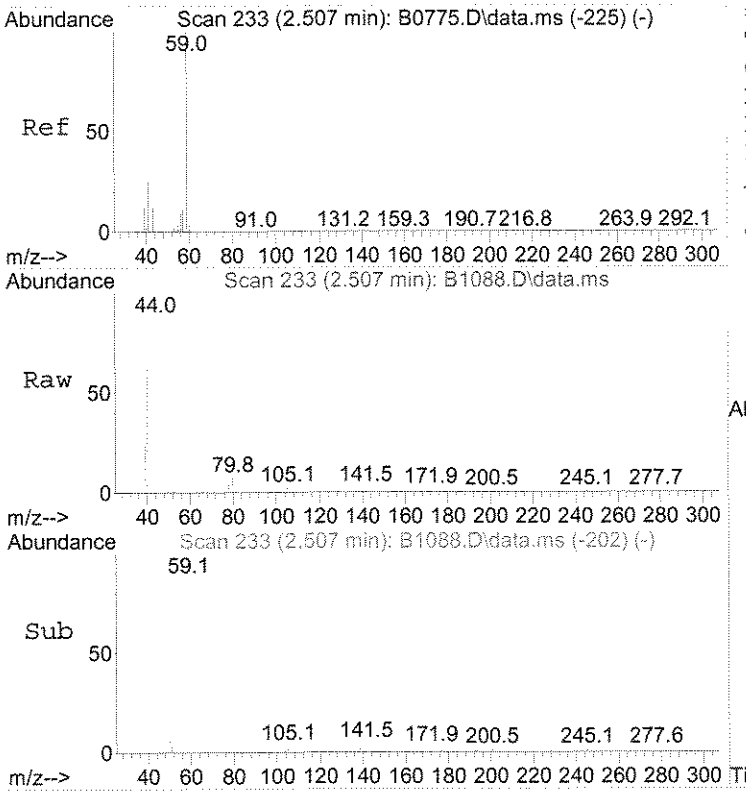


#17
2-Propanol
Concen: 0.48 ug/L
RT: 2.202 min Scan# 183
Delta R.T. -0.000 min
Lab File: B1088.D
Acq: 14 Jul 2008 5:09 pm

Tgt Ion: 45 Resp: 179

Ion	Ratio	Lower	Upper
45	100		
43	29.5	17.0	25.4#

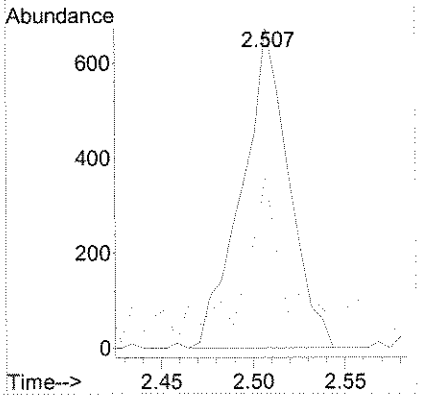


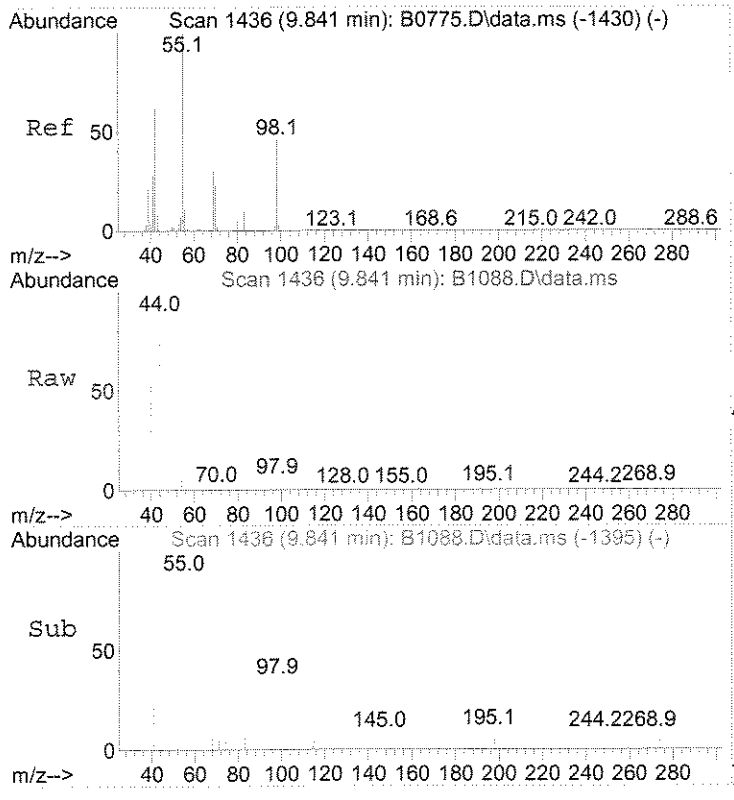


#24
TBA
Concen: 2.05 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B1088.D
Acq: 14 Jul 2008 5:09 pm

Tgt Ion: 59 Resp: 1199

Ion	Ratio	Lower	Upper
59	100		
41	53.6	14.5	43.6#

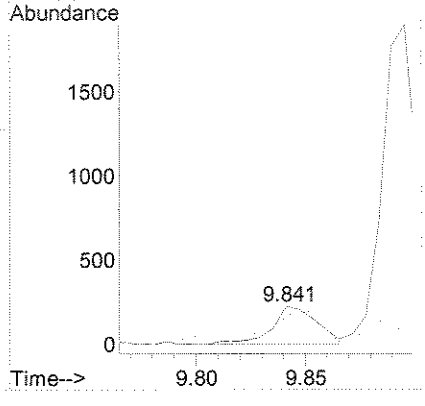




#85
Cyclohexanone
Concen: 0.32 ug/L
RT: 9.841 min Scan# 1436
Delta R.T. -0.000 min
Lab File: B1088.D
Acq: 14 Jul 2008 5:09 pm

Tgt Ion: 55 Resp: 328

Ion	Ratio	Lower	Upper
55	100		
42	77.4	49.3	73.9#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1120307 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMOBENZENE	2.0	2.0 U	UG/L
BROMOCHLOROMETHANE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TERT-BUTYL ALCOHOL	100	100 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
TERT-BUTYLBENZENE	2.0	2.0 U	UG/L
SEC-BUTYLBENZENE	2.0	2.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
2-CHLOROTOLUENE	5.0	5.0 U	UG/L
4-CHLOROTOLUENE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
DIBROMOMETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
2,2-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
1,3-DICHLOROPROPANE	2.0	2.0 U	UG/L
1,1-DICHLOROPROPENE	2.0	2.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
HEXACHLOROBUTADIENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
DI-ISOPROPYL ETHER	1.0	1.0 U	UG/L
ISOPROPYLBENZENE	2.0	2.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1120307 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 1.00			
P-ISOPROPYLTOLUENE	2.0	2.0 U	UG/L
TERT-AMYL-METHYL ETHER	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	2.0	2.0 U	UG/L
NAPHTHALENE	2.0	2.0 U	UG/L
4-METHYL-2-PENTANONE	10	10 U	UG/L
N-PROPYLBENZENE	2.0	2.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,2,3-TRICHLOROBENZENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,2,3-TRICHLOROPROPANE	2.0	2.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	2.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	111	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	92	%

Quantitation Report (Not Reviewed)

Sample : MBLK
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1114.D Vial: 2
Acq On : 15 Jul 2008 2:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

1120307 1.0

DODO

Quant Time: Jul 15 15:04:01 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.434	168	1277109	50.00	ug/L	0.00	
44) 1,4-Difluorobenzene	5.635	114	2130311	50.00	ug/L	0.00	
71) d5-Chlorobenzene	8.854	117	2084385	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	10.847	152	1130468	50.00	ug/L	0.00	
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	653104	45.88	ug/L	0.00	
Spiked Amount 50.000			Recovery =	91.76%			
49) surr1,1,2-dichloroetha...	4.891	65	593057	44.29	ug/L	0.00	
Spiked Amount 50.000			Recovery =	88.58%			
65) SURR3,Toluene-d8	7.451	98	2526745	54.49	ug/L	0.00	
Spiked Amount 50.000			Recovery =	108.98%			
70) SURR2,BFB	9.896	95	1063690	55.70	ug/L	0.00	
Spiked Amount 50.000			Recovery =	111.40%			
Target Compounds						Qvalue	
16) Acetone	2.123	43	926	0.59	ug/L	63	LT
21) Allyl Chloride	~~2.276~~	~~76~~	~~1350~~	~~0.28~~	~~ug/L #~~	~~1~~	
24) TBA	2.507	59	608	1.14	ug/L #	1	LT
40) Tetrahydrofuran	~~4.086~~	~~42~~	~~420~~	~~0.28~~	~~ug/L #~~	~~37~~	
85) Cyclohexanone	9.841	55	372	0.39	ug/L #	65	NT
109) Naphthalen	~~12.383~~	~~128~~	~~1570~~	~~0.57~~	~~ug/L #~~	~~87~~	<LR

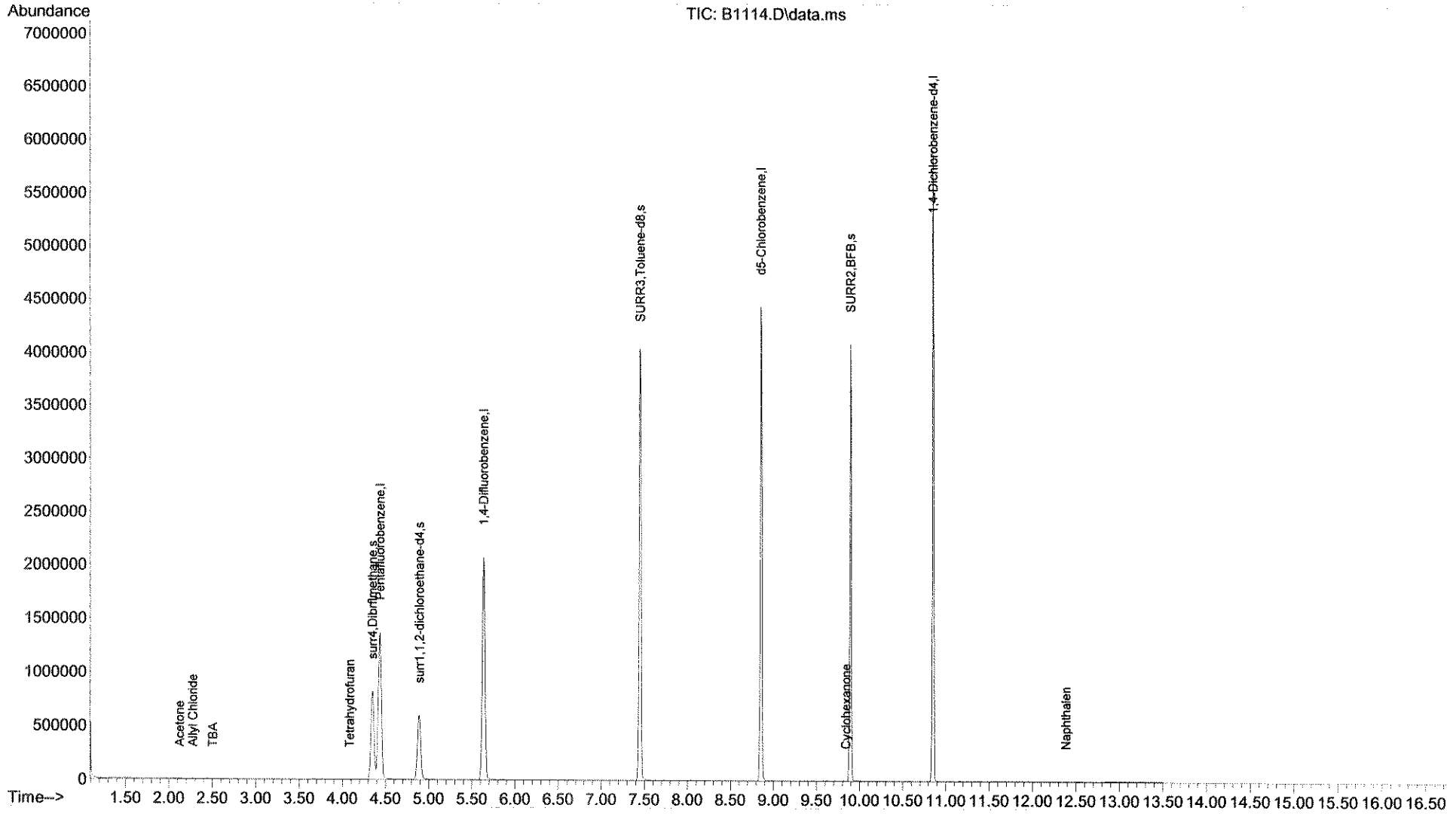
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FN
7/18/08

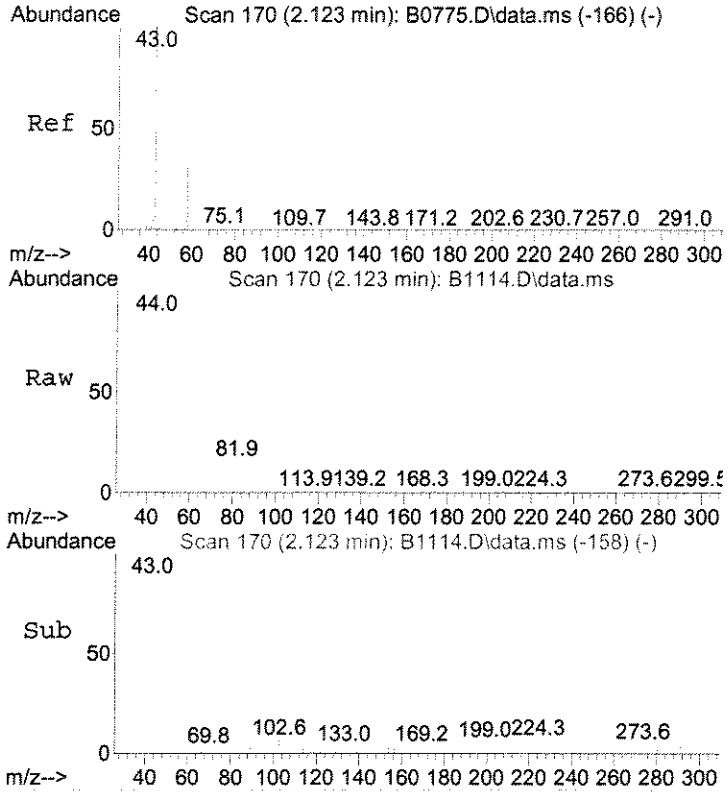
Quantitation Report (Not Reviewed)

Sample : MBLK
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1114.D Vial: 2
Acq On : 15 Jul 2008 2:49 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 15:04:01 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



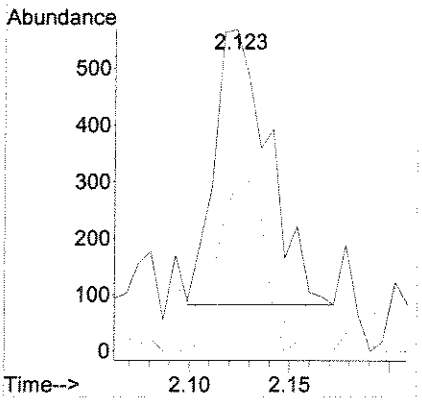
WAT0626.M Tue Jul 15 15:05:40 2008

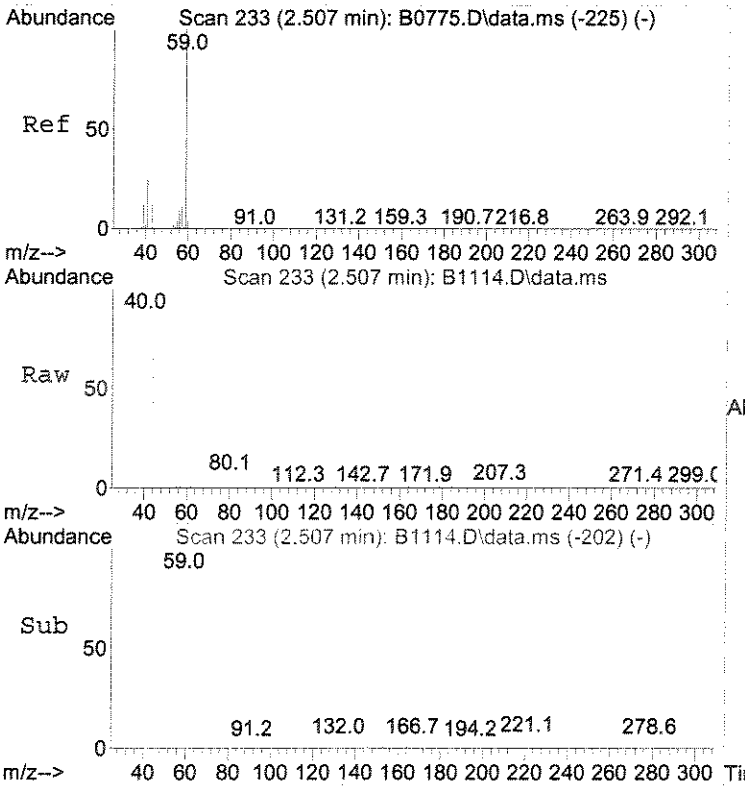


#16
Acetone
Concen: 0.59 ug/L
RT: 2.123 min Scan# 170
Delta R.T. -0.000 min
Lab File: B1114.D
Acq: 15 Jul 2008 2:49 pm

Tgt Ion: 43 Resp: 926

Ion	Ratio	Lower	Upper
43	100		
58	52.5	0.9	60.9
42	16.7	0.0	37.2

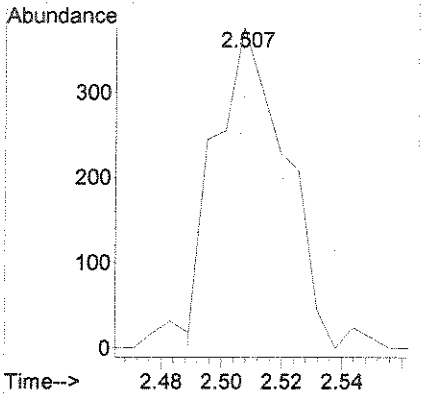


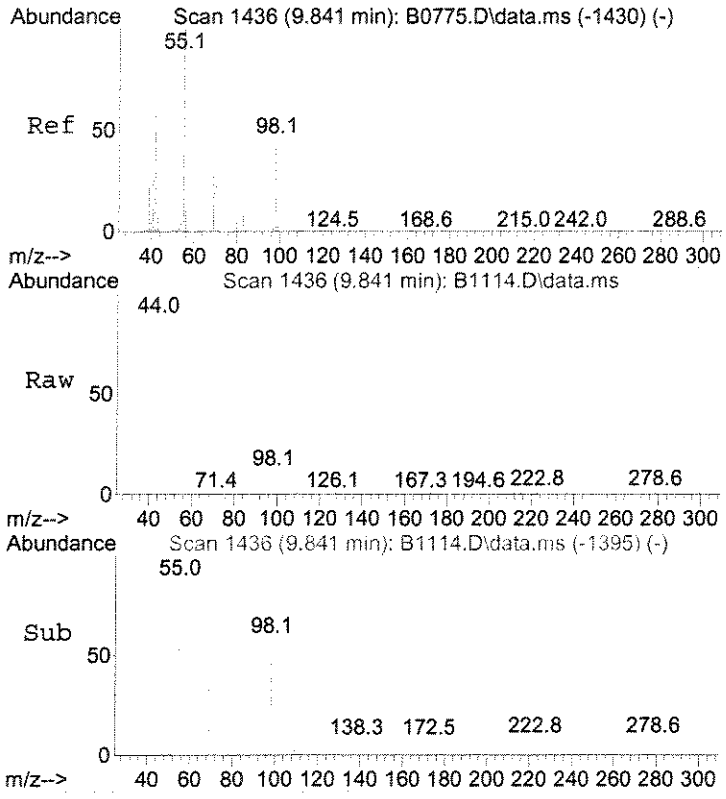


#24
TBA
Concen: 1.14 ug/L
RT: 2.507 min Scan# 233
Delta R.T. -0.000 min
Lab File: B1114.D
Acq: 15 Jul 2008 2:49 pm

Tgt Ion: 59 Resp: 608

Ion	Ratio	Lower	Upper
59	100		
41	87.5	14.5	43.6#

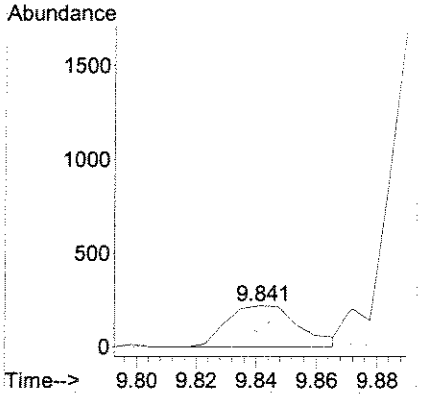




#85
Cyclohexanone
Concen: 0.39 ug/L
RT: 9.841 min Scan# 1436
Delta R.T. -0.000 min
Lab File: B1114.D
Acq: 15 Jul 2008 2:49 pm

Tgt Ion: 55 Resp: 372

Ion	Ratio	Lower	Upper
55	100		
42	34.8	49.3	73.9#



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 09/02/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 1120302 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	19 J	UG/L
BENZENE	1.0	22	UG/L
BROMOBENZENE	2.0	20	UG/L
BROMOCHLOROMETHANE	2.0	22	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	17	UG/L
BROMOMETHANE	2.0	22	UG/L
2-BUTANONE (MEK)	10	17	UG/L
TERT-BUTYL ALCOHOL	100	360	UG/L
METHYL-TERT-BUTYL ETHER	1.0	21	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	22	UG/L
TERT-BUTYLBENZENE	2.0	21	UG/L
SEC-BUTYLBENZENE	2.0	21	UG/L
N-BUTYLBENZENE	5.0	21	UG/L
CARBON TETRACHLORIDE	1.0	19	UG/L
CHLOROBENZENE	1.0	21	UG/L
CHLOROETHANE	2.0	23	UG/L
CHLOROFORM	1.0	22	UG/L
CHLOROMETHANE	2.0	22	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	16	UG/L
2-CHLOROTOLUENE	5.0	20	UG/L
4-CHLOROTOLUENE	5.0	21	UG/L
DIBROMOCHLOROMETHANE	1.0	18	UG/L
1,2-DIBROMOETHANE	1.0	19	UG/L
DIBROMOMETHANE	1.0	20	UG/L
1,2-DICHLOROBENZENE	2.0	20	UG/L
1,4-DICHLOROBENZENE	2.0	20	UG/L
1,3-DICHLOROBENZENE	2.0	20	UG/L
DICHLORODIFLUOROMETHANE	1.0	27	UG/L
1,1-DICHLOROETHANE	1.0	22	UG/L
1,2-DICHLOROETHANE	1.0	17	UG/L
1,1-DICHLOROETHENE	1.0	25	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	24	UG/L
CIS-1,2-DICHLOROETHENE	1.0	24	UG/L
2,2-DICHLOROPROPANE	2.0	23	UG/L
1,2-DICHLOROPROPANE	1.0	23	UG/L
1,3-DICHLOROPROPANE	2.0	19	UG/L
1,1-DICHLOROPROPENE	2.0	22	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	20	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	22	UG/L
ETHYLBENZENE	1.0	21	UG/L
HEXACHLOROBUTADIENE	5.0	20	UG/L
2-HEXANONE	10	13	UG/L
DI-ISOPROPYL ETHER	1.0	20	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :
Date Received:
Order #: 1120302
Submission #:
Sample Matrix: WATER
Analytical Run 164472

DATE ANALYZED : 07/14/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ISOPROPYLBENZENE	2.0	22	UG/L
P-ISOPROPYLTOLUENE	2.0	21	UG/L
TERT-AMYL-METHYL ETHER	1.0	22	UG/L
METHYLENE CHLORIDE	2.0	22	UG/L
NAPHTHALENE	2.0	18	UG/L
4-METHYL-2-PENTANONE	10	15	UG/L
N-PROPYLBENZENE	2.0	21	UG/L
STYRENE	1.0	22	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	19	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20	UG/L
TETRACHLOROETHENE	1.0	21	UG/L
TOLUENE	1.0	22	UG/L
1,2,4-TRICHLOROBENZENE	2.0	20	UG/L
1,2,3-TRICHLOROBENZENE	2.0	20	UG/L
1,1,1-TRICHLOROETHANE	1.0	21	UG/L
1,1,2-TRICHLOROETHANE	1.0	21	UG/L
TRICHLOROETHENE	1.0	22	UG/L
TRICHLOROFLUOROMETHANE	1.0	20	UG/L
1,2,3-TRICHLOROPROPANE	2.0	17	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	21	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	21	UG/L
VINYL CHLORIDE	1.0	24	UG/L
M+P-XYLENE	2.0	44	UG/L
O-XYLENE	1.0	22	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	112	%
TOLUENE-D8	(70 - 130 %)	109	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	91	%

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : 112052 1.0

DCDFM ↑
2-Hexanone ↓

FN 7/17/08

Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.440	168	1484931	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.641	114	2417830	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2336519	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1312238	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	735522	45.40	ug/L	0.00
Spiked Amount 50.000			Recovery =	90.80%		
49) surr1,1,2-dichloroetha...	4.891	65	644777	42.43	ug/L	0.00
Spiked Amount 50.000			Recovery =	84.86%		
65) SURR3,Toluene-d8	7.445	98	2864714	54.43	ug/L	0.00
Spiked Amount 50.000			Recovery =	108.86%		
70) SURR2,BFB	9.896	95	1214450	56.03	ug/L	0.00
Spiked Amount 50.000			Recovery =	112.06%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	319830	26.94	ug/L	98 (1)
4) Chloromethane	1.294	50	244980	22.22	ug/L	97
5) Vinyl Chloride	1.355	62	269769	23.71	ug/L	99
6) Bromomethane	1.556	94	178161	21.92	ug/L	98
7) Chloroethane	1.611	64	143833	22.73	ug/L	98
8) Freon 21	1.721	67	435839	20.44	ug/L	99
9) Trichlorofluoromethane	1.764	101	402938	20.25	ug/L	99
10) Diethyl Ether	1.934	59	139512	20.79	ug/L	95
11) Freon 123a	1.928	67	218711	16.98	ug/L	96
12) Freon 123	1.971	83	285415	18.33	ug/L	98
13) Acrolein	2.026	56	70310	79.73	ug/L	98
14) 1,1-Diclethene	2.105	96	248265	24.78	ug/L	87
15) Freon 113	2.093	101	266967	24.95	ug/L	99
16) Acetone	2.123	43	35056	19.13	ug/L	88
17) 2-Propanol	2.196	45	134938	346.35	ug/L	99
18) Iodomethane	2.221	142	345788	23.04	ug/L	93
19) Carbon Disulfide	2.276	76	736834	19.18	ug/L	99
20) Acetonitrile	2.324	40	25946	101.21	ug/L	95
21) Allyl Chloride	2.355	76	134481	24.08	ug/L	73
22) Methyl Acetate	2.361	43	114100	21.31	ug/L #	90
23) Methylene Chloride	2.446	84	271593	21.84	ug/L	92
24) TBA	2.507	59	225453	364.73	ug/L	97
25) Acrylonitrile	2.641	53	262248	103.82	ug/L	98
26) Methyl-t-Butyl Ether	2.666	73	528385	20.82	ug/L	99
27) trans-1,2-Dichloroethene	2.678	96	272194	23.72	ug/L	92
28) 1,1-Diclethane	3.062	63	459379	21.74	ug/L	98
29) Vinyl Acetate	3.105	86	17645	15.03	ug/L	63
30) DIPE	3.117	45	633304	20.57	ug/L	84
31) 2-Chloro-1,3-Butadiene	3.154	53	312742	19.07	ug/L	79
32) ETBE	3.519	59	620507	21.63	ug/L	97
33) 2,2-Dichloropropane	3.702	77	345300	22.87	ug/L	98
34) cis-1,2-Dichloroethene	3.702	96	293122	23.67	ug/L	88
35) 2-Butanone	3.714	43	53297	17.35	ug/L #	83
37) Propionitrile	3.788	54	93755	98.68	ug/L	96
38) Bromochloromethane	4.007	130	172338	22.22	ug/L	90

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.995	67	62452	23.55	ug/L	#	73
40) Tetrahydrofuran	4.074	42	32880	18.63	ug/L		93
41) Chloroform	4.123	83	479500	22.26	ug/L		97
42) 1,1,1-Trichloroethane	4.385	97	400016	20.76	ug/L		97
43) TAME	5.208	73	510003	21.52	ug/L		94
45) Cyclohexane	4.470	41	176540	17.46	ug/L		95
47) Carbontetrachloride	4.641	121	113732	19.02	ug/L		91
48) 1,1-Dichloropropene	4.647	75	382022	22.30	ug/L		96
50) Benzene	4.989	78	1094961	22.48	ug/L		95
51) 1,2-Dichloroethane	5.025	62	289386	17.21	ug/L		99
52) Iso-Butyl Alcohol	4.891	43	81141	308.43	ug/L		90
53) n-Heptane	5.476	43	220137	22.08	ug/L		91
54) Trichloroethene	5.994	130	295298	22.08	ug/L		97
55) Methylcyclohexane	6.238	55	295972	20.25	ug/L		88
56) 1,2-Diclpropane	6.287	63	276343	22.77	ug/L		100
57) Dibromomethane	6.427	93	139415	19.67	ug/L		97
58) 1,4-Dioxane	6.476	88	~~34106~~	~~351.98~~	ug/L	FV 7/17/08	92
59) Methyl Methacrylate	6.482	69	106041	20.30	ug/L		83
60) Bromodichloromethane	6.641	83	333005	19.08	ug/L		99
62) 2-Chloroethylvinyl Ether	7.025	63	98228	23.04	ug/L		98
63) cis-1,3-Dichloropropene	7.165	75	394315	21.65	ug/L		99
64) 4-Methyl-2-pentanone	7.354	43	99046	14.73	ug/L	#	90
66) Toluene	7.519	91	1176230	22.09	ug/L		99
67) trans-1,3-Dichloropropene	7.768	75	310868	19.83	ug/L		98
68) Ethyl Methacrylate	7.884	69	215968	20.09	ug/L		87
69) 1,1,2-Trichloroethane	7.945	97	196268	20.88	ug/L		99
72) Tetrachloroethene	8.073	164	241129	20.69	ug/L		99
73) 2-Hexanone	8.213	43	67490	13.09	ug/L		89
74) 1,3-Dichloropropane	8.104	76	339398	19.14	ug/L		92
75) Dibromochloromethane	8.317	129	245694	18.41	ug/L		97
76) 1,2-Dibromoethane	8.415	107	195582	18.88	ug/L		96
77) Chlorobenzene	8.884	112	801581	20.62	ug/L		97
78) 1,1,1,2-Tetrachloroethane	8.963	131	265575	19.14	ug/L		95
79) Ethylbenzene	8.994	106	421443	21.49	ug/L		92
80) (m+p)Xylene	9.097	106	1037966	43.70	ug/L		100
81) o-Xylene	9.445	106	500543	22.07	ug/L		92
82) Styrene	9.463	104	836695	21.60	ug/L		96
83) Bromoform	9.616	173	139423	17.04	ug/L		100
84) Isopropylbenzene	9.768	105	1265837	21.62	ug/L		98
85) Cyclohexanone	9.841	55	340123	320.72	ug/L		91
86) trans-1,4-Dichloro-2-B...	10.073	53	44880	21.31	ug/L		91
88) 1,1,2,2-Tetrachloroethane	10.024	83	239632	19.78	ug/L		98
89) Bromobenzene	10.018	156	329035	19.64	ug/L		99
91) 1,2,3-Trichloropropane	10.055	110	62397	17.23	ug/L		96
92) n-Propylbenzene	10.116	91	1532891	21.14	ug/L		99
93) 2-Chlorotoluene	10.183	91	915993	20.18	ug/L		97
94) 4-Chlorotoluene	10.274	91	1111084	20.72	ug/L		97
95) 1,3,5-Trimethylbenzene	10.262	105	1089099	21.06	ug/L		98
96) tert-Butylbenzene	10.530	119	886066	20.93	ug/L		97
97) 1,2,4-Trimethylbenzene	10.573	105	1119473	20.94	ug/L		96
98) sec-Butylbenzene	10.713	105	1331866	21.49	ug/L		99
99) p-Isopropyltoluene	10.829	119	1142241	21.15	ug/L		97

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.798	146	668717	20.23	ug/L	99
101) 1,4-Dclbenz	10.865	146	676063	19.77	ug/L	99
103) n-Butylbenzene	11.152	91	1003950	21.48	ug/L	99
104) 1,2-Dclbenz	11.164	146	617170	19.83	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	41925	15.85	ug/L	96
107) 1,2,4-Tcbenzene	12.237	180	425249	20.02	ug/L	99
108) Hexachlorobt	12.335	225	171986	19.94	ug/L	100
109) Naphthalen	12.377	128	817276	17.94	ug/L	100
110) 1,2,3-Tclbenzene	12.511	180	383179	19.70	ug/L	99

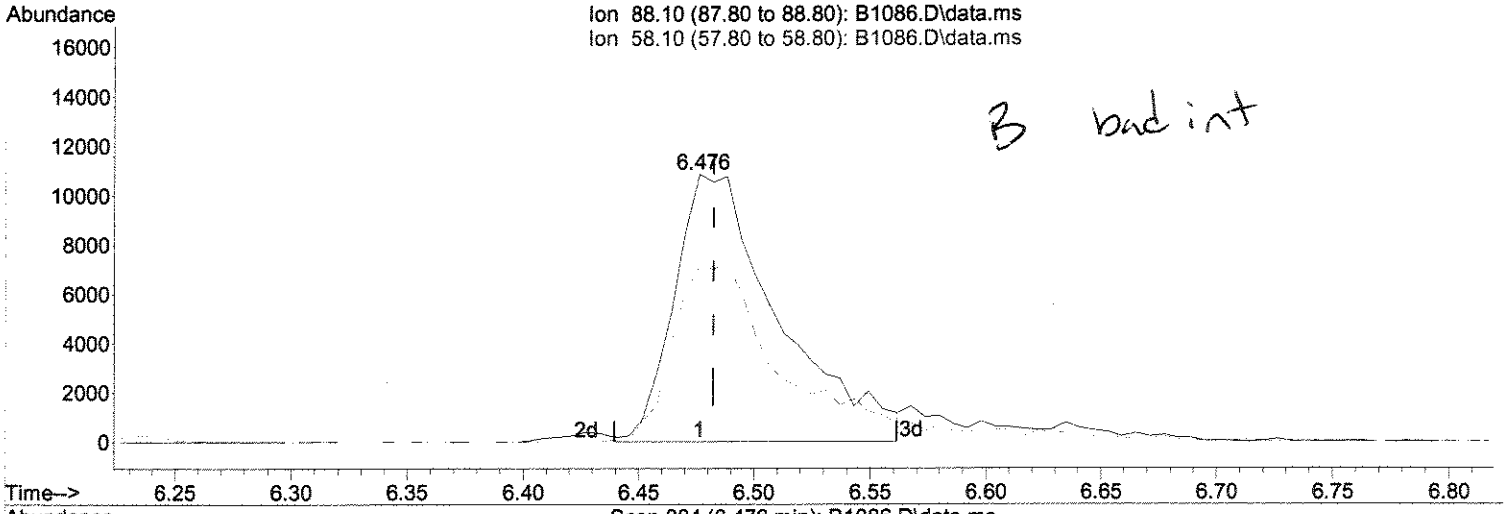
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

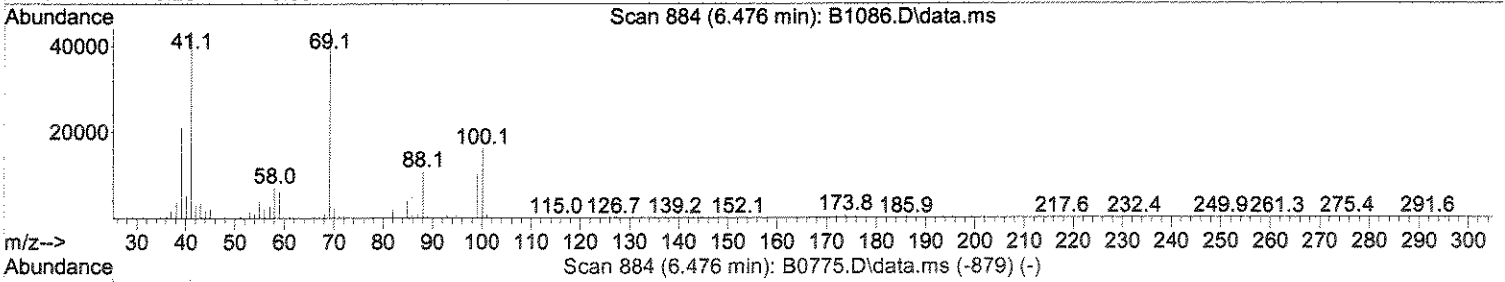
Sample : LCS
Data File : J:\ACQUDATA\msvoa10\data\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

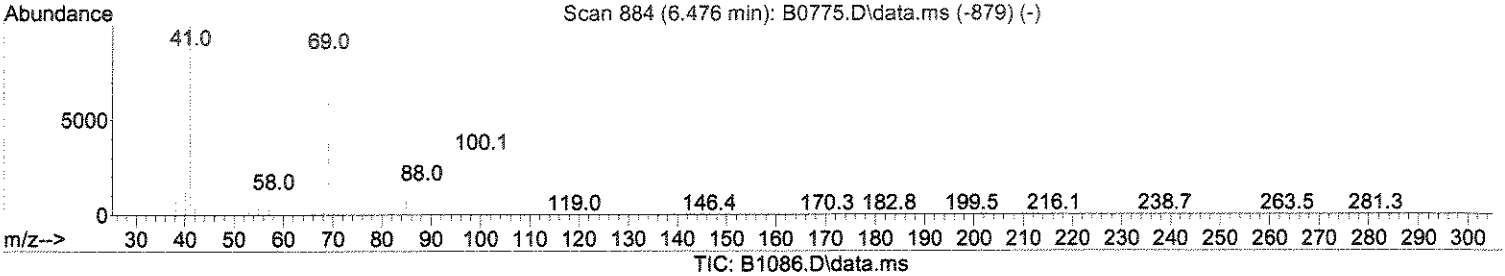
Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/17/08



B bad int





TIC: B1086.D\data.ms

(58) 1,4-Dioxane

6.476min (-0.006) 351.98 ug/L

response 34106

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.53
0.00	0.00	0.00
0.00	0.00	0.00

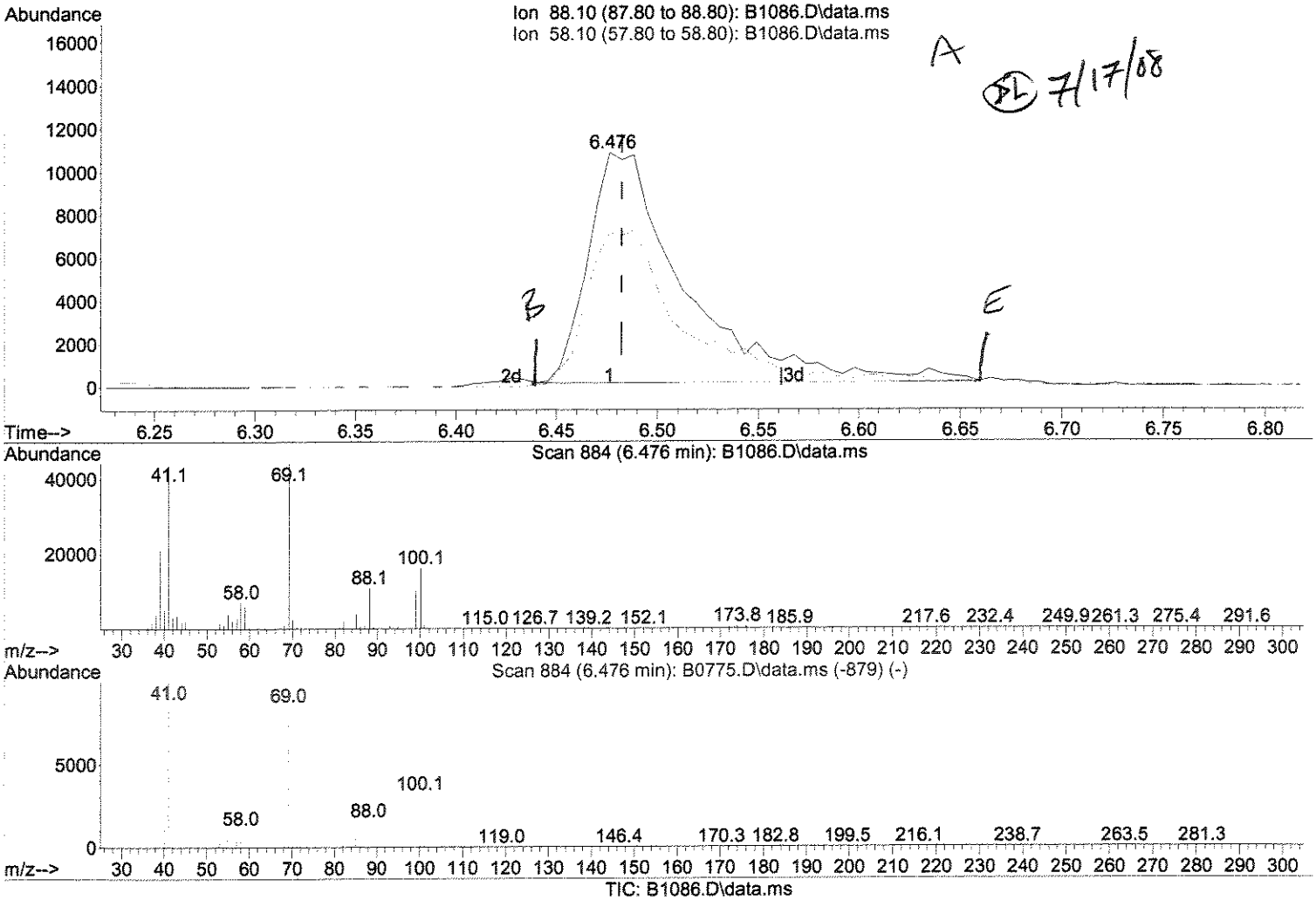
00236

Quantitation Report (Qedit)

Sample : LCS
Data File : J:\ACQUDATA\msvoa10\data\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

FN 7/17/08



TIC: B1086.D\data.ms

A SL 7/17/08

(58) 1,4-Dioxane

6.476min (-0.006) 369.69 ug/L m

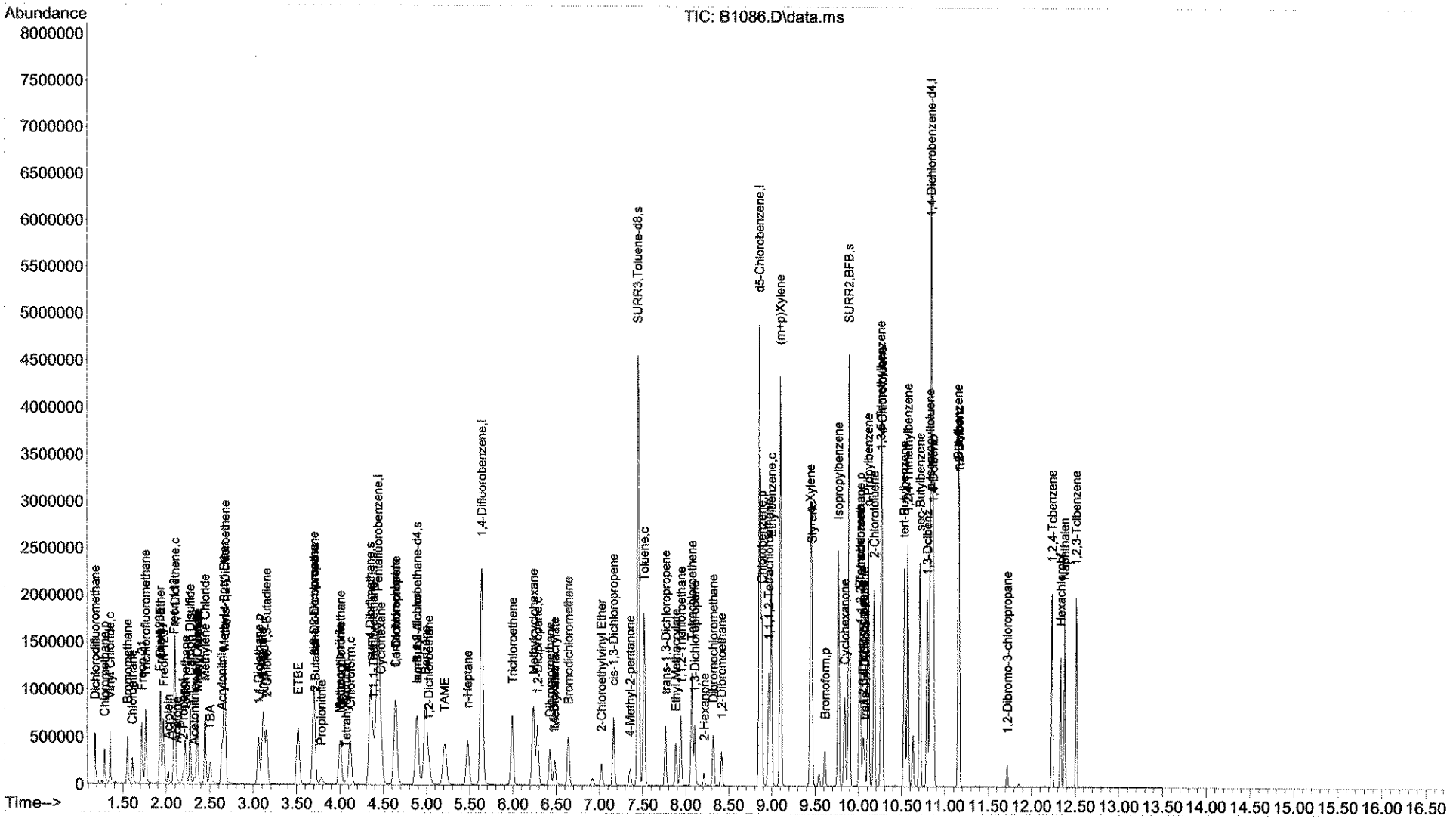
response 35822

Ion	Exp%	Act%
88.10	100	100
58.10	71.80	65.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1086.D Vial: 2
Acq On : 14 Jul 2008 3:42 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 14 15:56:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 09/02/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :
Date Received:
Order #: 1120308
Submission #:
Sample Matrix: WATER
Analytical Run 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	19 J	UG/L
BENZENE	1.0	22	UG/L
BROMOBENZENE	2.0	19	UG/L
BROMOCHLOROMETHANE	2.0	22	UG/L
BROMODICHLOROMETHANE	1.0	19	UG/L
BROMOFORM	1.0	17	UG/L
BROMOMETHANE	2.0	21	UG/L
2-BUTANONE (MEK)	10	18	UG/L
TERT-BUTYL ALCOHOL	100	360	UG/L
METHYL-TERT-BUTYL ETHER	1.0	22	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	23	UG/L
TERT-BUTYLBENZENE	2.0	20	UG/L
SEC-BUTYLBENZENE	2.0	20	UG/L
N-BUTYLBENZENE	5.0	21	UG/L
CARBON TETRACHLORIDE	1.0	18	UG/L
CHLOROBENZENE	1.0	20	UG/L
CHLOROETHANE	2.0	23	UG/L
CHLOROFORM	1.0	22	UG/L
CHLOROMETHANE	2.0	22	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	15	UG/L
2-CHLOROTOLUENE	5.0	20	UG/L
4-CHLOROTOLUENE	5.0	20	UG/L
DIBROMOCHLOROMETHANE	1.0	18	UG/L
1,2-DIBROMOETHANE	1.0	19	UG/L
DIBROMOMETHANE	1.0	20	UG/L
1,2-DICHLOROBENZENE	2.0	19	UG/L
1,4-DICHLOROBENZENE	2.0	19	UG/L
1,3-DICHLOROBENZENE	2.0	19	UG/L
DICHLORODIFLUOROMETHANE	1.0	26	UG/L
1,1-DICHLOROETHANE	1.0	22	UG/L
1,2-DICHLOROETHANE	1.0	17	UG/L
1,1-DICHLOROETHENE	1.0	24	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	23	UG/L
CIS-1,2-DICHLOROETHENE	1.0	23	UG/L
2,2-DICHLOROPROPANE	2.0	22	UG/L
1,2-DICHLOROPROPANE	1.0	22	UG/L
1,3-DICHLOROPROPANE	2.0	19	UG/L
1,1-DICHLOROPROPENE	2.0	21	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	20	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	22	UG/L
ETHYLBENZENE	1.0	20	UG/L
HEXACHLOROBUTADIENE	5.0	18	UG/L
2-HEXANONE	10	13	UG/L
DI-ISOPROPYL ETHER	1.0	22	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : **Order #:** 1120308 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 1.00			
ISOPROPYLBENZENE	2.0	21	UG/L
P-ISOPROPYLTOLUENE	2.0	20	UG/L
TERT-AMYL-METHYL ETHER	1.0	23	UG/L
METHYLENE CHLORIDE	2.0	22	UG/L
NAPHTHALENE	2.0	17	UG/L
4-METHYL-2-PENTANONE	10	16	UG/L
N-PROPYLBENZENE	2.0	20	UG/L
STYRENE	1.0	21	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	18	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	20	UG/L
TETRACHLOROETHENE	1.0	19	UG/L
TOLUENE	1.0	21	UG/L
1,2,4-TRICHLOROBENZENE	2.0	19	UG/L
1,2,3-TRICHLOROBENZENE	2.0	19	UG/L
1,1,1-TRICHLOROETHANE	1.0	20	UG/L
1,1,2-TRICHLOROETHANE	1.0	21	UG/L
TRICHLOROETHENE	1.0	21	UG/L
TRICHLOROFLUOROMETHANE	1.0	20	UG/L
1,2,3-TRICHLOROPROPANE	2.0	17	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	20	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	20	UG/L
VINYL CHLORIDE	1.0	23	UG/L
M+P-XYLENE	2.0	42	UG/L
O-XYLENE	1.0	21	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	114	%
TOLUENE-D8	(70 - 130 %)	110	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	91	%

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1112.D Vial: 1
Acq On : 15 Jul 2008 1:40 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

112 0308 1.0

2-Hexanone ↓

FW 7/18/08

Quant Time: Jul 15 13:54:21 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1351120	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.635	114	2215220	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.854	117	2169812	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1202502	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	673914	45.40	ug/L	0.00
Spiked Amount 50.000			Recovery = 90.80%			
49) surr1,1,2-dichloroetha...	4.885	65	595196	42.75	ug/L	0.00
Spiked Amount 50.000			Recovery = 85.50%			
65) SURR3,Toluene-d8	7.445	98	2650889	54.97	ug/L	0.00
Spiked Amount 50.000			Recovery = 109.94%			
70) SURR2,BFB	9.896	95	1136199	57.21	ug/L	0.00
Spiked Amount 50.000			Recovery = 114.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.178	85	279013	25.83	ug/L	99
4) Chloromethane	1.288	50	222848	22.21	ug/L	99
5) Vinyl Chloride	1.355	62	235867	22.78	ug/L	100
6) Bromomethane	1.550	94	158930	21.49	ug/L	99
7) Chloroethane	1.611	64	130425	22.65	ug/L	99
8) Freon 21	1.715	67	414559	21.37	ug/L	99
9) Trichlorofluoromethane	1.763	101	358372	19.79	ug/L	99
10) Diethyl Ether	1.934	59	130395	21.36	ug/L	95
11) Freon 123a	1.928	67	210212	17.94	ug/L	95
12) Freon 123	1.965	83	278101	19.63	ug/L	98
13) Acrolein	2.019	56	71296	88.85	ug/L	96
14) 1,1-Diclethene	2.099	96	218746	23.99	ug/L	93
15) Freon 113	2.093	101	231563	23.78	ug/L	99
16) Acetone	2.123	43	32243	19.34	ug/L	85
17) 2-Propanol	2.196	45	133562	376.77	ug/L	97
18) Iodomethane	2.215	142	331104	24.24	ug/L	93
19) Carbon Disulfide	2.276	76	718698	20.56	ug/L	98
20) Acetonitrile	2.318	40	28804	123.49	ug/L	88
21) Allyl Chloride	2.355	76	119206	23.46	ug/L #	66
22) Methyl Acetate	2.355	43	111504	22.89	ug/L	95
23) Methylene Chloride	2.446	84	249296	22.03	ug/L	88
24) TBA	2.501	59	205713	365.75	ug/L	96
25) Acrylonitrile	2.635	53	245093	106.64	ug/L	99
26) Methyl-t-Butyl Ether	2.666	73	496506	21.50	ug/L	99
27) trans-1,2-Dichloroethene	2.672	96	244599	23.43	ug/L	93
28) 1,1-Diclethane	3.056	63	418210	21.75	ug/L	98
29) Vinyl Acetate	3.099	86	16501	15.38	ug/L	91
30) DIPE	3.117	45	624288	22.28	ug/L #	83
31) 2-Chloro-1,3-Butadiene	3.153	53	313108	20.98	ug/L	79
32) ETBE	3.513	59	597891	22.91	ug/L	97
33) 2,2-Dichloropropane	3.696	77	304369	22.16	ug/L	98
34) cis-1,2-Dichloroethene	3.696	96	263486	23.38	ug/L	93
35) 2-Butanone	3.714	43	49254	17.62	ug/L	92
37) Propionitrile	3.781	54	89979	104.08	ug/L	98
38) Bromochloromethane	4.001	130	154227	21.86	ug/L	95

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1112.D Vial: 1
Acq On : 15 Jul 2008 1:40 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:54:21 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Methacrylonitrile	3.989	67	59850	24.81	ug/L	#	76
40) Tetrahydrofuran	4.068	42	31350	19.53	ug/L	#	86
41) Chloroform	4.117	83	433240	22.10	ug/L		97
42) 1,1,1-Trichloroethane	4.385	97	352435	20.11	ug/L		96
43) TAME	5.208	73	495281	22.96	ug/L		94
45) Cyclohexane	4.464	41	168004	18.14	ug/L		94
47) Carbontetrachloride	4.635	121	101215	18.47	ug/L		97
48) 1,1-Dichloropropene	4.641	75	337193	21.48	ug/L		94
50) Benzene	4.982	78	983214	22.03	ug/L		95
51) 1,2-Dichloroethane	5.019	62	267702	17.37	ug/L		97
52) Iso-Butyl Alcohol	4.885	43	77771	319.75	ug/L		90
53) n-Heptane	5.476	43	195951	21.45	ug/L	#	90
54) Trichloroethene	5.988	130	256442	20.93	ug/L		99
55) Methylcyclohexane	6.232	55	283570	21.18	ug/L		90
56) 1,2-Diclpropane	6.281	63	248651	22.36	ug/L		97
57) Dibromomethane	6.427	93	129633	19.96	ug/L		100
58) 1,4-Dioxane	6.476	88	33716	379.78	ug/L		97
59) Methyl Methacrylate	6.482	69	99229	20.70	ug/L		83
60) Bromodichloromethane	6.641	83	307925	19.26	ug/L		99
62) 2-Chloroethylvinyl Ether	7.025	63	99934	25.60	ug/L		96
63) cis-1,3-Dichloropropene	7.165	75	362084	21.70	ug/L		98
64) 4-Methyl-2-pentanone	7.354	43	96943	15.73	ug/L		96
66) Toluene	7.518	91	1047585	21.47	ug/L		98
67) trans-1,3-Dichloropropene	7.762	75	288895	20.11	ug/L		99
68) Ethyl Methacrylate	7.884	69	202800	20.55	ug/L		84
69) 1,1,2-Trichloroethane	7.945	97	179495	20.84	ug/L		98
72) Tetrachloroethene	8.067	164	207666	19.19	ug/L		96
73) 2-Hexanone	8.207	43	63637	13.29	ug/L		88
74) 1,3-Dichloropropane	8.104	76	309977	18.83	ug/L		92
75) Dibromochloromethane	8.317	129	223641	18.05	ug/L		97
76) 1,2-Dibromoethane	8.415	107	179404	18.65	ug/L		97
77) Chlorobenzene	8.884	112	721341	19.98	ug/L		96
78) 1,1,1,2-Tetrachloroethane	8.963	131	238822	18.53	ug/L		96
79) Ethylbenzene	8.994	106	369532	20.29	ug/L		95
80) (m+p)Xylene	9.097	106	934617	42.37	ug/L		97
81) o-Xylene	9.445	106	444190	21.09	ug/L		95
82) Styrene	9.457	104	753720	20.95	ug/L		99
83) Bromoform	9.609	173	129690	17.06	ug/L		98
84) Isopropylbenzene	9.768	105	1123885	20.67	ug/L		98
85) Cyclohexanone	9.841	55	355561	361.04	ug/L		90
86) trans-1,4-Dichloro-2-B...	10.073	53	41666	21.30	ug/L	#	86
88) 1,1,2,2-Tetrachloroethane	10.024	83	221640	19.96	ug/L		98
89) Bromobenzene	10.018	156	297094	19.35	ug/L		98
91) 1,2,3-Trichloropropane	10.055	110	56408	17.00	ug/L		93
92) n-Propylbenzene	10.115	91	1360942	20.48	ug/L		99
93) 2-Chlorotoluene	10.183	91	823455	19.79	ug/L		97
94) 4-Chlorotoluene	10.274	91	985906	20.07	ug/L		95
95) 1,3,5-Trimethylbenzene	10.262	105	955369	20.16	ug/L		97
96) tert-Butylbenzene	10.530	119	778223	20.06	ug/L		98
97) 1,2,4-Trimethylbenzene	10.573	105	980377	20.01	ug/L		96
98) sec-Butylbenzene	10.713	105	1165215	20.52	ug/L		99
99) p-Isopropyltoluene	10.829	119	996792	20.14	ug/L		97

Quantitation Report (Not Reviewed)

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1112.D Vial: 1
Acq On : 15 Jul 2008 1:40 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

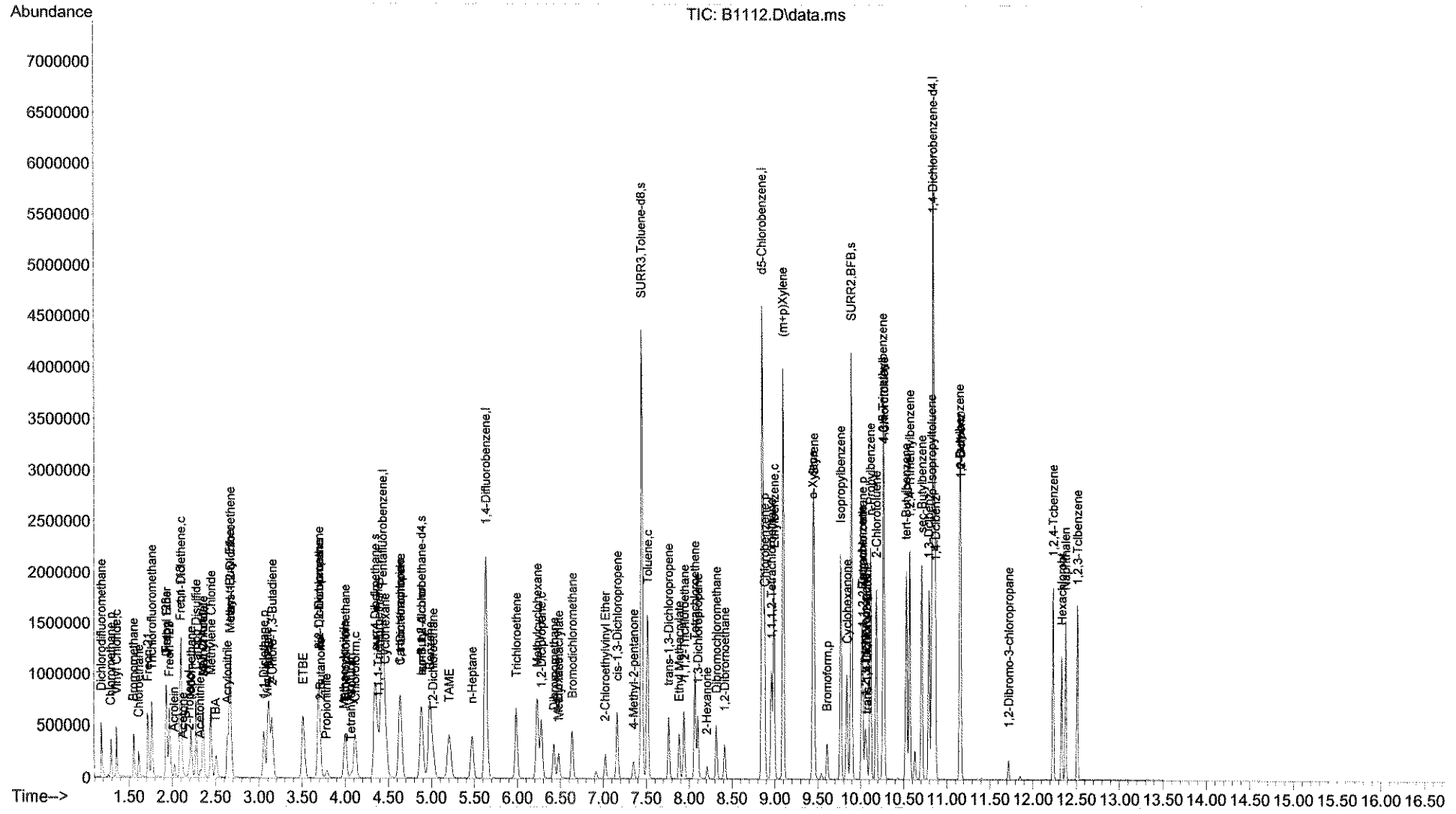
Quant Time: Jul 15 13:54:21 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) 1,3-Dclbenz	10.792	146	589682	19.47	ug/L	98
101) 1,4-Dclbenz	10.871	146	596117	19.02	ug/L	99
103) n-Butylbenzene	11.152	91	894843	20.90	ug/L	99
104) 1,2-Dclbenz	11.164	146	547617	19.20	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	36908	15.23	ug/L	96
107) 1,2,4-Tcbenzene	12.237	180	371173	19.07	ug/L	98
108) Hexachlorobt	12.335	225	146509	18.54	ug/L	97
109) Naphthalen	12.377	128	699109	16.78	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	336099	18.85	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : LCS
Data File : J:\ACQUDATA\MSVOA10\DATA\071508\B1112.D Vial: 1
Acq On : 15 Jul 2008 1:40 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 15 13:54:21 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 1120303 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

DATE ANALYZED : 07/15/08
ANALYTICAL DILUTION: 2.50

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	140	UG/L
BENZENE	1.0	140	UG/L
BROMOBENZENE	2.0	120	UG/L
BROMOCHLOROMETHANE	2.0	140	UG/L
BROMODICHLOROMETHANE	1.0	120	UG/L
BROMOFORM	1.0	120	UG/L
BROMOMETHANE	2.0	140	UG/L
2-BUTANONE (MEK)	10	110	UG/L
TERT-BUTYL ALCOHOL	100	2400	UG/L
METHYL-TERT-BUTYL ETHER	1.0	140	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	140	UG/L
TERT-BUTYLBENZENE	2.0	120	UG/L
SEC-BUTYLBENZENE	2.0	120	UG/L
N-BUTYLBENZENE	5.0	120	UG/L
CARBON TETRACHLORIDE	1.0	120	UG/L
CHLOROBENZENE	1.0	120	UG/L
CHLOROETHANE	2.0	150	UG/L
CHLOROFORM	1.0	680	UG/L
CHLOROMETHANE	2.0	150	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	100	UG/L
2-CHLOROTOLUENE	5.0	120	UG/L
4-CHLOROTOLUENE	5.0	120	UG/L
DIBROMOCHLOROMETHANE	1.0	120	UG/L
1,2-DIBROMOETHANE	1.0	120	UG/L
DIBROMOMETHANE	1.0	120	UG/L
1,2-DICHLOROBENZENE	2.0	120	UG/L
1,4-DICHLOROBENZENE	2.0	120	UG/L
1,3-DICHLOROBENZENE	2.0	120	UG/L
DICHLORODIFLUOROMETHANE	1.0	170	UG/L
1,1-DICHLOROETHANE	1.0	140	UG/L
1,2-DICHLOROETHANE	1.0	110	UG/L
1,1-DICHLOROETHENE	1.0	150	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	150	UG/L
CIS-1,2-DICHLOROETHENE	1.0	150	UG/L
2,2-DICHLOROPROPANE	2.0	120	UG/L
1,2-DICHLOROPROPANE	1.0	140	UG/L
1,3-DICHLOROPROPANE	2.0	120	UG/L
1,1-DICHLOROPROPENE	2.0	140	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	130	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	130	UG/L
ETHYLBENZENE	1.0	130	UG/L
HEXACHLOROBUTADIENE	5.0	98	UG/L
2-HEXANONE	10	93	UG/L
DI-ISOPROPYL ETHER	1.0	140	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 1120303 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 2.50			
ISOPROPYLBENZENE	2.0	130	UG/L
P-ISOPROPYLTOLUENE	2.0	120	UG/L
TERT-AMYL-METHYL ETHER	1.0	150	UG/L
METHYLENE CHLORIDE	2.0	140	UG/L
NAPHTHALENE	2.0	110	UG/L
4-METHYL-2-PENTANONE	10	110	UG/L
N-PROPYLBENZENE	2.0	130	UG/L
STYRENE	1.0	21	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	120	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	120	UG/L
TETRACHLOROETHENE	1.0	120	UG/L
TOLUENE	1.0	140	UG/L
1,2,4-TRICHLOROBENZENE	2.0	120	UG/L
1,2,3-TRICHLOROBENZENE	2.0	110	UG/L
1,1,1-TRICHLOROETHANE	1.0	130	UG/L
1,1,2-TRICHLOROETHANE	1.0	130	UG/L
TRICHLOROETHENE	1.0	140	UG/L
TRICHLOROFLUOROMETHANE	1.0	130	UG/L
1,2,3-TRICHLOROPROPANE	2.0	110	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	94	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	120	UG/L
VINYL CHLORIDE	1.0	160	UG/L
M+P-XYLENE	2.0	260	UG/L
O-XYLENE	1.0	130	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	117	%
TOLUENE-D8	(70 - 130 %)	111	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	94	%

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5 MS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1102.D Vial: 18
Acq On : 15 Jul 2008 12:06 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

1120303 2.5

DCDFM ↑
Styrene ↓

FN 7/17/08

Quant Time: Jul 15 00:20:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.434	168	1369548	50.00	ug/L		0.00
44) 1,4-Difluorobenzene	5.641	114	2283626	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.860	117	2262705	50.00	ug/L		0.00
87) 1,4-Dichlorobenzene-d4	10.847	152	1290900	50.00	ug/L		0.00
System Monitoring Compounds							
46) surr4,Dibrflmethane	4.348	113	711133	46.86	ug/L		0.00
Spiked Amount 50.000			Recovery =	93.72%			
49) surr1,1,2-dichloroetha...	4.891	65	643048	44.80	ug/L		0.00
Spiked Amount 50.000			Recovery =	89.60%			
65) SURR3,Toluene-d8	7.451	98	2768376	55.69	ug/L		0.00
Spiked Amount 50.000			Recovery =	111.38%			
70) SURR2,BFB	9.896	95	1198033	58.52	ug/L		0.00
Spiked Amount 50.000			Recovery =	117.04%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.184	85	731550	66.80	ug/L		98 *
4) Chloromethane	1.294	50	603838	59.38	ug/L		100
5) Vinyl Chloride	1.355	62	659929	62.88	ug/L		99
6) Bromomethane	1.556	94	419425	55.94	ug/L		100
7) Chloroethane	1.611	64	355340	60.87	ug/L		99
8) Freon 21	1.721	67	1153333	58.65	ug/L		99
9) Trichlorofluoromethane	1.763	101	977673	53.26	ug/L		99
10) Diethyl Ether	1.934	59	347025	56.07	ug/L		95
11) Freon 123a	1.928	67	574156	48.34	ug/L		93
12) Freon 123	1.971	83	755991	52.64	ug/L		99
13) Acrolein	2.026	56	148514	182.60	ug/L		97
14) 1,1-Diclethene	2.105	96	571250	61.82	ug/L		89
15) Freon 113	2.093	101	572810	58.04	ug/L		100
16) Acetone	2.123	43	91878	54.37	ug/L		84
17) 2-Propanol	2.196	45	337006	937.87	ug/L		100
18) Iodomethane	2.215	142	879417	63.53	ug/L		94
19) Carbon Disulfide	2.276	76	1943308	54.85	ug/L		99
20) Acetonitrile	2.324	40	80067	338.65	ug/L		93
21) Allyl Chloride	2.355	76	254648	49.44	ug/L		73
22) Methyl Acetate	2.355	43	284280	57.57	ug/L		94
23) Methylene Chloride	2.446	84	638408	55.66	ug/L		92
24) TBA	2.507	59	542668	951.87	ug/L		98
25) Acrylonitrile	2.641	53	659411	283.05	ug/L		98
26) Methyl-t-Butyl Ether	2.666	73	1295907	55.37	ug/L		99
27) trans-1,2-Dichloroethene	2.678	96	639044	60.39	ug/L		94
28) 1,1-Diclethane	3.062	63	1099150	56.40	ug/L		99
29) Vinyl Acetate	3.105	86	31481	26.85	ug/L		1
30) DIPE	3.117	45	1603984	56.49	ug/L	#	79
31) 2-Chloro-1,3-Butadiene	3.153	53	792336	52.39	ug/L		82
32) ETBE	3.519	59	1537836	58.13	ug/L		97
33) 2,2-Dichloropropane	3.702	77	653452	46.93	ug/L		97
34) cis-1,2-Dichloroethene	3.696	96	682422	59.74	ug/L		92
35) 2-Butanone	3.714	43	129695	45.76	ug/L	#	91
37) Propionitrile	3.787	54	242591	276.84	ug/L		98
38) Bromochloromethane	4.007	130	401995	56.21	ug/L		95

00245

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5 MS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1102.D Vial: 18
Acq On : 15 Jul 2008 12:06 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 00:20:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
39) Methacrylonitrile	3.989	67	157249	64.30 ug/L		82
40) Tetrahydrofuran	4.074	42	86127	52.93 ug/L		88
41) Chloroform	4.117	83	5419495	272.74 ug/L		98
42) 1,1,1-Trichloroethane	4.385	97	937604	52.77 ug/L		98
43) TAME	5.208	73	1278295	58.47 ug/L		95
45) Cyclohexane	4.464	41	464405	48.64 ug/L		96
47) Carbontetrachloride	4.641	121	271925	48.14 ug/L		88
48) 1,1-Dichloropropene	4.641	75	889351	54.97 ug/L		95
50) Benzene	4.988	78	2581458	56.10 ug/L		95
51) 1,2-Dichloroethane	5.025	62	706228	44.46 ug/L		98
52) Iso-Butyl Alcohol	4.885	43	208795	731.78 ug/L		99
53) n-Heptane	5.476	43	439193	46.63 ug/L		90
54) Trichloroethene	5.994	130	724278	57.33 ug/L		99
55) Methylcyclohexane	6.238	55	751171	54.42 ug/L		88
56) 1,2-Diclpropane	6.281	63	660218	57.60 ug/L		98
57) Dibromomethane	6.427	93	335663	50.15 ug/L		97
58) 1,4-Dioxane	6.476	88	80412	878.63 ug/L		95
59) Methyl Methacrylate	6.482	69	273038	52.83 ug/L		87
60) Bromodichloromethane	6.641	83	814834	49.43 ug/L		99
63) cis-1,3-Dichloropropene	7.165	75	918298	53.39 ug/L		99
64) 4-Methyl-2-pentanone	7.354	43	274850	43.27 ug/L		92
66) Toluene	7.518	91	2757082	54.82 ug/L		99
67) trans-1,3-Dichloropropene	7.768	75	760343	51.34 ug/L		98
68) Ethyl Methacrylate	7.884	69	582630	54.50 ug/L		90
69) 1,1,2-Trichloroethane	7.945	97	476417	53.66 ug/L		99
72) Tetrachloroethene	8.073	164	535339	47.44 ug/L		99
73) 2-Hexanone	8.213	43	185707	37.18 ug/L		92
74) 1,3-Dichloropropane	8.104	76	828683	48.27 ug/L		92
75) Dibromochloromethane	8.317	129	608078	47.06 ug/L		99
76) 1,2-Dibromoethane	8.415	107	471804	47.03 ug/L		99
77) Chlorobenzene	8.884	112	1847608	49.09 ug/L		97
78) 1,1,1,2-Tetrachloroethane	8.963	131	631201	46.97 ug/L		97
79) Ethylbenzene	8.994	106	992357	52.24 ug/L		94
80) (m+p)Xylene	9.104	106	2418328	105.13 ug/L		96
81) o-Xylene	9.445	106	1175782	53.52 ug/L		96
82) Styrene	9.457	104	312273	8.32 ug/L	#	70
83) Bromoform	9.616	173	392471	49.52 ug/L		100
84) Isopropylbenzene	9.768	105	2997292	52.86 ug/L		99
85) Cyclohexanone	9.841	55	228012	222.02 ug/L		90
86) trans-1,4-Dichloro-2-B...	10.073	53	109896	53.88 ug/L		89
88) 1,1,2,2-Tetrachloroethane	10.024	83	595840	49.98 ug/L		98
89) Bromobenzene	10.018	156	764722	46.40 ug/L		97
91) 1,2,3-Trichloropropane	10.055	110	152226	42.74 ug/L		93
92) n-Propylbenzene	10.116	91	3622555	50.78 ug/L		99
93) 2-Chlorotoluene	10.183	91	2176257	48.73 ug/L		98
94) 4-Chlorotoluene	10.274	91	2503615	47.47 ug/L		97
95) 1,3,5-Trimethylbenzene	10.262	105	1905614	37.46 ug/L		99
96) tert-Butylbenzene	10.530	119	2088339	50.14 ug/L		99
97) 1,2,4-Trimethylbenzene	10.573	105	2558260	48.64 ug/L		97
98) sec-Butylbenzene	10.713	105	3065855	50.29 ug/L		99
99) p-Isopropyltoluene	10.829	119	2614433	49.21 ug/L		97
100) 1,3-Dclbenz	10.798	146	1515736	46.61 ug/L		99

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5 MS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1102.D Vial: 18
Acq On : 15 Jul 2008 12:06 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 00:20:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

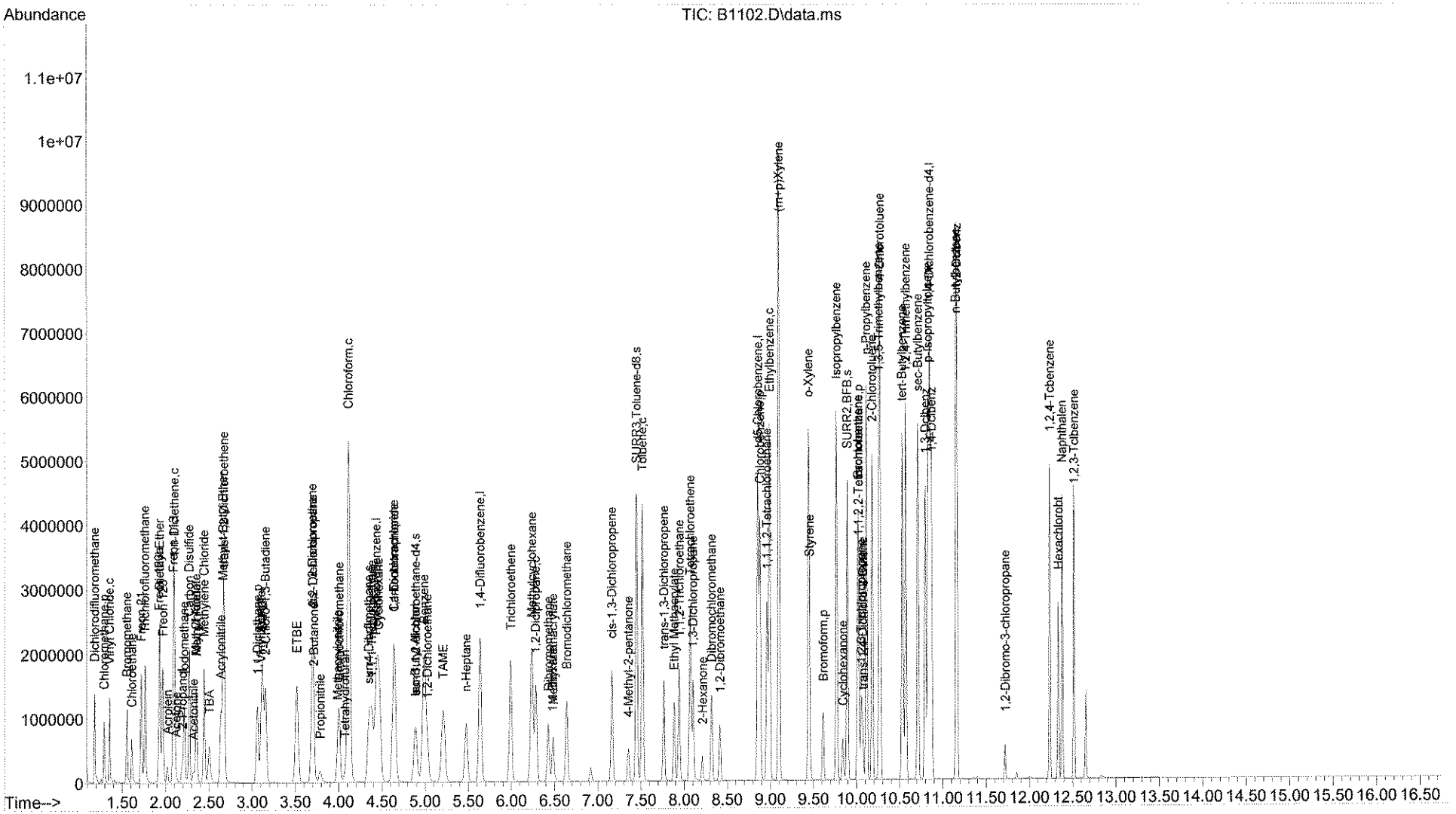
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) 1,4-Dclbenz	10.871	146	1578468	46.92 ug/L	99
103) n-Butylbenzene	11.152	91	2304443	50.13 ug/L	100
104) 1,2-Dclbenz	11.164	146	1439352	47.01 ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	105527	40.56 ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	969994	46.42 ug/L	98
108) Hexachlorobt	12.335	225	331717	39.10 ug/L	100
109) Naphthalen	12.377	128	1933962	42.41 ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	878315	45.89 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5 MS
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1102.D Vial: 18
Acq On : 15 Jul 2008 12:06 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 00:20:33 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 1120304 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 2.50			
ACETONE	20	110	UG/L
BENZENE	1.0	140	UG/L
BROMOBENZENE	2.0	120	UG/L
BROMOCHLOROMETHANE	2.0	140	UG/L
BROMODICHLOROMETHANE	1.0	120	UG/L
BROMOFORM	1.0	120	UG/L
BROMOMETHANE	2.0	140	UG/L
2-BUTANONE (MEK)	10	110	UG/L
TERT-BUTYL ALCOHOL	100	2400	UG/L
METHYL-TERT-BUTYL ETHER	1.0	140	UG/L
ETHYL-TERT-BUTYL ETHER	1.0	150	UG/L
TERT-BUTYLBENZENE	2.0	130	UG/L
SEC-BUTYLBENZENE	2.0	130	UG/L
N-BUTYLBENZENE	5.0	130	UG/L
CARBON TETRACHLORIDE	1.0	120	UG/L
CHLOROBENZENE	1.0	120	UG/L
CHLOROETHANE	2.0	150	UG/L
CHLOROFORM	1.0	660	UG/L
CHLOROMETHANE	2.0	150	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	100	UG/L
2-CHLOROTOLUENE	5.0	120	UG/L
4-CHLOROTOLUENE	5.0	120	UG/L
DIBROMOCHLOROMETHANE	1.0	120	UG/L
1,2-DIBROMOETHANE	1.0	120	UG/L
DIBROMOMETHANE	1.0	120	UG/L
1,2-DICHLOROBENZENE	2.0	120	UG/L
1,4-DICHLOROBENZENE	2.0	120	UG/L
1,3-DICHLOROBENZENE	2.0	120	UG/L
DICHLORODIFLUOROMETHANE	1.0	160	UG/L
1,1-DICHLOROETHANE	1.0	140	UG/L
1,2-DICHLOROETHANE	1.0	110	UG/L
1,1-DICHLOROETHENE	1.0	160	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	150	UG/L
CIS-1,2-DICHLOROETHENE	1.0	150	UG/L
2,2-DICHLOROPROPANE	2.0	120	UG/L
1,2-DICHLOROPROPANE	1.0	140	UG/L
1,3-DICHLOROPROPANE	2.0	120	UG/L
1,1-DICHLOROPROPENE	2.0	140	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	130	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	140	UG/L
ETHYLBENZENE	1.0	130	UG/L
HEXACHLOROBUTADIENE	5.0	100	UG/L
2-HEXANONE	10	93	UG/L
DI-ISOPROPYL ETHER	1.0	140	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B.DOD
Reported: 08/07/08

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 1120304 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164472

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/15/08			
ANALYTICAL DILUTION: 2.50			
ISOPROPYLBENZENE	2.0	130	UG/L
P-ISOPROPYLTOLUENE	2.0	120	UG/L
TERT-AMYL-METHYL ETHER	1.0	150	UG/L
METHYLENE CHLORIDE	2.0	140	UG/L
NAPHTHALENE	2.0	110	UG/L
4-METHYL-2-PENTANONE	10	110	UG/L
N-PROPYLBENZENE	2.0	130	UG/L
STYRENE	1.0	18	UG/L
1,1,1,2-TETRACHLOROETHANE	1.0	120	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	130	UG/L
TETRACHLOROETHENE	1.0	120	UG/L
TOLUENE	1.0	140	UG/L
1,2,4-TRICHLOROBENZENE	2.0	120	UG/L
1,2,3-TRICHLOROBENZENE	2.0	120	UG/L
1,1,1-TRICHLOROETHANE	1.0	130	UG/L
1,1,2-TRICHLOROETHANE	1.0	130	UG/L
TRICHLOROETHENE	1.0	150	UG/L
TRICHLOROFLUOROMETHANE	1.0	130	UG/L
1,2,3-TRICHLOROPROPANE	2.0	110	UG/L
1,3,5-TRIMETHYLBENZENE	2.0	94	UG/L
1,2,4-TRIMETHYLBENZENE	2.0	120	UG/L
VINYL CHLORIDE	1.0	160	UG/L
M+P-XYLENE	2.0	260	UG/L
O-XYLENE	1.0	140	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	116	%
TOLUENE-D8	(70 - 130 %)	111	%
DIBROMOFLUOROMETHANE	(70 - 130 %)	92	%

Quantitation Report (Not Reviewed)

DCDFM ↑
Styrene ↓

Sample : 1114421 2.5 MSD
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1103.D Vial: 19
Acq On : 15 Jul 2008 12:35 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

1120304 2.5

FID 7/17/08

Quant Time: Jul 15 00:50:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.434	168	1436383	50.00	ug/L	0.00
44) 1,4-Difluorobenzene	5.635	114	2363307	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.860	117	2328930	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	10.853	152	1317457	50.00	ug/L	0.00
System Monitoring Compounds						
46) surr4,Dibrflmethane	4.348	113	727050	46.10	ug/L	0.00
Spiked Amount 50.000			Recovery = 92.20%			
49) surr1,1,2-dichloroetha...	4.891	65	650719	43.80	ug/L	0.00
Spiked Amount 50.000			Recovery = 87.60%			
65) SURR3,Toluene-d8	7.445	98	2849837	55.40	ug/L	0.00
Spiked Amount 50.000			Recovery = 110.80%			
70) SURR2,BFB	9.896	95	1230655	58.09	ug/L	0.00
Spiked Amount 50.000			Recovery = 116.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	761452	66.30	ug/L	99
4) Chloromethane	1.294	50	641646	60.16	ug/L	100
5) Vinyl Chloride	1.355	62	695330	63.17	ug/L	99
6) Bromomethane	1.556	94	439781	55.93	ug/L	100
7) Chloroethane	1.611	64	373754	61.05	ug/L	99
8) Freon 21	1.721	67	1175358	56.99	ug/L	99
9) Trichlorofluoromethane	1.763	101	1001829	52.04	ug/L	98
10) Diethyl Ether	1.934	59	360344	55.51	ug/L	94
11) Freon 123a	1.928	67	587703	47.18	ug/L	93
12) Freon 123	1.971	83	786776	52.23	ug/L	98
13) Acrolein	2.026	56	151329	177.40	ug/L	98
14) 1,1-Diclethene	2.105	96	606710	62.60	ug/L	90
15) Freon 113	2.093	101	622491	60.14	ug/L	96
16) Acetone	2.123	43	78176	44.11	ug/L	85
17) 2-Propanol	2.196	45	377944	1002.86	ug/L	98
18) Iodomethane	2.221	142	906100	62.41	ug/L	92
19) Carbon Disulfide	2.276	76	1989701	53.55	ug/L	99
20) Acetonitrile	2.318	40	71049	286.53	ug/L	87
21) Allyl Chloride	2.355	76	278452	51.55	ug/L	69
22) Methyl Acetate	2.355	43	288703	55.75	ug/L	95
23) Methylene Chloride	2.446	84	663822	55.18	ug/L	92
24) TBA	2.507	59	584499	977.54	ug/L	98
25) Acrylonitrile	2.641	53	679759	278.21	ug/L	100
26) Methyl-t-Butyl Ether	2.666	73	1368954	55.77	ug/L	99
27) trans-1,2-Dichloroethene	2.678	96	668628	60.25	ug/L	93
28) 1,1-Diclethane	3.062	63	1150563	56.29	ug/L	99
29) Vinyl Acetate	3.099	86	31459	25.69	ug/L	74
30) DIPE	3.117	45	1681211	56.45	ug/L #	78
31) 2-Chloro-1,3-Butadiene	3.153	53	803520	50.65	ug/L	80
32) ETBE	3.519	59	1635544	58.95	ug/L	97
33) 2,2-Dichloropropane	3.702	77	688507	47.15	ug/L	98
34) cis-1,2-Dichloroethene	3.696	96	719060	60.02	ug/L	89
35) 2-Butanone	3.714	43	130499	43.91	ug/L	92
37) Propionitrile	3.787	54	246892	268.64	ug/L	97
38) Bromochloromethane	4.007	130	417481	55.66	ug/L	94

Sample : 1114421 2.5 MSD
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1103.D Vial: 19
Acq On : 15 Jul 2008 12:35 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 00:50:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	Methacrylonitrile	3.995	67	163321	63.68	ug/L		78
40)	Tetrahydrofuran	4.068	42	85563	50.13	ug/L		86
41)	Chloroform	4.117	83	5544495	266.05	ug/L		97
42)	1,1,1-Trichloroethane	4.385	97	986699	52.95	ug/L		100
43)	TAME	5.208	73	1363335	59.46	ug/L		94
45)	Cyclohexane	4.464	41	472821	47.85	ug/L		95
47)	Carbontetrachloride	4.641	121	287629	49.20	ug/L		98
48)	1,1-Dichloropropene	4.641	75	935244	55.86	ug/L		95
50)	Benzene	4.988	78	2697158	56.64	ug/L		95
51)	1,2-Dichloroethane	5.025	62	725339	44.12	ug/L		97
52)	Iso-Butyl Alcohol	4.885	43	217486	736.14	ug/L		95
53)	n-Heptane	5.476	43	459635	47.16	ug/L		90
54)	Trichloroethene	5.994	130	767831	58.73	ug/L		99
55)	Methylcyclohexane	6.232	55	763237	53.43	ug/L		92
56)	1,2-Diclpropane	6.281	63	680536	57.38	ug/L		99
57)	Dibromomethane	6.427	93	347292	50.14	ug/L		100
58)	1,4-Dioxane	6.482	88	87260	921.31	ug/L		100
59)	Methyl Methacrylate	6.482	69	289113	54.02	ug/L		86
60)	Bromodichloromethane	6.641	83	846031	49.59	ug/L		99
63)	cis-1,3-Dichloropropene	7.165	75	970344	54.52	ug/L		100
64)	4-Methyl-2-pentanone	7.354	43	280921	42.73	ug/L		94
66)	Toluene	7.518	91	2879638	55.32	ug/L		99
67)	trans-1,3-Dichloropropene	7.768	75	792351	51.70	ug/L		98
68)	Ethyl Methacrylate	7.884	69	606212	54.79	ug/L		88
69)	1,1,2-Trichloroethane	7.945	97	486864	52.98	ug/L		97
72)	Tetrachloroethene	8.073	164	559456	48.17	ug/L		99
73)	2-Hexanone	8.213	43	190574	37.07	ug/L	#	89
74)	1,3-Dichloropropane	8.104	76	851604	48.19	ug/L		91
75)	Dibromochloromethane	8.317	129	635239	47.76	ug/L		99
76)	1,2-Dibromoethane	8.415	107	491709	47.62	ug/L		99
77)	Chlorobenzene	8.884	112	1947153	50.26	ug/L		97
78)	1,1,1,2-Tetrachloroethane	8.963	131	663867	48.00	ug/L		96
79)	Ethylbenzene	8.994	106	1028495	52.61	ug/L		96
80)	(m+p)Xylene	9.097	106	2514728	106.21	ug/L		99
81)	o-Xylene	9.445	106	1224587	54.16	ug/L		96
82)	Styrene	9.457	104	272383	7.05	ug/L	#	64
83)	Bromoform	9.616	173	407843	50.00	ug/L		99
84)	Isopropylbenzene	9.768	105	3147664	53.93	ug/L		99
85)	Cyclohexanone	9.841	55	240285	227.32	ug/L		89
86)	trans-1,4-Dichloro-2-B...	10.073	53	112148	53.42	ug/L	#	83
88)	1,1,2,2-Tetrachloroethane	10.024	83	614249	50.49	ug/L		99
89)	Bromobenzene	10.018	156	802583	47.71	ug/L		98
91)	1,2,3-Trichloropropane	10.055	110	156731	43.12	ug/L		94
92)	n-Propylbenzene	10.115	91	3744577	51.43	ug/L		99
93)	2-Chlorotoluene	10.183	91	2252115	49.41	ug/L		97
94)	4-Chlorotoluene	10.274	91	2598832	48.28	ug/L		97
95)	1,3,5-Trimethylbenzene	10.262	105	1963133	37.82	ug/L		96
96)	tert-Butylbenzene	10.530	119	2183579	51.37	ug/L		98
97)	1,2,4-Trimethylbenzene	10.573	105	2681952	49.97	ug/L		98
98)	sec-Butylbenzene	10.713	105	3204245	51.50	ug/L		99
99)	p-Isopropyltoluene	10.829	119	2719389	50.16	ug/L		98
100)	1,3-Dclbenz	10.798	146	1583839	47.73	ug/L		99

Quantitation Report (Not Reviewed)

Sample : 1114421 2.5 MSD
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1103.D Vial: 19
Acq On : 15 Jul 2008 12:35 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

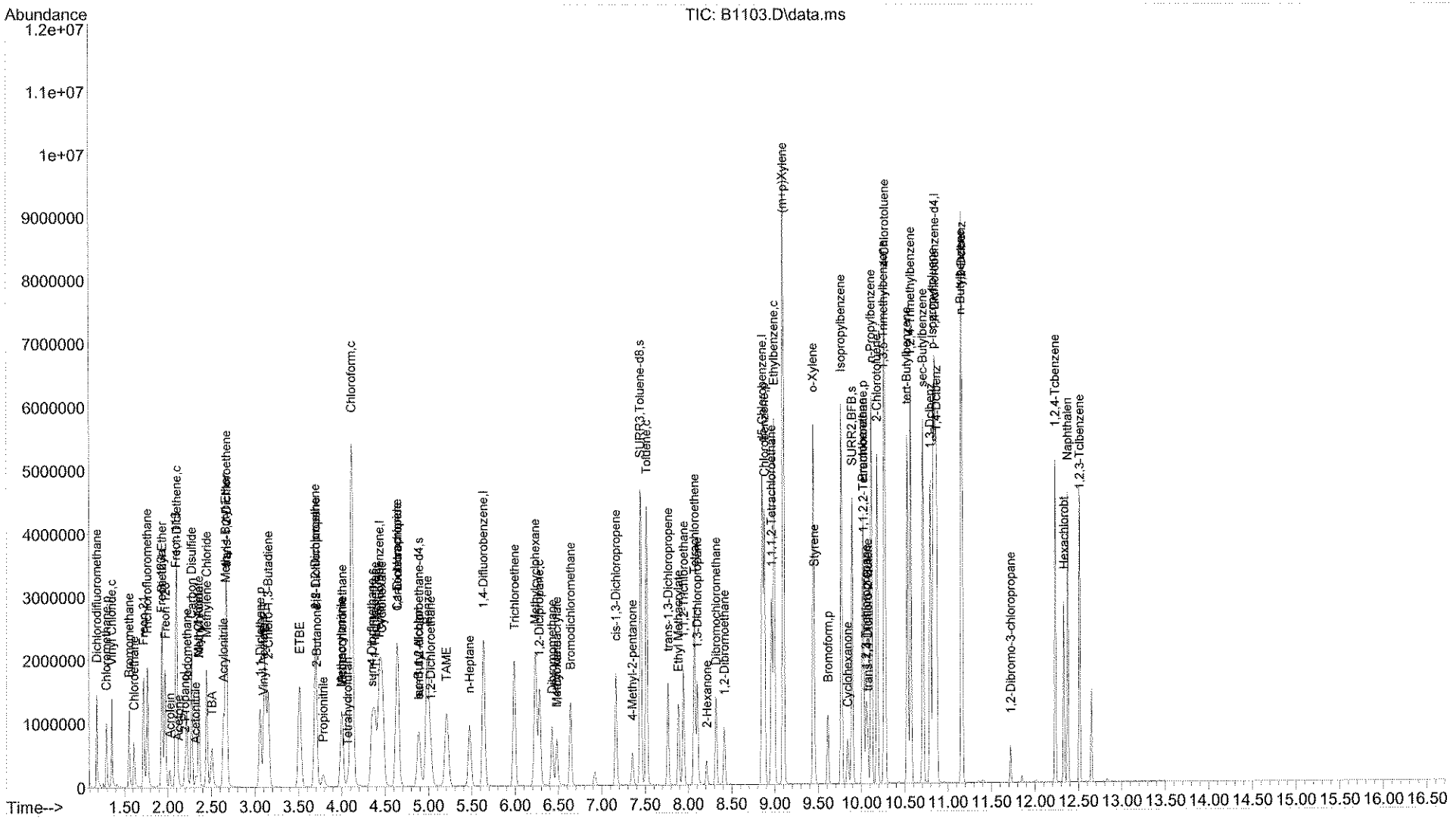
Quant Time: Jul 15 00:50:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,4-Dclbenz	10.871	146	1628533	47.44	ug/L	99
103) n-Butylbenzene	11.152	91	2395276	51.05	ug/L	100
104) 1,2-Dclbenz	11.164	146	1489926	47.68	ug/L	99
105) 1,2-Dibromo-3-chloropr...	11.719	157	110391	41.58	ug/L	99
107) 1,2,4-Tcbenzene	12.237	180	1014158	47.56	ug/L	98
108) Hexachlorobt	12.335	225	349835	40.40	ug/L	99
109) Naphthalen	12.377	128	1999096	42.95	ug/L	99
110) 1,2,3-Tclbenzene	12.517	180	914013	46.79	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 1114421 2.5 MSD
Data File : J:\ACQUDATA\MSVOA10\DATA\071408\B1103.D Vial: 19
Acq On : 15 Jul 2008 12:35 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc : ENSR R-44803 8260B.DODO

Quant Time: Jul 15 00:50:18 2008
Quant Method : J:\ACQUDATA\MSVOA10\METHODS\WAT0626.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jun 30 10:06:04 2008
Response via : Initial Calibration



128 MS #10 8260B. WATER T062608.M WAT0626.M

6/26/08 /062608/B...

POS	SAMPLE	FILE ID	OK	COMMENTS
1	BLK	B0765	Y	
2	BLK	B0766	Y	
1	TUNE	B0767	Y_T	
2	TUNE	B0768	Y_T	
3	INST BLK	B0769	Y	
4	0.5 PPB STD	B0770	Y	
5	1.0 PPB STD	B0771	Y	
6	2.0 PPB STD	B0772	Y	
7	5.0 PPB STD	B0773	Y	
8	10 PPB STD	B0774	Y	
9	50 PPB STD	B0775	Y	
10	100 PPB STD	B0776	Y	
11	150 PPB STD	B0777	Y	
12	200 PPB STD	B0778	Y	
13	BLK	B0779	–	
14	BLK	B0780	–	
15	50 PPB ICV	B0781	Y_{ac}	trans 1/4 di. Hard 26 Acc ↑

MS#10

6/27/08

POS	SAMPLE
1	BLK
2	BLK
3	TUNE
4	TUNE
5	CCV
6	LCS
7	BLK MET
8	MET BLK
9	.3 PPB
10	
11	
12	
13	
14	
15	
16	~~.5 PPB~~
17	.5 PPB
18	
19	
20	
21	
22	
23	
24	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	10	50	100	150	200
1° T/G 500 MSVD134J	10mL/1mL 5mL/50mL	then 10mL/50mL	20mL/50mL	→ 50mL/50mL	2.0mL/100mL	5mL/50mL	10mL/50mL	15mL/50mL	20mL/50mL
1° HSL 500 MSVD143A	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Freon 200 MSVD136N	25mL/1mL 5mL/50mL	then 10mL/50mL	20mL/50mL	→ 50mL/50mL	5mL/100mL	12.5mL/50mL	25mL/50mL	37.5mL/50mL	50mL/50mL
1° OXY 500 MSVD146M	10mL/1mL 5mL/50mL	then 1mL/50mL	2mL/50mL	→ 5mL/50mL	2.0mL/100mL	5mL/50mL	10mL/50mL	15mL/50mL	20mL/50mL
SURR 500 MSVD132D	—	—	—	1mL/50mL	4mL/100mL	—	5mL/50mL	7.5mL/50mL	10mL/50mL

2° T/G 500 MSVD145C - 5mL
2° HSL 500 MSVD146G - 5mL
2° Freon 500 MSVD138A - 5mL
2° OXY 500 MSVD133A - 5mL

50mL (ICV)

POS	DIL	FILE OK	COMMENT
19	-	B1066	Y_T
20	-	B1067	Y_T
21	-	B1068	Y_C
22	-	B1069	Y_Q
23	-	B1070	—
24	-	B1071	Y_{MB}
25	-	B1072	Y
26	-	B1073	Y
27	-	B1074	Y
28	-	B1075	Y
29	-	B1076	Y
30	-	B1077	Y
31	-	B1078	Y
32	-	B1079	Y

pH	SAMPLE	POS	DIL	FILE OK	COMMENTS
	BLK RUN # 164472	1	-	B1080	Y
	BLK	2	-	B1081	Y
	1.0ppb MDL CHECK	1	-	B1082	Y
	TUNE	1	-	B1084	Y
	TUNE	1	-	B1084	Y_T
	CCV	1	-	B1085	Y_C
	LCS 1120302	2	-	B1086	Y_Q DCDFM ↑
	MBLK	3	-	B1087	—
	MBLK 1120301	4	-	B1088	Y_{MB}
22	1116405-1 [redacted R-44889 8260B.WSLI]	5	1/1	B1089	Y
22	1116406-1 ↓	6	1/1	B1090	Y
22	1114422-2 [redacted R-44803 8260B.DODO]	7	1/1	B1091	Y
22	1114758-1	8	1/1	B1092	Y
22	1114759-1	9	1/1	B1093	Y
22	1114419-2	10	1/5	B1094	Y
22	1114420-2	11	1/5	B1095	Y
22	(1114421-1)	12	1/2.5	B1096	(Y) ROT 1/5
22	1114756-2	13	1/10	B1097	Y
22	1114856-1 [redacted R-44831 8260B.WSTF]	14	1/1	B1098	Y
22	1114857-1 ↓	15	1/1	B1099	Y
22	1115323-1 [redacted R-44846 8260B.WSTF]	16	1/1	B1100	Y
22	1115324-1 ↓	17	1/1	B1101	Y
22	1114421-3MS [redacted R-44803 8260B.DODO]	18	1/2.5	B1102	Y 1120303
22	1114421-3MSD ↓	19	1/2.5	B1103	Y 1120304
	3.0ppb MDL CHECK	20	-	B1104	Y
	5.0ppb MDL CHECK	21	-	B1105	Y

nve)

nL (CCV)

mL (LCS) 5mL, 5mL, 5mL, 5mL / 50mL (SPK)

mple

SURR(500) MSVD1147B - 1mL/100mL (TUNE)

SURR(500) MSVD1143D - 1mL/10mL sample

1° T/G (500)	MSVD1139J	5mL	50mL (CCV)
1° HSL (500)	MSVD1143A	5mL	
1° Fr (200)	MSVD1146N	1mL	
1° Oxy (500)	MSVD1146M	5mL	
2° T/G (500)	MSVD1145C	2mL	50mL (LCS)
2° HSL (500)	MSVD1146G	2mL	
2° Fr (500)	MSVD1138A	2mL	
2° Oxy (500)	MSVD1147J	2mL	

5mL, 5mL, 5mL, 5mL / 50mL (SPK)

144 MS#10 8260B.WAT T062608.M

7/15/08 /071508/B... WAT0626.M

pH	SAMPLE		POS	DIL	FILE	OK	COMMENT
	BLK	RUN # 164472	1	-	B1106	Y	
	BLK		2	-	B1107	Y	
	TUNE		1	-	B1108	(N)	
	TUNE		1	-	B1109	(N)	Retune
	TUNE		1	-	B1110	Y_T	
	CCV		1	-	B1111	Y_C	
	LCS	1120308	1	-	B1112	Y_Q	
	MBLK		1	-	B1113	-	
	MBLK	1120307	2	-	B1114	Y_{MB}	
<2	1116938-1	[redacted] R-44911 8260B.WSL1	3	1.0	B1115	Y	
<2	1116939-1		4	1.0	B1116	Y	
<2	1116940-1		5	1.0	B1117	Y	
<2	1116941-1		6	1.0	B1118	Y	
<2	1114421-4	[redacted] R-44803 8260B.DOD0]	7	5.0	B1119	Y	DL
<2	1116415-1	[redacted] R-44890 8260B.WSTF]	8	1.0	B1120	Y	
<2	1116416-1	↓	9	1.0	B1121	Y	
<2	1116417-1		10	1.0	B1122	Y	
<2	1116418-1		11	1.0	B1123	Y	
<2	1116419-1	[redacted] R-44891 8260B.WSTF]	12	1.0	B1124	Y	
<2	1116420-1	↓	13	1.0	B1125	Y	
<2	1116942-1	[redacted] R-44912 8260B.WSTF]	14	1.0	B1126	Y	
<2	1116943-1	↓	15	1.0	B1127	Y	
	BS		16	-	B1128	Y	VC & 11-DCE↑
	BSD		17	-	B1129	Y	

Tom R Nguyen

SURR (500) MSVD147B - 1mL/100mL (TUNE)

1° T/G (500) MSVD139J	- 5mL	50mL (CCV)
1° HSL (500) MSVD143A	- 5mL	
1° Fr (200) MSVD146N	- 12.5mL	
1° Oxy (500) MSVD146M	- 5mL	
2° T/G (500) MSVD145C	- 2mL	50mL (LCS)
2° HSL (500) MSVD146G	- 2mL	
2° Fr (500) MSVD138A	- 2mL	
2° Oxy (500) MSVD147J	- 2mL	

5mL, 5mL, 5mL, 5mL / 50mL (SPK)

COMB SURR/IS (500) MSVD143D - 1mL/10mL Sample

MS#10 7/16/08

pH	SAMPLE
	BLK
	BLK
	TUNE
	TUNE
	CCV
	CCV
	LCS
	MBLK
	MBLK
<2	1115782-1 [redacted] R-44
<2	1115783-1
<2	1115784-1
<2	1115785-1
<2	1115791-1
<2	1116367-1
<2	1116370-1
<2	1116373-1
<2	1116375-1
<2	1116377-1
<2	1116921-1
<2	1116922-1
<2	1116367-2 MS
<2	1116367-3 MSD

Tom R Nguyen

SURR (500) MSVD147B
1° T/G (500) MSVD139J
1° HSL (500) MSVD143A
1° Fr (200) MSVD146N
1° Oxy (500) MSVD146M

2° T/G (500) MSVD145C
2° HSL (500) MSVD146G
2° Fr (500) MSVD138A
2° Oxy (500) MSVD147J
Comb SURR/IS (500) MSVD1

SEMIVOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 1114421 ENSR International

Client ID: M-78B

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163571

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
ACENAPHTHENE	4.00	0	0.350	9 *	0.270	7 *	26	30	44 - 112
ACENAPHTHYLENE	4.00	0	0.100	3 *	0.085	2 *	16	30	51 - 115
ANTHRACENE	4.00	0	0.130	3 *	0.094	2 *	32 *	30	54 - 510
BENZO(A)ANTHRACENE	4.00	0	0.380	10*	0.330	8 *	14	30	58 - 115
BENZO(A)PYRENE	4.00	0	0.047	1 *	0.038	1 *	21	30	36 - 119
BENZO(B)FLUORANTHENE	4.00	0	3.70	93	3.10	78	18	30	45 - 121
BENZO(G,H,I)PERYLENE	4.00	0	1.70	43	1.50	38 *	13	30	39 - 122
BENZO(K)FLUORANTHENE	4.00	0	0.840	21*	0.600	15 *	33 *	30	47 - 119
BUTYL BENZYL PHTHALATE	4.00	0	3.70	93	4.10	103	10	30	50 - 150
DI-N-BUTYLPHTHALATE	4.00	0	4.10	103	4.10	103	0	30	50 - 150
INDENO(1,2,3-CD)PYRENE	4.00	0	2.40	60	2.20	55	9	30	47 - 119
CHRYSENE	4.00	0	1.40	35*	1.50	38 *	7	30	55 - 113
DIBENZO(A,H)ANTHRACENE	4.00	0	1.40	35*	1.40	35 *	0	30	47 - 116
DIETHYLPHTHALATE	4.00	0.180	4.00	96	4.20	101	5	30	50 - 150
DIMETHYL PHTHALATE	4.00	0	3.80	95	4.00	100	5	30	50 - 150
1,4-DIOXANE	4.00	1.10	3.20	53	3.30	55	3	30	31 - 80
BIS(2-ETHYLHEXYL)PHTHALATE	4.00	0	3.40	85	3.70	93	8	30	55 - 130
FLUORANTHENE	4.00	0	2.10	53*	2.00	50 *	5	30	59 - 117
FLUORENE	4.00	0	3.40	85	3.50	88	3	30	38 - 121
HEXACHLOROBENZENE	4.00	0	2.80	70	2.70	68	4	30	47 - 108
2-METHYLNAPHTHALENE	4.00	0	0.690	17*	0.650	16 *	6	30	42 - 130
NAPHTHALENE	4.00	0.0660	2.50	61	2.40	58	4	30	33 - 121
NITROBENZENE	4.00	0	4.30	108	4.20	105	2	30	50 - 150
OCTACHLOROSTYRENE	4.00	0	2.30	57	2.70	68	16	30	50 - 150
DI-N-OCTYL PHTHALATE	4.00	0	5.40	135	4.60	115	16	30	50 - 150
PHENANTHRENE	4.00	0	2.10	53*	2.00	50 *	5	30	54 - 114
PYRENE	4.00	0	0.420	11*	0.340	9 *	21	30	55 - 115
PYRIDINE	4.00	0	1.30	33*	1.80	45 *	32*	30	50 - 150

Data F CY268.D
Data F J:\ACQUDATA\5973B\DATA\070808\

#	Name	Amount	Units	PPM	% REC	F or P	low Limits	High Limits	MsLimits
2)	1,4-Dioxane	3.45	ppm	4	86%	P F↑	50	120	31-80
3)	Pyridine	1.43	ppm	4	36%	F ↓	50	120	50-130
5)	SURR4,NITROBENZENE-D5	1.78	**ppm**	**2**	89%	P	**45**	**135**	**22-124**
6)	Nitrobenzene	4.55	ppm	4	114%	P	50	120	50-150
7)	Naphthalene	2.62	ppm	4	65%	P	50	120	33-121
8)	2-Methylnaphthalene	0.73	ppm	4	18%	F ↓	50	120	42-130
9)	1-Methylnaphthalene	0.99	ppm	4	25%	F M.T.	62	102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.77	**ppm**	**2**	88%	P	**45**	**135**	**27-114**
12)	Acenaphthylene	0.11	ppm	4	3%	F ↓	50	120	51-115
13)	Dimethyl phthalate	4.04	ppm	4	101%	P	50	120	50-130
14)	Acenaphthene	0.37	ppm	4	9%	F ↓	50	120	44-112
15)	Dibenzofuran	3.39	ppm	4	85%	P	50	150	50-150
16)	Fluorene	3.58	ppm	4	89%	P	50	120	38-121
17)	Diethylphthalate	4.23	ppm	4	106%	P	50	120	50-130
19)	Hexachlorobenzene	2.97	ppm	4	74%	P	50	120	47-108
20)	Phenanthrene	2.22	ppm	4	55%	P	50	120	54-114
21)	Anthracene	0.14	ppm	4	3%	F ↓	50	120	51-119
22)	Carbazole	0.32	ppm	4	8%	F M.T.	40	150	40-150
23)	Octachlorostyrene	2.45	ppm	4	61%	P	50	120	50-130
24)	Di-n-butylphthalate	4.37	ppm	4	109%	P	50	120	50-130
25)	Fluoranthene	2.20	ppm	4	55%	P	50	120	59-117
27)	Pyrene	0.45	ppm	4	11%	F ↓	50	120	55-115
28)	SURR6,TERPHENYL-D14	1.91	**ppm**	**2**	96%	P	45	**135**	**23-139**
29)	Butyl benzyl phthalate	3.90	ppm	4	97%	P	50	120	50-130
30)	bis(2-Ethylhexyl)phthalate	3.67	ppm	4	92%	P	50	120	55-130
31)	Benzo(a)anthracene	0.40	ppm	4	10%	F ↓	50	120	58-115
32)	Chrysene	1.47	ppm	4	37%	F ↓	50	120	55-113
34)	Di-n-octyl phthalate	5.76	ppm	4	144%	F ↑	50	120	50-130
35)	Benzo(b)Fluoranthene	3.91	ppm	4	98%	P	50	120	45-121
36)	Benzo(k)fluoranthene	0.89	ppm	4	22%	F ↓	50	120	47-119
37)	Benzo(a)pyrene	0.05	ppm	4	1%	F ↓	50	120	36-119
38)	Indeno(1,2,3-cd)Pyrene	2.56	ppm	4	64%	P	50	120	47-119
39)	Dibenz(a,h)anthracene	1.55	ppm	4	39%	F ↓	50	120	47-116
40)	Benzo(g,h,i)perylene	1.77	ppm	4	44%	F	50	120	39-122

Data F CY269.D
Data F J:\ACQUDATA\5973B\DATA\070808\

#	Name	Amount	Units	PPM	% REC	F or P	low Limits	High Limits	MsLimits
2)	1,4-Dioxane	3.50	ppm	4	87%	P F↑	50	120	31-80
3)	Pyridine	1.92	ppm	4	48%	F ↓	50	120	50-130
5)	SURR4,NITROBENZENE-D5	1.81	**ppm**	**2**	91%	P	**45**	**135**	**22-124**
6)	Nitrobenzene	4.43	ppm	4	111%	P	50	120	50-150
7)	Naphthalene	2.61	ppm	4	65%	P	50	120	33-121
8)	2-Methylnaphthalene	0.69	ppm	4	17%	F ↓	50	120	42-130
9)	1-Methylnaphthalene	0.94	ppm	4	24%	F N.T.	62	102	50-150
11)	SURR5,2-FLUOROBIPHENYL	1.81	**ppm**	**2**	90%	P	**45**	**135**	**27-114**
12)	Acenaphthylene	0.09	ppm	4	2%	F ↓	50	120	51-115
13)	Dimethyl phthalate	4.21	ppm	4	105%	P	50	120	50-130
14)	Acenaphthene	0.29	ppm	4	7%	F ↓	50	120	44-112
15)	Dibenzofuran	3.58	ppm	4	90%	P	50	150	50-150
16)	Fluorene	3.72	ppm	4	93%	P	50	120	38-121
17)	Diethylphthalate	4.52	ppm	4	113%	P	50	120	50-130
19)	Hexachlorobenzene	2.88	ppm	4	72%	P	50	120	47-108
20)	Phenanthrene	2.12	ppm	4	53%	P	50	120	54-114
21)	Anthracene	0.10	ppm	4	2%	F ↓	50	120	51-119
22)	Carbazole	0.23	ppm	4	6%	F N.T.	40	150	40-150
23)	Octachlorostyrene	2.92	ppm	4	73%	P	50	120	50-130
24)	Di-n-butylphthalate	4.41	ppm	4	110%	P	50	120	50-130
25)	Fluoranthene	2.12	ppm	4	53%	P	50	120	59-117
27)	Pyrene	0.36	ppm	4	9%	F ↓	50	120	55-115
28)	SURR6,TERPHENYL-D14	2.14	**ppm**	**2**	107%	P	45	**135**	**23-139**
29)	Butyl benzyl phthalate	4.38	ppm	4	109%	P	50	120	50-130
30)	bis(2-Ethylhexyl)phthalate	3.97	ppm	4	99%	P	50	120	55-130
31)	Benzo(a)anthracene	0.35	ppm	4	9%	F ↓	50	120	58-115
32)	Chrysene	1.63	ppm	4	41%	F ↓	50	120	55-113
34)	Di-n-octyl phthalate	4.91	ppm	4	123%	P	50	120	50-130
35)	Benzo(b)Fluoranthene	3.33	ppm	4	83%	P	50	120	45-121
36)	Benzo(k)fluoranthene	0.64	ppm	4	16%	F ↓	50	120	47-119
37)	Benzo(a)pyrene	0.04	ppm	4	1%	F ↓	50	120	36-119
38)	Indeno(1,2,3-cd)Pyrene	2.35	ppm	4	59%	P	50	120	47-119
39)	Dibenz(a,h)anthracene	1.53	ppm	4	38%	F ↓	50	120	47-116
40)	Benzo(g,h,i)perylene	1.61	ppm	4	40%	F	50	120	39-122

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1115382

Dup Spiked Order No. : 1115383

Client ID:

Test: 8270C.NEVA

Analytical Units: UG/L

Run Number : 163571

			BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ACENAPHTHENE	4.0	0	3.20	80	3.30	83	3	30	50 - 120
ACENAPHTHYLENE	4.0	0	3.20	80	3.40	85	6	30	50 - 120
ANTHRACENE	4.0	0	3.50	88	3.40	85	3	30	50 - 120
BENZO(A)ANTHRACENE	4.0	0	3.60	90	3.80	95	5	30	50 - 120
BENZO(A)PYRENE	4.0	0	3.40	85	3.50	88	3	30	50 - 120
BENZO(B)FLUORANTHENE	4.0	0	4.00	100	3.90	98	3	30	50 - 120
BENZO(G,H,I)PERYLENE	4.0	0	4.00	100	4.00	100	0	30	50 - 120
BENZO(K)FLUORANTHENE	4.0	0	4.00	100	4.30	108	7	30	50 - 120
BUTYL BENZYL PHTHALATE	4.0	0	3.80	95	3.90	98	3	30	50 - 120
DI-N-BUTYLPHTHALATE	4.0	0	4.70	118	4.50	113	4	30	50 - 120
INDENO(1,2,3-CD)PYRENE	4.0	0	4.30	108	4.20	105	2	30	50 - 120
CHRYSENE	4.0	0	3.60	90	3.80	95	5	30	50 - 120
DIBENZO(A,H)ANTHRACENE	4.0	0	4.00	100	4.00	100	0	30	50 - 120
DIETHYLPHTHALATE	4.0	0	4.00	100	4.10	103	2	30	50 - 120
DIMETHYL PHTHALATE	4.0	0	3.70	93	3.90	98	5	30	50 - 120
1,4-DIOXANE	4.0	0	1.80	45 *	1.90	48*	5	30	50 - 120
BIS(2-ETHYLHEXYL)PHTHA	4.0	0	3.80	95	3.90	98	3	30	50 - 120
FLUORANTHENE	4.0	0	3.70	93	3.80	95	3	30	50 - 120
FLUORENE	4.0	0	3.50	88	3.60	90	3	30	50 - 120
HEXACHLOROBENZENE	4.0	0	3.20	80	3.20	80	0	30	50 - 120
2-METHYLNAPHTHALENE	4.0	0	2.80	70	3.00	75	7	30	50 - 120
NAPHTHALENE	4.0	0	3.00	75	3.10	78	3	30	50 - 120
NITROBENZENE	4.0	0	3.20	80	3.30	83	3	30	50 - 120
OCTACHLOROSTYRENE	4.0	0	3.20	80	3.00	75	6	30	50 - 120
DI-N-OCTYL PHTHALATE	4.0	0	3.80	95	3.80	95	0	30	50 - 120
PHENANTHRENE	4.0	0	3.50	88	3.60	90	3	30	50 - 120
PYRENE	4.0	0	3.50	88	3.70	93	6	30	50 - 120
PYRIDINE	4.0	0	1.20	30 *	1.10	28*	9	30	50 - 120

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK1

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844803 SAS No.: SDG No.: M-55B

Lab File ID: CY262.D Lab Sample ID: 1115381 1.0

Instrument ID: 5973-B Date Extracted: 7/7/08

Matrix: (soil/water) WATER Date Analyzed: 7/8/08

Level: (low/med) LOW Time Analyzed: 14:06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1MS	1115382 1.0	CY263.D	7/8/08
02	SBLK1MSD	1115383 1.0	CY264.D	7/8/08
03	M-55B	1114419 0.98	CY265.D	7/8/08
04	M-55DB	1114420 1.02	CY266.D	7/8/08
05	M-78B	1114421 0.94	CY267.D	7/8/08
06	M-78BMS	1115384 0.94	CY268.D	7/8/08
07	M-78BMSD	1115385 0.94	CY269.D	7/8/08
08	M-65B	1114756 0.94	CY270.D	7/8/08
09	EB070208GW1	1114758 0.98	CY271.D	7/8/08

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844803 SAS No.: SDG No.: M-55B

Lab File ID: CY228.D DFTPP Injection Date: 7/1/08

Instrument ID: 5973-B DFTPP Injection Time: 9:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	74.5
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	28.5
365	Greater than 1.0% of mass 198	6.1
441	Present, but less than mass 443	11.6
442	40.0 - 100.0% of mass 198	64.8
443	17.0 - 23.0% of mass 442	12.1 (18.6)2

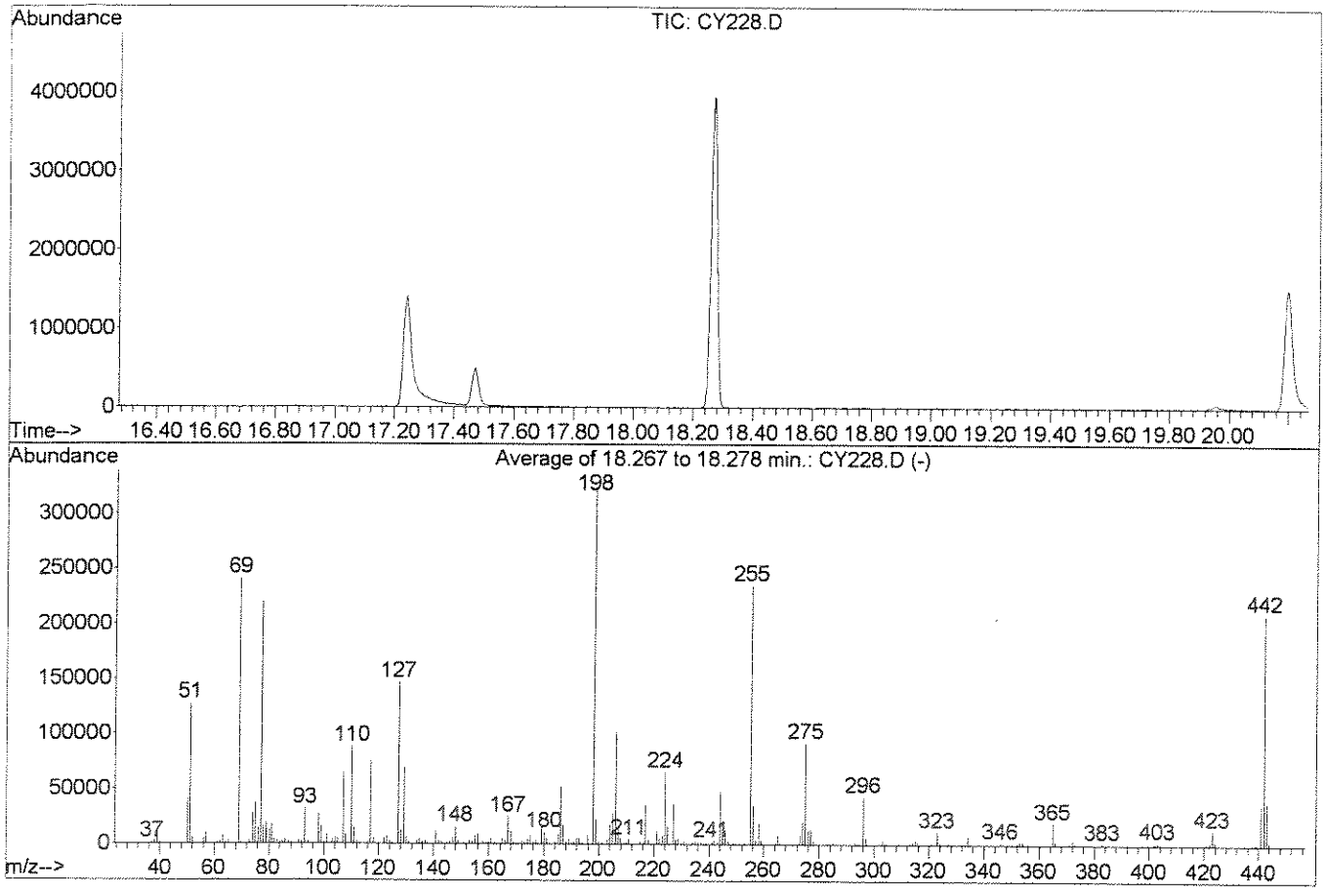
1-Value is % mass 69 2-Value is % mass 442

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	SSTD00.1	INITIAL CALIBRATION	CY230.D	7/1/08	10:40
02	SSTD00.2	INITIAL CALIBRATION	CY231.D	7/1/08	11:27
03	SSTD00.5	INITIAL CALIBRATION	CY232.D	7/1/08	12:15
04	SSTD01.0	INITIAL CALIBRATION	CY233.D	7/1/08	13:02
05	SSTD02.0	INITIAL CALIBRATION	CY234.D	7/1/08	13:49
06	SSTD03.0	INITIAL CALIBRATION	CY235.D	7/1/08	14:36
07	SSTD04.0	INITIAL CALIBRATION	CY236.D	7/1/08	15:23
08	SSTD05.0	INITIAL CALIBRATION	CY237.D	7/1/08	16:09
09	SSTD010	INITIAL CALIBRATION	CY238.D	7/1/08	16:56

DFTPP

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS



Spectrum Information: Average of 18.267 to 18.278 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.3	127035	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	74.5	241173	PASS
70	69	0.00	2	0.7	1587	PASS
127	198	40	60	45.2	146216	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	323563	PASS
199	198	5	9	6.8	21933	PASS
275	198	10	30	28.5	92176	PASS
365	198	1	100	6.1	19616	PASS
441	443	0.01	100	96.2	37597	PASS
442	198	40	100	64.8	209621	PASS
443	442	17	23	18.6	39064	PASS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844803 SAS No.: SDG No.: M-55B

Lab File ID: CY260.D DFTPP Injection Date: 7/8/08

Instrument ID: 5973-B DFTPP Injection Time: 10:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	72.2
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	29.3
365	Greater than 1.0% of mass 198	6.5
441	Present, but less than mass 443	11.7
442	40.0 - 100.0% of mass 198	66.3
443	17.0 - 23.0% of mass 442	14.1 (21.3)2

1-Value is % mass 69 2-Value is % mass 442

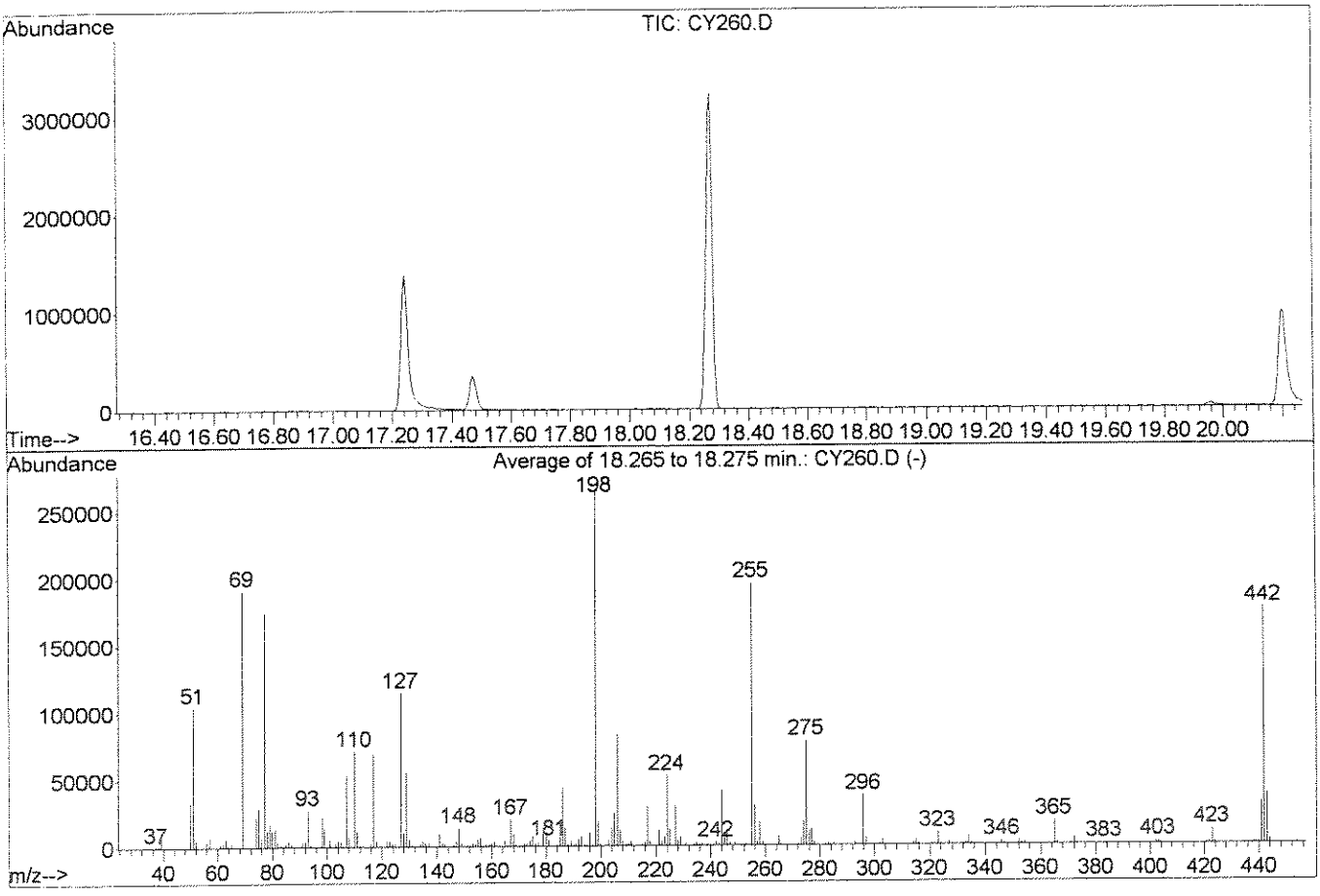
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	CALIBRATION CHECK	CY261.D	7/8/08	10:52
02	SBLK1	1115381 1.0	CY262.D	7/8/08	14:06
03	SBLK1MS	1115382 1.0	CY263.D	7/8/08	14:53
04	SBLK1MSD	1115383 1.0	CY264.D	7/8/08	15:41
05	M-55B	1114419 0.98	CY265.D	7/8/08	16:29
06	M-55DB	1114420 1.02	CY266.D	7/8/08	17:17
07	M-78B	1114421 0.94	CY267.D	7/8/08	18:05
08	M-78BMS	1115384 0.94	CY268.D	7/8/08	18:55
09	M-78BMSD	1115385 0.94	CY269.D	7/8/08	19:49
10	M-65B	1114756 0.94	CY270.D	7/8/08	20:40
11	EB070208GW1	1114758 0.98	CY271.D	7/8/08	21:31

DFTPP

Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D
Acq On : 8 Jul 2008 10:03 am
Sample : TUNE CHECK
Misc : 20 ng DFTPP
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS

Vial: 1
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00



AutoFind: Scans 2466, 2467, 2468; Background Corrected with Scan 2458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.4	104331	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	72.2	191147	PASS
70	69	0.00	2	0.3	636	PASS
127	198	40	60	43.4	114907	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	264896	PASS
199	198	5	9	6.8	18033	PASS
275	198	10	30	29.3	77619	PASS
365	198	1	100	6.5	17305	PASS
441	443	0.01	100	83.0	30979	PASS
442	198	40	100	66.3	175552	PASS
443	442	17	23	21.3	37320	PASS

CY260.D DFTPPLVI.M Tue Jul 08 10:34:51 2008

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): CY261.D Date Analyzed: 7/8/08

Instrument ID: 5973-B Time Analyzed: 10:52

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	63616		10.13		234931		11.45		153862		13.03	
	UPPER LIMIT	127232		10.63		469862		11.95		307724		13.53	
	LOWER LIMIT	31808		9.63		117466		10.95		76931		12.53	
	EPA SAMPLE NO.												
01	SBLK1	52256		10.13		186653		11.45		118517		13.03	
02	SBLK1MS	55747		10.13		203882		11.45		139102		13.03	
03	SBLK1MSD	52465		10.13		197176		11.45		132495		13.03	
04	M-55B	54836		10.13		206003		11.45		134309		13.03	
05	M-55DB	59630		10.14		210358		11.45		138878		13.03	
06	M-78B	55410		10.14		196871		11.45		130601		13.03	
07	M-78BMS	60469		10.13		217890		11.45		146645		13.03	
08	M-78BMSD	56913		10.13		212137		11.45		137226		13.03	
09	M-65B	57391		10.13		210709		11.45		138959		13.03	
10	EB070208GW1	55624		10.13		210243		11.45		141209		13.03	

IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene
IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS-ROCH Contract: ENSR

Lab Code: 10145 Case No.: R844803 SAS No.: SDG No.: M-55B

Lab File ID (Standard): CY261.D Date Analyzed: 07/08/08

Instrument ID: 5973-B Time Analyzed: 10:52

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	243573	14.22	250630	17.05	201561	19.78
	UPPER LIMIT	487146	13.72	501260	16.55	403122	19.28
	LOWER LIMIT	121787	14.72	125315	17.55	100781	20.28
	EPA SAMPLE NO.						
01	SBLK1	179880	14.22	177022	17.05	134285	19.79
02	SBLK1MS	206861	14.22	217942	17.04	177659	19.78
03	SBLK1MSD	205722	14.22	207494	17.05	174194	19.78
04	M-55B	212949	14.22	206175	17.04	128476	19.79
05	M-55DB	219203	14.22	219682	17.05	139062	19.78
06	M-78B	200969	14.22	203218	17.04	145327	19.79
07	M-78BMS	252061	14.22	237150	17.04	125207	19.78
08	M-78BMSD	259174	14.22	212263	17.05	147658	19.78
09	M-65B	216139	14.22	223931	17.04	144432	19.78
10	EB070208GWI	169816	14.22	205449	17.04	169764	19.79

IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene
IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

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

Columia Analytical Services
8270.LL MDL STUDY 5973-B

Method: 8270.LL WATER
Analyst: Z.Miao 06/10/2008, 06/23/2008
Extracted : 06/10/2008

#	Name	Conc. ug/L	Trial #1	Trial #2	Trial #3	Trial #4	Trial #5	Trial #6	Trial #7	Mean ug/L	S	N# of reps	MDL ug/L	MRL ug/L
2)	1,4-Dioxane	0.8	0.41	0.42	0.46	0.37	0.52	0.45	0.46	0.44	0.05	7.00	0.14901	0.2
3)	Pyridine	2	0.15	0.50	0.78	0.46	0.26	0.64	0.25	0.43	0.23	7.00	0.71668	2
5)														
6)	Nitrobenzene	0.20	0.18	0.16	0.20	0.18	0.19	0.19	0.19	0.18	0.01	7.00	0.03999	0.2
7)	Naphthalene	0.20	0.18	0.18	0.19	0.18	0.20	0.19	0.22	0.19	0.01	7.00	0.04601	0.2
8)	2-Methylnaphthalene	0.20	0.16	0.15	0.18	0.16	0.18	0.16	0.18	0.17	0.01	7.00	0.0394	0.1
9)	1-Methylnaphthalene	0.20	0.14	0.15	0.16	0.14	0.16	0.16	0.16	0.15	0.01	7.00	0.0299	0.2
11)														
12)	Acenaphthylene	0.20	0.14	0.15	0.16	0.16	0.15	0.16	0.16	0.15	0.01	7.00	0.02473	0.2
13)	Dimethyl phthalate	0.20	0.19	0.18	0.20	0.19	0.20	0.20	0.20	0.19	0.01	7.00	0.02473	5
14)	Acenaphthene	0.20	0.16	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.01	7.00	0.0168	0.2
15)	Dibenzofuran	0.20	0.17	0.15	0.17	0.16	0.17	0.18	0.17	0.17	0.01	7.00	0.0299	0.2
16)	Fluorene	0.20	0.17	0.16	0.17	0.15	0.17	0.16	0.17	0.16	0.01	7.00	0.02473	0.2
17)	Diethylphthalate	0.20	0.37	0.40	0.32	0.33	0.34	0.39	0.44	0.37	0.04	7.00	0.13579	5
19)	Hexachlorobenzene	0.20	0.13	0.13	0.15	0.14	0.13	0.14	0.13	0.14	0.01	7.00	0.02473	0.2
20)	Phenanthrene	0.20	0.19	0.17	0.20	0.17	0.18	0.19	0.19	0.18	0.01	7.00	0.03564	0.2
21)	Anthracene	0.20	0.15	0.14	0.15	0.14	0.16	0.16	0.15	0.15	0.01	7.00	0.02566	0.2
22)	Carbazole	0.20	0.19	0.19	0.23	0.19	0.21	0.20	0.22	0.20	0.02	7.00	0.05086	1
23)	Octachlorostyrene	0.20	0.20	0.14	0.22	0.14	0.15	0.19	0.15	0.17	0.03	7.00	0.10265	0.2
24)	Di-n-butylphthalate	0.20	1.65	2.34	1.25	1.41	1.44	1.90	1.94	1.70	0.38	7.00	1.19253	5
25)	Fluoranthene	0.20	0.20	0.18	0.20	0.18	0.18	0.20	0.20	0.19	0.01	7.00	0.0336	0.2
27)	Pyrene	0.20	0.18	0.17	0.19	0.16	0.19	0.19	0.20	0.18	0.01	7.00	0.04338	0.2
28)														
29)	Butylbenzylphthalate	0.20	0.31	0.47	0.26	0.27	0.29	0.41	0.34	0.34	0.08	7.00	0.24471	5
30)	bis(2-Ethylhexyl)phthalate	0.80	0.77	0.87	0.82	0.76	0.85	0.97	0.88	0.85	0.07	7.00	0.22581	2
31)	Benzo(a)anthracene	0.20	0.17	0.17	0.19	0.16	0.18	0.19	0.19	0.18	0.01	7.00	0.03819	0.1
32)	Chrysene	0.20	0.18	0.17	0.19	0.17	0.20	0.18	0.19	0.18	0.01	7.00	0.03497	0.2
34)	Di-n-octylphthalate	0.20	0.13	0.15	0.15	0.14	0.15	0.19	0.19	0.16	0.02	7.00	0.07419	5
35)	Benzo(b)Fluoranthene	0.20	0.18	0.17	0.19	0.18	0.19	0.20	0.20	0.19	0.01	7.00	0.03497	0.2
36)	Benzo(k)fluoranthene	0.20	0.19	0.18	0.17	0.16	0.20	0.18	0.20	0.18	0.01	7.00	0.04702	0.2
37)	Benzo(a)pyrene	0.20	0.13	0.13	0.14	0.12	0.14	0.16	0.15	0.14	0.01	7.00	0.04228	0.2
38)	Indeno(1,2,3-cd)Pyrene	0.20	0.25	0.24	0.26	0.24	0.25	0.26	0.27	0.25	0.01	7.00	0.03497	0.2
39)	Dibenz(a,h)anthracene	0.20	0.16	0.17	0.17	0.16	0.17	0.18	0.18	0.17	0.01	7.00	0.02566	0.2
40)	Benzo(g,h,i)perylene	0.20	0.17	0.16	0.18	0.16	0.18	0.18	0.20	0.18	0.01	7.00	0.04392	0.2

SEMIVOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/14/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55B

Date Sampled : 07/01/08 07:44 **Order #:** 1114419 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 0.98			
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)PYRENE	0.20	0.20 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.20 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.20 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.9 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.9 U	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	0.20 JB	UG/L
DIMETHYL PHTHALATE	5.0	4.9 U	UG/L
1,4-DIOXANE	2.0	1.0 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	4.9 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.088 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.9 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	103	%
NITROBENZENE-d5	(45 - 135 %)	89	%
2-FLUOROBIPHENYL	(45 - 135 %)	90	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY265.D Vial: 5
Acq On : 8 Jul 2008 4:29 pm Operator: J.Wu
Sample : 1114419 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:25 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	54836	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	206003	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	134309	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	212949	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	206175	1.00	ppm	0.00
33) d12-Perylene	19.79	264	128476	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	224671	1.77	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 88.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	325729	1.80	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 90.00%			
28) SURR6,TERPHENYL-D14	15.63	244	363697	2.05	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 102.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	55789	1.04	ppm	73
7) Naphthalene	11.47	128	18558	0.09	ppm	91
17) Diethylphthalate	13.37	149	33959	0.20	ppm	94

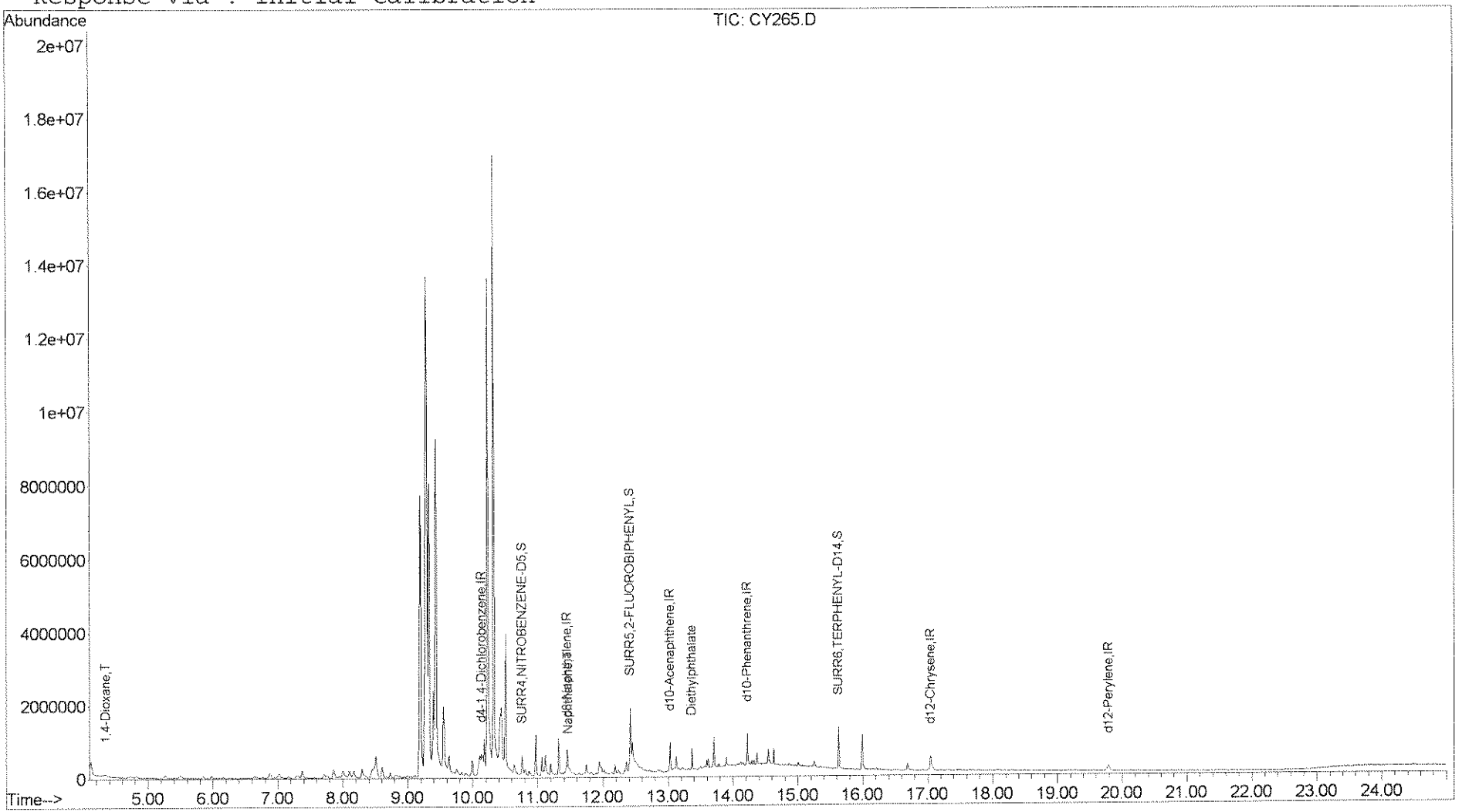
(#) = qualifier out of range (m) = manual integration

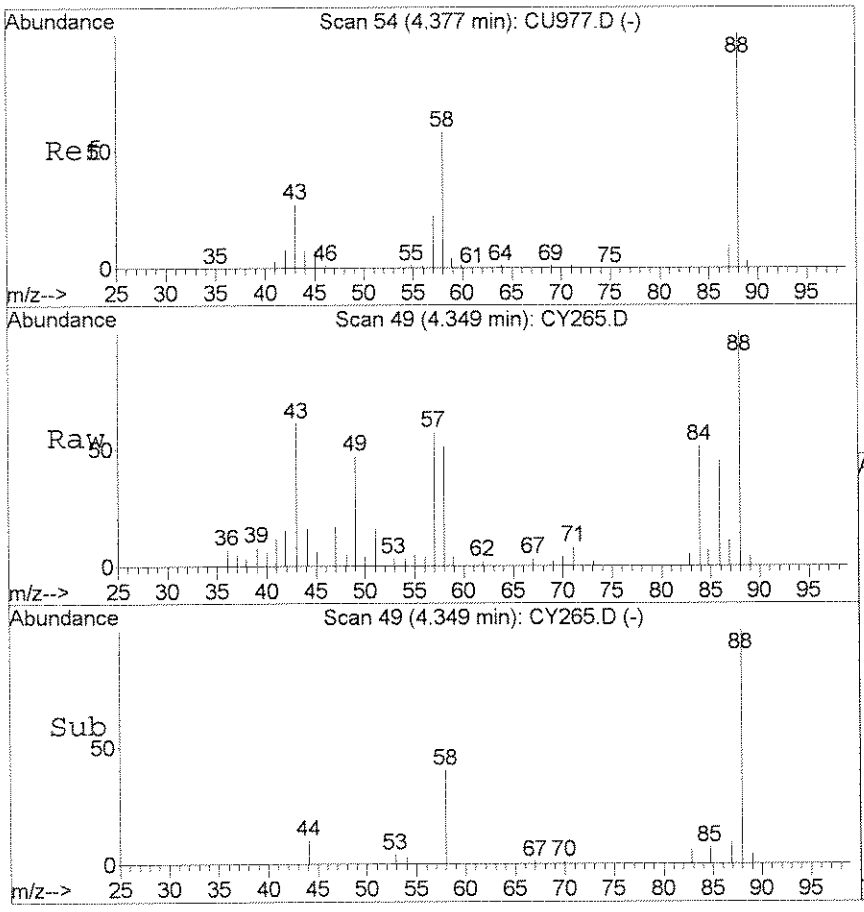
00277

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY265.D Vial: 5
Acq On : 8 Jul 2008 4:29 pm Operator: J.Wu
Sample : 1114419 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:25 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

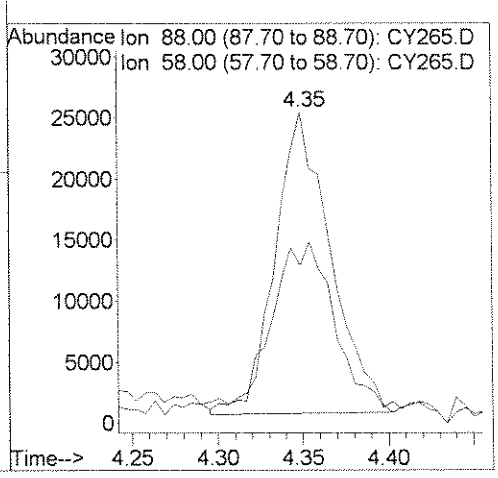


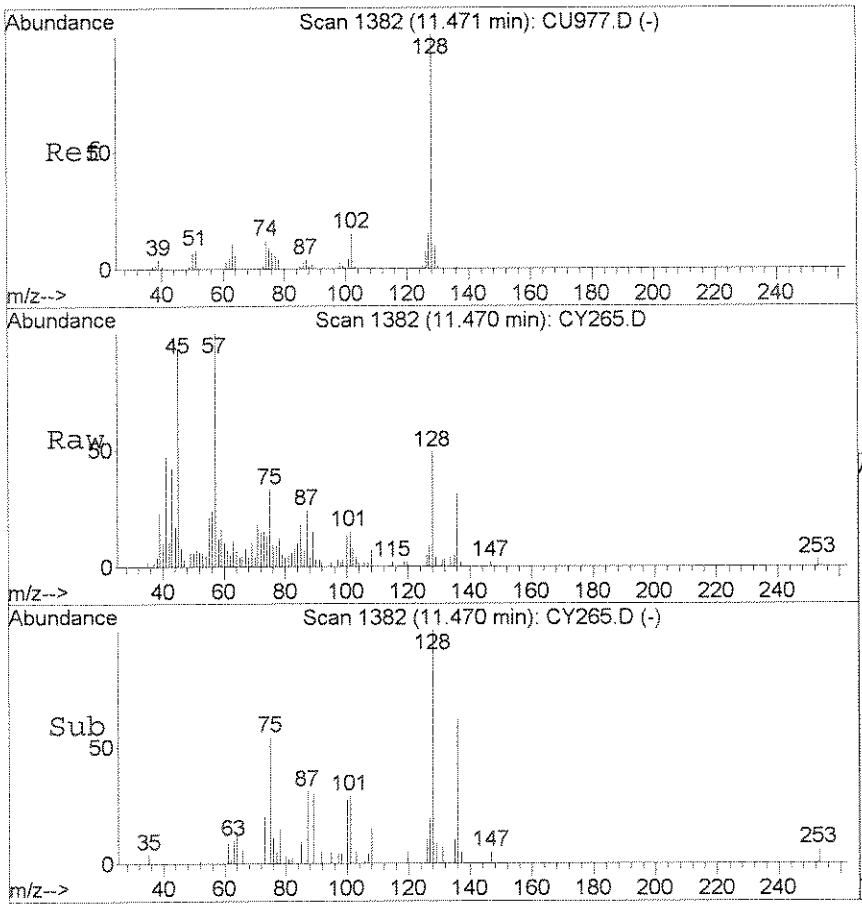


#2
1,4-Dioxane
Concen: 1.04 ppm
RT: 4.35 min Scan# 49
Delta R.T. 0.00 min
Lab File: CY265.D
Acq: 8 Jul 2008 4:29 pm

Tgt Ion: 88 Resp: 55789

Ion	Ratio	Lower	Upper
88	100		
58	45.6	36.9	96.9

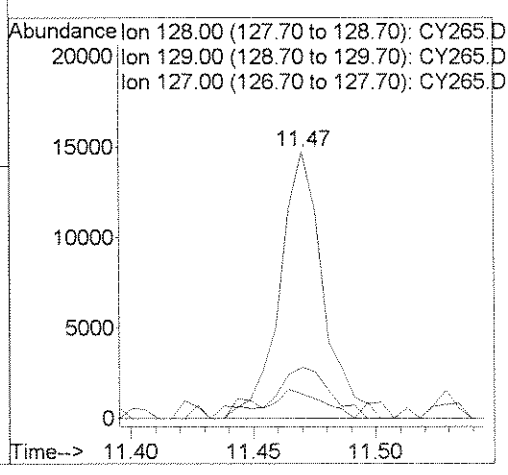


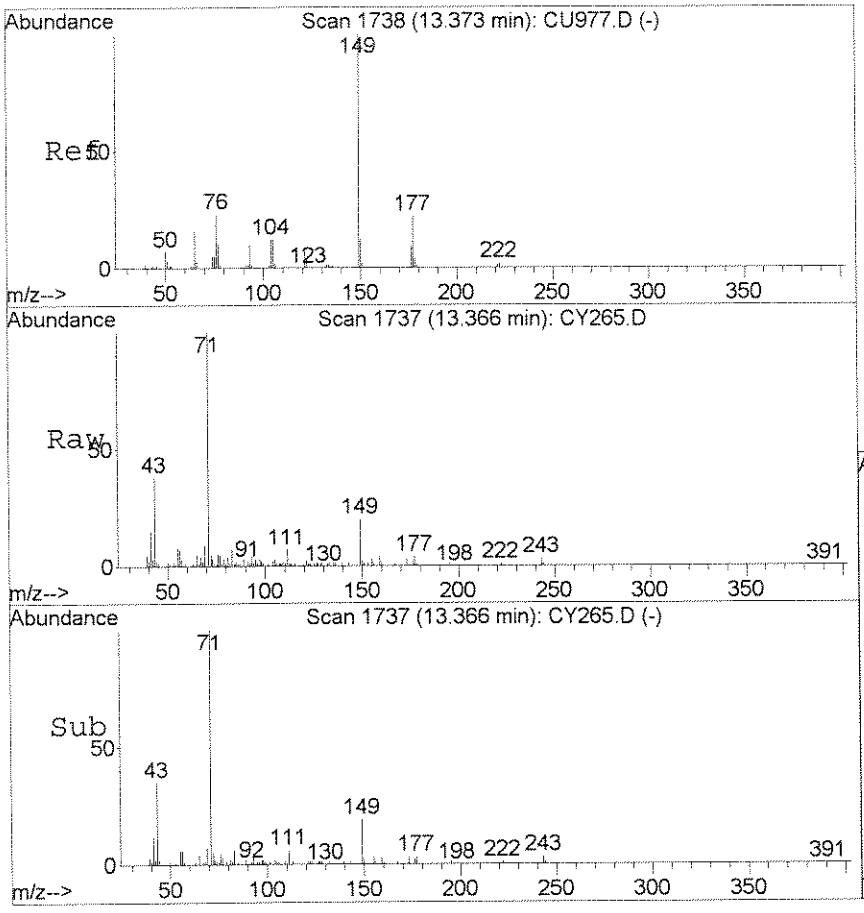


#7
Naphthalene
Concen: 0.09 ppm
RT: 11.47 min Scan# 1382
Delta R.T. 0.00 min
Lab File: CY265.D
Acq: 8 Jul 2008 4:29 pm

Tgt Ion:128 Resp: 18558

Ion	Ratio	Lower	Upper
128	100		
129	9.1	0.0	41.6
127	19.1	0.0	44.7

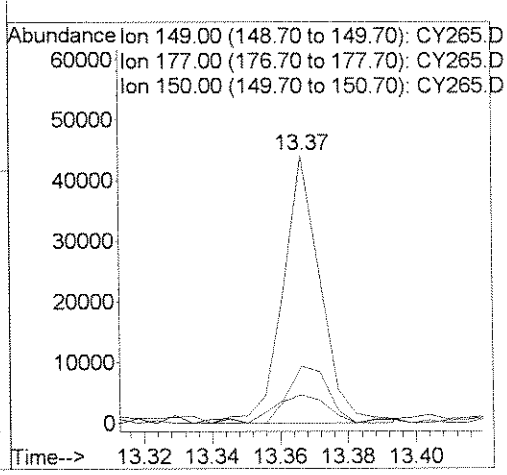




#17
Diethylphthalate
Concen: 0.20 ppm
RT: 13.37 min Scan# 1737
Delta R.T. -0.00 min
Lab File: CY265.D
Acq: 8 Jul 2008 4:29 pm

Tgt Ion:149 Resp: 33959

Ion	Ratio	Lower	Upper
149	100		
177	20.6	16.0	29.6
150	9.3	9.0	16.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/14/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55DB

Date Sampled : 07/01/08 **Order #:** 1114420 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 1.02			
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)PYRENE	0.20	0.20 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.20 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.20 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.1 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.1 U	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	0.23 JB	UG/L
DIMETHYL PHTHALATE	5.0	5.1 U	UG/L
1,4-DIOXANE	2.0	0.96 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	5.1 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.10 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.1 U	UG/L
PHENANTHRENE	0.20	0.20 U	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	86	%
2-FLUOROBIPHENYL	(45 - 135 %)	86	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY266.D Vial: 6
Acq On : 8 Jul 2008 5:17 pm Operator: J.Wu
Sample : 1114420 1.02 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:27 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	59630	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	210358	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	138878	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	219203	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	219682	1.00	ppm	0.00
33) d12-Perylene	19.78	264	139062	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	223786	1.72	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 86.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	321400	1.72	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 86.00%			
28) SURR6,TERPHENYL-D14	15.63	244	379702	2.00	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 100.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.37	88	55000	0.94	ppm	75
7) Naphthalene	11.47	128	20710	0.10	ppm	96
17) Diethylphthalate	13.37	149	39249	0.23	ppm	94

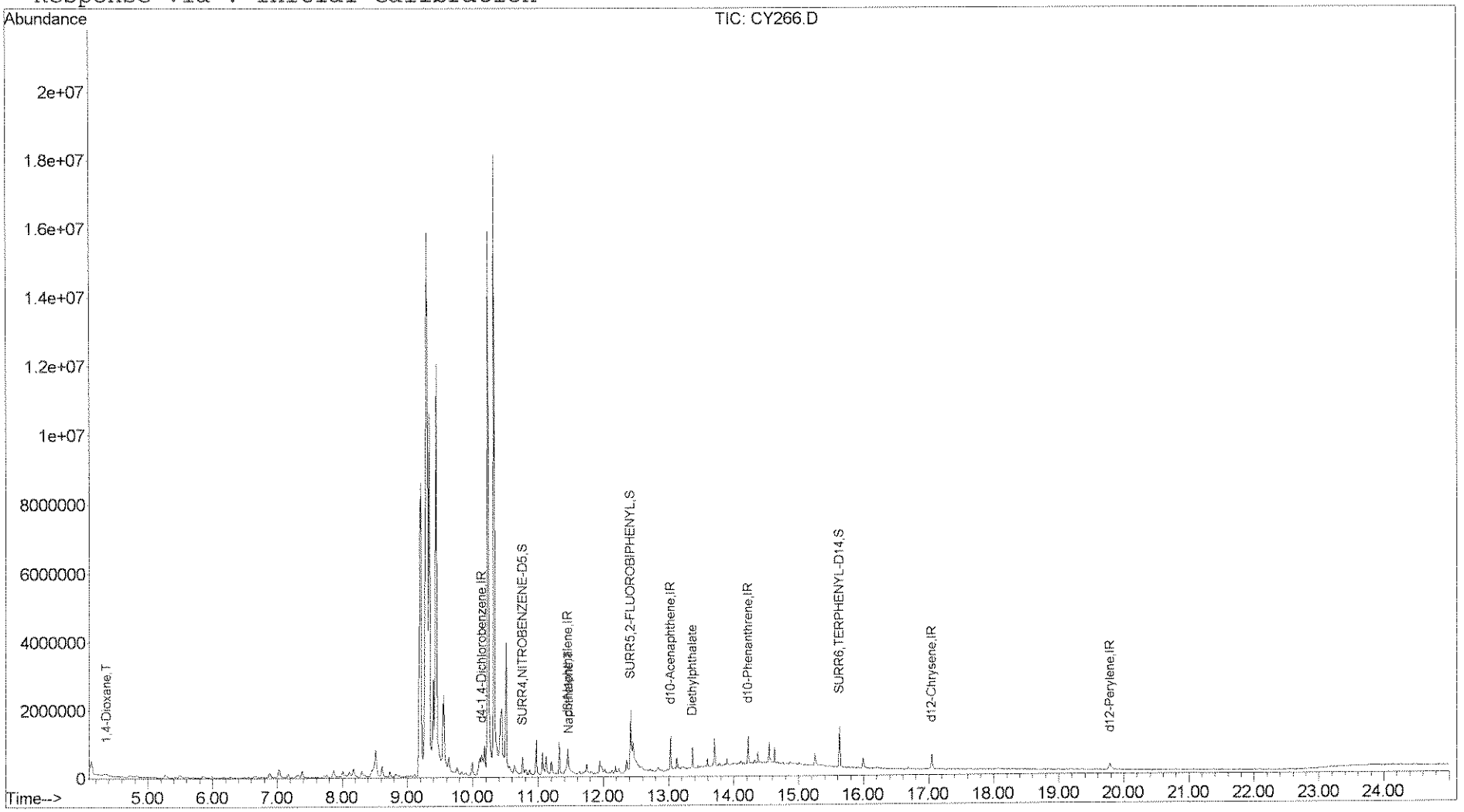
(#) = qualifier out of range (m) = manual integration

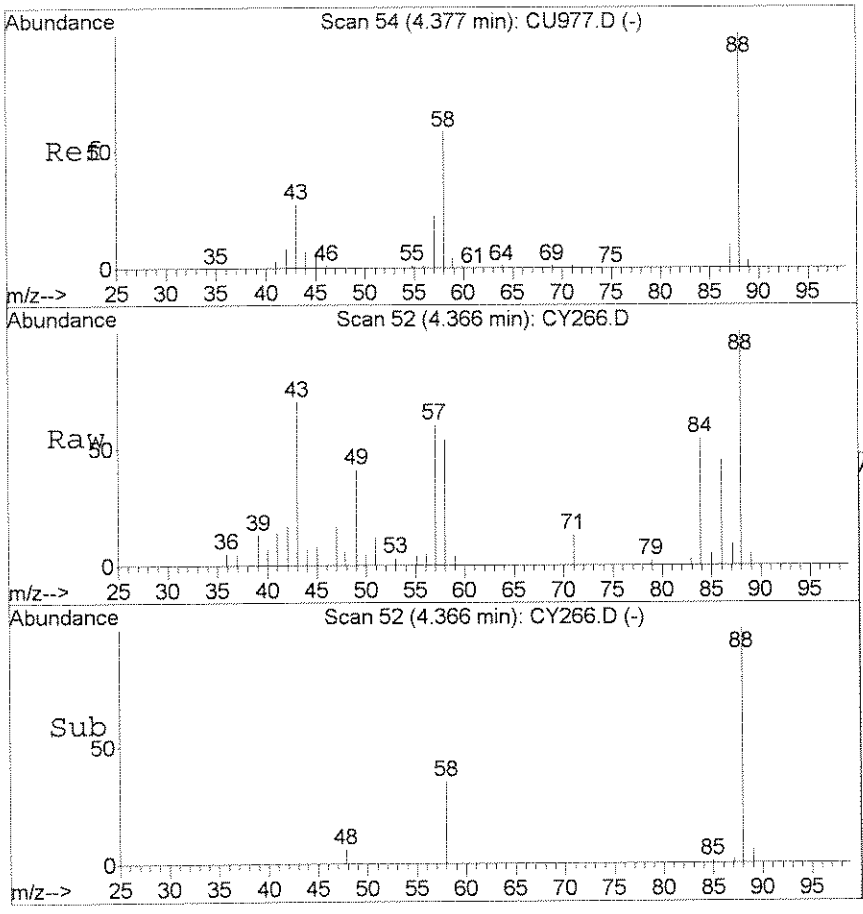
00262

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY266.D Vial: 6
Acq On : 8 Jul 2008 5:17 pm Operator: J.Wu
Sample : 1114420 1.02 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:27 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

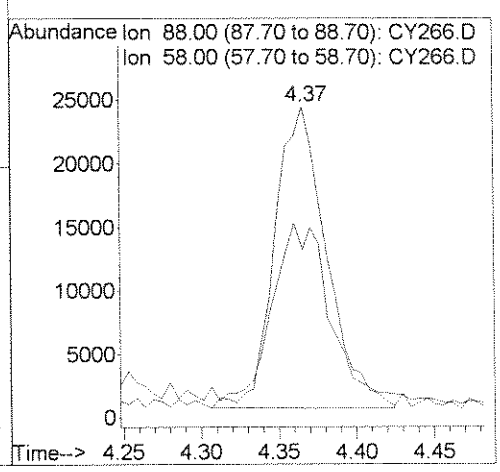


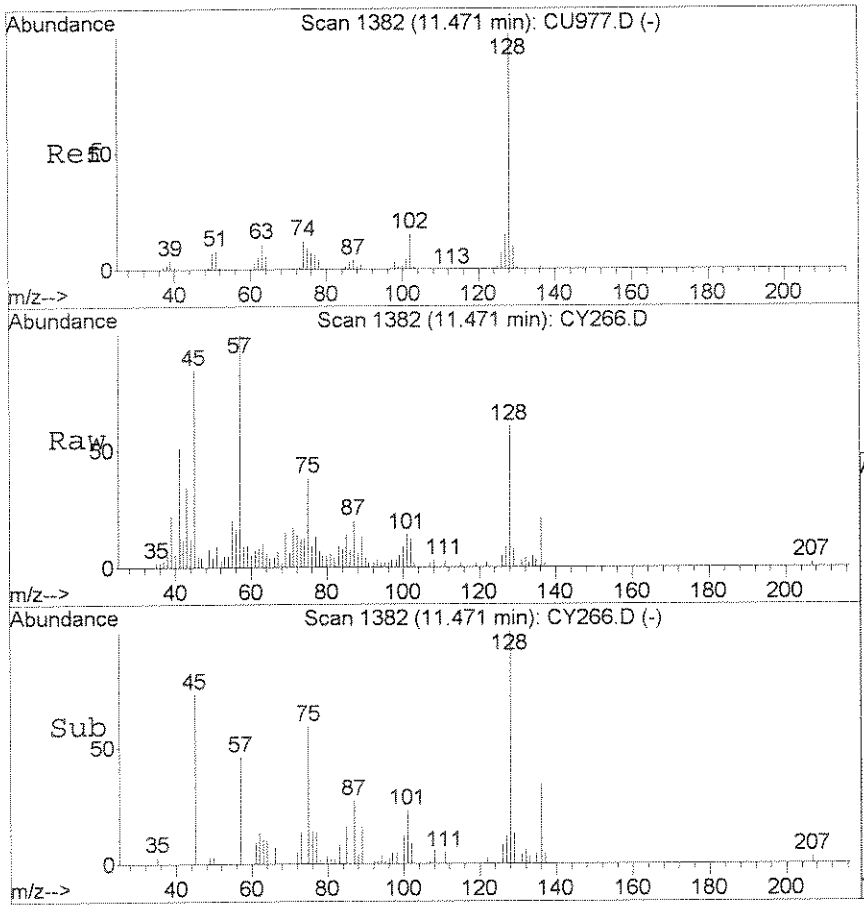


#2
1,4-Dioxane
Concen: 0.94 ppm
RT: 4.37 min Scan# 52
Delta R.T. 0.02 min
Lab File: CY266.D
Acq: 8 Jul 2008 5:17 pm

Tgt Ion: 88 Resp: 55000

Ion	Ratio	Lower	Upper
88	100		
58	47.0	36.9	96.9

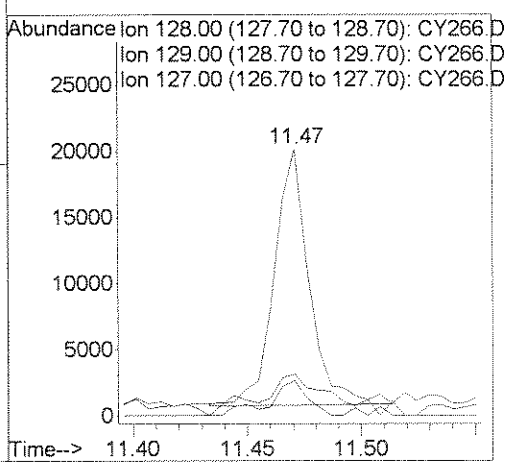


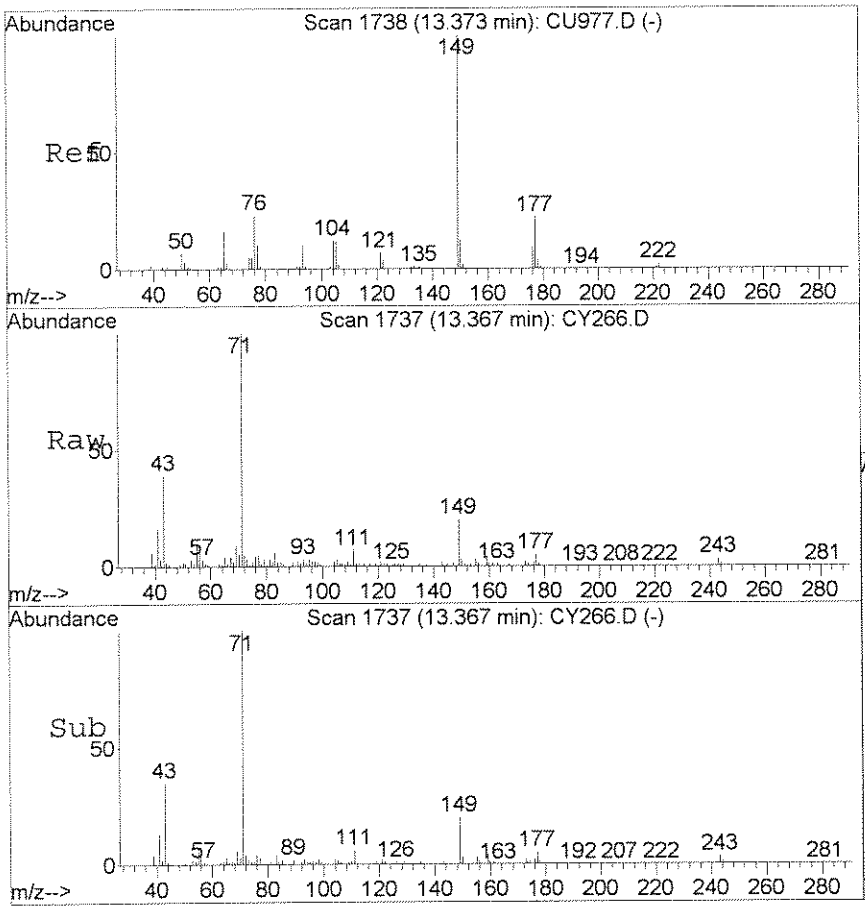


#7
Naphthalene
Concen: 0.10 ppm
RT: 11.47 min Scan# 1382
Delta R.T. 0.00 min
Lab File: CY266.D
Acq: 8 Jul 2008 5:17 pm

Tgt Ion:128 Resp: 20710

Ion	Ratio	Lower	Upper
128	100		
129	13.8	0.0	41.6
127	13.5	0.0	44.7

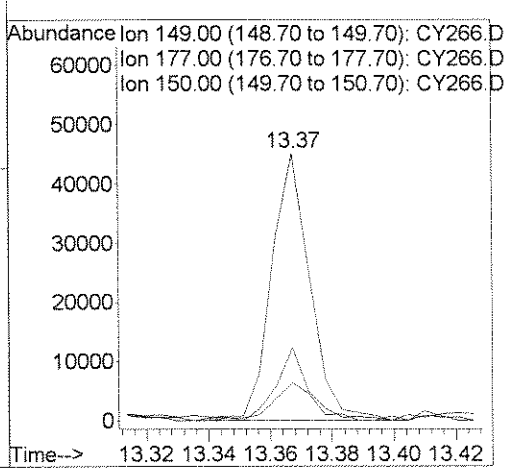




#17
Diethylphthalate
Concen: 0.23 ppm
RT: 13.37 min Scan# 1737
Delta R.T. -0.00 min
Lab File: CY266.D
Acq: 8 Jul 2008 5:17 pm

Tgt Ion:149 Resp: 39249

Ion	Ratio	Lower	Upper
149	100		
177	27.0	16.0	29.6
150	13.5	9.0	16.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/14/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.19 U	UG/L
BENZO(A)ANTHRACENE	0.20	0.19 U	UG/L
BENZO(A)PYRENE	0.20	0.19 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.19 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.19 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 U	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	0.18 JB	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1,4-DIOXANE	2.0	1.1 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.19 U	UG/L
FLUORENE	0.20	0.19 U	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.19 U	UG/L
NAPHTHALENE	0.20	0.066 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.19 U	UG/L
PYRENE	0.20	0.19 U	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	102	%
NITROBENZENE-d5	(45 - 135 %)	83	%
2-FLUOROBIPHENYL	(45 - 135 %)	86	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY267.D Vial: 7
Acq On : 8 Jul 2008 6:05 pm Operator: J.Wu
Sample : 1114421 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:30 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	55410	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	196871	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	130601	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	200969	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	203218	1.00	ppm	0.00
33) d12-Perylene	19.79	264	145327	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	199911	1.65	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 82.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	302470	1.72	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 86.00%			
28) SURR6,TERPHENYL-D14	15.63	244	358381	2.04	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 102.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.33	88	63468	1.17	ppm	86
7) Naphthalene	11.47	128	13643	0.07	ppm	92
17) Diethylphthalate	13.37	149	31414	0.19	ppm	96

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

00287

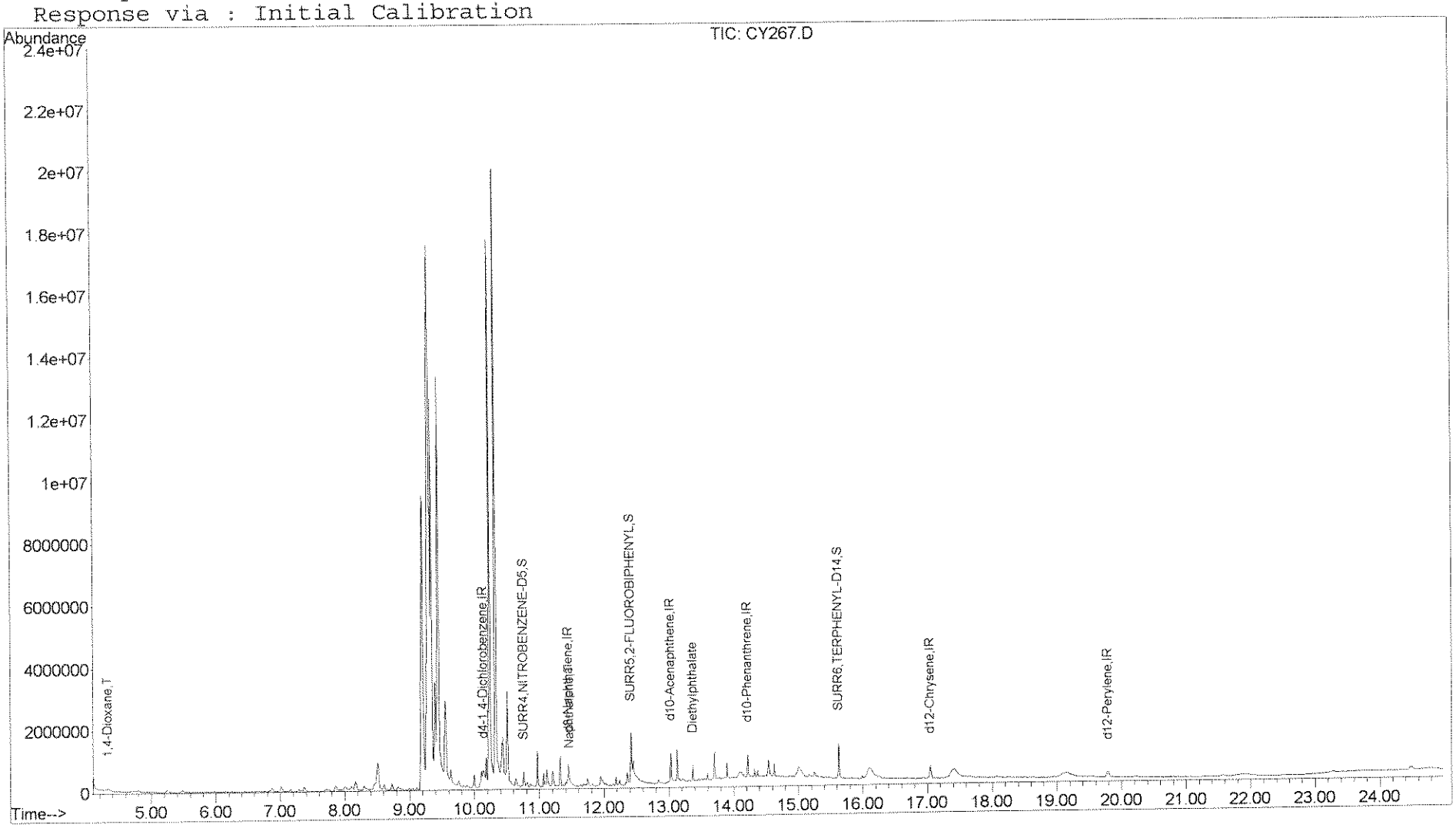
Quantitation Report

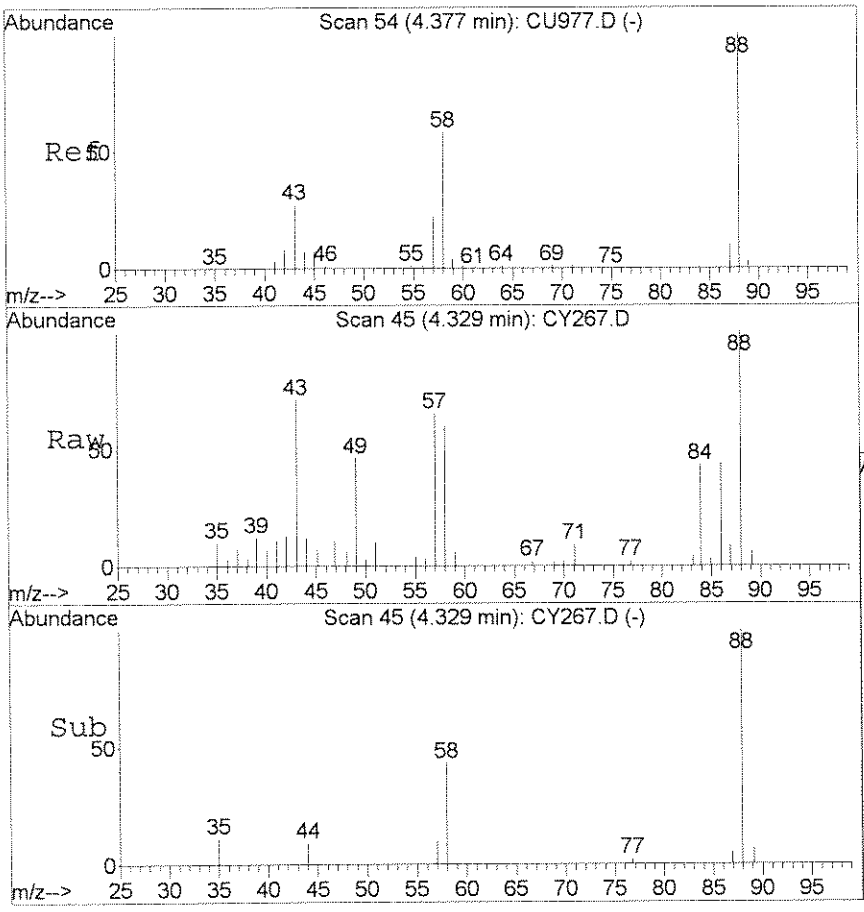
Data File : J:\ACQUDATA\5973B\DATA\070808\CY267.D
Acq On : 8 Jul 2008 6:05 pm
Sample : 1114421 0.94
Misc : 07/07/2008 1.0 ENSR 8270.NEVA
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:30 2008

Vial: 7
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00

Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

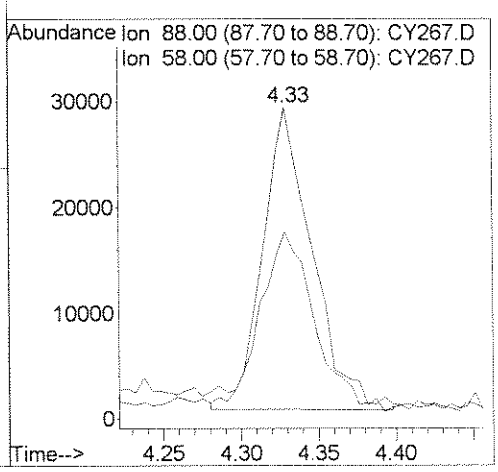


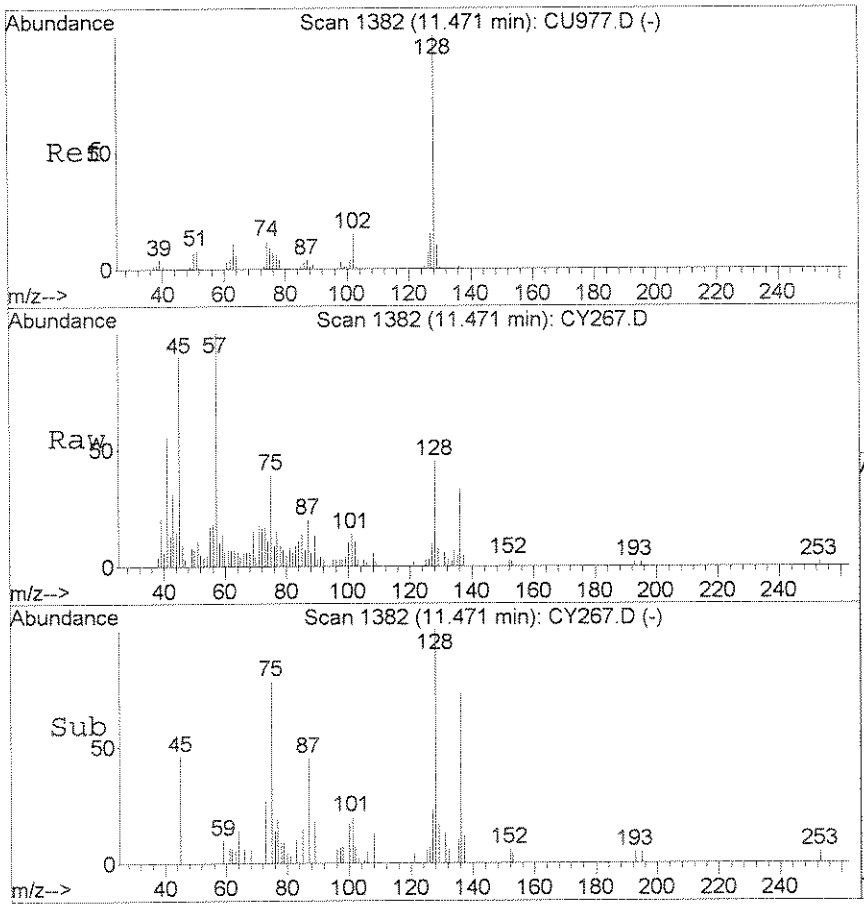


#2
1,4-Dioxane
Concen: 1.17 ppm
RT: 4.33 min Scan# 45
Delta R.T. -0.02 min
Lab File: CY267.D
Acq: 8 Jul 2008 6:05 pm

Tgt Ion: 88 Resp: 63468

Ion	Ratio	Lower	Upper
88	100		
58	56.0	36.9	96.9

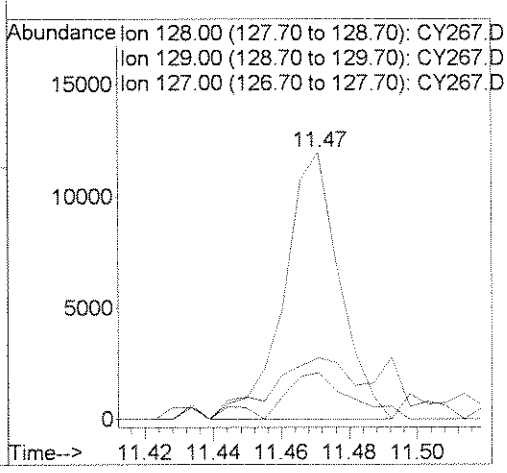


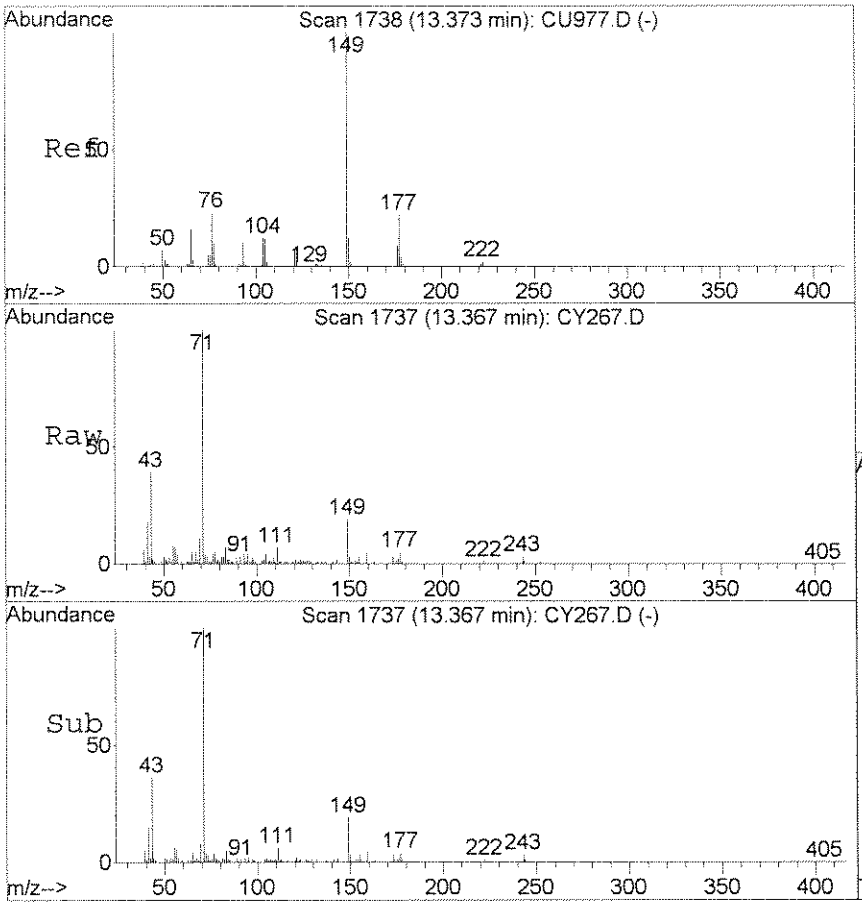


#7
Naphthalene
Concen: 0.07 ppm
RT: 11.47 min Scan# 1382
Delta R.T. 0.01 min
Lab File: CY267.D
Acq: 8 Jul 2008 6:05 pm

Tgt Ion:128 Resp: 13643

Ion	Ratio	Lower	Upper
128	100		
129	15.0	0.0	41.6
127	11.4	0.0	44.7

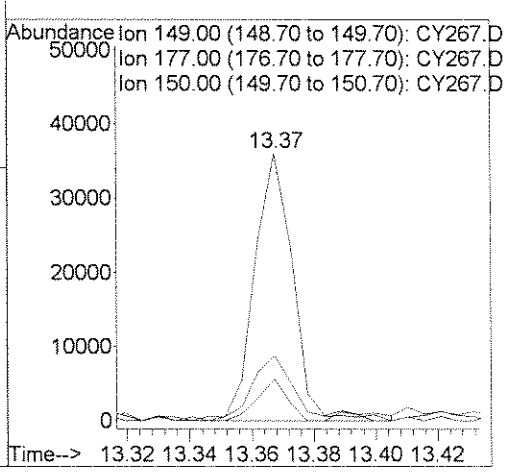




#17
Diethylphthalate
Concen: 0.19 ppm
RT: 13.37 min Scan# 1737
Delta R.T. -0.00 min
Lab File: CY267.D
Acq: 8 Jul 2008 6:05 pm

Tgt Ion:149 Resp: 31414

Ion	Ratio	Lower	Upper
149	100		
177	23.9	16.0	29.6
150	15.7	9.0	16.6



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/14/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.19 U	UG/L
ACENAPHTHYLENE	0.20	0.19 U	UG/L
ANTHRACENE	0.20	0.038 J	UG/L
BENZO(A)ANTHRACENE	0.20	0.19 U	UG/L
BENZO(A)PYRENE	0.20	0.19 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.19 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.19 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.19 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.7 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	1.4 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.19 U	UG/L
CHRYSENE	0.20	0.19 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.19 U	UG/L
DIETHYLPHTHALATE	5.0	0.26 JB	UG/L
DIMETHYL PHTHALATE	5.0	4.7 U	UG/L
1,4-DIOXANE	2.0	0.28 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	4.7 U	UG/L
FLUORANTHENE	0.20	0.038 J	UG/L
FLUORENE	0.20	0.056 J	UG/L
HEXACHLOROBENZENE	0.20	0.19 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.066 J	UG/L
NAPHTHALENE	0.20	0.13 JB	UG/L
NITROBENZENE	0.20	0.19 U	UG/L
OCTACHLOROSTYRENE	0.20	0.19 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.7 U	UG/L
PHENANTHRENE	0.20	0.20	UG/L
PYRENE	0.20	0.047 J	UG/L
PYRIDINE	2.0	1.9 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	87	%
NITROBENZENE-d5	(45 - 135 %)	80	%
2-FLUOROBIPHENYL	(45 - 135 %)	79	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY270.D Vial: 10
Acq On : 8 Jul 2008 8:40 pm Operator: J.Wu
Sample : 1114756 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:58 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	57391	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	210709	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	138959	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	216139	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	223931	1.00	ppm	0.00
33) d12-Perylene	19.78	264	144432	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	207380	1.59	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 79.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	295872	1.58	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 79.00%			
28) SURR6,TERPHENYL-D14	15.63	244	333793	1.73	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 86.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.24	88	16836	0.30	ppm	90
7) Naphthalene	11.47	128	31079	0.14	ppm	95
8) 2-Methylnaphthalene	12.10	142	10443	0.07	ppm	93
9) 1-Methylnaphthalene	12.20	142	5867	0.04	ppm	81
16) Fluorene	13.49	166	10585	0.06	ppm	96
17) Diethylphthalate	13.37	149	48689	0.28	ppm	95
20) Phenanthrene	14.24	178	43057	0.21	ppm	94
21) Anthracene	14.28	178	7298	0.04	ppm	85
24) Di-n-butylphthalate	14.63	149	365431	1.52	ppm	99
25) Fluoranthene	15.27	202	10430	0.04	ppm	91
27) Pyrene	15.52	202	12599	0.05	ppm	84

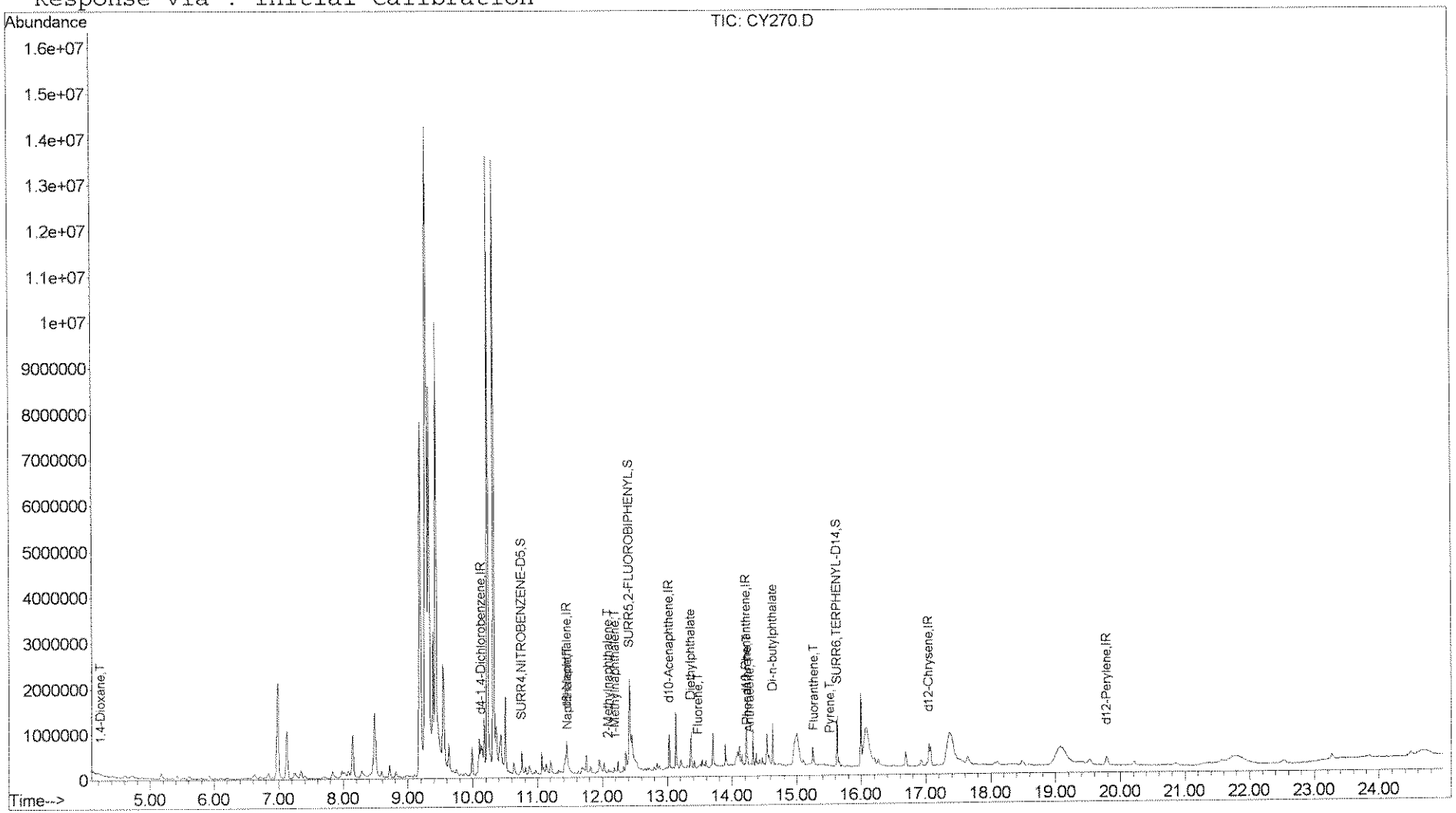
(#) = qualifier out of range (m) = manual integration
CY270.D LVI0701.M Wed Jul 09 15:00:41 2008 Page 1

00232

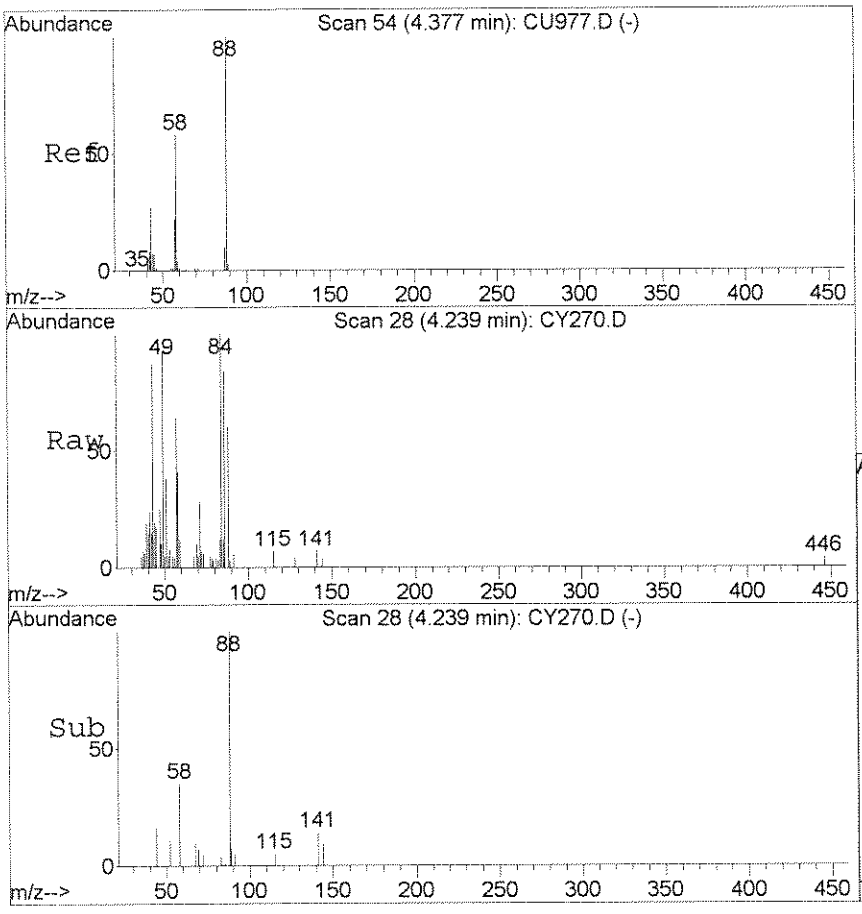
Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY270.D Vial: 10
Acq On : 8 Jul 2008 8:40 pm Operator: J.Wu
Sample : 1114756 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:58 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration



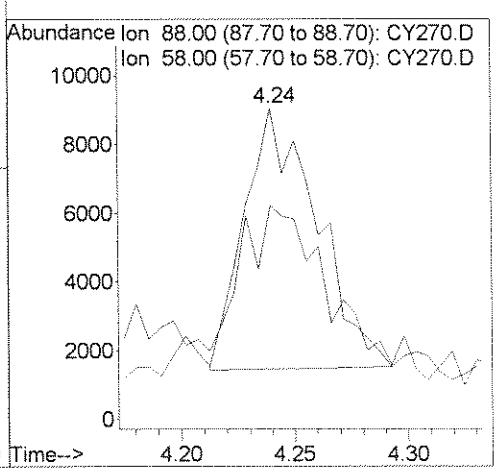
CY270.D LVI0701.M Wed Jul 09 15:00:42 2008 Page 2

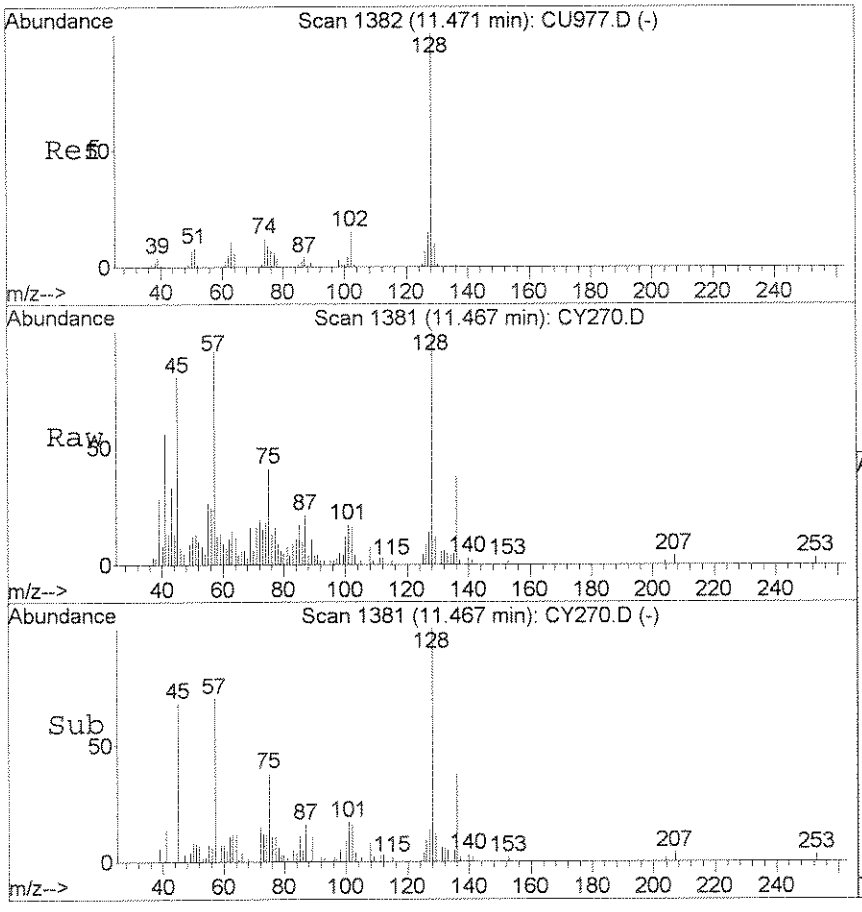


#2
1,4-Dioxane
Concen: 0.30 ppm
RT: 4.24 min Scan# 28
Delta R.T. -0.11 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion: 88 Resp: 16836

Ion	Ratio	Lower	Upper
88	100		
58	59.0	36.9	96.9

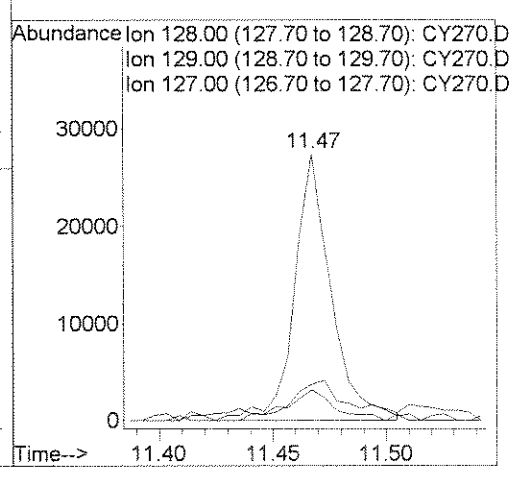


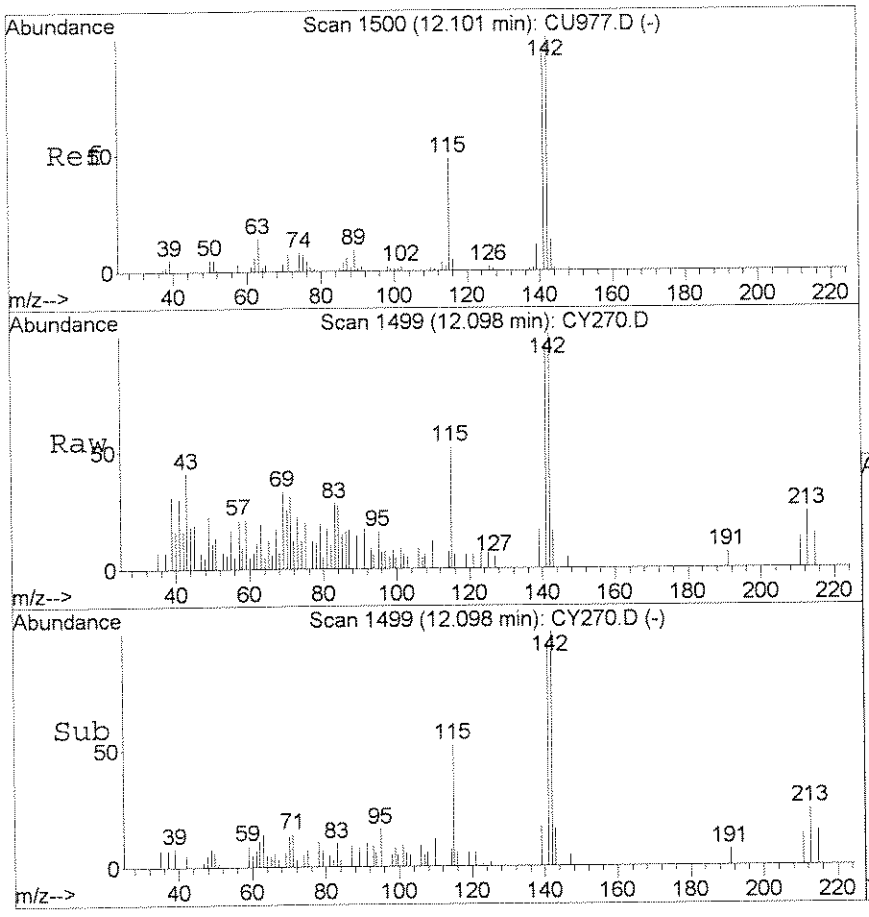


#7
Naphthalene
Concen: 0.14 ppm
RT: 11.47 min Scan# 1381
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:128 Resp: 31079

Ion	Ratio	Lower	Upper
128	100		
129	10.5	0.0	41.6
127	11.8	0.0	44.7

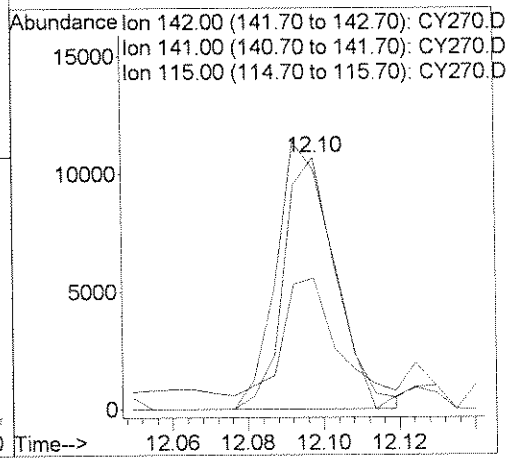


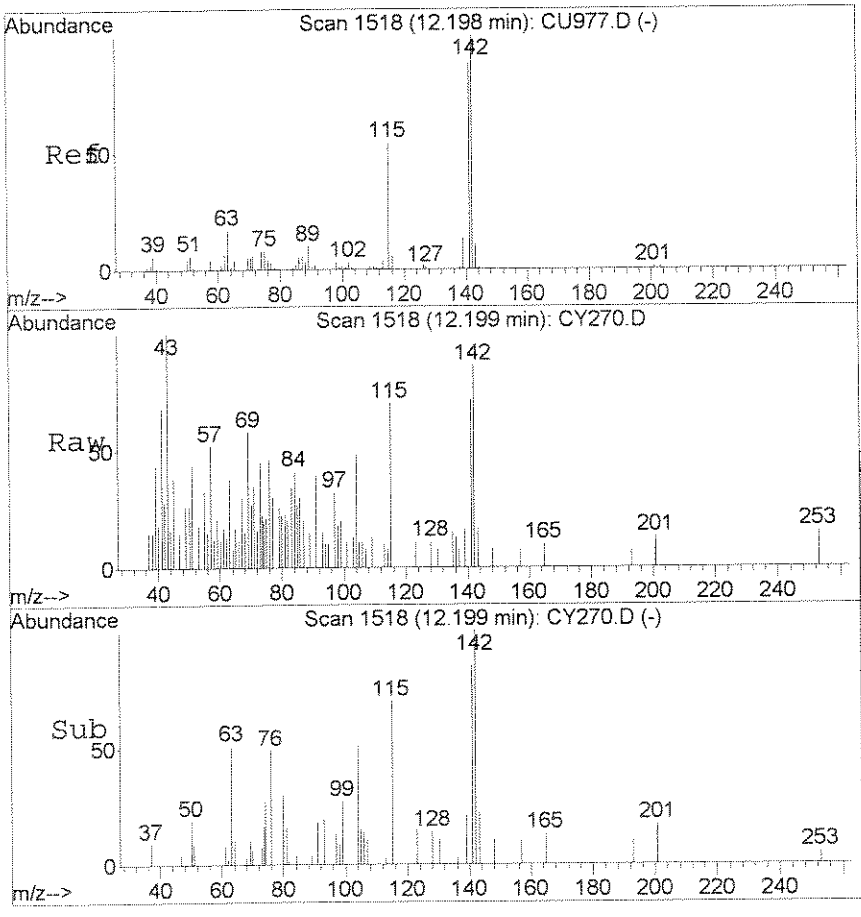


#8
2-Methylnaphthalene
Concen: 0.07 ppm
RT: 12.10 min Scan# 1499
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:142 Resp: 10443

Ion	Ratio	Lower	Upper
142	100		
141	92.6	67.1	107.1
115	46.4	33.3	73.3

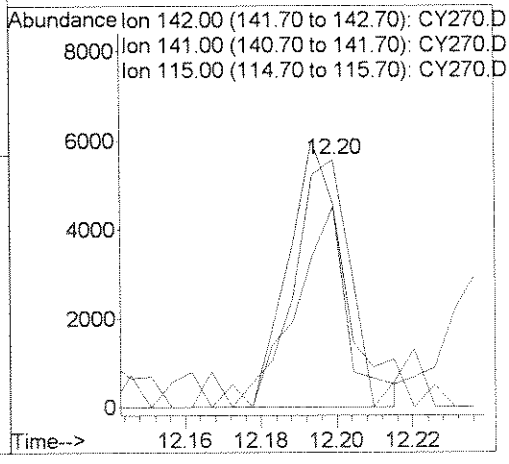


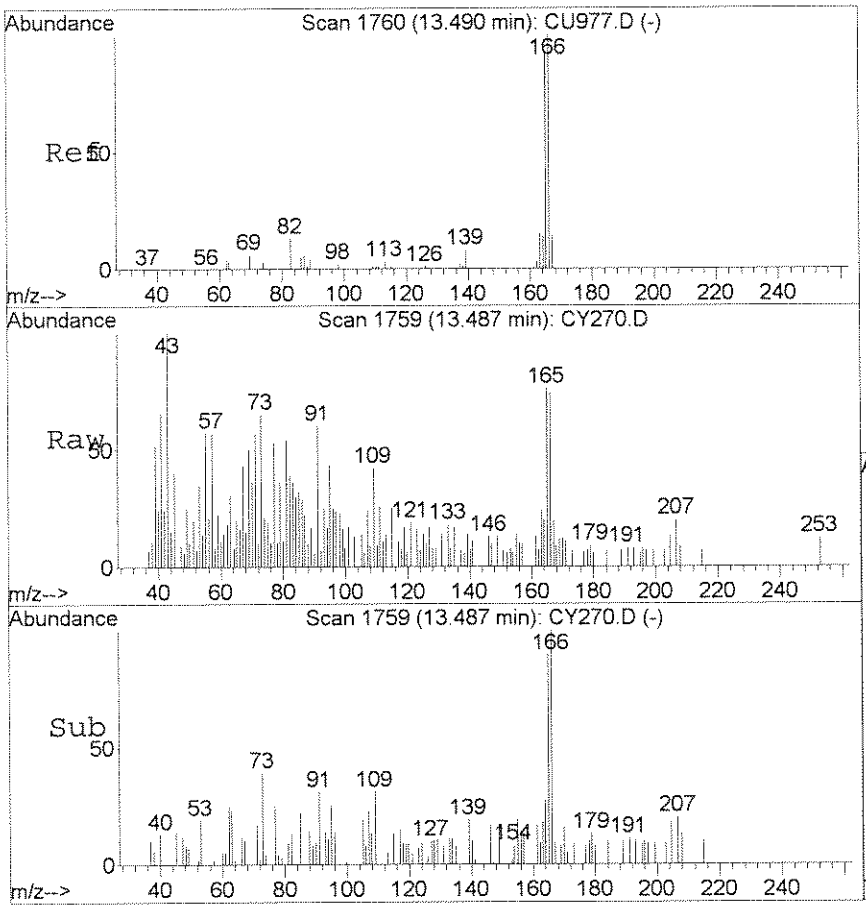


#9
1-Methylnaphthalene
Concen: 0.04 ppm
RT: 12.20 min Scan# 1518
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:142 Resp: 5867

Ion	Ratio	Lower	Upper
142	100		
141	76.5	57.8	117.8
115	72.9	21.7	81.7

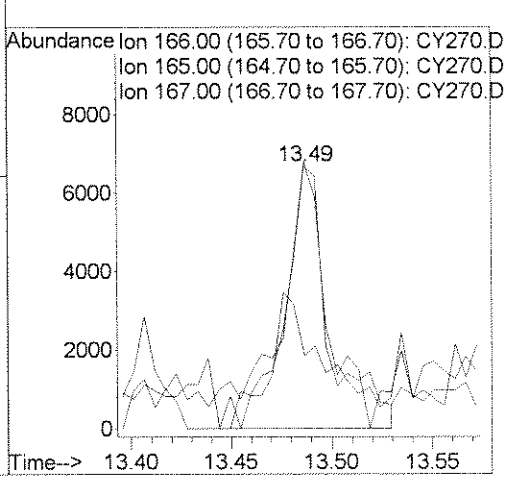


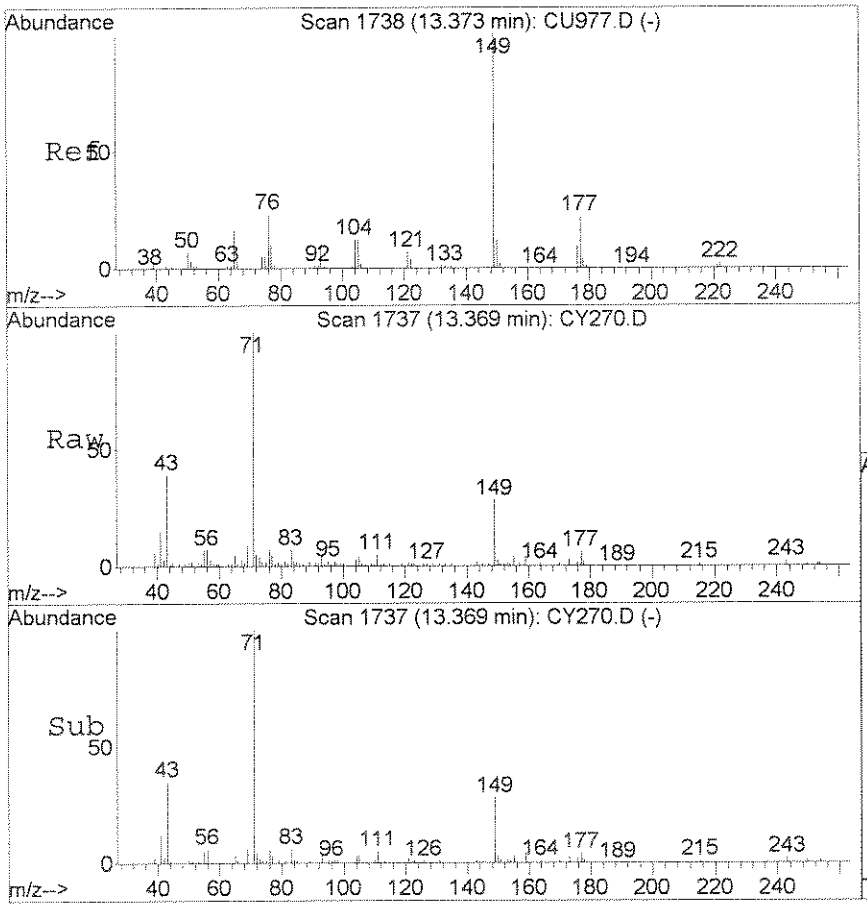


#16
Fluorene
Concen: 0.06 ppm
RT: 13.49 min Scan# 1759
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:166 Resp: 10585

Ion	Ratio	Lower	Upper
166	100		
165	95.2	62.2	122.2
167	8.5	0.0	43.3

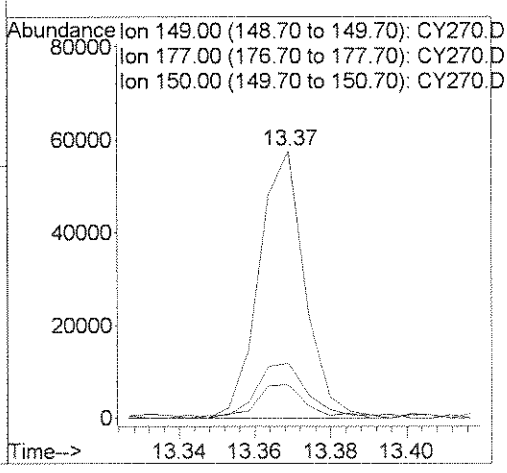


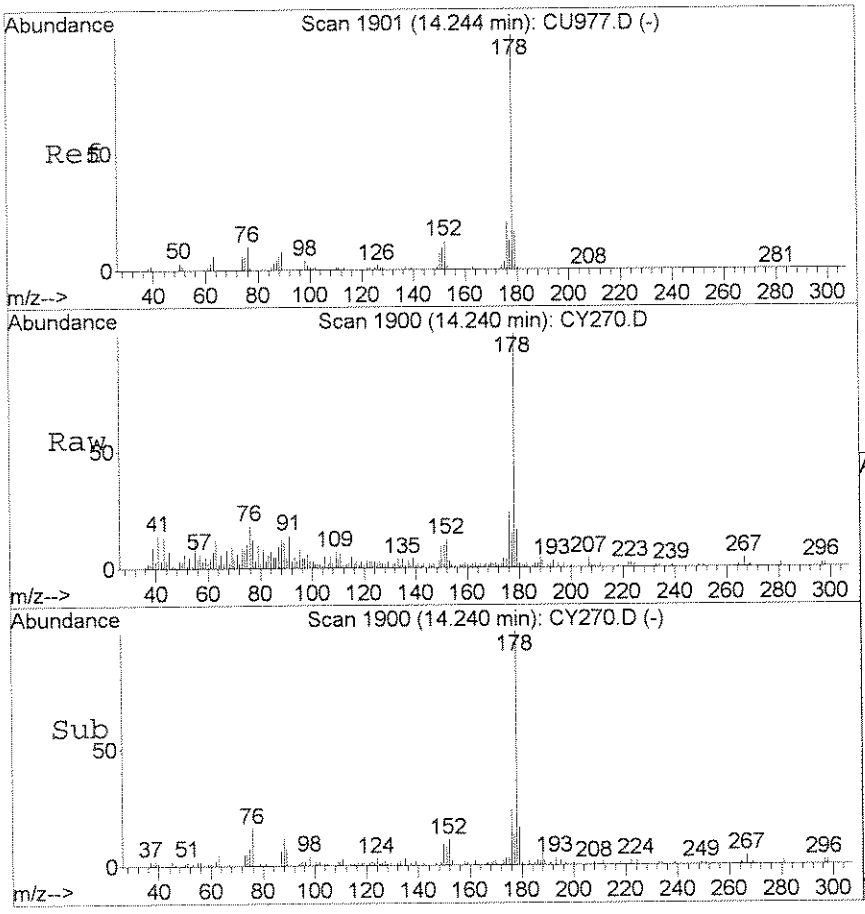


#17
Diethylphthalate
Concen: 0.28 ppm
RT: 13.37 min Scan# 1737
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:149 Resp: 48689

Ion	Ratio	Lower	Upper
149	100		
177	19.3	16.0	29.6
150	12.6	9.0	16.6

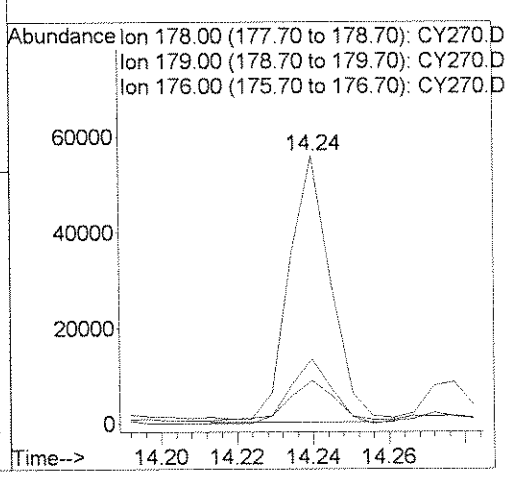


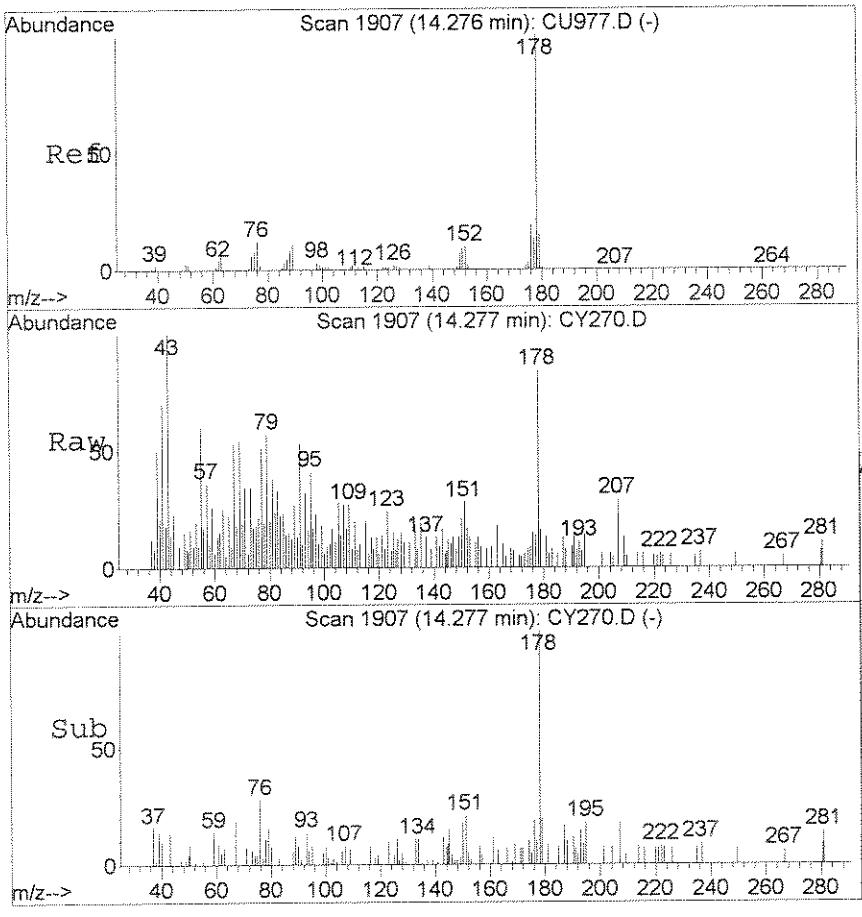


#20
Phenanthrene
Concen: 0.21 ppm
RT: 14.24 min Scan# 1900
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:178 Resp: 43057

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	34.4
176	24.1	0.0	39.8

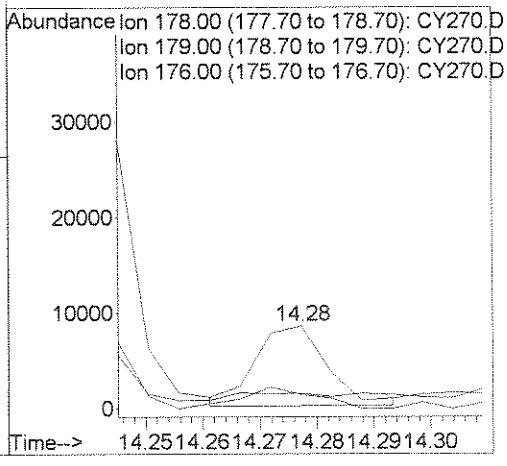


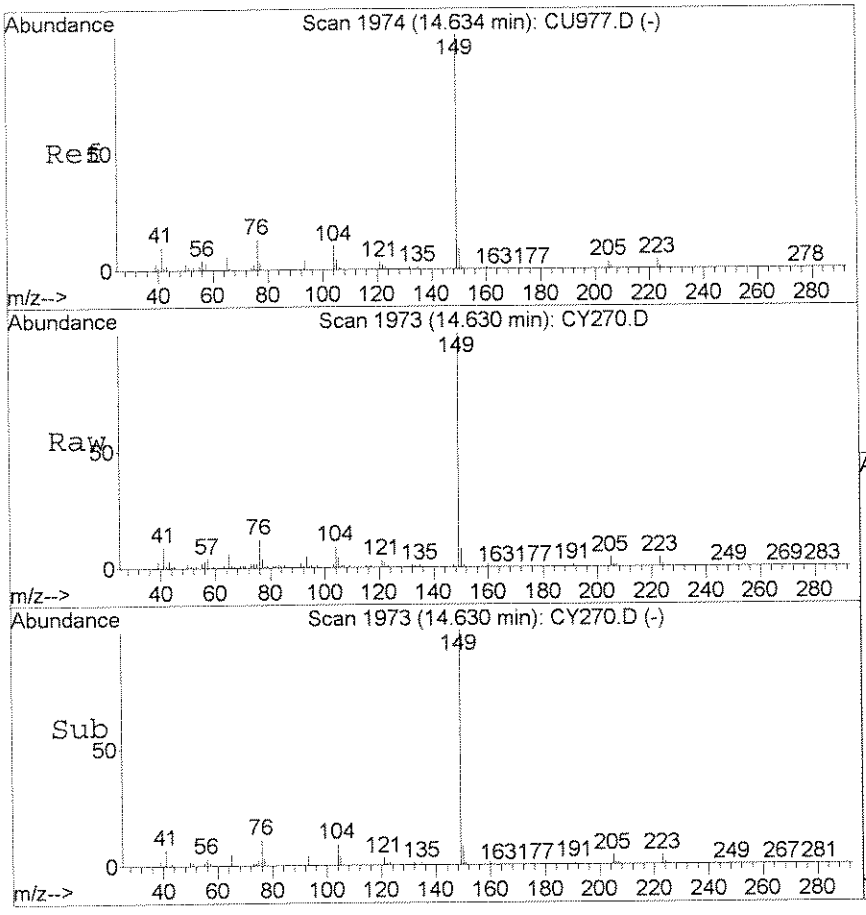


#21
Anthracene
Concen: 0.04 ppm
RT: 14.28 min Scan# 1907
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:178 Resp: 7298

Ion	Ratio	Lower	Upper
178	100		
179	6.0	0.0	35.9
176	16.3	0.2	40.2

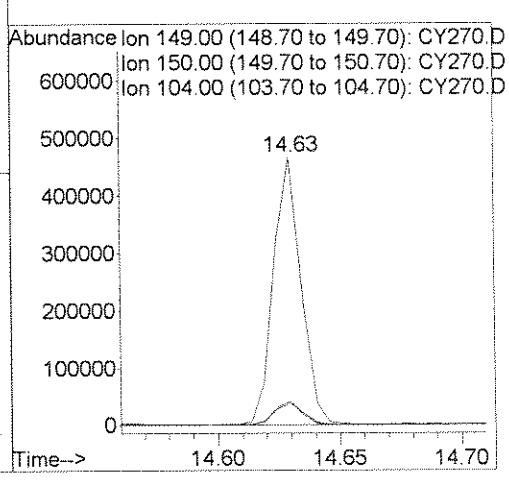


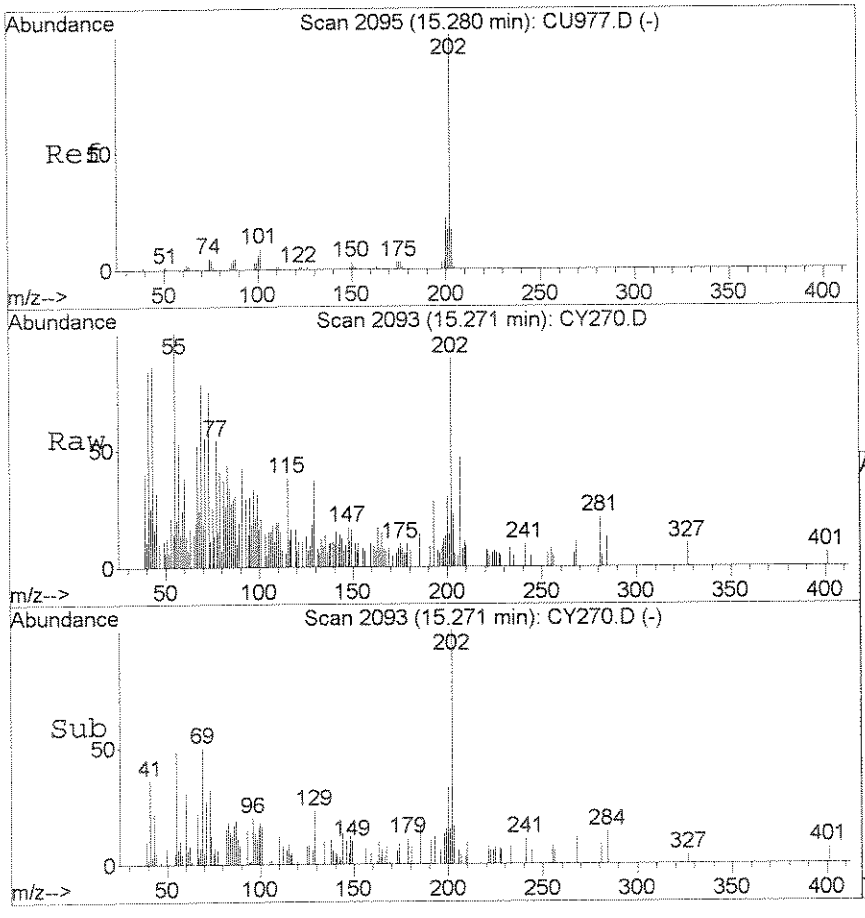


#24
Di-n-butylphthalate
Concen: 1.52 ppm
RT: 14.63 min Scan# 1973
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:149 Resp: 365431

Ion	Ratio	Lower	Upper
149	100		
150	8.1	6.2	11.4
104	8.9	6.1	11.3

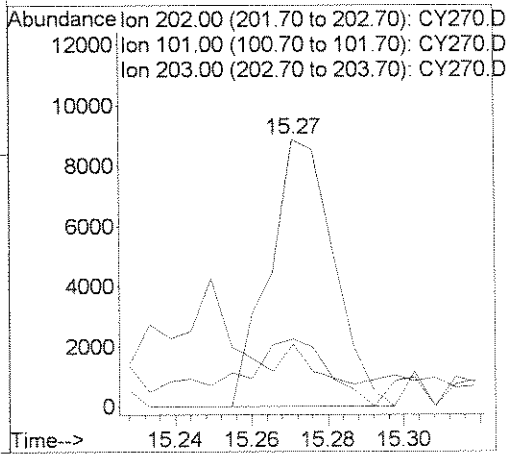


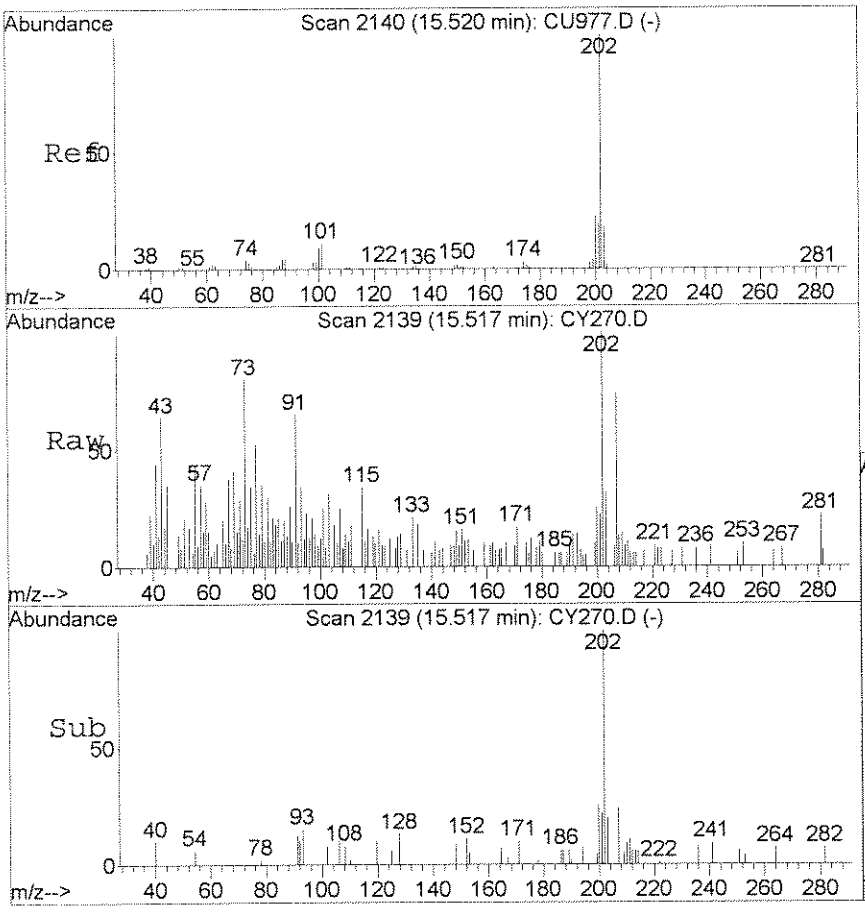


#25
Fluoranthene
Concen: 0.04 ppm
RT: 15.27 min Scan# 2093
Delta R.T. -0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:202 Resp: 10430

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	28.4
203	16.5	0.0	37.1

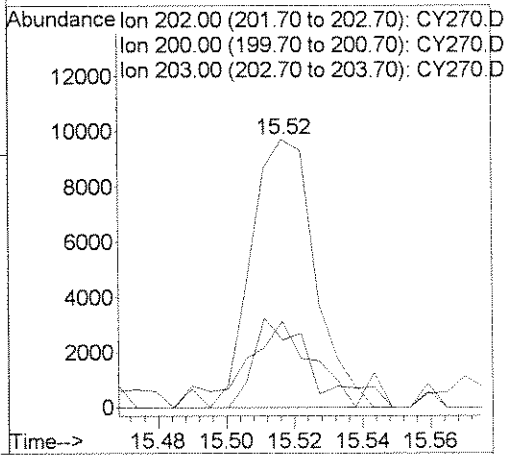




#27
Pyrene
Concen: 0.05 ppm
RT: 15.52 min Scan# 2139
Delta R.T. 0.00 min
Lab File: CY270.D
Acq: 8 Jul 2008 8:40 pm

Tgt Ion:202 Resp: 12599

Ion	Ratio	Lower	Upper
202	100		
200	25.3	1.8	41.8
203	29.2	0.0	37.4



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/14/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : EB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114758 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 163571

DATE EXTRACTED : 07/07/08
DATE ANALYZED : 07/08/08
ANALYTICAL DILUTION: 0.98

ANALYTE	PQL	RESULT	UNITS
ACENAPHTHENE	0.20	0.20 U	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)PYRENE	0.20	0.20 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.20 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.20 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	0.33 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	3.0 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	5.9	UG/L
DIMETHYL PHTHALATE	5.0	3.0 J	UG/L
1,4-DIOXANE	2.0	2.0 U	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	0.62 J	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.039 J	UG/L
NAPHTHALENE	0.20	0.088 JB	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.9 U	UG/L
PHENANTHRENE	0.20	0.059 JB	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	104	%
NITROBENZENE-d5	(45 - 135 %)	82	%
2-FLUOROBIPHENYL	(45 - 135 %)	80	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY271.D Vial: 11
Acq On : 8 Jul 2008 9:31 pm Operator: J.Wu
Sample : 1114758 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 15:12 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	55624	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	210243	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	141209	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	169816	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	205449	1.00	ppm	0.00
33) d12-Perylene	19.79	264	169764	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	211829	1.63	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 81.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	302832	1.59	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 79.50%			
28) SURR6,TERPHENYL-D14	15.63	244	366558	2.07	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 103.50%			
Target Compounds						Qvalue
7) Naphthalene	11.47	128	19834	0.09	ppm	92
8) 2-Methylnaphthalene	12.10	142	5383	0.04	ppm	85
13) Dimethyl phthalate	12.78	163	515549	3.02	ppm	98
17) Diethylphthalate	13.37	149	1066694	6.03	ppm	99
20) Phenanthrene	14.24	178	10223	0.06	ppm	83
24) Di-n-butylphthalate	14.63	149	572465	3.02	ppm	99
29) Butyl benzyl phthalate	16.20	149	35311	0.34	ppm	97
30) bis(2-Ethylhexyl)phthalate	17.02	149	92081m	0.63	ppm	

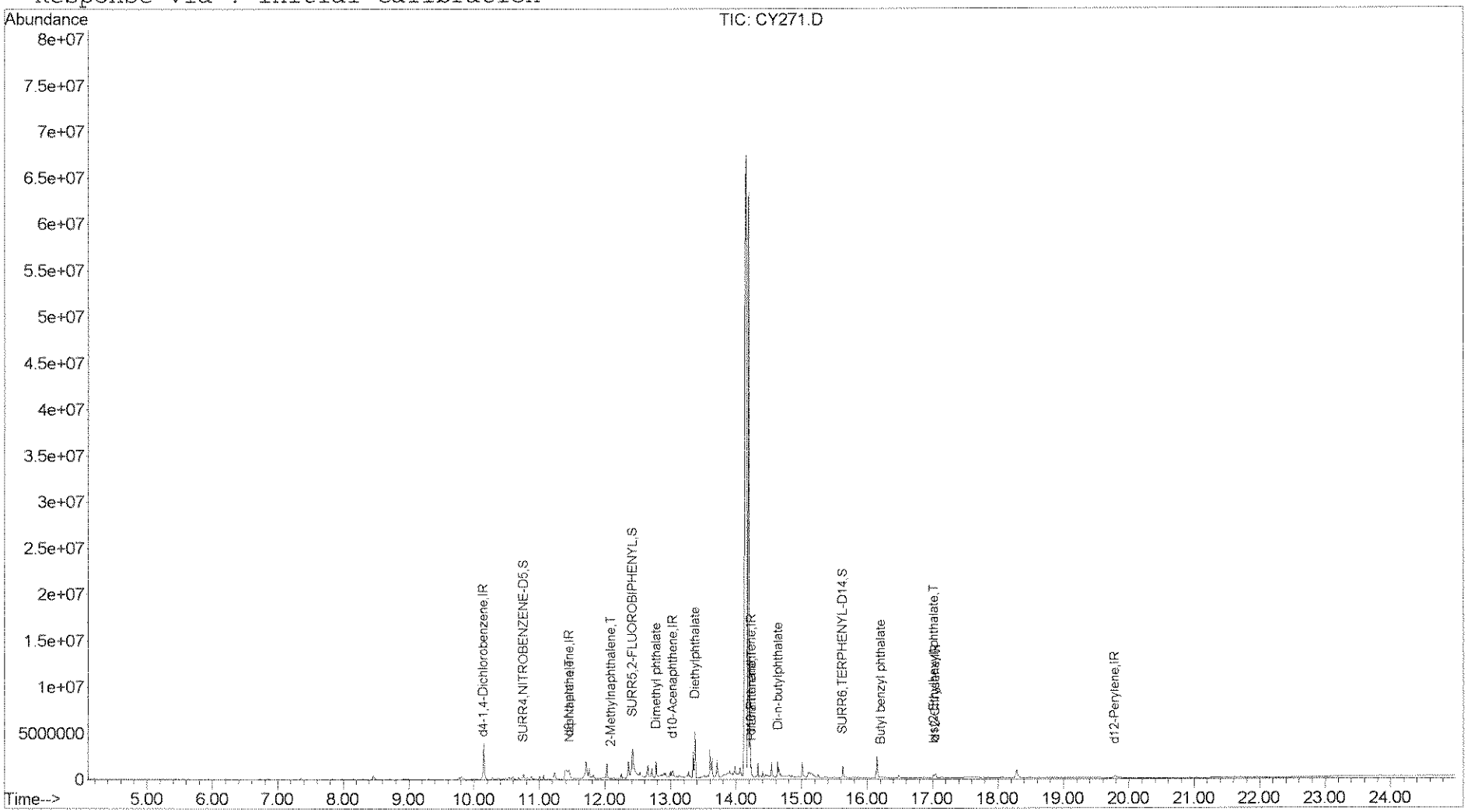
(#) = qualifier out of range (m) = manual integration

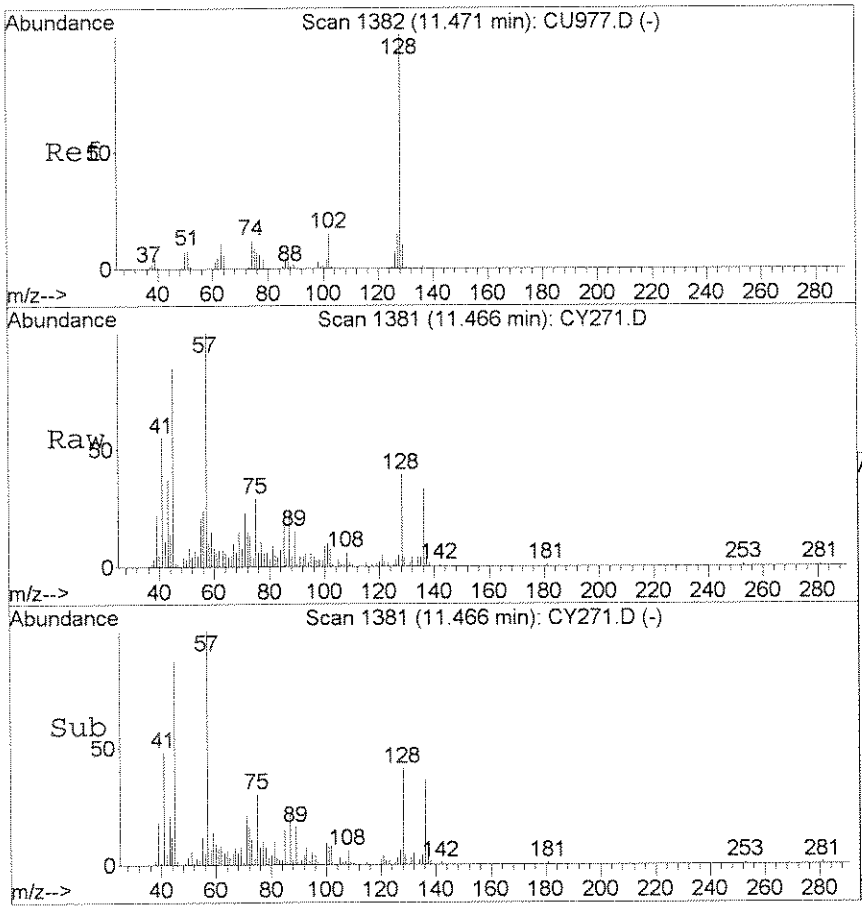
00301

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY271.D Vial: 11
Acq On : 8 Jul 2008 9:31 pm Operator: J.Wu
Sample : 1114758 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 15:12 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

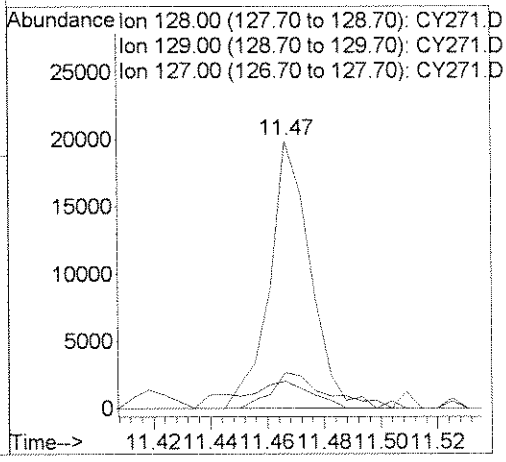


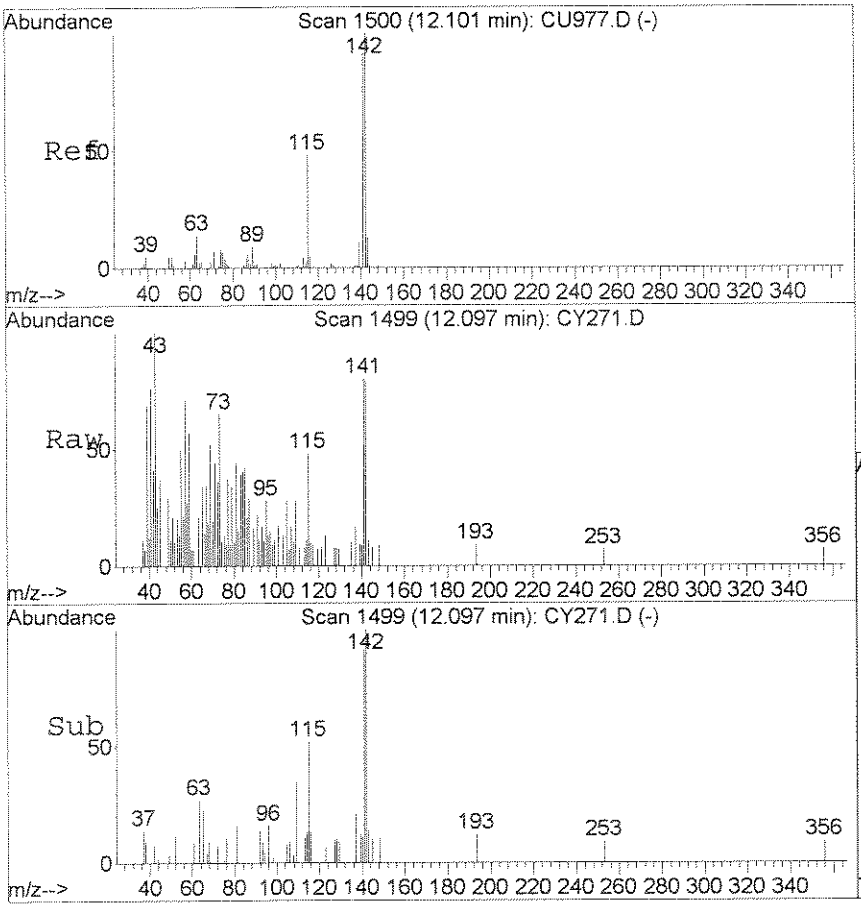


#7
Naphthalene
Concen: 0.09 ppm
RT: 11.47 min Scan# 1381
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:128 Resp: 19834

Ion	Ratio	Lower	Upper
128	100		
129	6.3	0.0	41.6
127	13.5	0.0	44.7

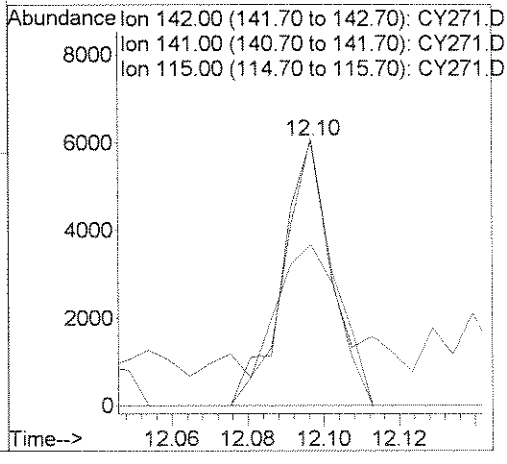


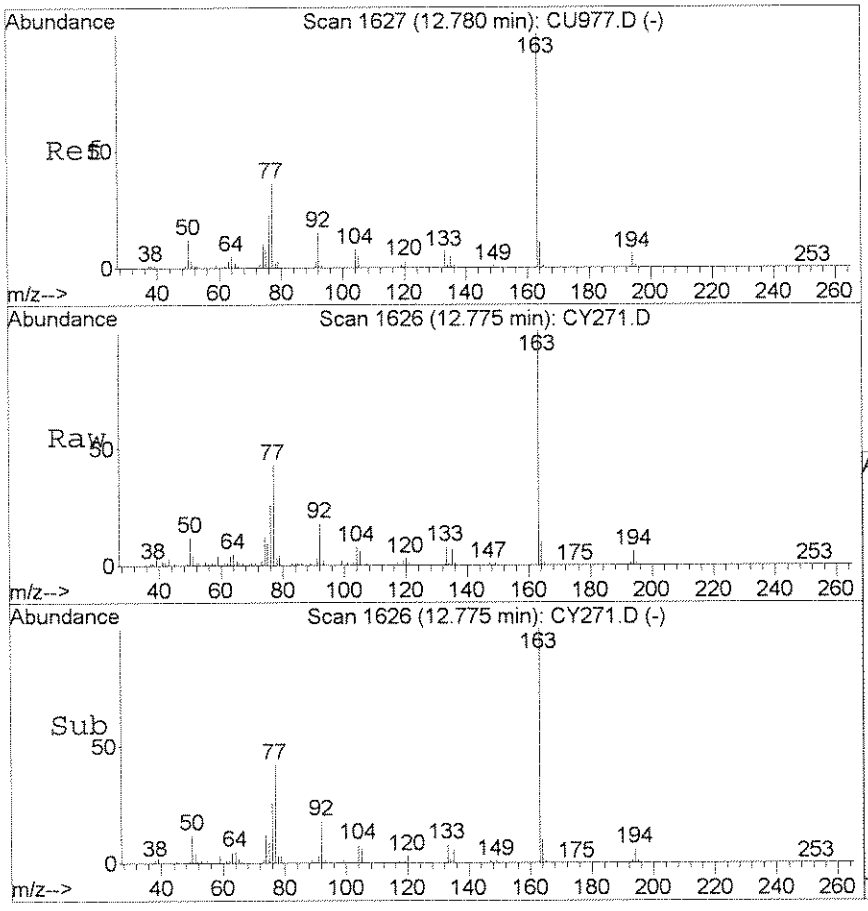


#8
2-Methylnaphthalene
Concen: 0.04 ppm
RT: 12.10 min Scan# 1499
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:142 Resp: 5383

Ion	Ratio	Lower	Upper
142	100		
141	100.9	67.1	107.1
115	42.8	33.3	73.3

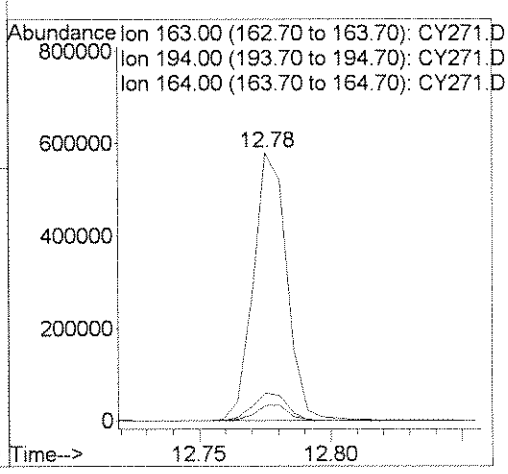


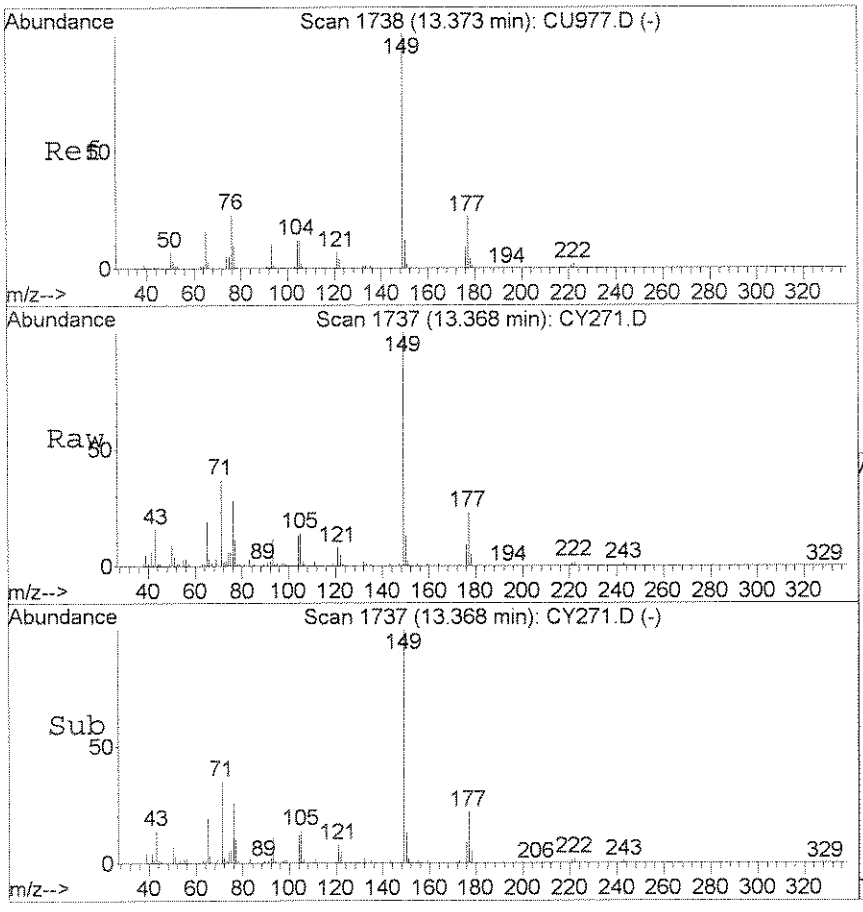


#13
Dimethyl phthalate
Concen: 3.02 ppm
RT: 12.78 min Scan# 1626
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:163 Resp: 515549

Ion	Ratio	Lower	Upper
163	100		
194	6.0	3.9	7.2
164	10.4	7.9	14.7

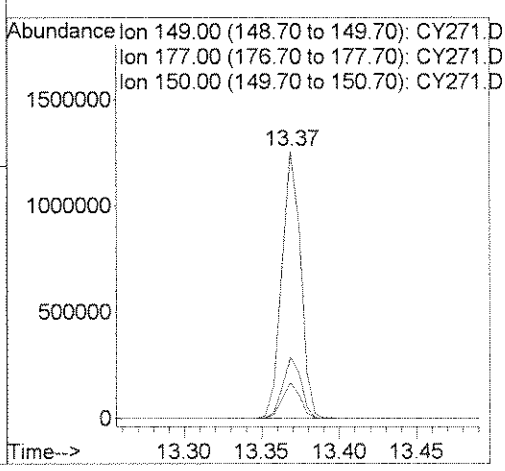


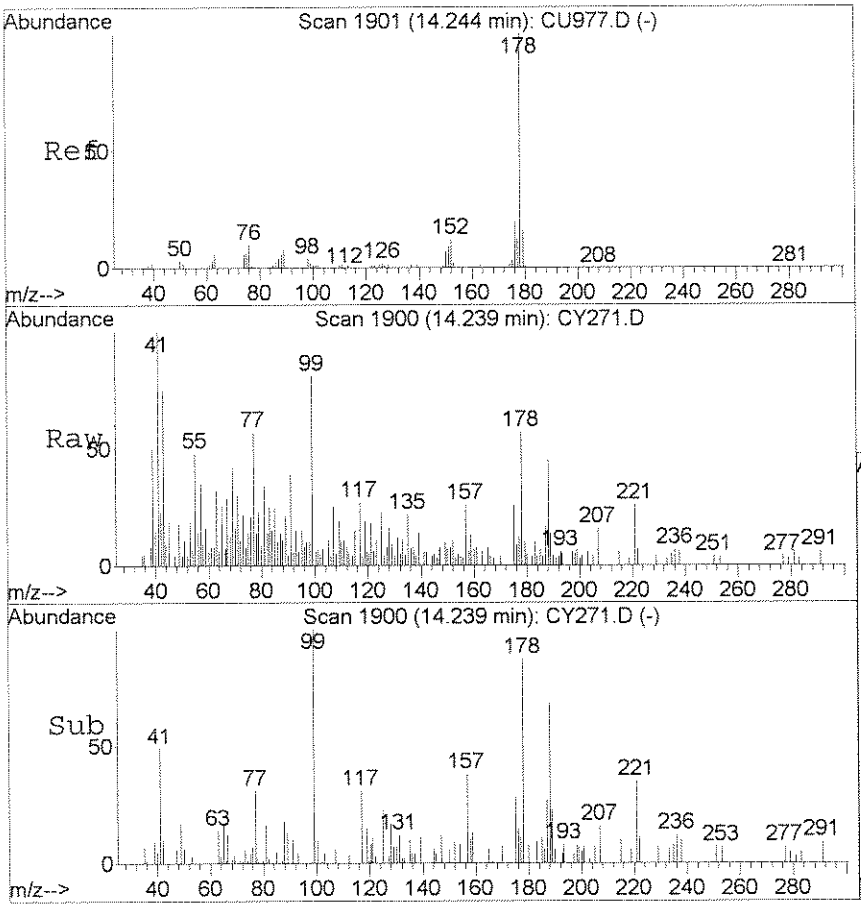


#17
Diethylphthalate
Concen: 6.03 ppm
RT: 13.37 min Scan# 1737
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:149 Resp: 1066694

Ion	Ratio	Lower	Upper
149	100		
177	23.1	16.0	29.6
150	13.4	9.0	16.6

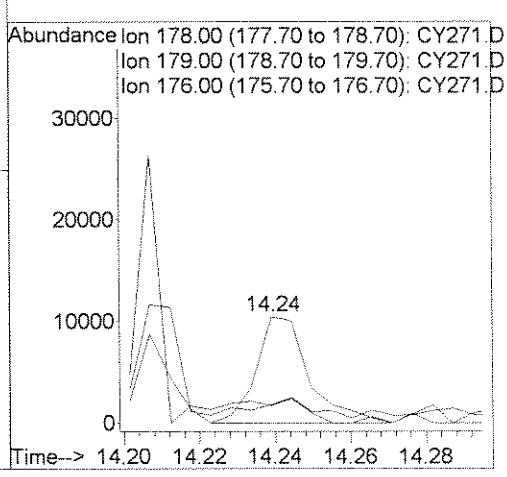


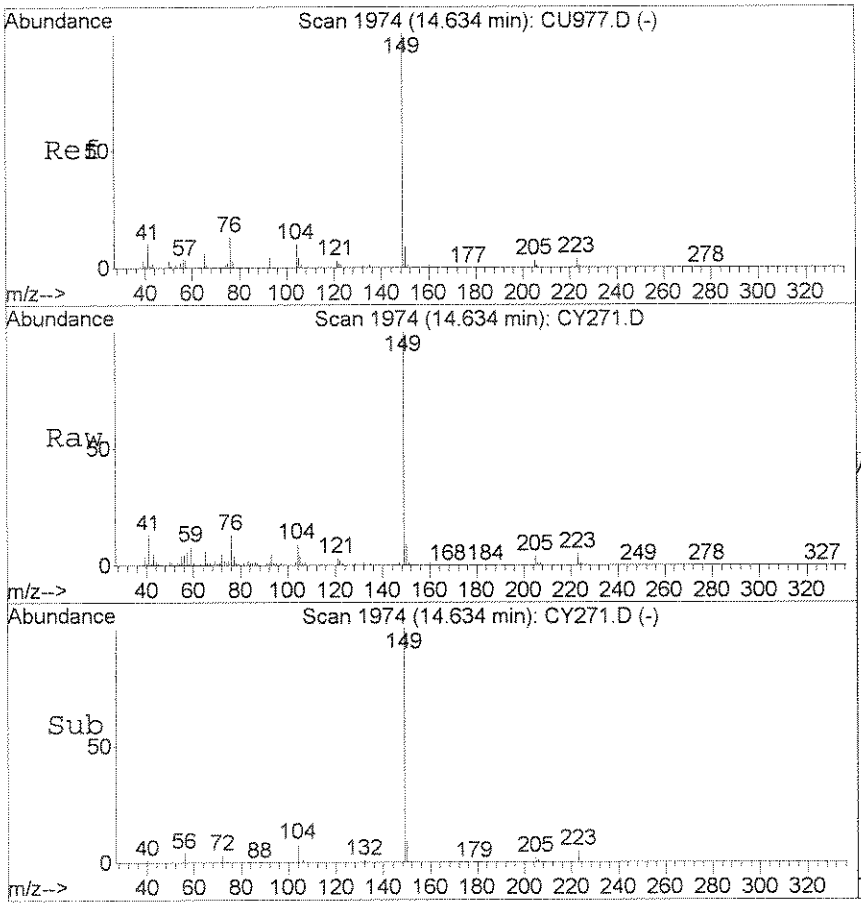


#20
Phenanthrene
Concen: 0.06 ppm
RT: 14.24 min Scan# 1900
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:178 Resp: 10223

Ion	Ratio	Lower	Upper
178	100		
179	9.9	0.0	34.4
176	9.9	0.0	39.8

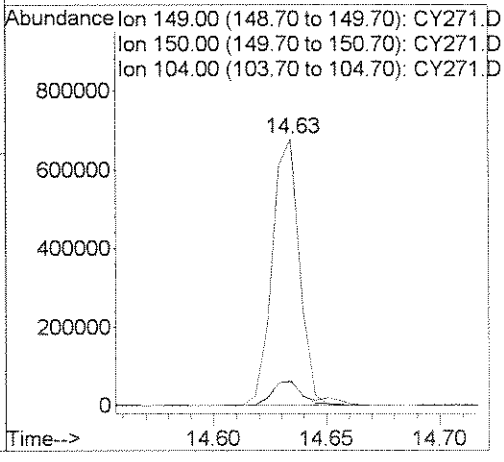


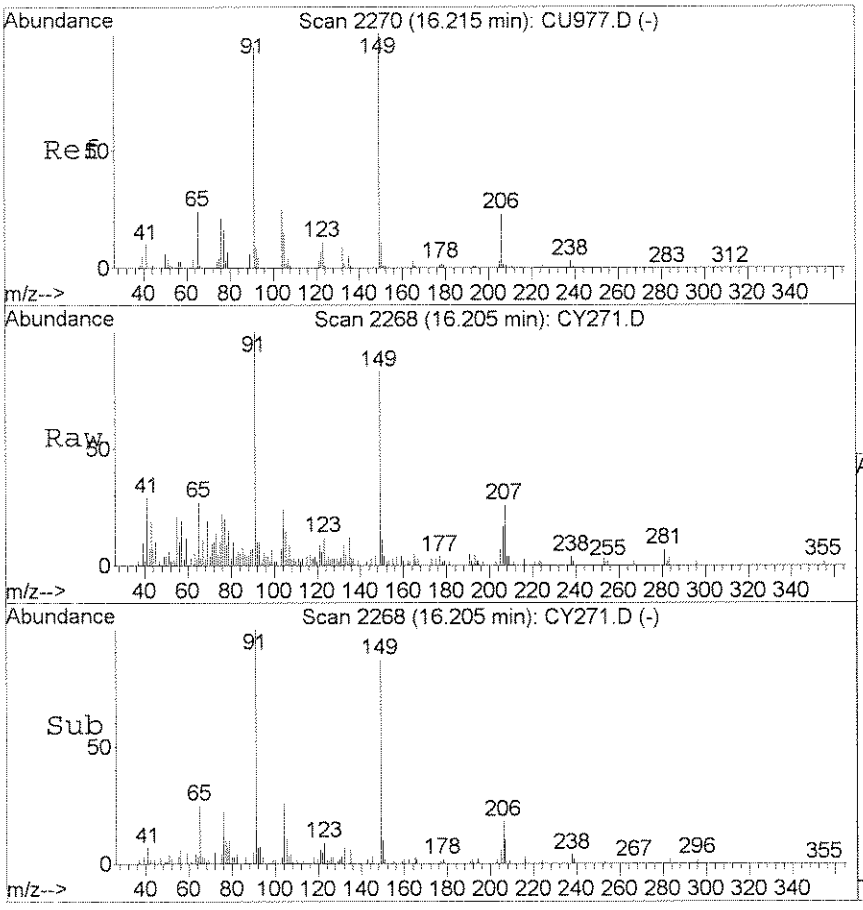


#24
Di-n-butylphthalate
Concen: 3.02 ppm
RT: 14.63 min Scan# 1974
Delta R.T. 0.01 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:149 Resp: 572465

Ion	Ratio	Lower	Upper
149	100		
150	8.9	6.2	11.4
104	9.3	6.1	11.3

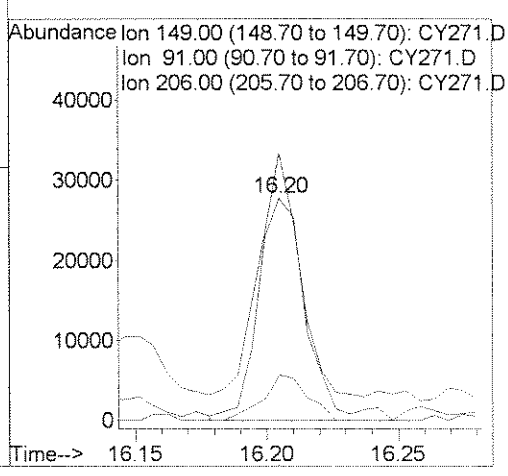


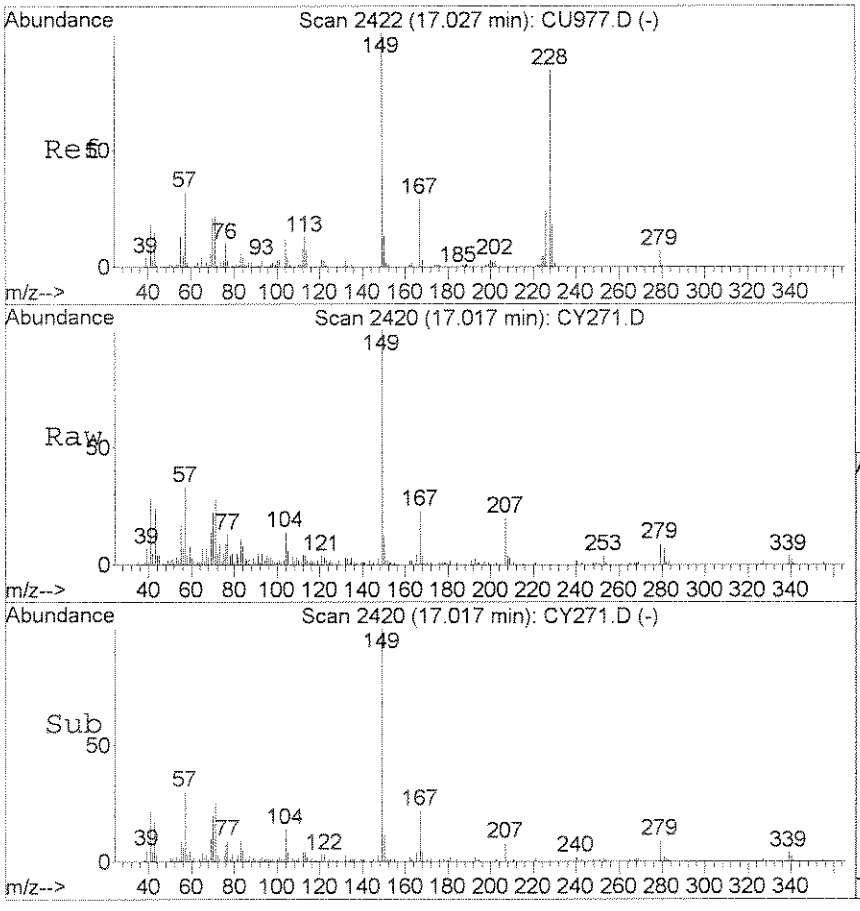


#29
Butyl benzyl phthalate
Concen: 0.34 ppm
RT: 16.20 min Scan# 2268
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:149 Resp: 35311

Ion	Ratio	Lower	Upper
149	100		
91	109.8	74.4	138.2
206	20.8	15.0	28.0

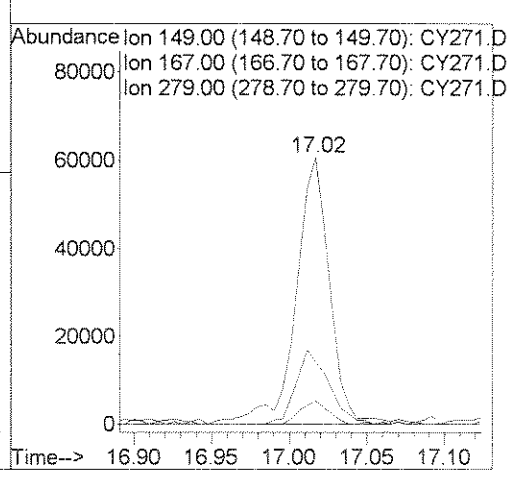




#30
bis(2-Ethylhexyl)phthalate
Concen: 0.63 ppm m
RT: 17.02 min Scan# 2420
Delta R.T. 0.00 min
Lab File: CY271.D
Acq: 8 Jul 2008 9:31 pm

Tgt Ion:149 Resp: 92081

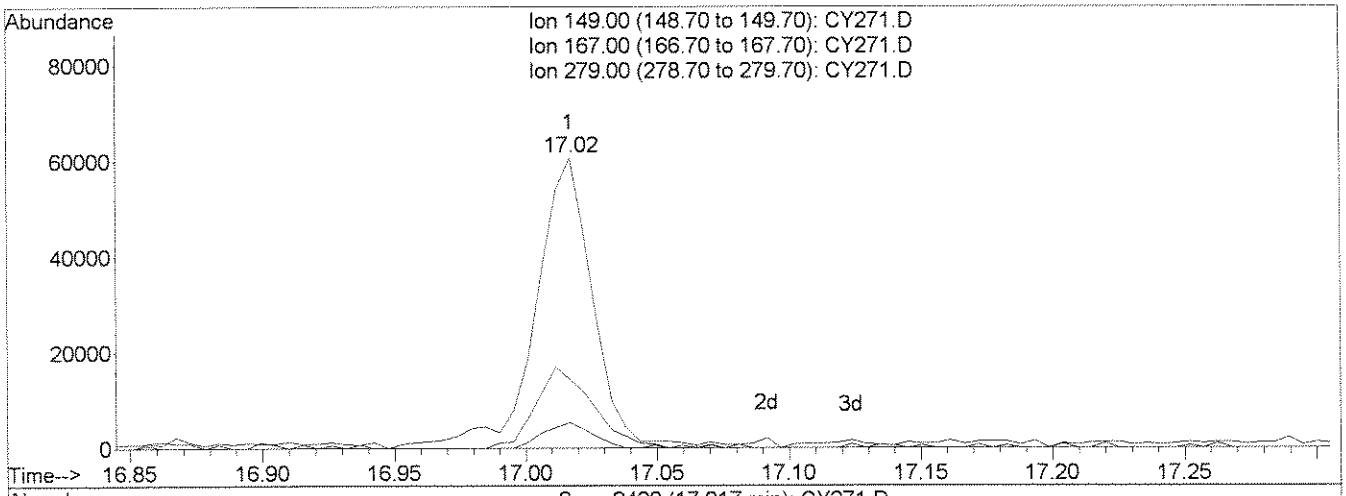
Ion	Ratio	Lower	Upper
149	100		
167	23.4	23.3	34.9
279	8.8	5.7	8.5#

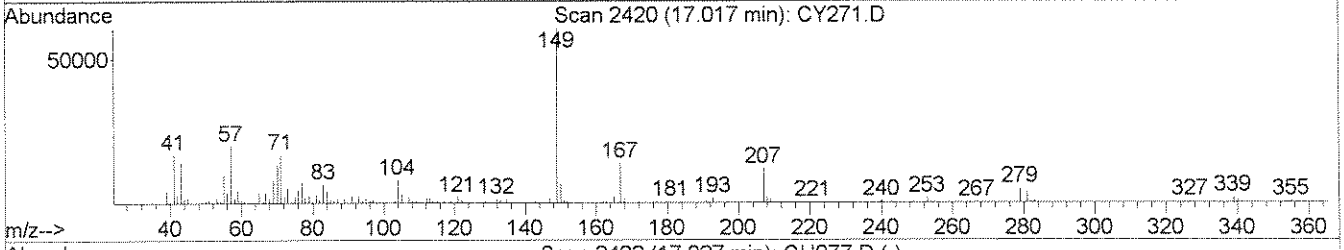


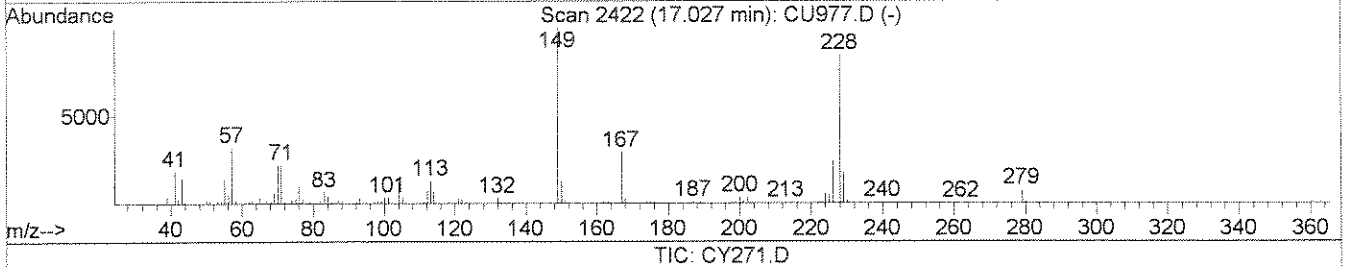
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY271.D Vial: 11
Acq On : 8 Jul 2008 9:31 pm Operator: J.Wu
Sample : 1114758 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 15:06 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Single Level Calibration







TIC: CY271.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.02min 0.63ppm

response 92081

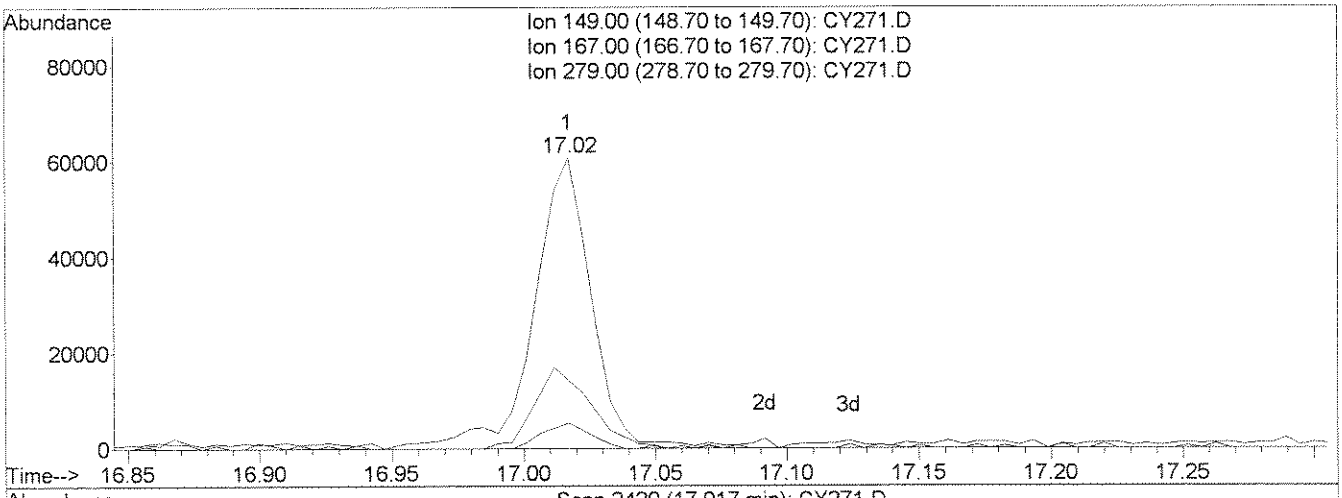
B

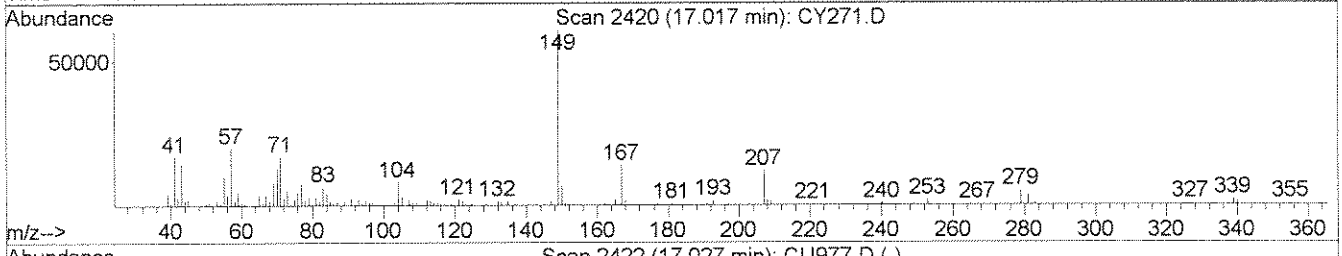
Ion	Exp%	Act%
149.00	100	100
167.00	29.10	23.54
279.00	7.10	8.87#
0.00	0.00	0.00

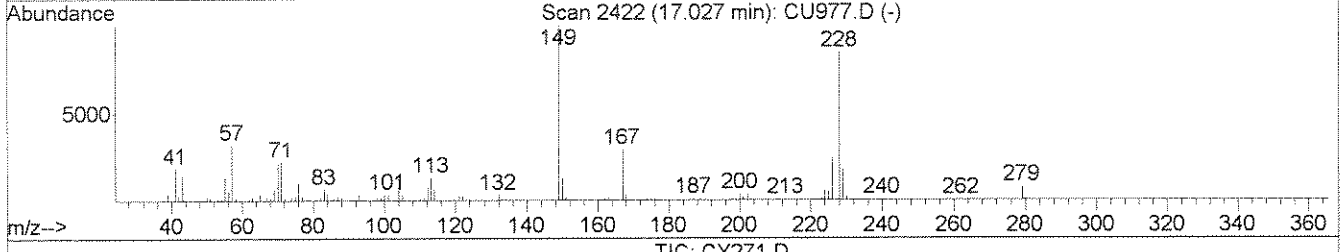
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY271.D Vial: 11
Acq On : 8 Jul 2008 9:31 pm Operator: J.Wu
Sample : 1114758 0.98 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 15:12 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Single Level Calibration







TIC: CY271.D

(30) bis(2-Ethylhexyl)phthalate (T)

17.02min 0.63ppm m

response 92081

Ion	Exp%	Act%
149.00	100	100
167.00	29.10	23.42
279.00	7.10	8.83#
0.00	0.00	0.00

A JW 7/9/08

SEMIVOLATILE ORGANICS

STANDARDS DATA

Response Factor Report 5973-B

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration

5.0 = CY237.D
10.0 = CY238.D

Calibration Files
0.1 =CY230.D 0.2 =CY231.D 0.5 =CY232.D
1.0 =CY233.D 2.0 =CY234.D 3.0 =CY235.D

40 = CY236.D

		Compound	0.1	0.2	0.5	1.0	2.0	3.0	Avg	%RSD
1)	IR	d4-1,4-Dichlorobenzen	ISTD							
2)	T	1,4-Dioxane	1.246	1.054	0.955	0.911	0.931	0.919	0.980	12.03
3)		Pyridine			1.876	1.832	1.957	1.936	1.954	5.00
4)	IR	d8-Naphthalene	ISTD							
5)	S	SURR4,NITROBENZENE-	0.480	0.605	0.623	0.613	0.655	0.633	0.617	9.65
6)	T	Nitrobenzene	0.589	0.601	0.640	0.603	0.680	0.667	0.646	6.77
7)	T	Naphthalene	1.028	1.106	1.037	0.996	1.035	1.008	1.026	3.59
8)	T	2-Methylnaphthalene	0.726	0.717	0.695	0.753	0.744	0.733	0.727	2.49
9)	T	1-Methylnaphthalene	0.679	0.686	0.706	0.692	0.714	0.688	0.691	1.93
10)	IR	d10-Acenaphthene	ISTD							
11)	S	SURR5,2-FLUOROBIPHE	1.253	1.417	1.411	1.349	1.412	1.296	1.345	4.75
12)	T	Acenaphthylene	1.588	1.664	1.695	1.624	1.764	1.650	1.666	3.17
13)		Dimethyl phthalate	1.096	1.179	1.163	1.208	1.293	1.229	1.207	4.78
14)	T	Acenaphthene	1.060	1.058	1.055	1.046	1.080	1.033	1.055	1.36
15)	T	Dibenzofuran	1.463	1.673	1.551	1.563	1.686	1.536	1.572	4.67
16)	T	Fluorene	1.090	1.179	1.267	1.216	1.323	1.248	1.235	5.87
17)		Diethylphthalate	1.159	1.147	1.273	1.230	1.341	1.261	1.253	5.18
18)	IR	d10-Phenanthrene	ISTD							
19)	T	Hexachlorobenzene	0.257	0.271	0.301	0.274	0.274	0.266	0.274	4.55
20)	T	Phenanthrene	0.933	0.971	1.003	0.958	0.981	0.913	0.952	3.29
21)	T	Anthracene	0.864	0.914	0.950	0.931	0.974	0.925	0.925	3.42
22)	T	Carbazole	0.641	0.713	0.769	0.771	0.817	0.752	0.747	6.91
23)		Octachlorostyrene	0.039	0.038	0.063	0.066	0.057	0.059	0.056	19.95 CR
24)		Di-n-butylphthalate	1.340	1.135	1.129	1.078	1.132	1.073	1.115	8.46
25)	T	Fluoranthene	1.054	1.134	1.161	1.097	1.160	1.074	1.113	3.44
26)	IR	d12-Chrysene	ISTD							
27)	T	Pyrene	1.131	1.218	1.161	1.133	1.206	1.101	1.154	3.46
28)	S	SURR6,TERPHENYL-D14	0.840	0.853	0.861	0.848	0.908	0.846	0.863	2.69
29)		Butylbenzylphthalat		0.485	0.514	0.471	0.527	0.482	0.506	4.71
30)	T	bis(2-Ethylhexyl)ph			0.725	0.685	0.741	0.693	0.713	3.09
31)	T	Benzo(a)anthracene	1.064	1.172	1.057	1.025	1.128	1.064	1.094	4.54
32)	T	Chrysene	1.051	1.074	1.094	1.008	1.117	1.038	1.064	3.33
33)	IR	d12-Perylene	ISTD							
34)		Di-n-octylphthalate				1.242	1.369	1.315	1.356	5.17
35)	T	Benzo(b)Fluoranthen	1.187	1.330	1.265	1.253	1.415	1.378	1.322	6.00
36)	T	Benzo(k)fluoranthen	1.079	1.048	1.166	1.203	1.297	1.304	1.215	8.91
37)	T	Benzo(a)pyrene	1.034	1.049	1.075	1.089	1.224	1.148	1.129	6.83
38)	T	Indeno(1,2,3-cd)Pyr	1.019	1.114	1.115	1.191	1.370	1.323	1.237	11.74

(#) = Out of Range ### Number of calibration levels exceeded format ###

00310

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration

Calibration Files
0.1 =CY230.D 0.2 =CY231.D 0.5 =CY232.D
1.0 =CY233.D 2.0 =CY234.D 3.0 =CY235.D

		Compound	0.1	0.2	0.5	1.0	2.0	3.0	Avg	%RSD
39)	T	Dibenz(a,h)anthrace	0.733	0.716	0.852	0.945	1.068	1.062	0.952	17.61
40)	T	Benzo(g,h,i)perylen	1.028	1.139	1.103	1.148	1.226	1.173	1.155	5.74

(#) = Out of Range ### Number of calibration levels exceeded format ###

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY234.D Vial: 6
Acq On : 1 Jul 2008 1:49 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 2.0/4.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	100	0.00
2	T	1,4-Dioxane	0.980	0.931	5.0	100	0.00
3		Pyridine	1.954	1.957	-0.2	100	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	100	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	0.655	-6.2	100	0.00
6	T	Nitrobenzene	0.646	0.680	-5.3	100	0.00
7	T	Naphthalene	1.026	1.035	-0.9	100	0.00
8	T	2-Methylnaphthalene	0.727	0.744	-2.3	100	0.00
9	T	1-Methylnaphthalene	0.691	0.714	-3.3	100	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	100	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	1.412	-5.0	100	0.00
12	T	Acenaphthylene	1.666	1.764	-5.9	100	0.00
13		Dimethyl phthalate	1.207	1.293	-7.1	100	0.00
14	T	Acenaphthene	1.055	1.080	-2.4	100	0.00
15	T	Dibenzofuran	1.572	1.686	-7.3	100	0.00
16	T	Fluorene	1.235	1.323	-7.1	100	0.00
17		Diethylphthalate	1.253	1.341	-7.0	100	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	100	0.00
19	T	Hexachlorobenzene	0.274	0.274	0.0	100	0.00
20	T	Phenanthrene	0.952	0.981	-3.0	100	0.00
21	T	Anthracene	0.925	0.974	-5.3	100	0.00
22	T	Carbazole	0.747	0.817	-9.4	100	0.00
23		Octachlorostyrene	0.056	0.057	-1.8	100	0.00
24		Di-n-butylphthalate	1.115	1.132	-1.5	100	0.00
25	T	Fluoranthene	1.113	1.160	-4.2	100	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	100	0.00
27	T	Pyrene	1.154	1.206	-4.5	100	0.00
28	S	SURR6,TERPHENYL-D14	0.863	0.908	-5.2	100	0.00
29		Butylbenzylphthalate	0.506	0.527	-4.2	100	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	0.741	-3.9	100	0.00
31	T	Benzo(a)anthracene	1.094	1.128	-3.1	100	0.00
32	T	Chrysene	1.064	1.117	-5.0	100	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	100	0.00
34		Di-n-octylphthalate	1.356	1.369	-1.0	100	0.00
35	T	Benzo(b)Fluoranthene	1.322	1.415	-7.0	100	0.00
36	T	Benzo(k)fluoranthene	1.215	1.297	-6.7	100	0.00

(#) = Out of Range

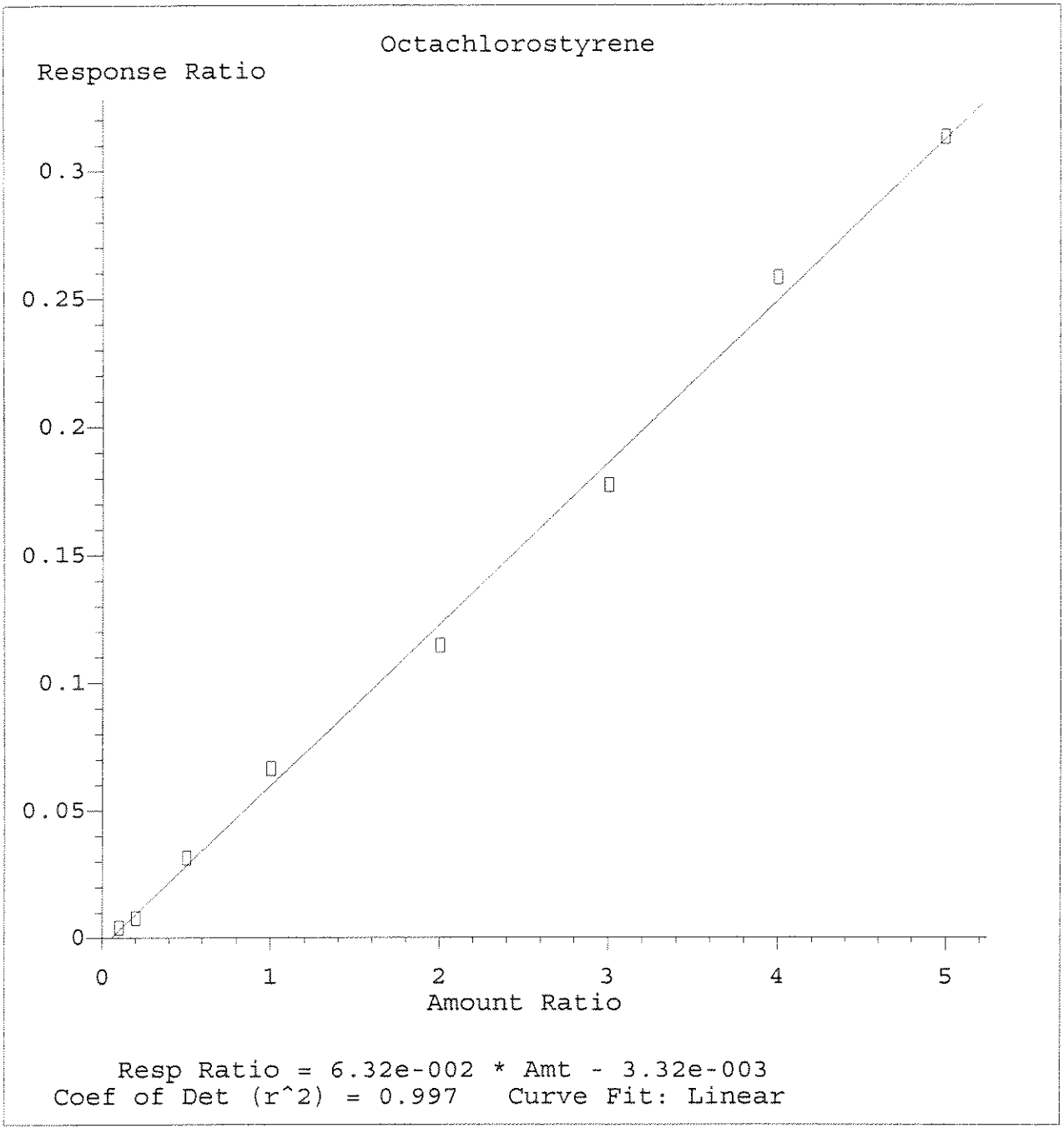
Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY234.D Vial: 6
Acq On : 1 Jul 2008 1:49 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 2.0/4.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

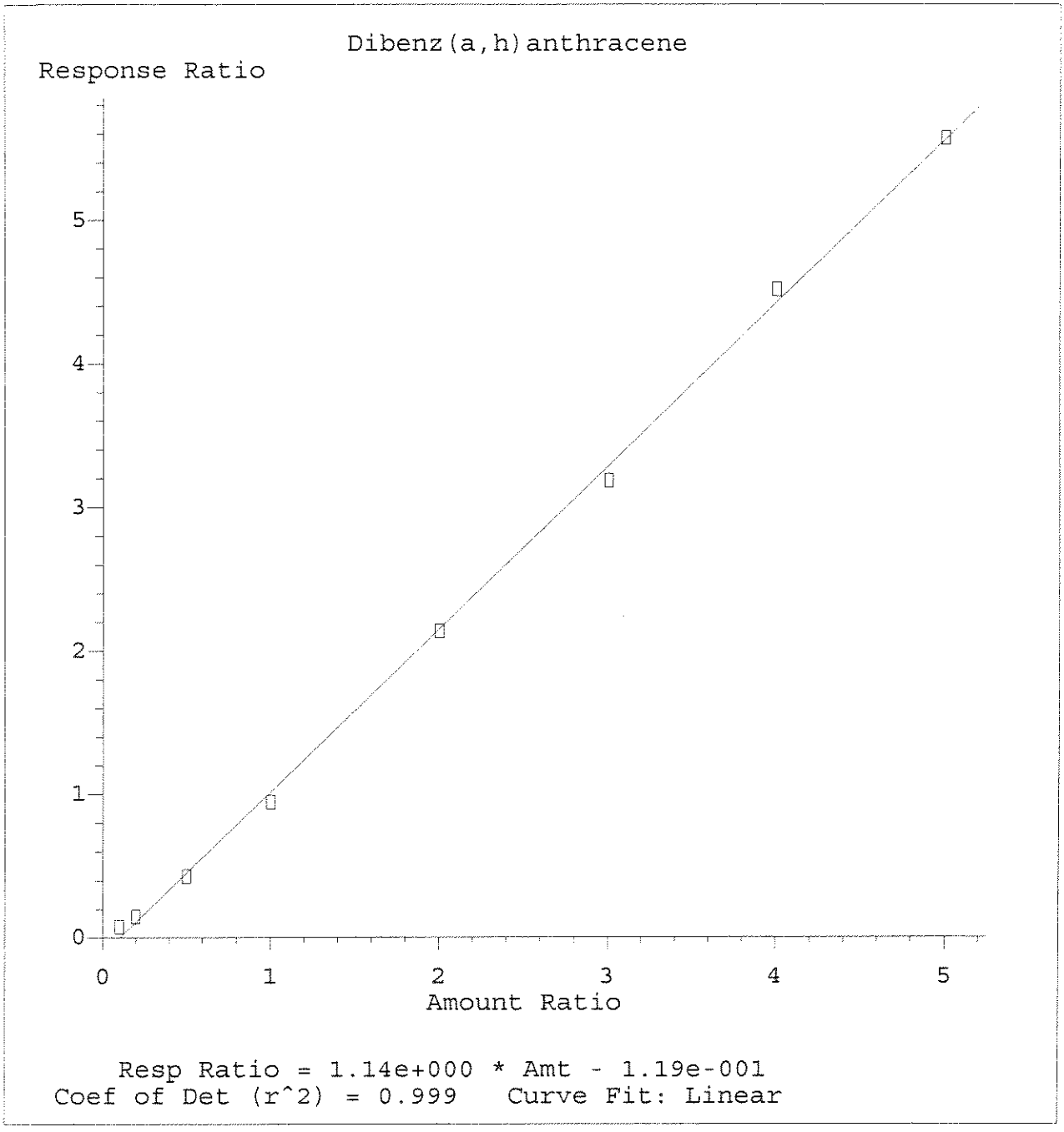
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	1.224	-8.4	100	0.00
38	T	Indeno(1,2,3-cd)Pyrene	1.237	1.370	-10.8	100	0.00
39	T	Dibenz(a,h)anthracene	0.952	1.068	-12.2	100	0.00
40	T	Benzo(g,h,i)perylene	1.155	1.226	-6.1	100	0.00



Method Name: J:\ACQUDATA\5973B\METHODS\LVI0701.M
Calibration Table Last Updated: Wed Jul 02 12:50:29 2008



Method Name: J:\ACQUDATA\5973B\METHODS\LVI0701.M
Calibration Table Last Updated: Wed Jul 02 13:00:12 2008

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	76914	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	287022	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	188966	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	272238	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	253001	1.00	ppm	0.00
33) d12-Perylene	19.79	264	208438	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.77	82	13790	0.08	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 4.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	23678	0.09	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 4.50%#			
28) SURR6,TERPHENYL-D14	15.63	244	21243	0.10	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 5.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.36	88	19161	0.26	ppm	100
6) Nitrobenzene	10.79	77	16907	0.09	ppm	100
7) Naphthalene	11.47	128	29494	0.10	ppm	100
8) 2-Methylnaphthalene	12.10	142	20830	0.10	ppm	100
9) 1-Methylnaphthalene	12.20	142	19484	0.10	ppm	100
12) Acenaphthylene	12.91	152	30015	0.09	ppm	100
13) Dimethyl phthalate	12.78	163	20709	0.10	ppm	100
14) Acenaphthene	13.06	153	20025	0.10	ppm	100
15) Dibenzofuran	13.20	168	27640	0.09	ppm	100
16) Fluorene	13.49	166	20604	0.09	ppm	100
17) Diethylphthalate	13.37	149	21897	0.10	ppm	100
19) Hexachlorobenzene	13.99	284	6986	0.09	ppm	100
20) Phenanthrene	14.24	178	25398	0.10	ppm	100
21) Anthracene	14.28	178	23514	0.09	ppm	100
22) Carbazole	14.39	167	17441	0.09	ppm	100
23) Octachlorostyrene	15.12	380	1062	0.15	ppm	100
24) Di-n-butylphthalate	14.63	149	36474	0.13	ppm	100
25) Fluoranthene	15.27	202	28685	0.09	ppm	100
27) Pyrene	15.52	202	28619	0.10	ppm	100
29) Butylbenzylphthalate	16.21	149	14084	0.13	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	43633	0.25	ppm	100
31) Benzo(a)anthracene	17.02	228	26907	0.10	ppm	100
32) Chrysene	17.09	228	26601	0.10	ppm	100
34) Di-n-octylphthalate	18.02	149	25380	0.11	ppm	90
35) Benzo(b)Fluoranthene	18.91	252	24743	0.09	ppm	100
36) Benzo(k)fluoranthene	18.96	252	22496	0.09	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

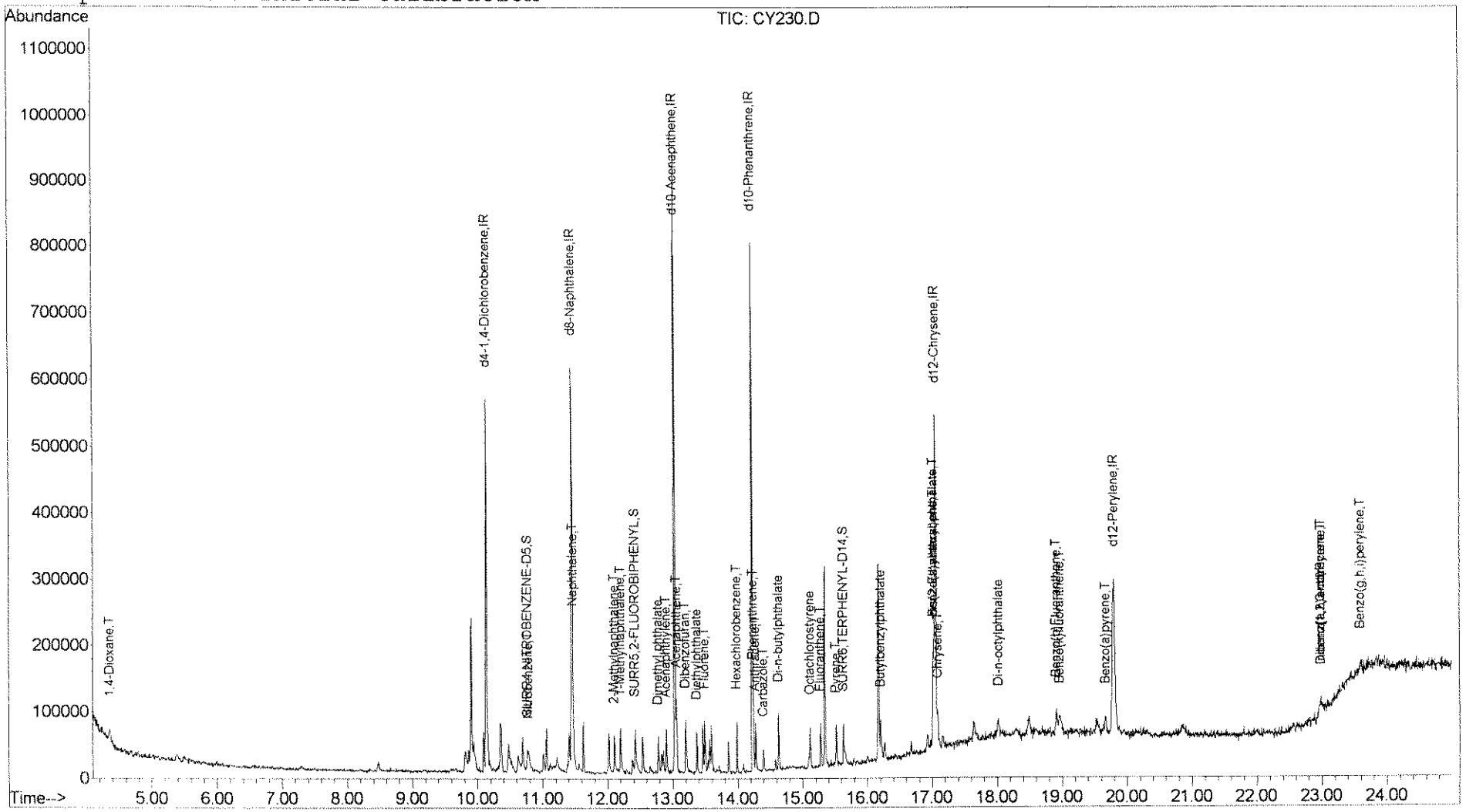
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Benzo(a)pyrene	19.67	252	21554	0.09	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.98	276	21239m	0.23	ppm	
39)	Dibenz(a,h)anthracene	22.99	278	15270	0.07	ppm	100
40)	Benzo(g,h,i)perylene	23.59	276	21428m	0.09	ppm	

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: LVI0701.RES

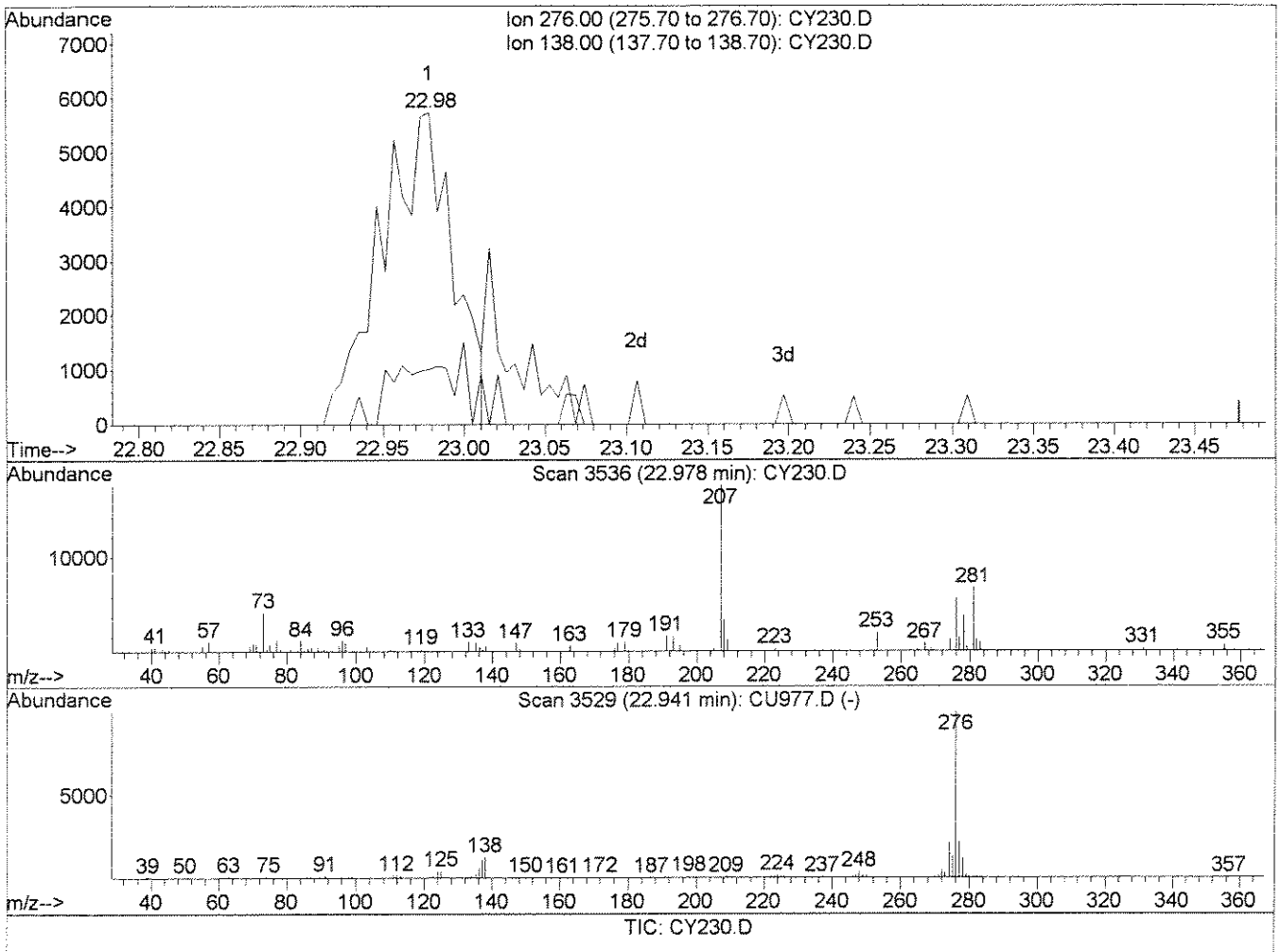
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:00:22 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:36 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Multiple Level Calibration



TIC: CY230.D

(38) Indeno(1,2,3-cd)Pyrene (T)

22.98min 0.22ppm

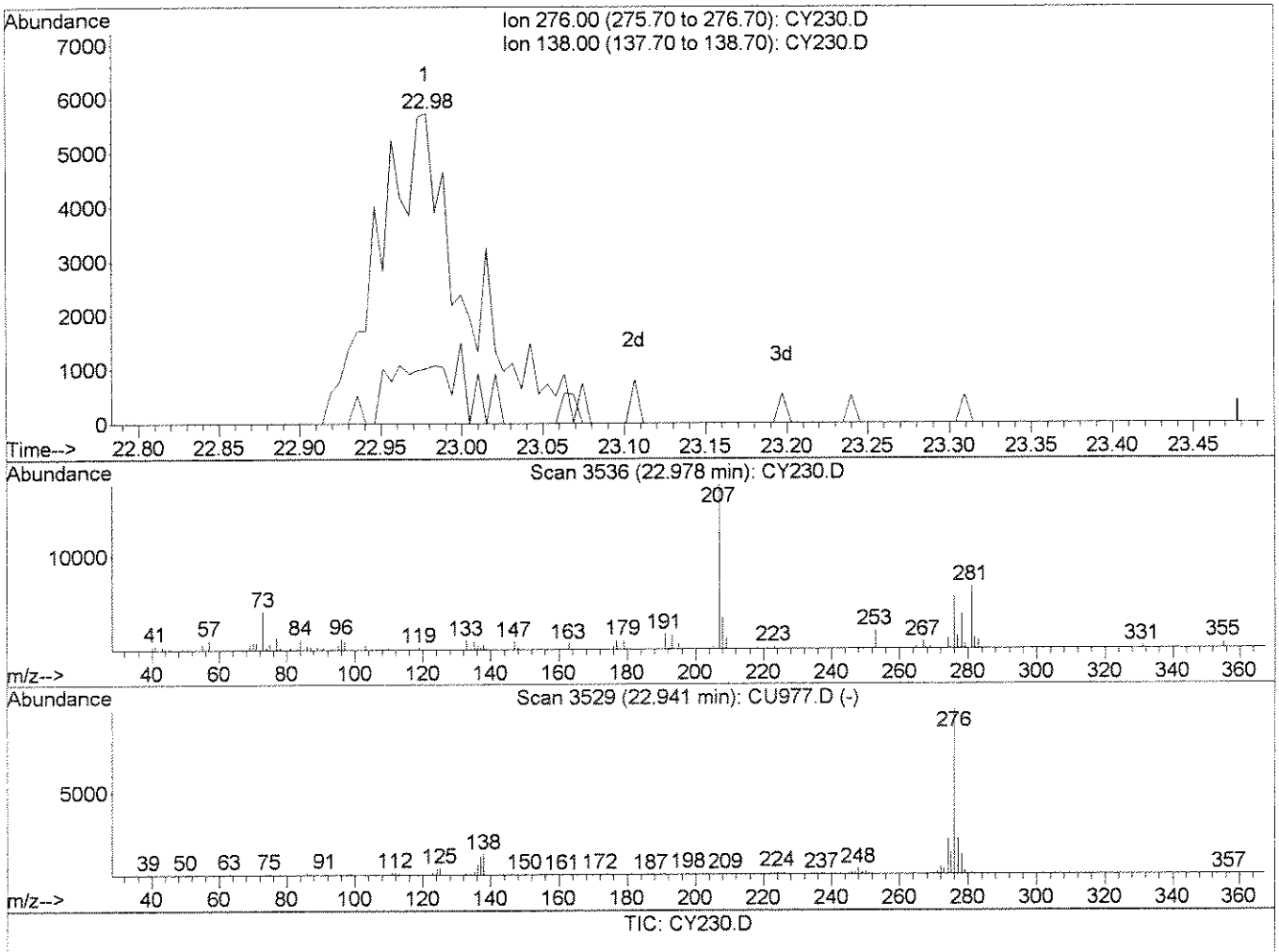
response 17312

Ion	Exp%	Act%
276.00	100	100
138.00	17.60	10.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Multiple Level Calibration



TIC: CY230.D

(38) Indeno(1,2,3-cd)Pyrene (T)

22.98min 0.23ppm m

response 21239

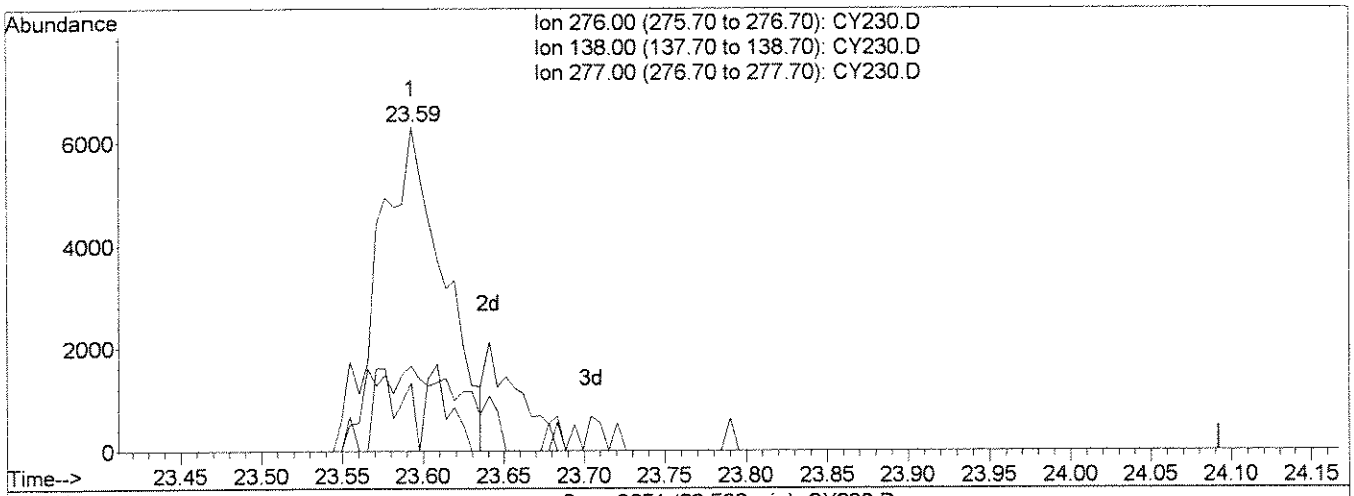
Ion	Exp%	Act%
276.00	100	100
138.00	17.60	17.63
0.00	0.00	0.00
0.00	0.00	0.00

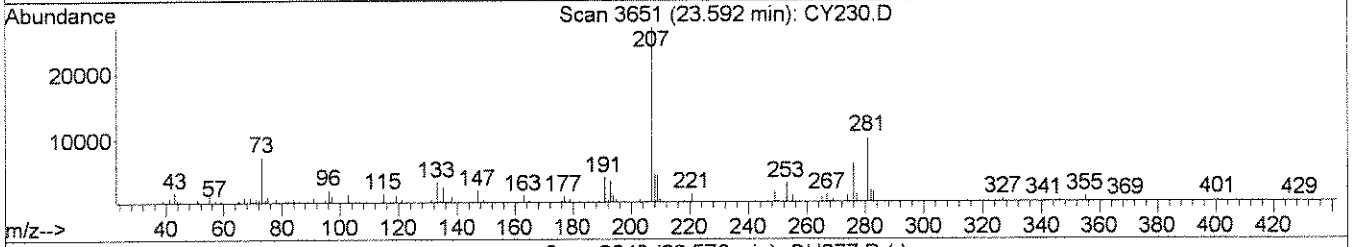
CY230.D LVI0701.M Wed Jul 02 12:37:26 2008

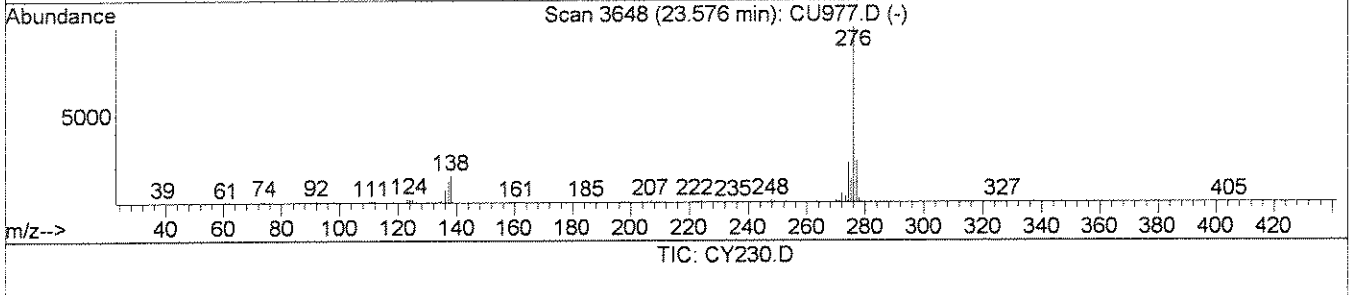
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Multiple Level Calibration







TIC: CY230.D

(40) Benzo(g,h,i)perylene (T)

23.59min 0.07ppm

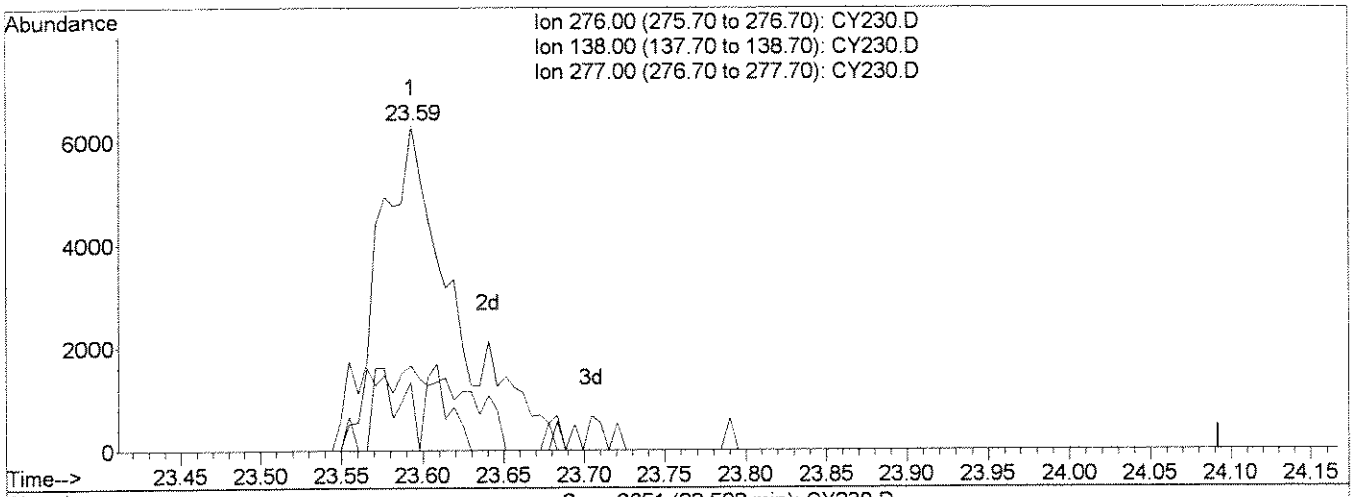
response 17598

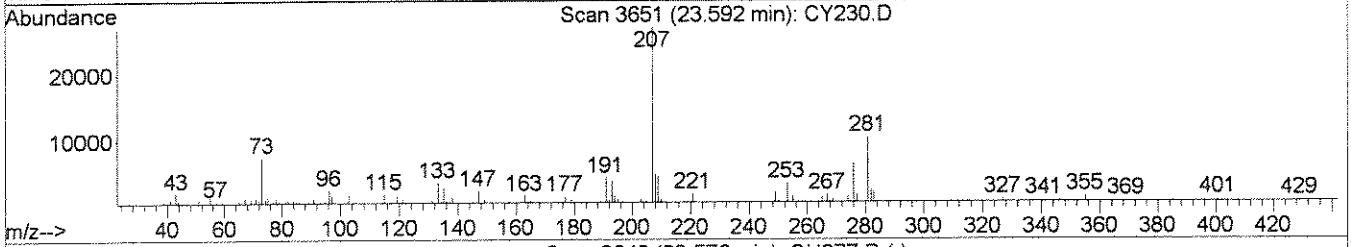
Ion	Exp%	Act%
276.00	100	100
138.00	21.10	23.42
277.00	26.20	23.00
0.00	0.00	0.00

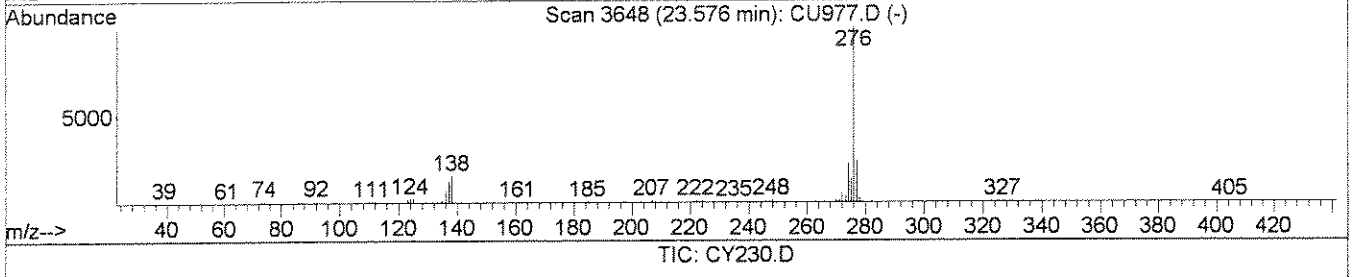
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY230.D Vial: 2
Acq On : 1 Jul 2008 10:40 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.1/0.2 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:37 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:36:13 2008
Response via : Multiple Level Calibration







TIC: CY230.D

(40) Benzo(g,h,i)perylene (T)

23.59min 0.09ppm m

response 21428

Ion	Exp%	Act%
276.00	100	100
138.00	21.10	21.10
277.00	26.20	26.20
0.00	0.00	0.00

7/2/08

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	75539	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	279373	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	178994	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	265087	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	246649	1.00	ppm	0.00
33) d12-Perylene	19.79	264	207278	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.77	82	33822	0.20	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 10.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	50738	0.21	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 10.50%#			
28) SURR6,TERPHENYL-D14	15.63	244	42076	0.20	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 10.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.37	88	31835	0.44	ppm	100
6) Nitrobenzene	10.78	77	33553	0.19	ppm	100
7) Naphthalene	11.47	128	61788	0.22	ppm	100
8) 2-Methylnaphthalene	12.10	142	40070	0.20	ppm	100
9) 1-Methylnaphthalene	12.20	142	38356	0.20	ppm	100
12) Acenaphthylene	12.90	152	59585	0.20	ppm	100
13) Dimethyl phthalate	12.78	163	42200	0.21	ppm	100
14) Acenaphthene	13.06	153	37890	0.20	ppm	100
15) Dibenzofuran	13.20	168	59895	0.21	ppm	100
16) Fluorene	13.49	166	42219	0.19	ppm	100
17) Diethylphthalate	13.37	149	41067	0.20	ppm	100
19) Hexachlorobenzene	13.99	284	14389	0.20	ppm	100
20) Phenanthrene	14.24	178	51506	0.20	ppm	100
21) Anthracene	14.28	178	48442	0.20	ppm	100
22) Carbazole	14.39	167	37787	0.20	ppm	100
23) Octachlorostyrene	15.11	380	2028	0.21	ppm	100
24) Di-n-butylphthalate	14.63	149	60180	0.22	ppm	100
25) Fluoranthene	15.27	202	60146	0.20	ppm	100
27) Pyrene	15.51	202	60066	0.21	ppm	100
29) Butylbenzylphthalate	16.21	149	23940	0.22	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	74144	0.44	ppm	100
31) Benzo(a)anthracene	17.02	228	57817	0.22	ppm	100
32) Chrysene	17.09	228	52965	0.20	ppm	100
34) Di-n-octylphthalate	18.02	149	49523m	0.21	ppm	
35) Benzo(b)Fluoranthene	18.91	252	55125	0.20	ppm	100
36) Benzo(k)fluoranthene	18.97	252	43460	0.17	ppm	91

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

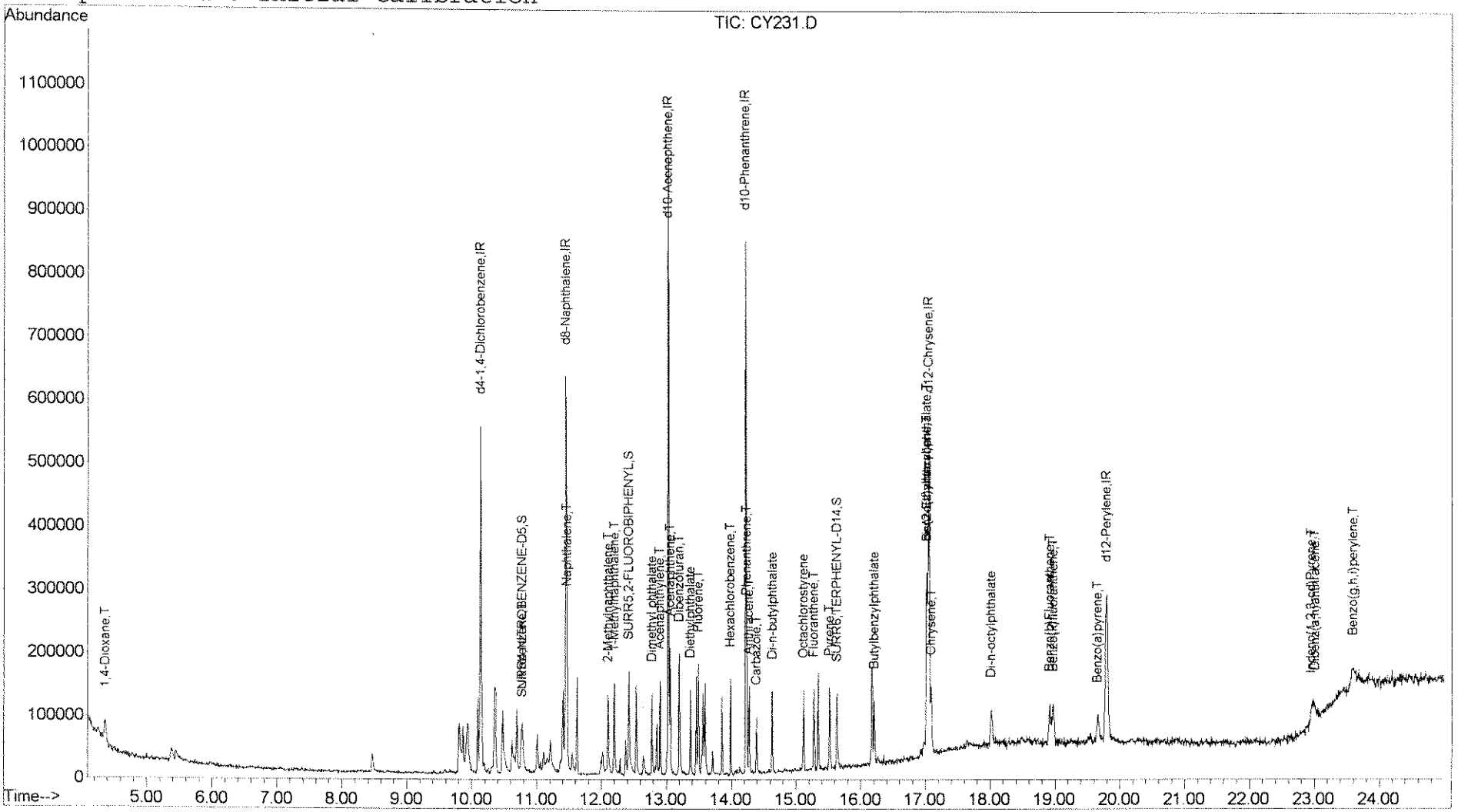
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Benzo(a)pyrene	19.66	252	43501	0.18	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.95	276	46189m	0.31	ppm	
39)	Dibenz(a,h)anthracene	23.00	278	29677m	0.14	ppm	
40)	Benzo(g,h,i)perylene	23.59	276	47215m	0.19	ppm	

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: LVI0701.RES

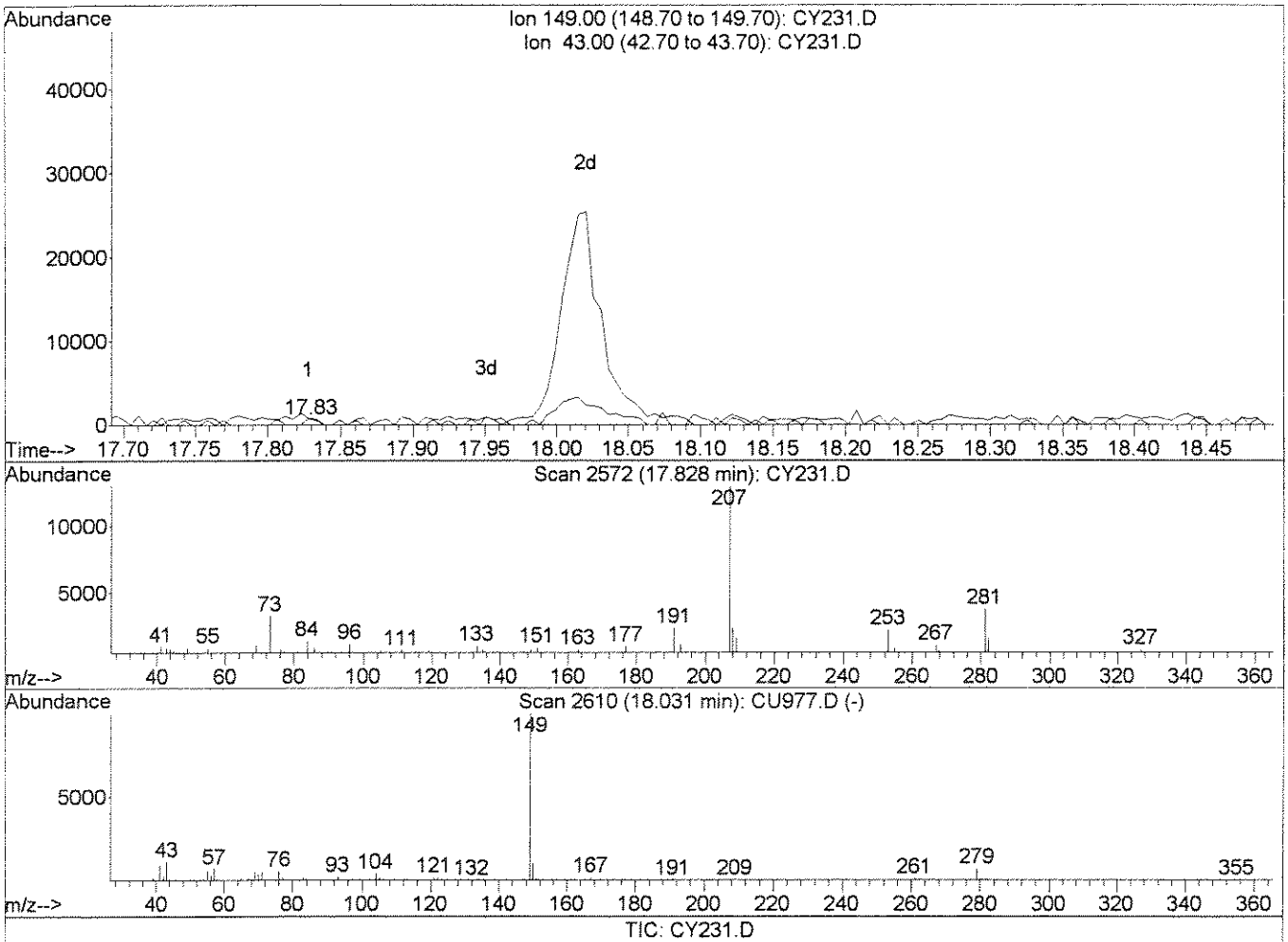
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:00:22 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:39 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Single Level Calibration



TIC: CY231.D

(34) Di-n-octylphthalate

17.83min 0.00ppm

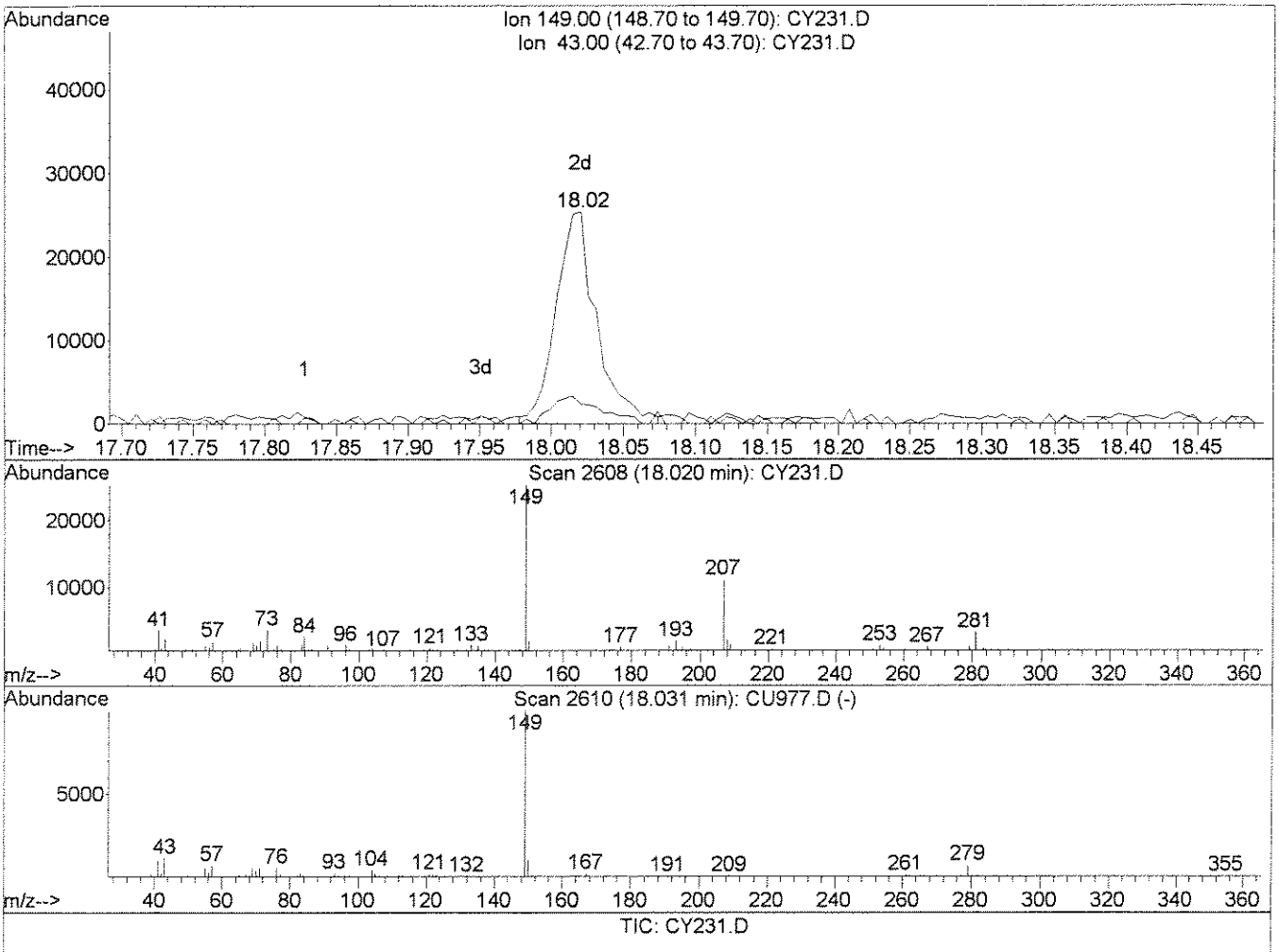
response 401

Ion	Exp%	Act%
149.00	100	100
43.00	9.10	11.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:39 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Single Level Calibration



TIC: CY231.D

(34) Di-n-octylphthalate

18.02min 0.21ppm m

response 49523

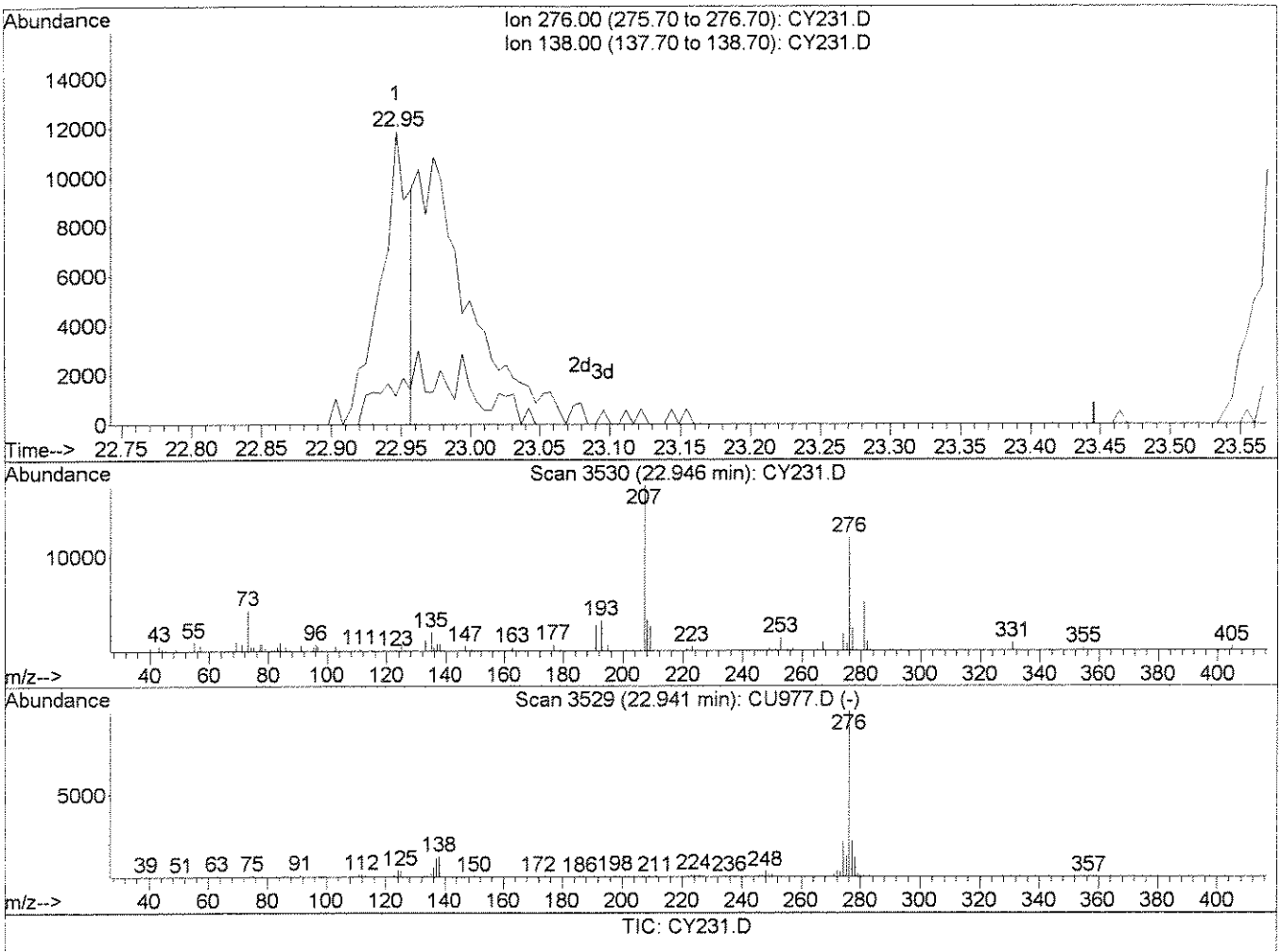
Ion	Exp%	Act%
149.00	100	100
43.00	9.10	9.09
0.00	0.00	0.00
0.00	0.00	0.00

7/2/08

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:39 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



TIC: CY231.D

(38) Indeno(1,2,3-cd)Pyrene (T)

22.95min 0.22ppm

response 17291

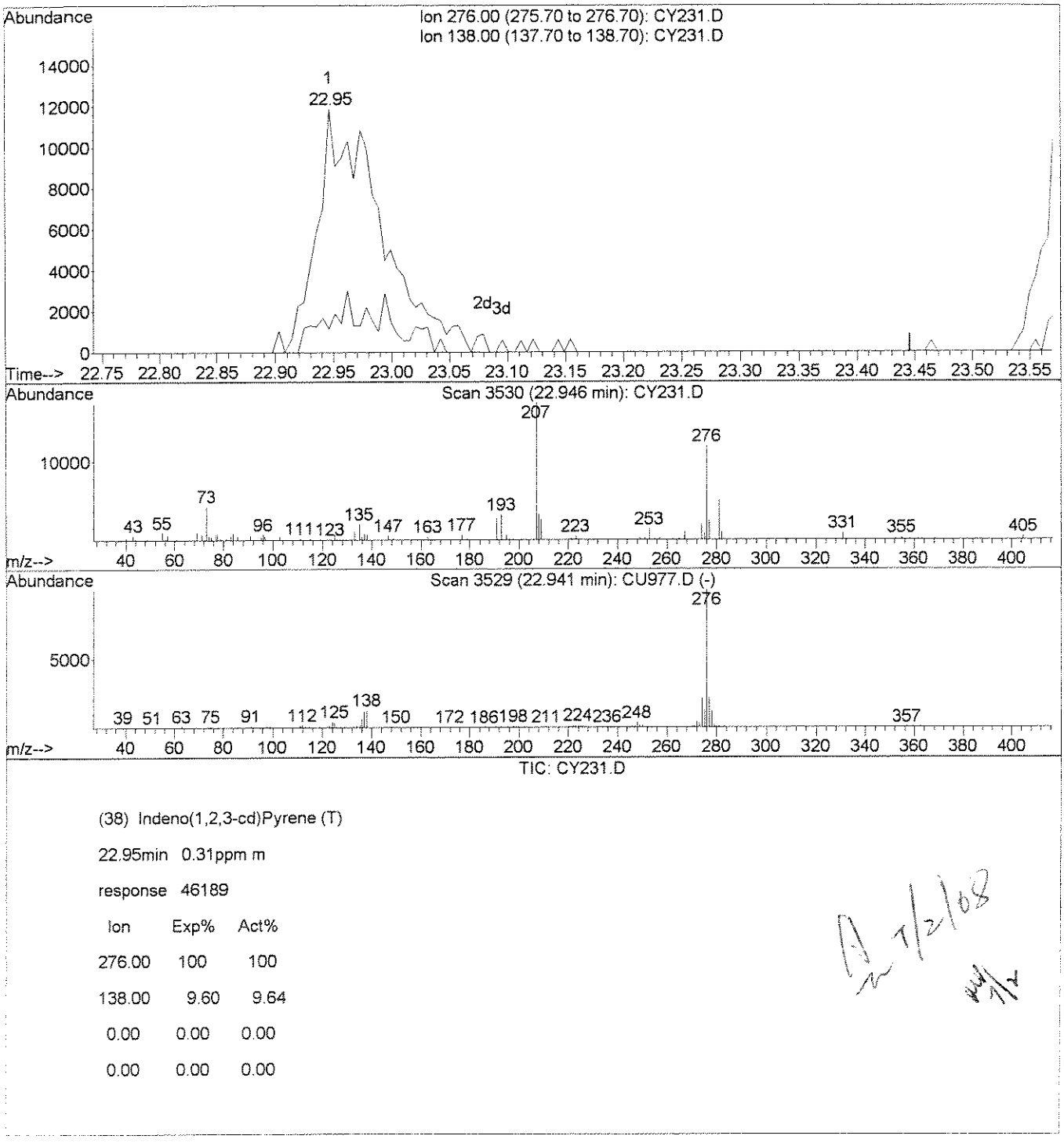
Ion	Exp%	Act%
276.00	100	100
138.00	9.60	6.04
0.00	0.00	0.00
0.00	0.00	0.00

CY231.D LVI0701.M Wed Jul 02 12:40:09 2008

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



TIC: CY231.D

(38) Indeno(1,2,3-cd)Pyrene (T)

22.95min 0.31ppm m

response 46189

Ion	Exp%	Act%
276.00	100	100
138.00	9.60	9.64
0.00	0.00	0.00
0.00	0.00	0.00

7/2/08

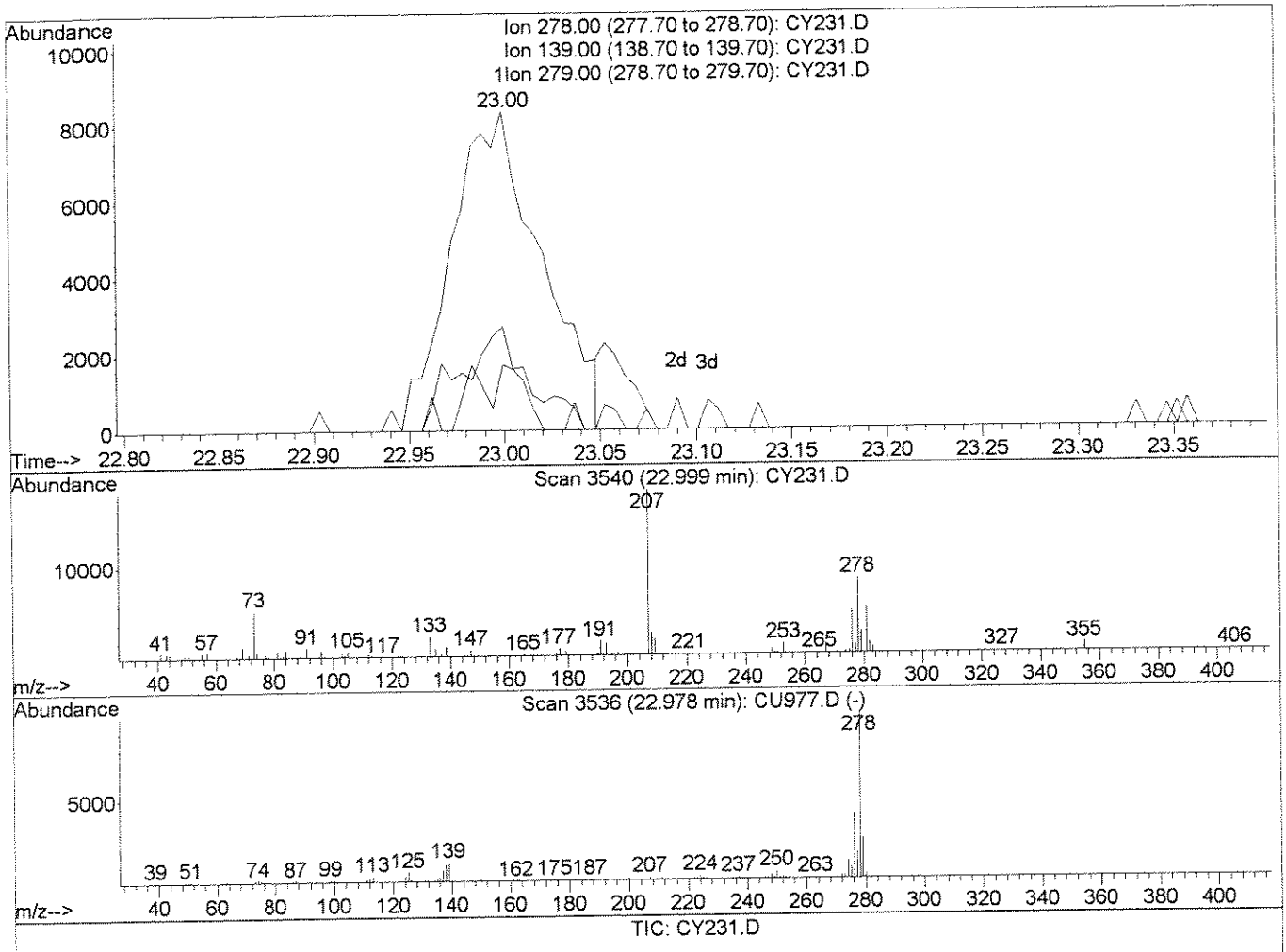
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D
Acq On : 1 Jul 2008 11:27 am
Sample : Initial Calibration
Misc : 0.2/0.4 ppm std 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008

Vial: 3
Operator: Z.Miao
Inst : 5973-B
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



(39) Dibenz(a,h)anthracene (T)

23.00min 0.13ppm

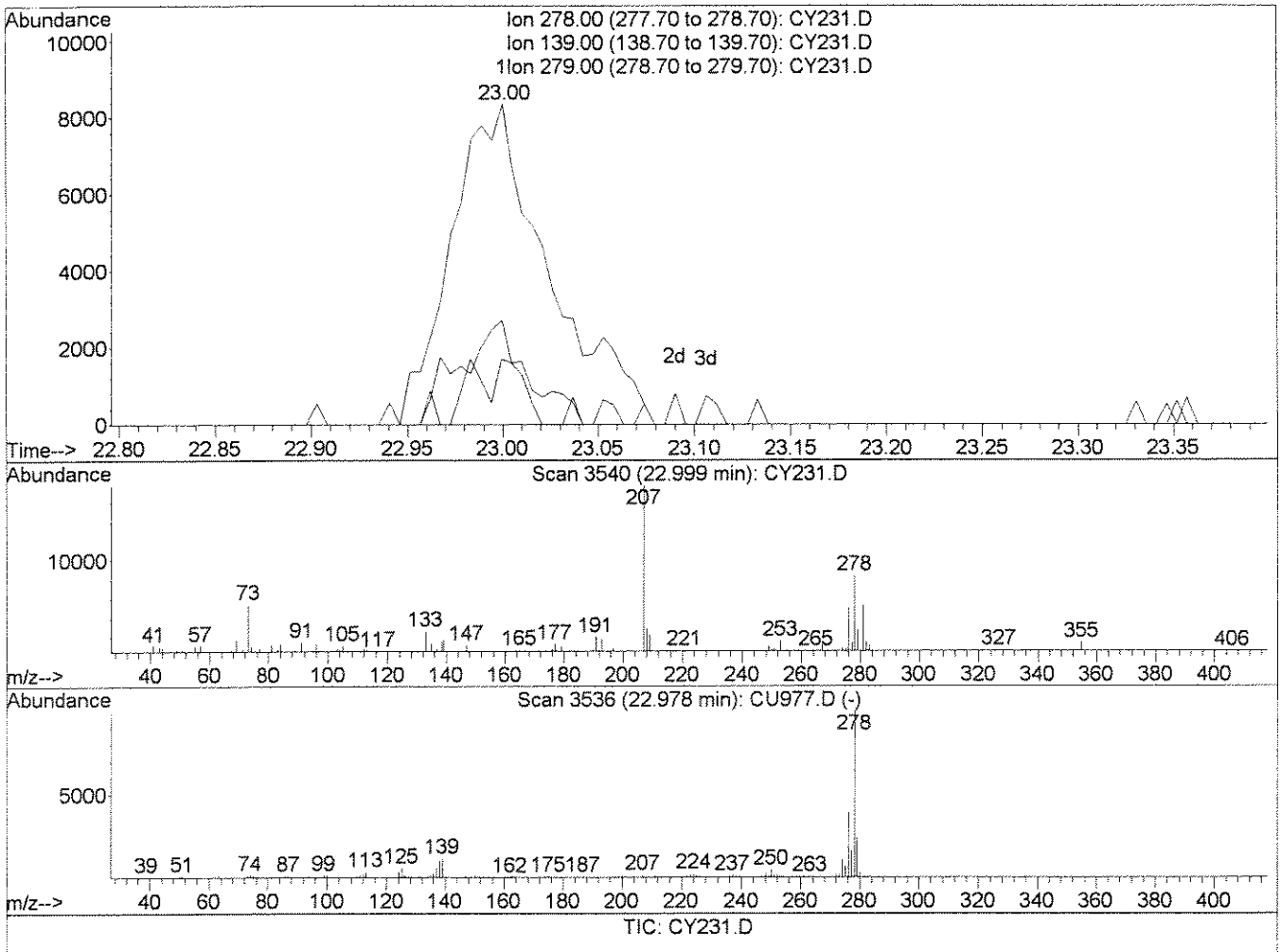
response 27360

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	23.03
279.00	32.50	36.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



(39) Dibenz(a,h)anthracene (T)

23.00min 0.14ppm m

response 29677

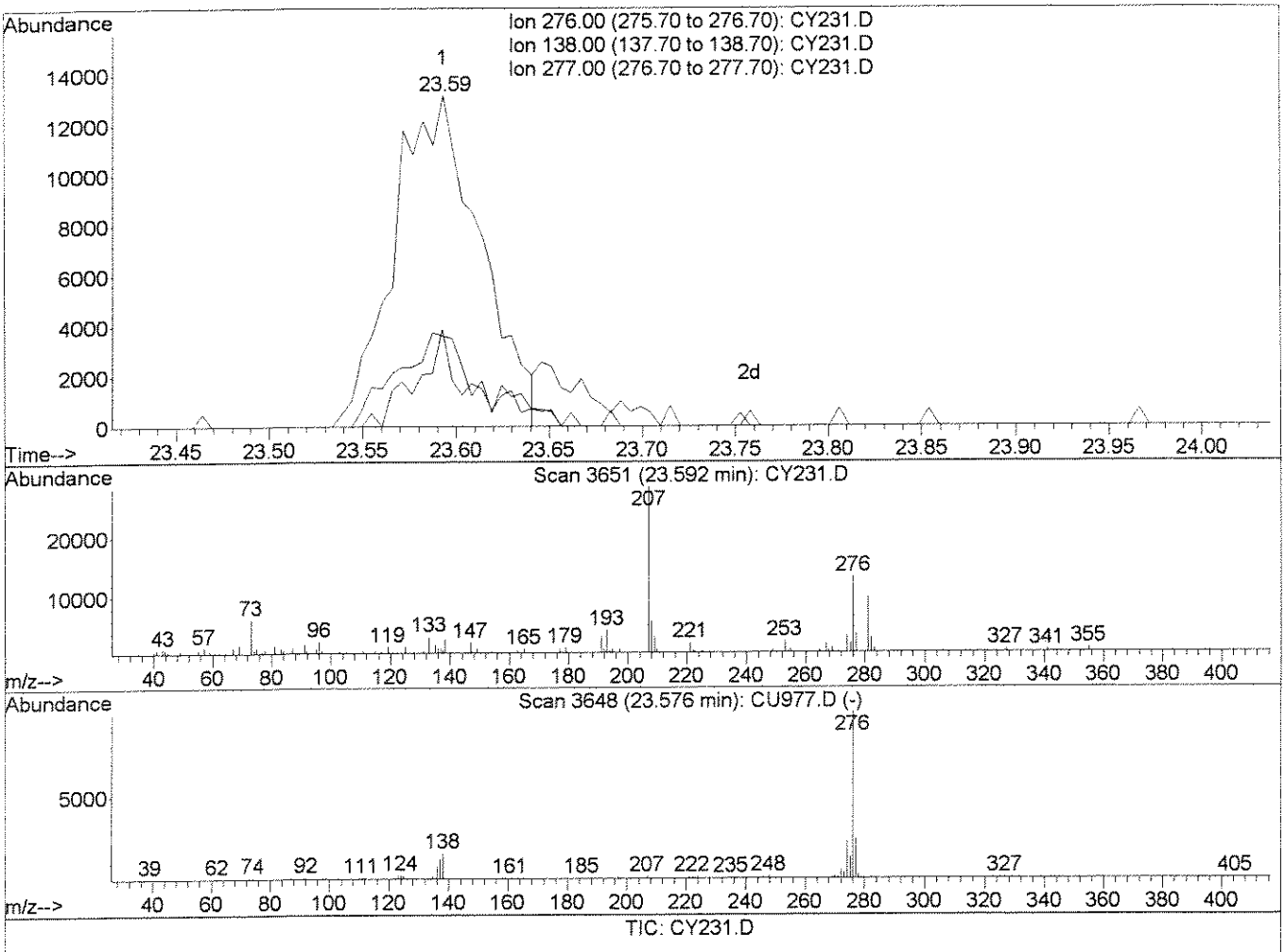
Ion	Exp%	Act%
278.00	100	100
139.00	20.50	20.51
279.00	32.50	32.47
0.00	0.00	0.00

7/2/08

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



TIC: CY231.D

(40) Benzo(g,h,i)perylene (T)

23.59min 0.17ppm

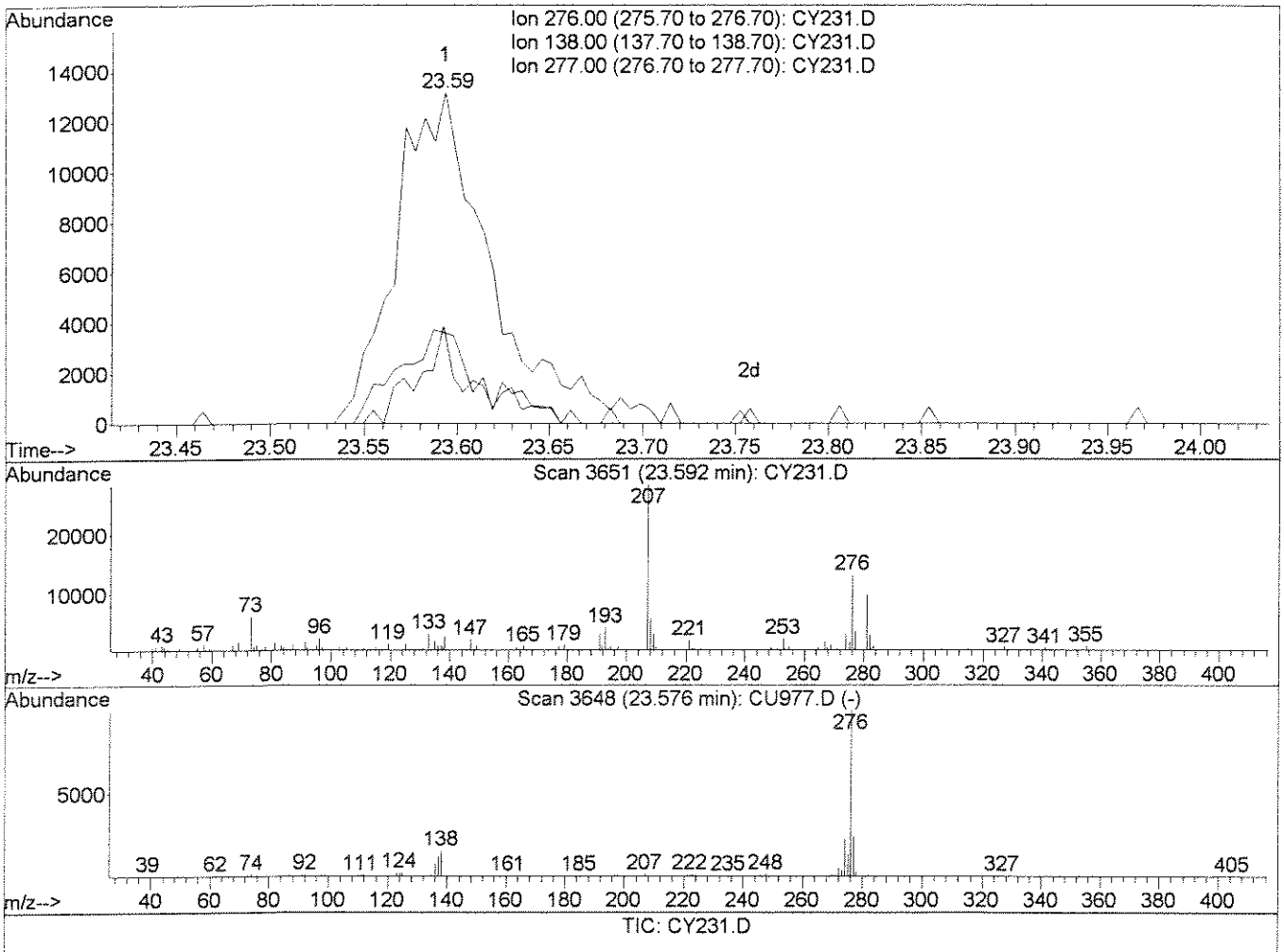
response 42098

Ion	Exp%	Act%
276.00	100	100
138.00	21.80	29.05
277.00	27.50	27.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY231.D Vial: 3
Acq On : 1 Jul 2008 11:27 am Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.2/0.4 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:40 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:38:46 2008
Response via : Multiple Level Calibration



TIC: CY231.D

(40) Benzo(g,h,i)perylene (T)

23.59min 0.19ppm m

response 47215

Ion	Exp%	Act%
276.00	100	100
138.00	21.80	21.85
277.00	27.50	27.47
0.00	0.00	0.00

7/1/08

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY232.D Vial: 4
Acq On : 1 Jul 2008 12:15 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.5/1.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:41 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:41:17 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	73351	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	273618	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	182730	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	257658	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	259523	1.00	ppm	0.00
33) d12-Perylene	19.79	264	216859	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	85245	0.52	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 26.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	128909	0.52	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 26.00%#			
28) SURR6,TERPHENYL-D14	15.63	244	111727	0.50	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 25.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	70014	0.99	ppm	100
3) Pyridine	5.40	79	68801m	0.50	ppm	
6) Nitrobenzene	10.78	77	87531	0.51	ppm	100
7) Naphthalene	11.47	128	141895	0.51	ppm	100
8) 2-Methylnaphthalene	12.10	142	95074	0.48	ppm	100
9) 1-Methylnaphthalene	12.20	142	96531	0.51	ppm	100
12) Acenaphthylene	12.91	152	154888	0.51	ppm	100
13) Dimethyl phthalate	12.78	163	106268	0.52	ppm	100
14) Acenaphthene	13.06	153	96412	0.50	ppm	100
15) Dibenzofuran	13.19	168	141744	0.49	ppm	100
16) Fluorene	13.49	166	115742	0.51	ppm	100
17) Diethylphthalate	13.37	149	116296	0.56	ppm	100
19) Hexachlorobenzene	13.99	284	38753	0.55	ppm	100
20) Phenanthrene	14.24	178	129268	0.53	ppm	100
21) Anthracene	14.27	178	122449	0.51	ppm	100
22) Carbazole	14.39	167	99097	0.53	ppm	100
23) Octachlorostyrene	15.12	380	8066	0.57	ppm	100
24) Di-n-butylphthalate	14.63	149	145477	0.55	ppm	100
25) Fluoranthene	15.27	202	149601	0.52	ppm	100
27) Pyrene	15.52	202	150662	0.51	ppm	100
29) Butylbenzylphthalate	16.21	149	66666	0.59	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.01	149	188048	1.06	ppm	100
31) Benzo(a)anthracene	17.02	228	137099	0.49	ppm	100
32) Chrysene	17.08	228	141990	0.52	ppm	100
34) Di-n-octylphthalate	18.01	149	128217	0.53	ppm	100
35) Benzo(b)Fluoranthene	18.91	252	137128	0.47	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY232.D Vial: 4
Acq On : 1 Jul 2008 12:15 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.5/1.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:41 2008 Quant Results File: LVI0701.RES

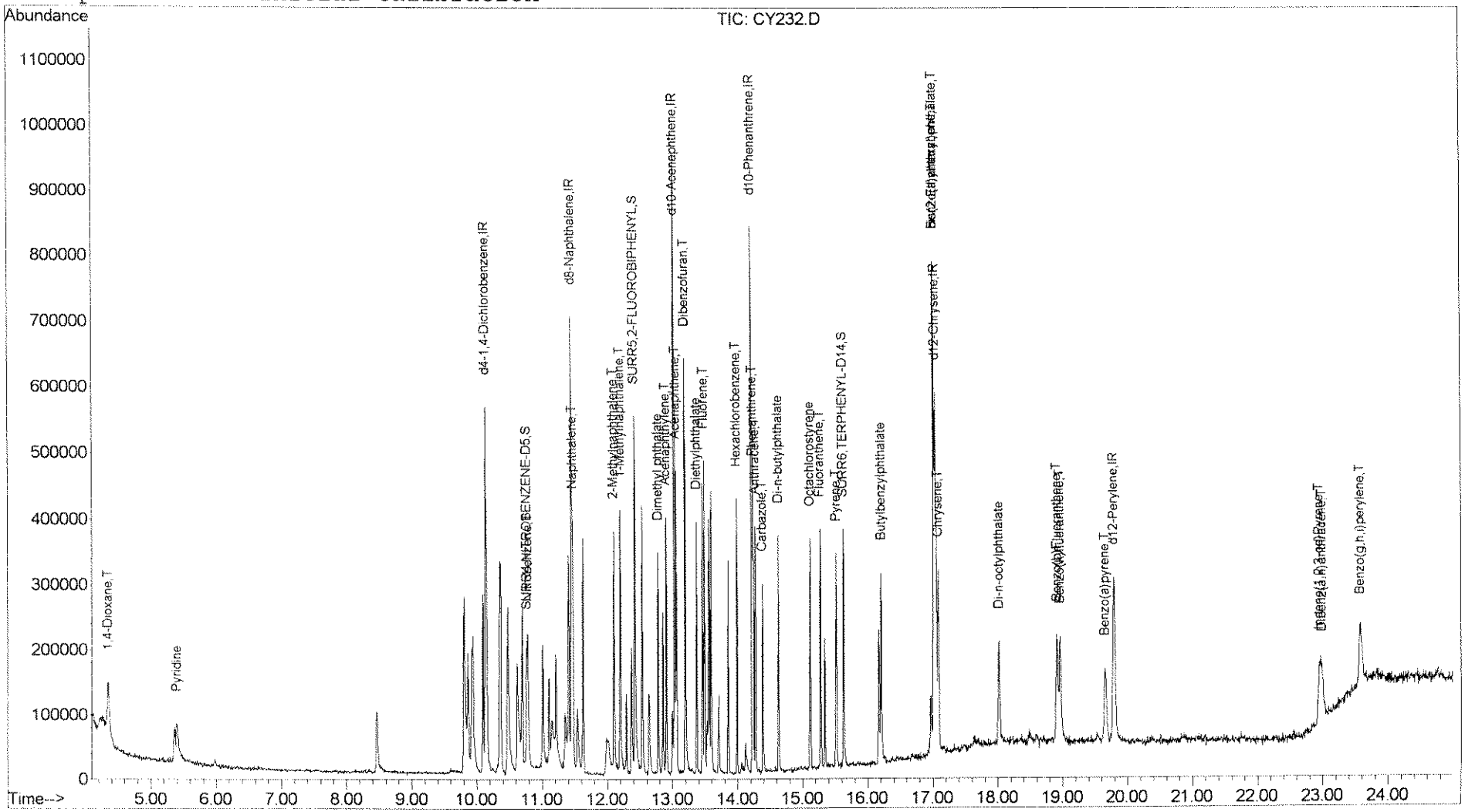
Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:41:17 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	126469	0.47	ppm	100
37)	Benzo(a)pyrene	19.65	252	116605	0.47	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	120880	0.52	ppm	100
39)	Dibenz(a,h)anthracene	22.99	278	92330	0.42	ppm	100
40)	Benzo(g,h,i)perylene	23.56	276	119643	0.46	ppm	100

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

Data File : J:\ACQUDATA\5973B\DATA\070108\CY232.D Vial: 4
Acq On : 1 Jul 2008 12:15 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.5/1.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:41 2008 Quant Results File: LVI0701.RES

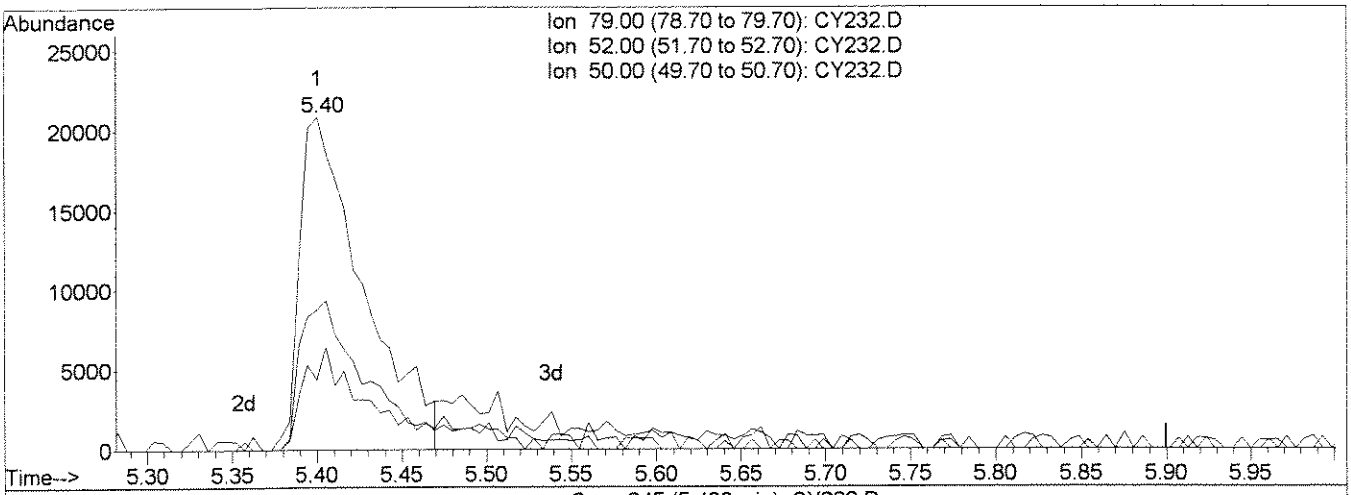
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:00:22 2008
Response via : Initial Calibration

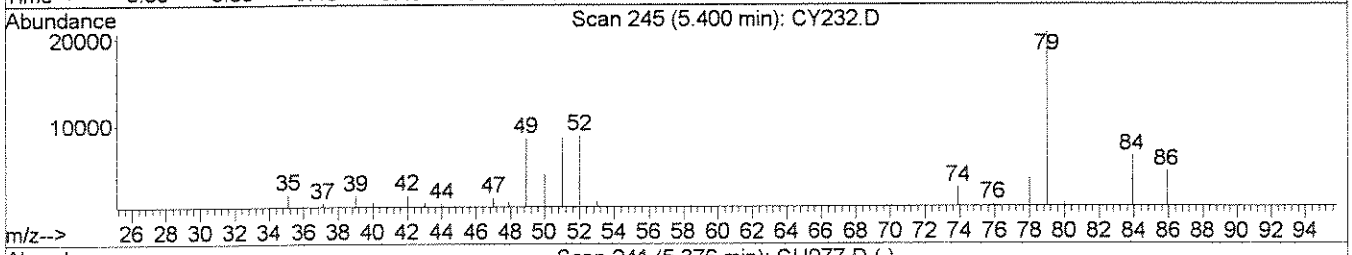


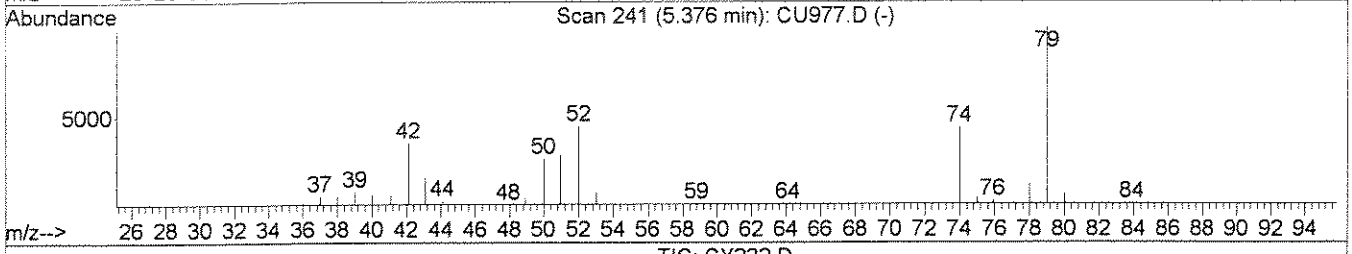
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY232.D Vial: 4
Acq On : 1 Jul 2008 12:15 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.5/1.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:41 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:41:17 2008
Response via : Single Level Calibration







TIC: CY232.D

(3) Pyridine

5.40min 0.39ppm

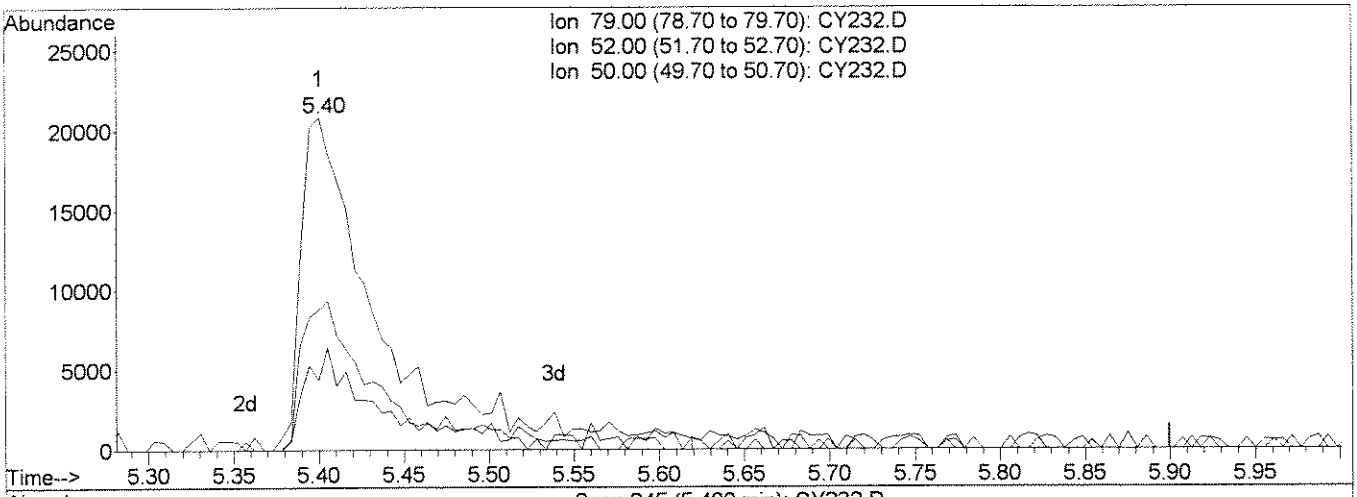
response 54157

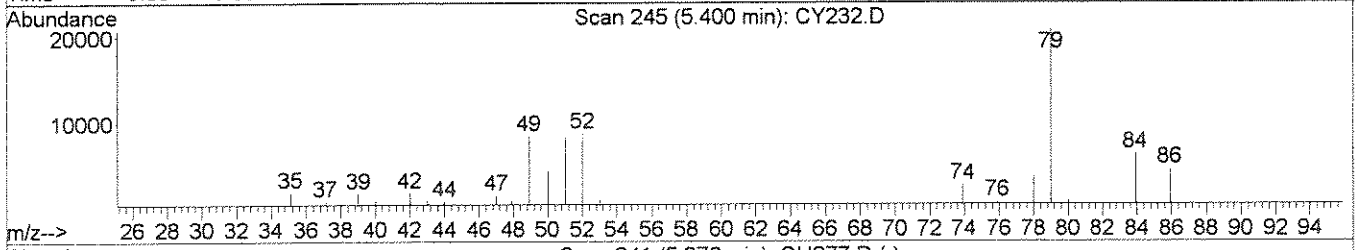
Ion	Exp%	Act%
79.00	100	100
52.00	42.10	42.35
50.00	21.00	19.26
0.00	0.00	0.00

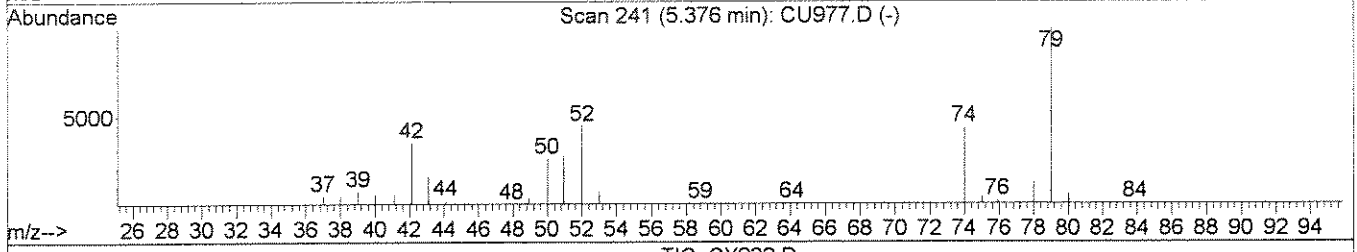
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY232.D Vial: 4
Acq On : 1 Jul 2008 12:15 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 0.5/1.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:41 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:41:17 2008
Response via : Single Level Calibration







TIC: CY232.D

(3) Pyridine

5.40min 0.50ppm m

response 68801

Ion	Exp%	Act%
79.00	100	100
52.00	42.10	42.15
50.00	21.00	20.96
0.00	0.00	0.00

7/2/08

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY233.D Vial: 5
Acq On : 1 Jul 2008 1:02 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 1.0/2.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:43 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:43:07 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	74353	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	269991	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	180843	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	269618	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	271714	1.00	ppm	0.00
33) d12-Perylene	19.78	264	217720	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	165561	1.02	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 51.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	243945	1.00	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 50.00%			
28) SURR6,TERPHENYL-D14	15.63	244	230515	0.99	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 49.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	135457	1.89	ppm	100
3) Pyridine	5.38	79	136233m	0.98	ppm	
6) Nitrobenzene	10.78	77	162770	0.96	ppm	100
7) Naphthalene	11.47	128	269032	0.97	ppm	100
8) 2-Methylnaphthalene	12.10	142	203319	1.04	ppm	100
9) 1-Methylnaphthalene	12.20	142	186785	1.00	ppm	100
12) Acenaphthylene	12.90	152	293602	0.97	ppm	100
13) Dimethyl phthalate	12.78	163	218465	1.09	ppm	100
14) Acenaphthene	13.06	153	189077	0.99	ppm	100
15) Dibenzofuran	13.19	168	282659	0.99	ppm	100
16) Fluorene	13.49	166	219868	0.97	ppm	100
17) Diethylphthalate	13.37	149	222455	1.08	ppm	100
19) Hexachlorobenzene	13.99	284	73948	1.01	ppm	100
20) Phenanthrene	14.24	178	258367	1.01	ppm	100
21) Anthracene	14.28	178	251060	1.00	ppm	100
22) Carbazole	14.38	167	207815	1.07	ppm	100
23) Octachlorostyrene	15.12	380	17865	1.09	ppm	100
24) Di-n-butylphthalate	14.63	149	290775	1.05	ppm	100
25) Fluoranthene	15.27	202	295790	0.98	ppm	100
27) Pyrene	15.51	202	307945	0.99	ppm	100
29) Butylbenzylphthalate	16.20	149	127861	1.07	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	372196	2.00	ppm	100
31) Benzo(a)anthracene	17.02	228	278432	0.95	ppm	100
32) Chrysene	17.09	228	273959	0.95	ppm	100
34) Di-n-octylphthalate	18.01	149	270440	1.10	ppm	100
35) Benzo(b)Fluoranthene	18.91	252	272829	0.94	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY233.D Vial: 5
Acq On : 1 Jul 2008 1:02 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 1.0/2.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:43 2008 Quant Results File: LVI0701.RES

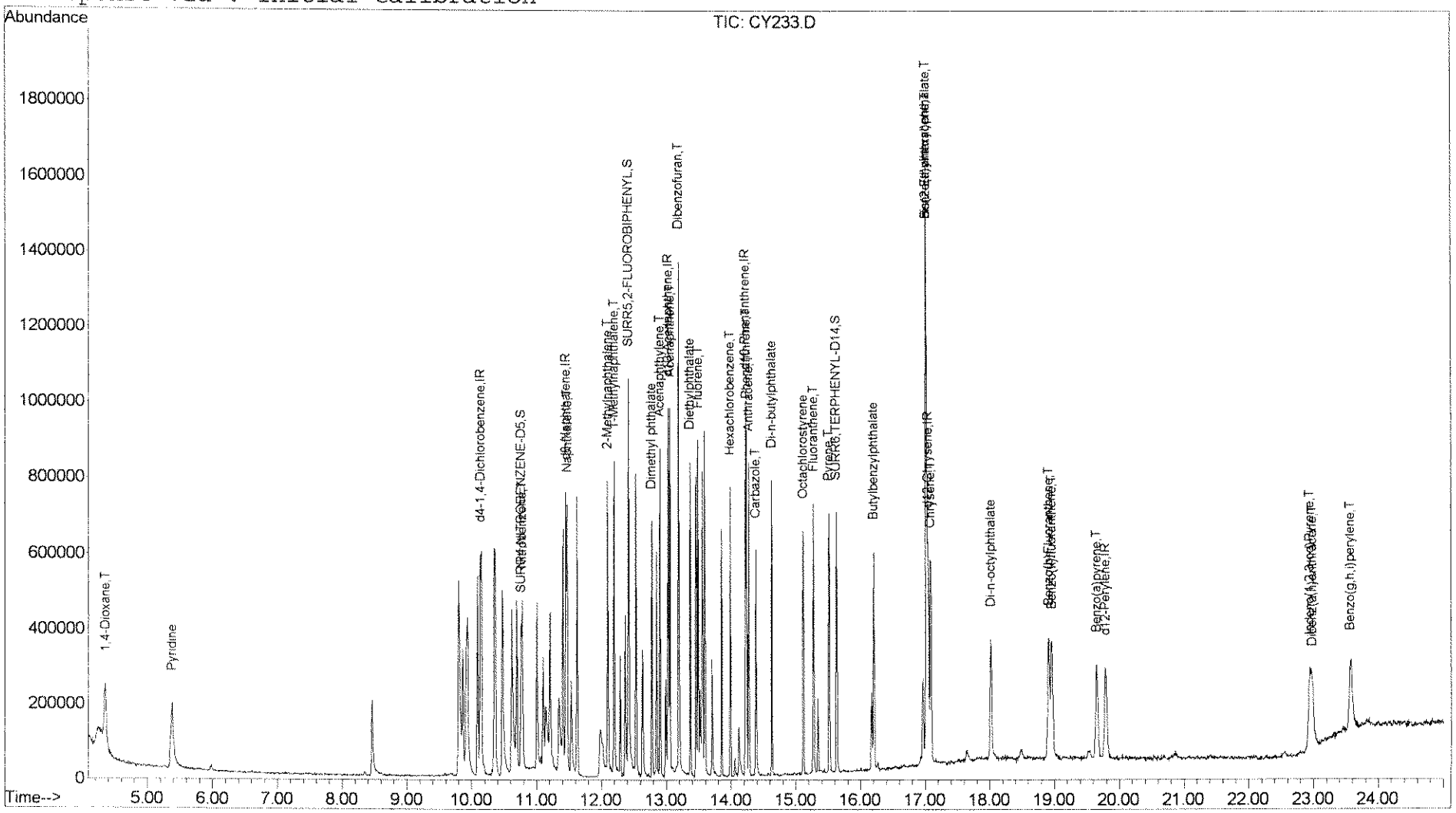
Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:43:07 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.95	252	261975	0.97	ppm	100
37)	Benzo(a)pyrene	19.64	252	237103	0.95	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	259207	0.91	ppm	100
39)	Dibenz(a,h)anthracene	22.98	278	205786	0.93	ppm	100
40)	Benzo(g,h,i)perylene	23.57	276	249914	0.97	ppm	100

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

Data File : J:\ACQUDATA\5973B\DATA\070108\CY233.D Vial: 5
Acq On : 1 Jul 2008 1:02 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 1.0/2.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:43 2008 Quant Results File: LVI0701.RES

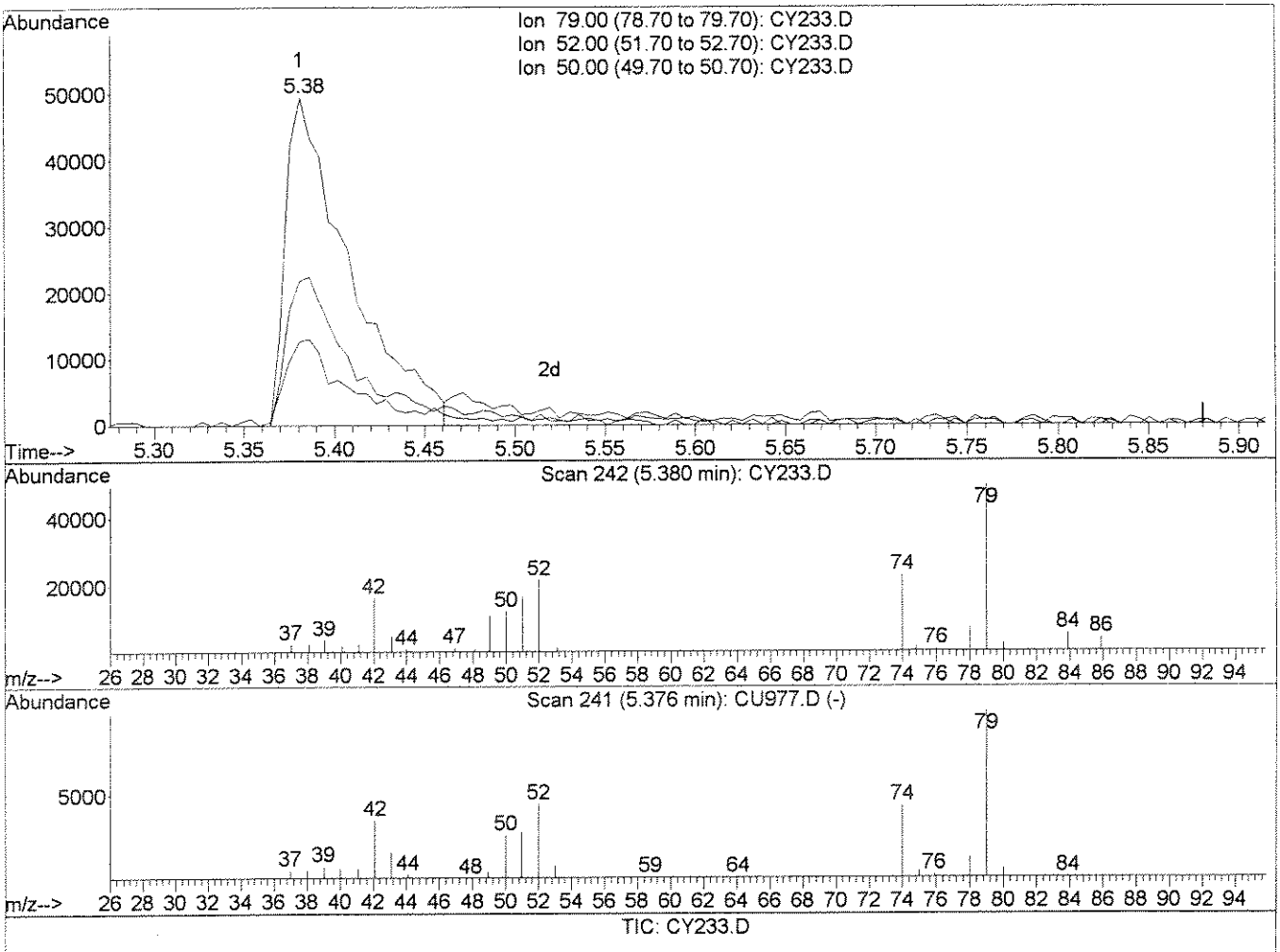
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:00:22 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY233.D Vial: 5
Acq On : 1 Jul 2008 1:02 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 1.0/2.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:43 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:43:07 2008
Response via : Single Level Calibration



TIC: CY233.D

(3) Pyridine

5.38min 0.87ppm

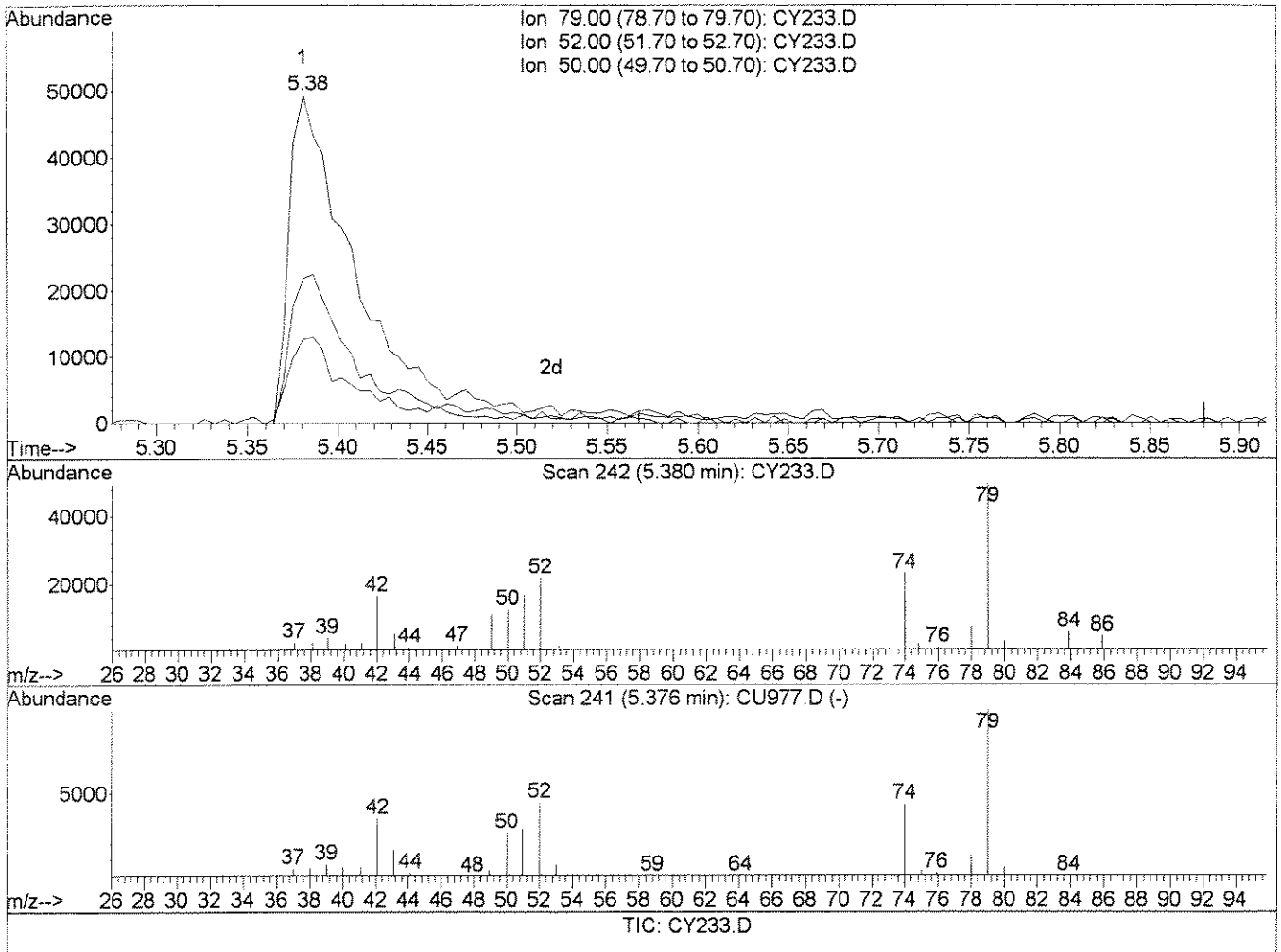
response 121209

Ion	Exp%	Act%
79.00	100	100
52.00	42.50	42.53
50.00	24.60	24.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY233.D Vial: 5
Acq On : 1 Jul 2008 1:02 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 1.0/2.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:43 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:43:07 2008
Response via : Single Level Calibration



TIC: CY233.D

(3) Pyridine

5.38min 0.98ppm m

response 136233

Ion	Exp%	Act%
79.00	100	100
52.00	42.50	43.99
50.00	24.60	25.39
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY234.D Vial: 6
Acq On : 1 Jul 2008 1:49 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 2.0/4.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:33 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:33:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	76509	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	280482	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	182626	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	284665	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	282584	1.00	ppm	0.00
33) d12-Perylene	19.78	264	231475	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	367393	2.18	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 109.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	515726	2.09	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 104.50%			
28) SURR6,TERPHENYL-D14	15.63	244	513402	2.11	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 105.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.34	88	284989	3.87	ppm	100
3) Pyridine	5.37	79	299525	2.17	ppm	100
6) Nitrobenzene	10.78	77	381661	2.17	ppm	100
7) Naphthalene	11.47	128	580520	2.02	ppm	100
8) 2-Methylnaphthalene	12.10	142	417117	2.06	ppm	100
9) 1-Methylnaphthalene	12.20	142	400750	2.07	ppm	100
12) Acenaphthylene	12.90	152	644397	2.11	ppm	100
13) Dimethyl phthalate	12.77	163	472413	2.33	ppm	100
14) Acenaphthene	13.06	153	394392	2.04	ppm	100
15) Dibenzofuran	13.19	168	615836	2.13	ppm	100
16) Fluorene	13.49	166	483082	2.12	ppm	100
17) Diethylphthalate	13.37	149	489855	2.35	ppm	100
19) Hexachlorobenzene	13.99	284	156192	2.01	ppm	100
20) Phenanthrene	14.24	178	558365	2.06	ppm	100
21) Anthracene	14.28	178	554636	2.10	ppm	100
22) Carbazole	14.38	167	465108	2.27	ppm	100
23) Octachlorostyrene	15.11	380	32555	1.82	ppm	100
24) Di-n-butylphthalate	14.63	149	644637	2.21	ppm	100
25) Fluoranthene	15.27	202	660338	2.07	ppm	100
27) Pyrene	15.52	202	681581	2.12	ppm	100
29) Butylbenzylphthalate	16.20	149	297820	2.40	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	837778	4.33	ppm	100
31) Benzo(a)anthracene	17.02	228	637511	2.08	ppm	100
32) Chrysene	17.08	228	631274	2.11	ppm	100
34) Di-n-octylphthalate	18.02	149	633578	2.43	ppm	100
35) Benzo(b)Fluoranthene	18.91	252	655291	2.12	ppm	100

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

00344

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY234.D Vial: 6
Acq On : 1 Jul 2008 1:49 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 2.0/4.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:33 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:33:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

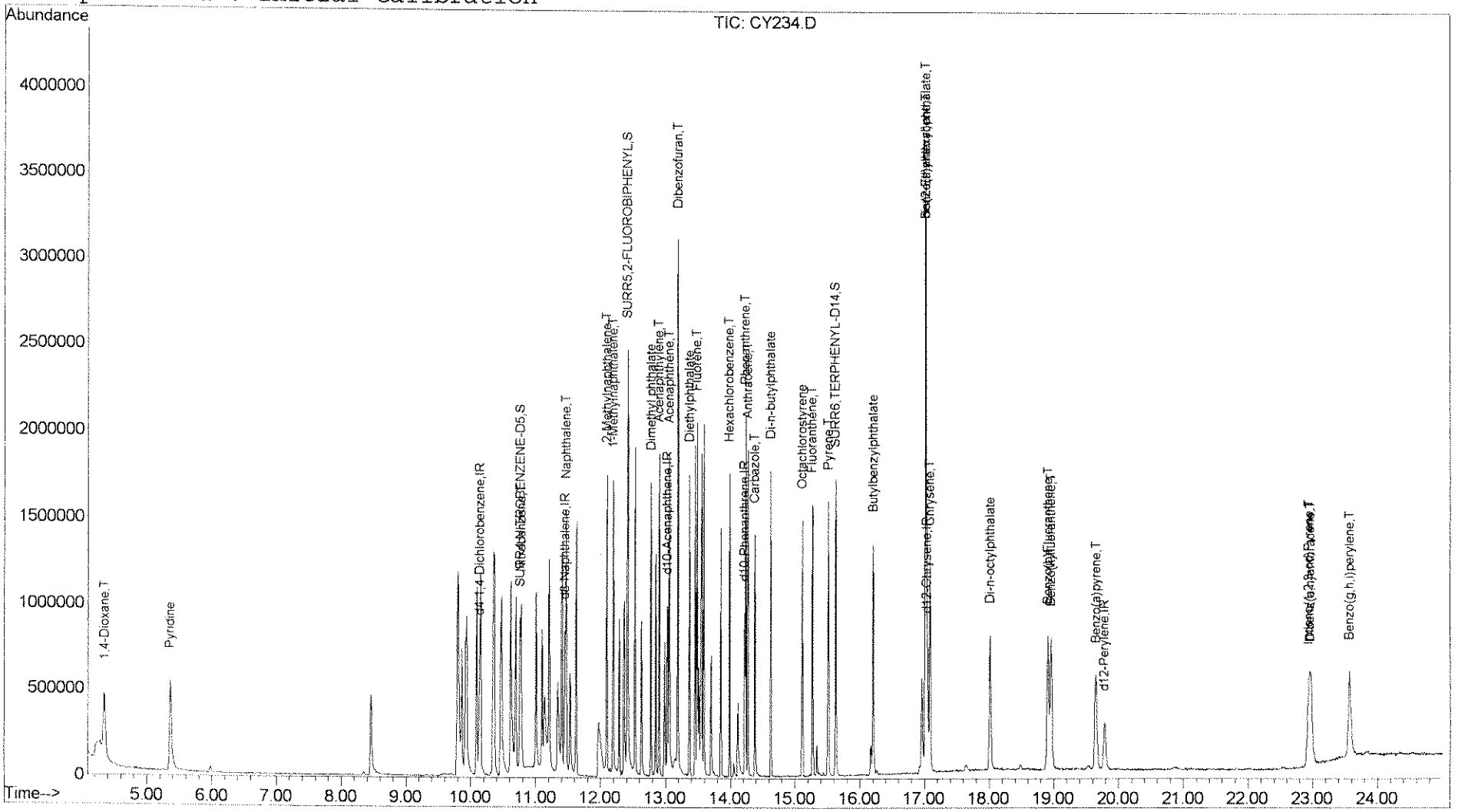
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	600601	2.08	ppm	100
37)	Benzo(a)pyrene	19.64	252	566664	2.13	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	634373	1.88	ppm	100
39)	Dibenz(a,h)anthracene	22.97	278	494595	2.09	ppm	100
40)	Benzo(g,h,i)perylene	23.57	276	567566	2.06	ppm	100

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY234.D Vial: 6
Acq On : 1 Jul 2008 1:49 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 2.0/4.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:33 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:00:22 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY235.D Vial: 7
Acq On : 1 Jul 2008 2:36 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 3.0/6.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:44 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:44:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	74313	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	268538	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	181563	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	286429	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	290812	1.00	ppm	0.00
33) d12-Perylene	19.78	264	230158	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	510116	3.16	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 158.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	706111	2.88	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 144.00%#			
28) SURR6,TERPHENYL-D14	15.63	244	738238	2.95	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 147.50%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.34	88	409582	5.73	ppm	100
3) Pyridine	5.36	79	431518	3.05	ppm	100
6) Nitrobenzene	10.77	77	537027	3.19	ppm	100
7) Naphthalene	11.47	128	812180	2.95	ppm	100
8) 2-Methylnaphthalene	12.09	142	590641	3.05	ppm	100
9) 1-Methylnaphthalene	12.19	142	554624	2.99	ppm	100
12) Acenaphthylene	12.90	152	898623	2.96	ppm	100
13) Dimethyl phthalate	12.78	163	669604	3.32	ppm	100
14) Acenaphthene	13.06	153	562538	2.93	ppm	100
15) Dibenzofuran	13.19	168	836398	2.91	ppm	100
16) Fluorene	13.49	166	679885	3.00	ppm	100
17) Diethylphthalate	13.36	149	686884	3.31	ppm	100
19) Hexachlorobenzene	13.99	284	228960	2.93	ppm	100
20) Phenanthrene	14.24	178	784625	2.88	ppm	100
21) Anthracene	14.27	178	794622	2.99	ppm	100
22) Carbazole	14.38	167	646347	3.13	ppm	100
23) Octachlorostyrene	15.12	380	50751	2.76	ppm	100
24) Di-n-butylphthalate	14.63	149	922417	3.14	ppm	100
25) Fluoranthene	15.27	202	923243	2.88	ppm	100
27) Pyrene	15.51	202	960898	2.90	ppm	100
29) Butylbenzylphthalate	16.21	149	420149	3.29	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	1209582	6.07	ppm	100
31) Benzo(a)anthracene	17.02	228	928031	2.95	ppm	100
32) Chrysene	17.08	228	905913	2.94	ppm	100
34) Di-n-octylphthalate	18.02	149	907941	3.50	ppm	100
35) Benzo(b)Fluoranthene	18.91	252	951476	3.09	ppm	100

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

00347

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY235.D Vial: 7
Acq On : 1 Jul 2008 2:36 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 3.0/6.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:44 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:44:46 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

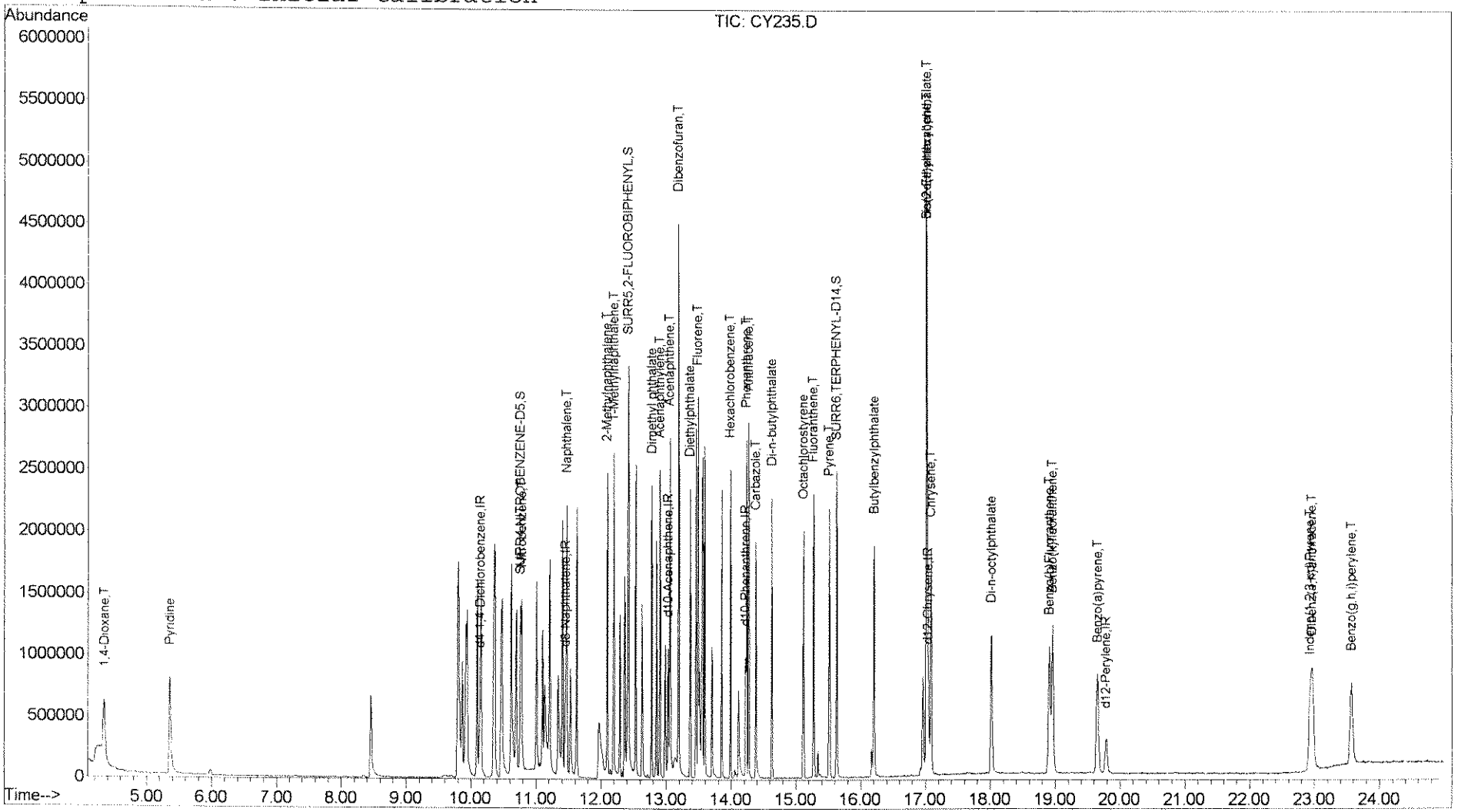
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	900284	3.14	ppm	100
37)	Benzo(a)pyrene	19.65	252	792985	3.00	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.93	276	913515	2.65	ppm	100
39)	Dibenz(a,h)anthracene	22.96	278	733005	3.12	ppm	100
40)	Benzo(g,h,i)perylene	23.57	276	809955	2.96	ppm	100

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY235.D Vial: 7
Acq On : 1 Jul 2008 2:36 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 3.0/6.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:44 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY236.D Vial: 8
Acq On : 1 Jul 2008 3:23 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 4.0/8.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:46 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:46:10 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	74484	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	270355	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	182176	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	293114	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	288336	1.00	ppm	0.00
33) d12-Perylene	19.78	264	233590	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	717533	4.36	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 218.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	975774	3.96	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 198.00%#			
28) SURR6,TERPHENYL-D14	15.63	244	1021986	4.12	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 206.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.34	88	554580	7.66	ppm	100
3) Pyridine	5.35	79	626739	4.35	ppm	100
6) Nitrobenzene	10.78	77	758437	4.40	ppm	100
7) Naphthalene	11.47	128	1086496	3.93	ppm	100
8) 2-Methylnaphthalene	12.10	142	794598	4.06	ppm	100
9) 1-Methylnaphthalene	12.20	142	740837	3.96	ppm	100
12) Acenaphthylene	12.90	152	1233089	4.05	ppm	100
13) Dimethyl phthalate	12.77	163	917699	4.55	ppm	100
14) Acenaphthene	13.06	153	775625	4.03	ppm	100
15) Dibenzofuran	13.19	168	1133560	3.94	ppm	100
16) Fluorene	13.49	166	930187	4.11	ppm	100
17) Diethylphthalate	13.37	149	955371	4.59	ppm	100
19) Hexachlorobenzene	13.99	284	322236	4.01	ppm	100
20) Phenanthrene	14.24	178	1091975	3.90	ppm	100
21) Anthracene	14.28	178	1081345	3.97	ppm	100
22) Carbazole	14.38	167	891166	4.15	ppm	100
23) Octachlorostyrene	15.12	380	75693	4.01	ppm	100
24) Di-n-butylphthalate	14.63	149	1262526	4.18	ppm	100
25) Fluoranthene	15.27	202	1300254	3.97	ppm	100
27) Pyrene	15.52	202	1327752	4.02	ppm	100
29) Butylbenzylphthalate	16.20	149	599367	4.66	ppm	100
30) bis(2-Ethylhexyl)phthalate	17.02	149	1681755	8.34	ppm	100
31) Benzo(a)anthracene	17.02	228	1311339	4.18	ppm	100
32) Chrysene	17.09	228	1252559	4.09	ppm	100
34) Di-n-octylphthalate	18.02	149	1308076	4.88	ppm	100
35) Benzo(b)Fluoranthene	18.91	252	1295386	4.16	ppm	100

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

00350

Data File : J:\ACQUDATA\5973B\DATA\070108\CY236.D Vial: 8
Acq On : 1 Jul 2008 3:23 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 4.0/8.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:46 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:46:10 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

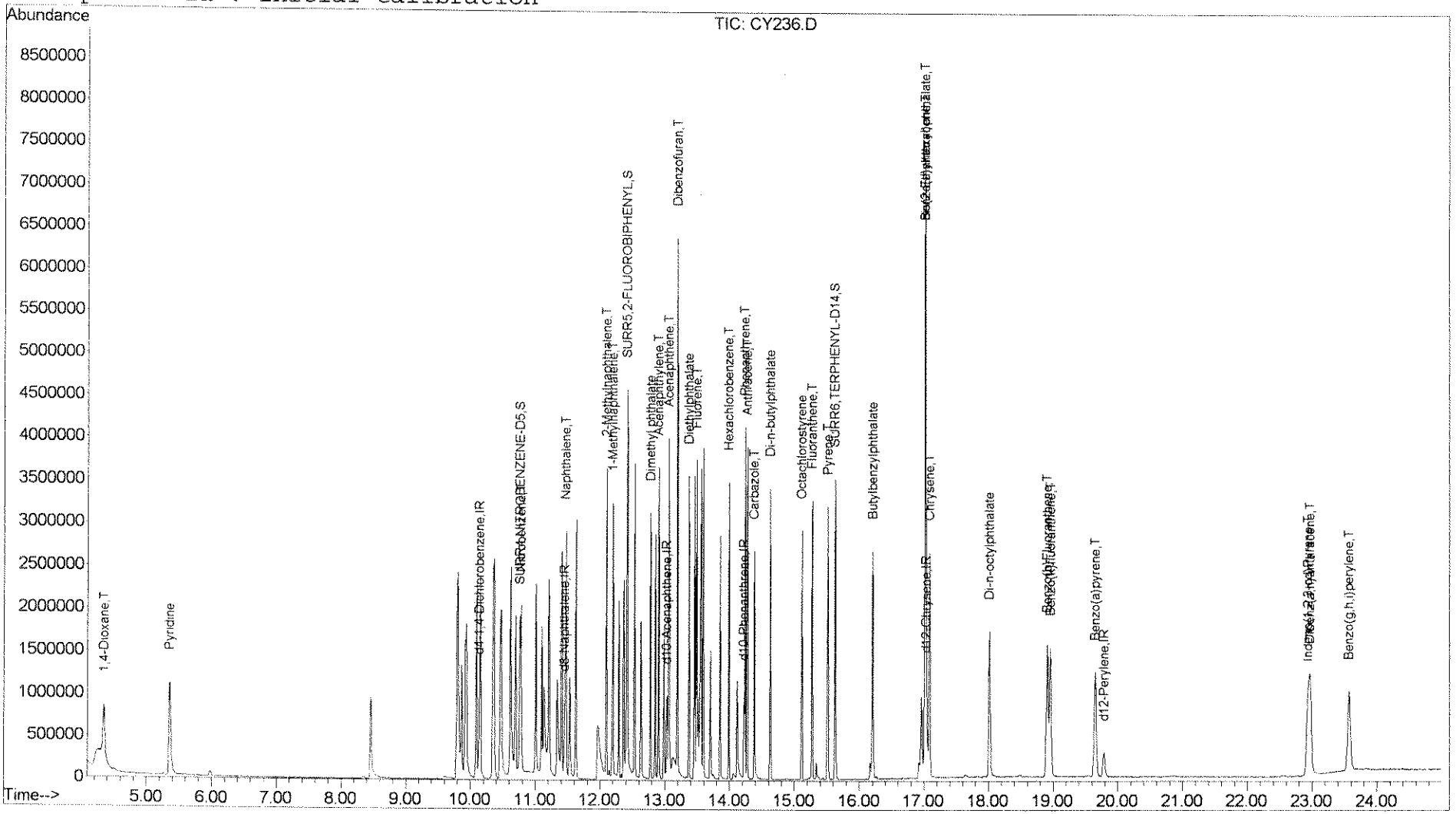
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	1237717	4.31	ppm	100
37)	Benzo(a)pyrene	19.65	252	1140391	4.28	ppm	100
38)	Indeno(1,2,3-cd)Pyrene	22.93	276	1298370	3.78	ppm	100
39)	Dibenz(a,h)anthracene	22.97	278	1054316	4.57	ppm	100
40)	Benzo(g,h,i)perylene	23.57	276	1139141	4.16	ppm	100

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY236.D Vial: 8
Acq On : 1 Jul 2008 3:23 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 4.0/8.0 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:46 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY237.D Vial: 9
Acq On : 1 Jul 2008 4:09 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 5.0/10 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:47 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:47:28 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	77111	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	274005	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	186871	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	298364	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	305254	1.00	ppm	0.00
33) d12-Perylene	19.78	264	247176	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	908874	5.52	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 276.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	1199942	4.87	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 243.50%#			
28) SURR6,TERPHENYL-D14	15.63	244	1309179	5.08	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 254.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	689448	9.30	ppm	99
3) Pyridine	5.36	79	777823	5.31	ppm	99
6) Nitrobenzene	10.78	77	937959	5.43	ppm	99
7) Naphthalene	11.47	128	1356842	4.94	ppm	98
8) 2-Methylnaphthalene	12.10	142	981511	5.04	ppm	98
9) 1-Methylnaphthalene	12.20	142	924275	5.00	ppm	98
12) Acenaphthylene	12.90	152	1542770	5.07	ppm	98
13) Dimethyl phthalate	12.78	163	1155868	5.74	ppm	99
14) Acenaphthene	13.06	153	975841	5.07	ppm	98
15) Dibenzofuran	13.19	168	1448347	5.05	ppm	100
16) Fluorene	13.49	166	1193390	5.31	ppm	98
17) Diethylphthalate	13.37	149	1204613	5.78	ppm	97
19) Hexachlorobenzene	13.99	284	406102	5.09	ppm	98
20) Phenanthrene	14.24	178	1381433	4.98	ppm	99
21) Anthracene	14.28	178	1376533	5.11	ppm	99
22) Carbazole	14.38	167	1124126	5.17	ppm	100
23) Octachlorostyrene	15.12	380	93414	5.50	ppm	81
24) Di-n-butylphthalate	14.63	149	1591910	5.30	ppm	98
25) Fluoranthene	15.27	202	1667813	5.15	ppm	99
27) Pyrene	15.51	202	1723091	5.00	ppm	99
29) Butylbenzylphthalate	16.20	149	779525	5.81	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.02	149	2152037	10.18	ppm	99
31) Benzo(a)anthracene	17.02	228	1688261	5.17	ppm	97
32) Chrysene	17.09	228	1588012	4.99	ppm	98
34) Di-n-octylphthalate	18.02	149	1688041	6.10	ppm	98
35) Benzo(b)Fluoranthene	18.91	252	1686131	5.29	ppm	96

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY237.D Vial: 9
Acq On : 1 Jul 2008 4:09 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 5.0/10 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:47 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:47:28 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

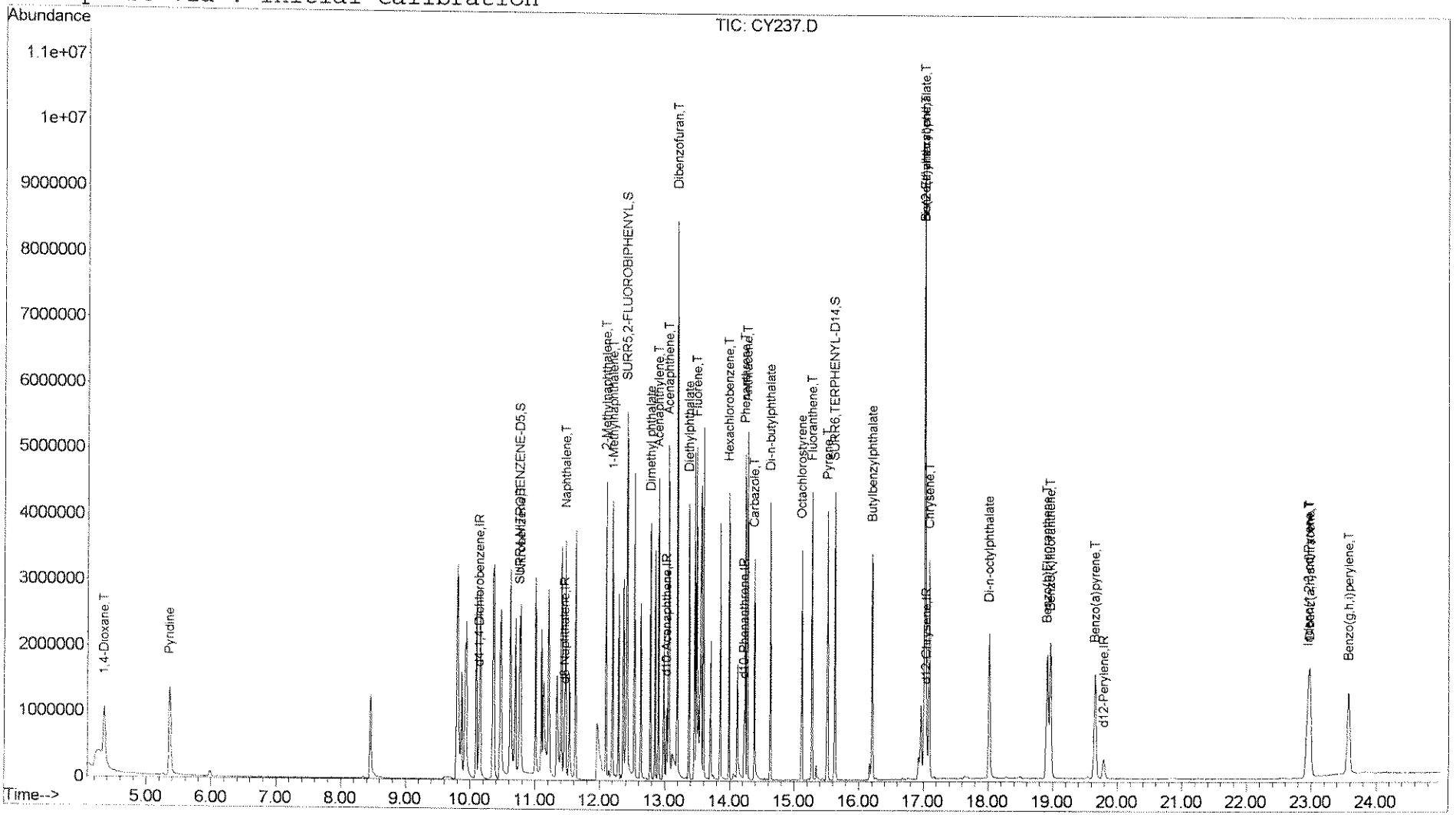
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	1602282	5.47 ppm	97
37)	Benzo(a)pyrene	19.65	252	1474092	5.41 ppm	98
38)	Indeno(1,2,3-cd)Pyrene	22.95	276	1701248	5.55 ppm	98
39)	Dibenz(a,h)anthracene	22.98	278	1376620	6.02 ppm	99
40)	Benzo(g,h,i)perylene	23.57	276	1484893	5.33 ppm	99

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY237.D Vial: 9
Acq On : 1 Jul 2008 4:09 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 5.0/10 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:47 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY238.D Vial: 10
Acq On : 1 Jul 2008 4:56 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 10/20 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:48 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:48:45 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	74975	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	270985	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	182281	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	298273	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	300082	1.00	ppm	0.00
33) d12-Perylene	19.78	264	243577	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	1815683	10.86	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 543.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	2263630	9.23	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 461.50%#			
28) SURR6,TERPHENYL-D14	15.63	244	2733314	10.56	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 528.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	1370789	18.66	ppm	95
3) Pyridine	5.35	79	1586670	10.83	ppm	98
6) Nitrobenzene	10.78	77	1881714	10.76	ppm	98
7) Naphthalene	11.47	128	2469538	8.89	ppm	95
8) 2-Methylnaphthalene	12.10	142	1883074	9.55	ppm	96
9) 1-Methylnaphthalene	12.20	142	1777638	9.50	ppm	95
12) Acenaphthylene	12.90	152	2786700	9.18	ppm	93
13) Dimethyl phthalate	12.78	163	2191327	10.90	ppm	97
14) Acenaphthene	13.06	153	1857110	9.66	ppm	98
15) Dibenzofuran	13.19	168	2695489	9.41	ppm	91
16) Fluorene	13.49	166	2281448	10.14	ppm	98
17) Diethylphthalate	13.37	149	2305684	11.07	ppm	97
19) Hexachlorobenzene	13.99	284	868440	10.63	ppm	89
20) Phenanthrene	14.24	178	2656473	9.35	ppm	93
21) Anthracene	14.28	178	2698798	9.78	ppm	93
22) Carbazole	14.38	167	2052738	9.21	ppm	97
24) Di-n-butylphthalate	14.63	149	2986710	9.73	ppm	93
25) Fluoranthene	15.27	202	3208060	9.66	ppm	94
27) Pyrene	15.52	202	3359366	9.70	ppm	93
29) Butylbenzylphthalate	16.21	149	1612741	11.90	ppm	98
31) Benzo(a)anthracene	17.03	228	3773079	11.49	ppm	95
32) Chrysene	17.09	228	3270761	10.25	ppm	96
34) Di-n-octylphthalate	18.02	149	3517738	12.44	ppm	97
35) Benzo(b)Fluoranthene	18.92	252	3499540	10.86	ppm	100
36) Benzo(k)fluoranthene	18.98	252	3415486	11.54	ppm	100
37) Benzo(a)pyrene	19.67	252	3160873	11.49	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY238.D Vial: 10
Acq On : 1 Jul 2008 4:56 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 10/20 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:48 2008 Quant Results File: LVI0701.RES

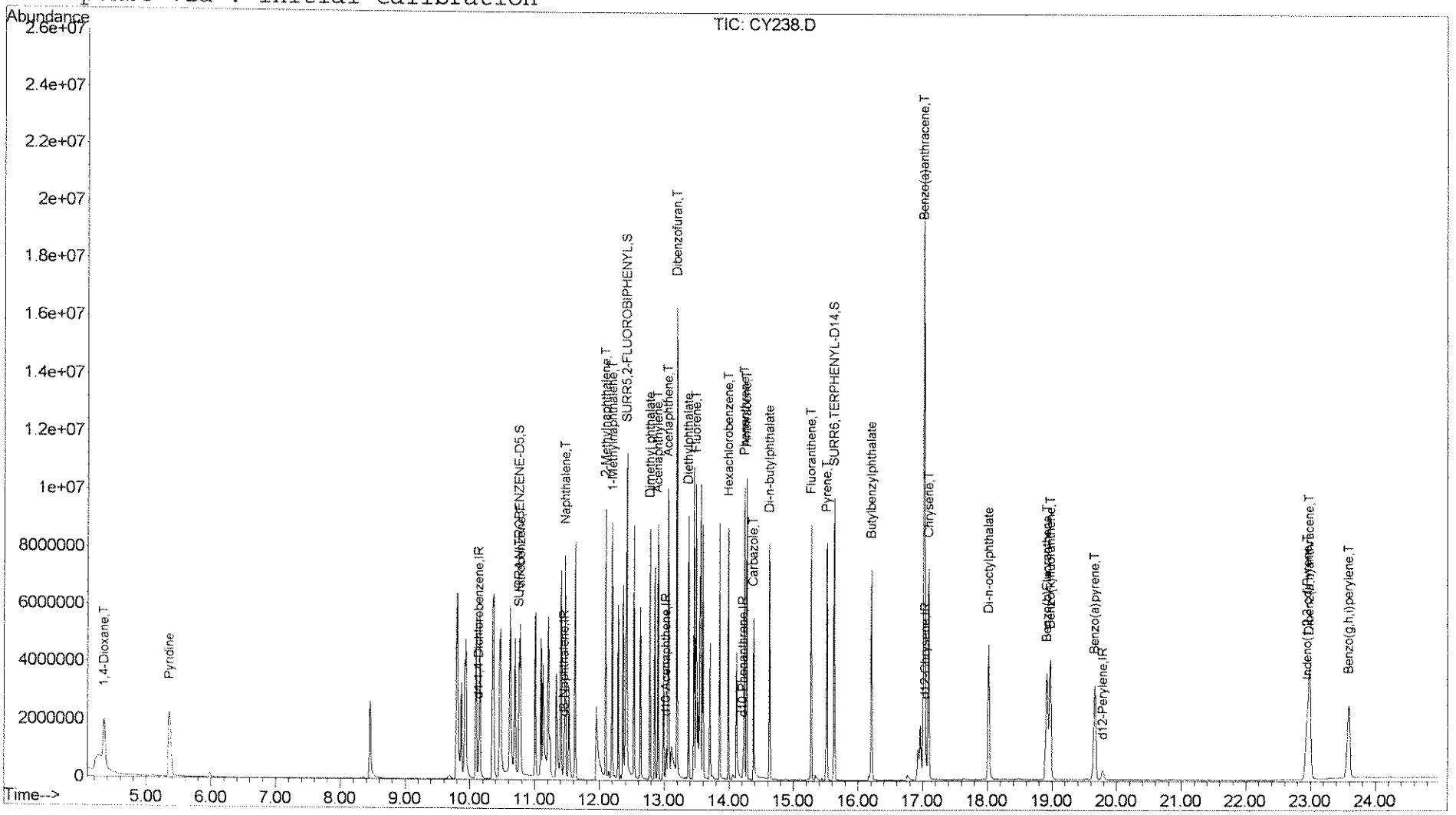
Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 12:48:45 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Indeno(1,2,3-cd)Pyrene	22.95	276	3670826	10.87	ppm	99
39)	Dibenz(a,h)anthracene	22.99	278	3071101	13.24	ppm	98
40)	Benzo(g,h,i)perylene	23.59	276	3117440	11.08	ppm	98

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

Data File : J:\ACQUDATA\5973B\DATA\070108\CY238.D Vial: 10
Acq On : 1 Jul 2008 4:56 pm Operator: Z.Miao
Sample : Initial Calibration Inst : 5973-B
Misc : 10/20 ppm std 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 12:48 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY229.D Vial: 1
Acq On : 1 Jul 2008 9:54 am Operator: Z.Miao
Sample : BLK Inst : 5973-B
Misc : 07/01/2008 1.0 8270LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 14:52 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.14	152	88469	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	315150	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	199827	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	285211	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	268465	1.00	ppm	0.00
33) d12-Perylene	19.79	264	219074	1.00	ppm	0.01

System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	0.00	82	0	0.00	ppm	
Spiked Amount 2.000	Range 22 - 124		Recovery = 0.00%#			
11) SURR5,2-FLUOROBIPHENYL	0.00	172	0	0.00	ppm	
Spiked Amount 2.000	Range 27 - 114		Recovery = 0.00%#			
28) SURR6,TERPHENYL-D14	0.00	244	0	0.00	ppm	
Spiked Amount 2.000	Range 23 - 139		Recovery = 0.00%#			

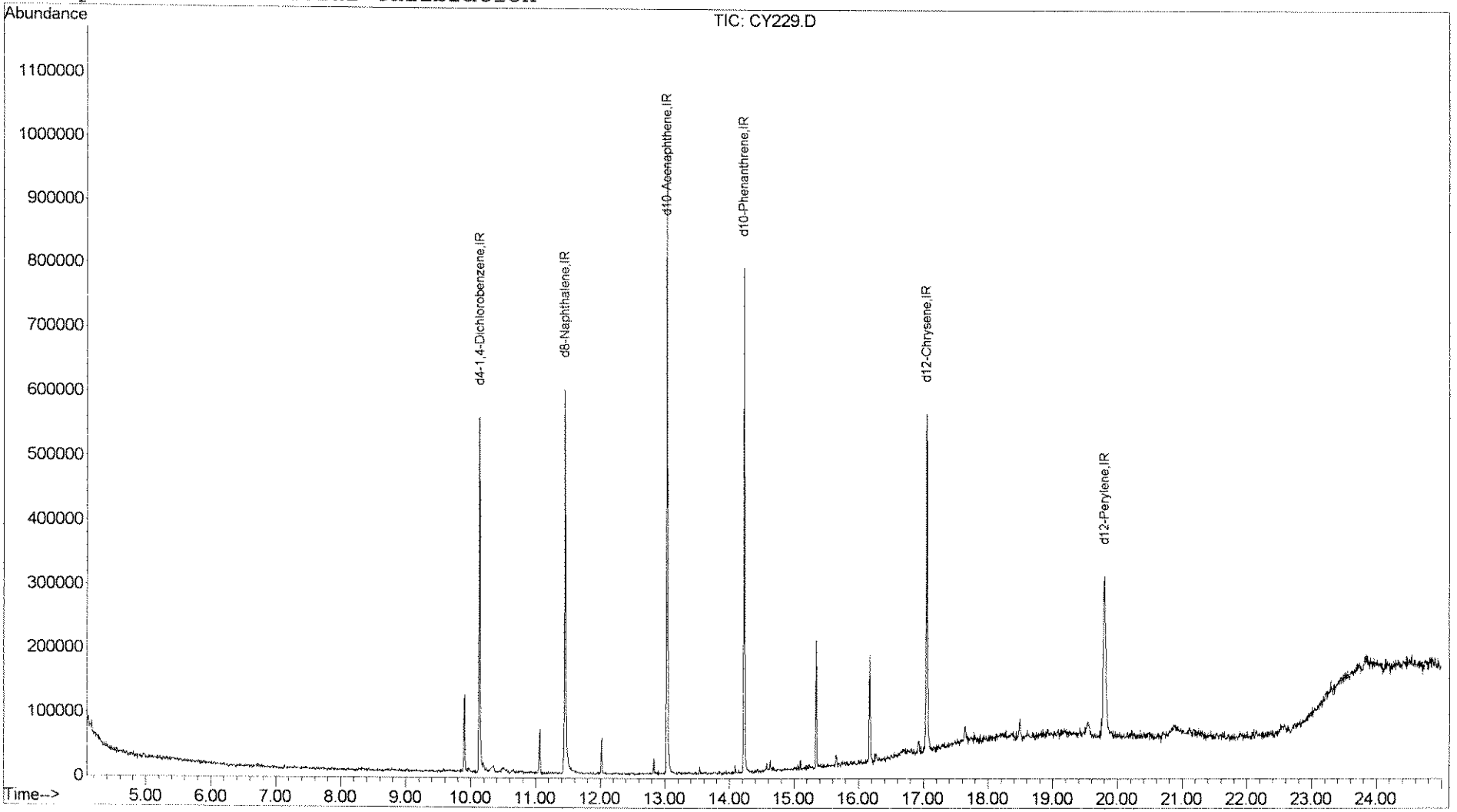
Target Compounds Qvalue

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

00359

Data File : J:\ACQUDATA\5973B\DATA\070108\CY229.D Vial: 1
Acq On : 1 Jul 2008 9:54 am Operator: Z.Miao
Sample : BLK Inst : 5973-B
Misc : 07/01/2008 1.0 8270LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 14:52 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

CR: # 23+39

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

at 1.0ppm

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	107	0.00
2	T	1,4-Dioxane	0.980	0.950	~~-3.1~~	112	0.02
3		Pyridine	1.954	6.164	~~-215.5#~~	362#	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	111	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	1.199	~~-94.3#~~	216#	0.00
6	T	Nitrobenzene	0.646	1.185	-83.4#	218#	0.00
7	T	Naphthalene	1.026	1.003	2.2	111	0.00
8	T	2-Methylnaphthalene	0.727	0.725	0.3	107	0.00
9	T	1-Methylnaphthalene	0.691	0.696	-0.7	111	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	111	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	2.549	~~-89.5#~~	209#	0.00
12	T	Acenaphthylene	1.666	1.705	-2.3	116	0.00
13		Dimethyl phthalate	1.207	1.282	-6.2	117	0.00
14	T	Acenaphthene	1.055	1.056	-0.1	112	0.00
15	T	Dibenzofuran	1.572	1.575	-0.2	111	0.00
16	T	Fluorene	1.235	1.253	-1.5	114	0.00
17		Diethylphthalate	1.253	1.328	-6.0	119	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	108	0.00
19	T	Hexachlorobenzene	0.274	0.276	-0.7	109	0.00
20	T	Phenanthrene	0.952	0.977	-2.6	110	0.00
21	T	Anthracene	0.925	1.001	-8.2	116	0.00
22	T	Carbazole	0.747	0.805	-7.8	113	0.00
23		Octachlorostyrene	0.056	0.054	3.6	88	0.00
24		Di-n-butylphthalate	1.115	3.441	~~-208.6#~~	344#	0.00
25	T	Fluoranthene	1.113	1.167	-4.9	115	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	109	0.00
27	T	Pyrene	1.154	1.159	-0.4	112	0.00
28	S	SURR6,TERPHENYL-D14	0.863	1.848	~~-114.1#~~	238#	0.00
29		Butylbenzylphthalate	0.506	0.488	3.6	113	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	1.077	~~-51.1#~~	172	0.00
31	T	Benzo(a)anthracene	1.094	1.096	-0.2	117	0.00
32	T	Chrysene	1.064	1.073	-0.8	116	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	109	0.00
34		Di-n-octylphthalate	1.356	1.336	1.5	117	0.00
35	T	Benzo(b)Fluoranthene	1.322	1.328	-0.5	115	0.00
36	T	Benzo(k)fluoranthene	1.215	1.305	-7.4	118	0.00

(#) = Out of Range

00351

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	1.122	0.6	112	0.00
38	T	Indeno(1,2,3-cd)Pyrene	1.237	1.251	-1.1	114	0.00
39	T	Dibenz(a,h)anthracene	0.952	0.970	-1.9	112	0.00
40	T	Benzo(g,h,i)perylene	1.155	1.133	1.9	107	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

LR: #23+38 at 1.0 ppm

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	107	0.00
2	T	1,4-Dioxane	2.000	1.940	3.0	112	0.02
3		Pyridine	1.000	3.155	-215.5#	362	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	111	0.00
5	S	SURR4,NITROBENZENE-D5	1.000	1.942	-94.2#	216	0.00
6	T	Nitrobenzene	1.000	1.836	-83.6#	218	0.00
7	T	Naphthalene	1.000	0.978	2.2	111	0.00
8	T	2-Methylnaphthalene	1.000	0.997	0.3	107	0.00
9	T	1-Methylnaphthalene	1.000	1.008	-0.8	111	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	111	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.000	1.895	-89.5#	209	0.00
12	T	Acenaphthylene	1.000	1.023	-2.3	116	0.00
13		Dimethyl phthalate	1.000	1.062	-6.2	117	0.00
14	T	Acenaphthene	1.000	1.001	-0.1	112	0.00
15	T	Dibenzofuran	1.000	1.002	-0.2	111	0.00
16	T	Fluorene	1.000	1.015	-1.5	114	0.00
17		Diethylphthalate	1.000	1.060	-6.0	119	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	108	0.00
19	T	Hexachlorobenzene	1.000	1.009	-0.9	109	0.00
20	T	Phenanthrene	1.000	1.026	-2.6	110	0.00
21	T	Anthracene	1.000	1.082	-8.2	116	0.00
22	T	Carbazole	1.000	1.078	-7.8	113	0.00
23		Octachlorostyrene	1.000	0.908	9.2	88	0.00
24		Di-n-butylphthalate	1.000	3.086	-208.6#	344	0.00
25	T	Fluoranthene	1.000	1.048	-4.8	115	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	109	0.00
27	T	Pyrene	1.000	1.005	-0.5	112	0.00
28	S	SURR6,TERPHENYL-D14	1.000	2.143	-114.3#	238	0.00
29		Butylbenzylphthalate	1.000	0.965	3.5	113	0.00
30	T	bis(2-Ethylhexyl)phthalate	2.000	3.020	-51.0#	172	0.00
31	T	Benzo(a)anthracene	1.000	1.002	-0.2	117	0.00
32	T	Chrysene	1.000	1.009	-0.9	116	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	109	0.00
34		Di-n-octylphthalate	1.000	0.985	1.5	117	0.00
35	T	Benzo(b)Fluoranthene	1.000	1.004	-0.4	115	0.00
36	T	Benzo(k)fluoranthene	1.000	1.074	-7.4	118	0.00

(#) = Out of Range

00353

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.000	0.994	0.6	112	0.00
38	T	Indeno(1,2,3-cd)Pyrene	1.000	1.011	-1.1	114	0.00
39	T	Dibenz(a,h)anthracene	1.000	0.958	4.2	112	0.00
40	T	Benzo(g,h,i)perylene	1.000	0.981	1.9	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

at 2.0ppm use #5, 11, 28 only

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	104	0.00
2	T	1,4-Dioxane	0.980	0.475	51.5#	53	0.02
3		Pyridine	1.954	3.082	-57.7#	164	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	107	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	0.599	2.9	97	0.00
6	T	Nitrobenzene	0.646	0.593	8.2	93	0.00
7	T	Naphthalene	1.026	0.502	51.1#	52	0.00
8	T	2-Methylnaphthalene	0.727	0.363	50.1#	52	0.00
9	T	1-Methylnaphthalene	0.691	0.348	49.6#	52	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	109	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	1.274	5.3	99	0.00
12	T	Acenaphthylene	1.666	0.852	48.9#	53	0.00
13		Dimethyl phthalate	1.207	0.641	46.9#	54	0.00
14	T	Acenaphthene	1.055	0.528	50.0#	54	0.00
15	T	Dibenzofuran	1.572	0.788	49.9#	51	0.00
16	T	Fluorene	1.235	0.626	49.3#	52	0.00
17		Diethylphthalate	1.253	0.664	47.0#	54	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	102	0.00
19	T	Hexachlorobenzene	0.274	0.138	49.6#	51	0.00
20	T	Phenanthrene	0.952	0.488	48.7#	51	0.00
21	T	Anthracene	0.925	0.500	45.9#	52	0.00
22	T	Carbazole	0.747	0.403	46.1#	50	0.00
23		Octachlorostyrene	0.056	0.027#	51.8#	48#	0.00
24		Di-n-butylphthalate	1.115	1.720	-54.3#	155	0.00
25	T	Fluoranthene	1.113	0.584	47.5#	51	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	105	0.00
27	T	Pyrene	1.154	0.580	49.7#	51	0.00
28	S	SURR6,TERPHENYL-D14	0.863	0.924	-7.1	107	0.00
29		Butylbenzylphthalate	0.506	0.244	51.8#	49#	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	0.538	24.5#	76	0.00
31	T	Benzo(a)anthracene	1.094	0.548	49.9#	51	0.00
32	T	Chrysene	1.064	0.536	49.6#	51	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	102	0.00
34		Di-n-octylphthalate	1.356	0.668	50.7#	50#	0.00
35	T	Benzo(b)Fluoranthene	1.322	0.664	49.8#	48#	0.00
36	T	Benzo(k)fluoranthene	1.215	0.653	46.3#	51	0.00

(#) = Out of Range

00365

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	0.561	50.3#	47#	0.00
38	T	Indeno(1,2,3-cd)Pyrene	1.237	0.626	49.4#	47#	0.00
39	T	Dibenz(a,h)anthracene	0.952	0.485	49.1#	46#	0.00
40	T	Benzo(g,h,i)perylene	1.155	0.567	50.9#	47#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 13:04 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	79900	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	298767	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	199937	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	290817	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	297250	1.00	ppm	0.00
33) d12-Perylene	19.78	264	236956	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	358111	1.94	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 97.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	509603	1.89	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 94.50%			
28) SURR6,TERPHENYL-D14	15.63	244	549353	2.14	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 107.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.36	88	151889	1.94	ppm	95
3) Pyridine	5.37	79	492536	3.16	ppm	97
6) Nitrobenzene	10.78	77	354070	1.84	ppm	73
7) Naphthalene	11.47	128	299704	0.98	ppm	98
8) 2-Methylnaphthalene	12.10	142	216713	1.00	ppm	98
9) 1-Methylnaphthalene	12.19	142	207973	1.01	ppm	93
12) Acenaphthylene	12.90	152	340888	1.02	ppm	98
13) Dimethyl phthalate	12.78	163	256411	1.06	ppm	99
14) Acenaphthene	13.05	153	211176	1.00	ppm	98
15) Dibenzofuran	13.19	168	314915	1.00	ppm	94
16) Fluorene	13.49	166	250450	1.01	ppm	95
17) Diethylphthalate	13.37	149	265544	1.06	ppm	98
19) Hexachlorobenzene	13.99	284	80345	1.01	ppm	94
20) Phenanthrene	14.24	178	284099	1.03	ppm	97
21) Anthracene	14.27	178	291102	1.08	ppm	96
22) Carbazole	14.38	167	234215	1.08	ppm	96
23) Octachlorostyrene	15.12	380	15716	0.91	ppm	87
24) Di-n-butylphthalate	14.63	149	1000684	3.09	ppm	98
25) Fluoranthene	15.27	202	339512	1.05	ppm	98
27) Pyrene	15.51	202	344598	1.00	ppm	98
29) Butylbenzylphthalate	16.21	149	145097	0.97	ppm	97
30) bis(2-Ethylhexyl)phthalate	17.01	149	640071	3.02	ppm	98
31) Benzo(a)anthracene	17.02	228	325778	1.00	ppm	94
32) Chrysene	17.08	228	318928	1.01	ppm	98
34) Di-n-octylphthalate	18.01	149	316580	0.99	ppm	95
35) Benzo(b)Fluoranthene	18.91	252	314742	1.00	ppm	94

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 13:04 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

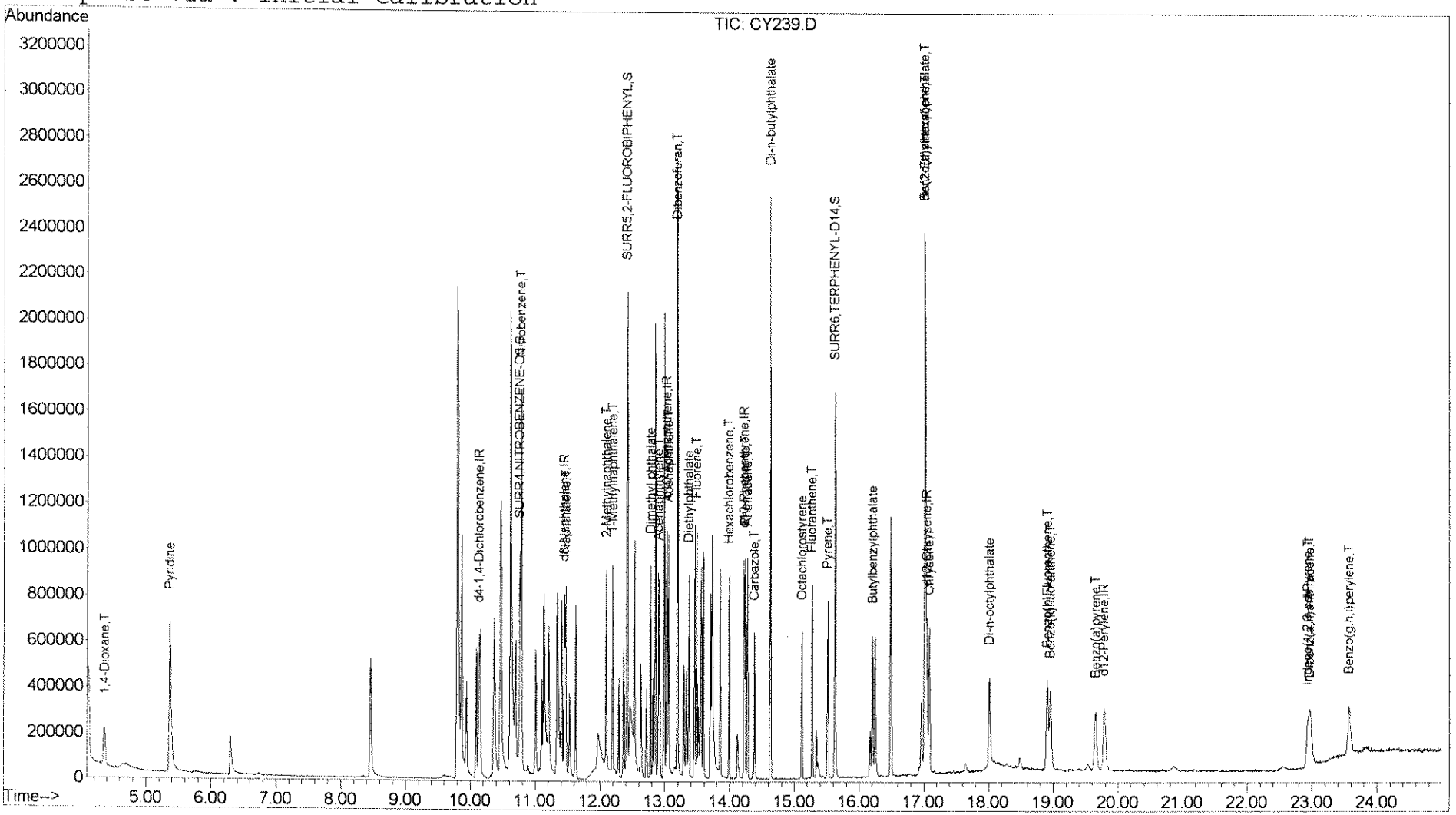
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	309302	1.07	ppm	96
37)	Benzo(a)pyrene	19.65	252	265948	0.99	ppm	94
38)	Indeno(1,2,3-cd)Pyrene	22.93	276	296527	1.01	ppm	99
39)	Dibenz(a,h)anthracene	22.97	278	229739	0.96	ppm	97
40)	Benzo(g,h,i)perylene	23.57	276	268517	0.98	ppm	98

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY239.D Vial: 11
Acq On : 1 Jul 2008 5:43 pm Operator: Z.Miao
Sample : Icv #1 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 13:04 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

at 2ppm
use #3, 24 only

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	109	0.00
2	T	1,4-Dioxane	0.980	0.505	48.5#	59	0.00
3		Pyridine	1.954	1.969	-0.8	110	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	106	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	0.001#	99.8#	0#	0.00
6	T	Nitrobenzene	0.646	0.000#	100.0#	0#	-10.78#
7	T	Naphthalene	1.026	0.000#	100.0#	0#	-11.47#
8	T	2-Methylnaphthalene	0.727	0.001#	99.9#	0#	0.00
9	T	1-Methylnaphthalene	0.691	0.001#	99.9#	0#	-0.11
10	IR	d10-Acenaphthene	1.000	1.000	0.0	107	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	0.003#	99.8#	0#	0.00
12	T	Acenaphthylene	1.666	0.001#	99.9#	0#	0.00
13		Dimethyl phthalate	1.207	0.001#	99.9#	0#	0.14
14	T	Acenaphthene	1.055	0.000#	100.0#	0#	-13.06#
15	T	Dibenzofuran	1.572	0.002#	99.9#	0#	0.00
16	T	Fluorene	1.235	0.000#	100.0#	0#	-13.49#
17		Diethylphthalate	1.253	0.001#	99.9#	0#	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	99	0.00
19	T	Hexachlorobenzene	0.274	0.000#	100.0#	0#	-13.99#
20	T	Phenanthrene	0.952	0.000#	100.0#	0#	-14.24#
21	T	Anthracene	0.925	0.000#	100.0#	0#	-14.28#
22	T	Carbazole	0.747	0.004#	99.5#	1#	0.24
23		Octachlorostyrene	0.056	0.000#	100.0#	0#	-15.11#
24		Di-n-butylphthalate	1.115	1.180	-5.8	104	0.00
25	T	Fluoranthene	1.113	0.000#	100.0#	0#	-15.27#
26	IR	d12-Chrysene	1.000	1.000	0.0	98	0.00
27	T	Pyrene	1.154	0.000#	100.0#	0#	0.00
28	S	SURR6,TERPHENYL-D14	0.863	0.002#	99.8#	0#	0.02
29		Butylbenzylphthalate	0.506	0.001#	99.8#	0#	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	0.381	46.6#	51	0.00
31	T	Benzo(a)anthracene	1.094	0.000#	100.0#	0#	0.00
32	T	Chrysene	1.064	0.000#	100.0#	0#	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	94	0.00
34		Di-n-octylphthalate	1.356	0.000#	100.0#	0#	-18.02#
35	T	Benzo(b)Fluoranthene	1.322	0.000#	100.0#	0#	-18.91#
36	T	Benzo(k)fluoranthene	1.215	0.000#	100.0#	0#	-18.96#

(#) = Out of Range

00370

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	0.001#	99.9#	0#	0.15
38	T	Indeno(1,2,3-cd)Pyrene	1.237	0.000#	100.0#	0#	-22.94#
39	T	Dibenz(a,h)anthracene	0.952	0.000#	100.0#	0#	0.07
40	T	Benzo(g,h,i)perylene	1.155	0.000#	100.0#	0#	0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL at 1.0 ppm Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration use #2 + 30 only

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	112	0.00
2	T	1,4-Dioxane	0.980	1.011	-3.2	124	0.00
3		Pyridine	1.954	3.938	-101.5#	241#	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	111	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	0.003#	99.5#	1#	0.00
6	T	Nitrobenzene	0.646	0.000#	100.0#	0#	-10.78#
7	T	Naphthalene	1.026	0.000#	100.0#	0#	-11.47#
8	T	2-Methylnaphthalene	0.727	0.002#	99.7#	0#	0.00
9	T	1-Methylnaphthalene	0.691	0.002#	99.7#	0#	-0.11
10	IR	d10-Acenaphthene	1.000	1.000	0.0	108	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	0.006#	99.6#	0#	0.00
12	T	Acenaphthylene	1.666	0.001#	99.9#	0#	0.00
13		Dimethyl phthalate	1.207	0.003#	99.8#	0#	0.14
14	T	Acenaphthene	1.055	0.000#	100.0#	0#	-13.06#
15	T	Dibenzofuran	1.572	0.004#	99.7#	0#	0.00
16	T	Fluorene	1.235	0.000#	100.0#	0#	-13.49#
17		Diethylphthalate	1.253	0.002#	99.8#	0#	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	105	0.00
19	T	Hexachlorobenzene	0.274	0.000#	100.0#	0#	-13.99#
20	T	Phenanthrene	0.952	0.000#	100.0#	0#	-14.24#
21	T	Anthracene	0.925	0.000#	100.0#	0#	-14.28#
22	T	Carbazole	0.747	0.009#	98.8#	1#	0.24
23		Octachlorostyrene	0.056	0.000#	100.0#	0#	-15.11#
24		Di-n-butylphthalate	1.115	2.359	-111.6#	230#	0.00
25	T	Fluoranthene	1.113	0.000#	100.0#	0#	-15.27#
26	IR	d12-Chrysene	1.000	1.000	0.0	102	0.00
27	T	Pyrene	1.154	0.001#	99.9#	0#	0.00
28	S	SURR6,TERPHENYL-D14	0.863	0.003#	99.7#	0#	0.02
29		Butylbenzylphthalate	0.506	0.002#	99.6#	0#	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	0.762	-6.9	114	0.00
31	T	Benzo(a)anthracene	1.094	0.001#	99.9#	0#	0.00
32	T	Chrysene	1.064	0.001#	99.9#	0#	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	100	0.00
34		Di-n-octylphthalate	1.356	0.000#	100.0#	0#	-18.02#
35	T	Benzo(b)Fluoranthene	1.322	0.000#	100.0#	0#	-18.91#
36	T	Benzo(k)fluoranthene	1.215	0.000#	100.0#	0#	-18.96#

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	0.003#	99.7#	0#	0.15
38	T	Indeno(1,2,3-cd)Pyrene	1.237	0.000#	100.0#	0#	-22.94#
39	T	Dibenz(a,h)anthracene	0.952	0.001#	99.9#	0#	0.07
40	T	Benzo(g,h,i)perylene	1.155	0.001#	99.9#	0#	0.07

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 13:14 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

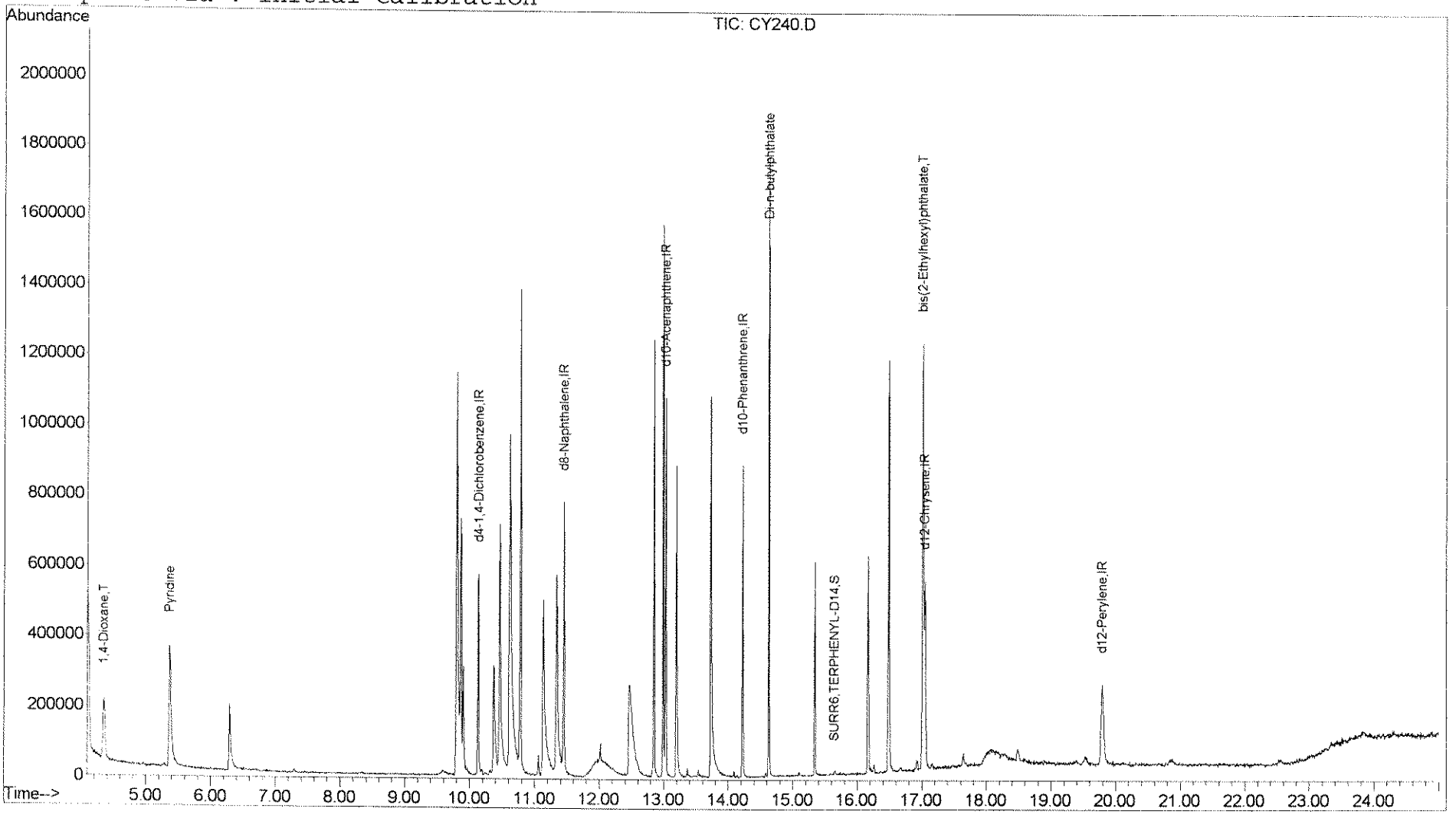
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	83305	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	298341	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	195576	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	283206	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	278333	1.00	ppm	0.00
33) d12-Perylene	19.79	264	217856	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.77	82	845	0.00	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 0.00%#			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	1153	0.00	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 0.00%#			
28) SURR6,TERPHENYL-D14	15.64	244	962	0.00	ppm	0.02
Spiked Amount 2.000	Range 23 - 139		Recovery = 0.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	168410	2.06	ppm	81
3) Pyridine	5.36	79	328025	2.02	ppm	98
24) Di-n-butylphthalate	14.63	149	668185	2.12	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.02	149	424271	2.14	ppm	100

(#) = qualifier out of range (m) = manual integration
CY240.D LVI0701.M Wed Jul 02 13:14:07 2008 Page 1

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY240.D Vial: 12
Acq On : 1 Jul 2008 6:30 pm Operator: Z.Miao
Sample : Icv #2 Inst : 5973-B
Misc : 2.0 ppm 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 2 13:14 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Wed Jul 02 13:01:54 2008
Response via : Initial Calibration



CJ-899

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration

#23.39 L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	83	0.00
2	T	1,4-Dioxane	0.980	0.996	-1.6	89	0.00
3		Pyridine	1.954	2.037	-4.2	87	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	84	0.00
5	S	SURR4,NITROBENZENE-D5	0.617	0.664	-7.6	85	0.00
6	T	Nitrobenzene	0.646	0.694	-7.4	85	0.00
7	T	Naphthalene	1.026	1.046	-1.9	85	0.00
8	T	2-Methylnaphthalene	0.727	0.743	-2.2	84	0.00
9	T	1-Methylnaphthalene	0.691	0.706	-2.2	83	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	84	0.00
11	S	SURR5,2-FLUOROBIPHENYL	1.345	1.394	-3.6	83	0.00
12	T	Acenaphthylene	1.666	1.744	-4.7	83	0.00
13		Dimethyl phthalate	1.207	1.319	-9.3	86	0.00
14	T	Acenaphthene	1.055	1.124	-6.5	88	0.00
15	T	Dibenzofuran	1.572	1.686	-7.3	84	0.00
16	T	Fluorene	1.235	1.325	-7.3	84	0.00
17		Diethylphthalate	1.253	1.329	-6.1	83	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	86	0.00
19	T	Hexachlorobenzene	0.274	0.291	-6.2	91	0.00
20	T	Phenanthrene	0.952	0.986	-3.6	86	0.00
21	T	Anthracene	0.925	0.956	-3.4	84	0.00
22	T	Carbazole	0.747	0.796	-6.6	83	0.00
23		Octachlorostyrene	0.056	0.071	-26.8#	106	0.00
24		Di-n-butylphthalate	1.115	1.159	-3.9	88	0.00
25	T	Fluoranthene	1.113	1.158	-4.0	85	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	89	0.00
27	T	Pyrene	1.154	1.195	-3.6	88	0.00
28	S	SURR6,TERPHENYL-D14	0.863	0.919	-6.5	90	0.00
29		Butyl benzyl phthalate	0.506	0.514	-1.6	86	0.00
30	T	bis(2-Ethylhexyl)phthalate	0.713	0.725	-1.7	87	0.00
31	T	Benzo(a)anthracene	1.094	1.143	-4.5	90	0.00
32	T	Chrysene	1.064	1.095	-2.9	87	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	87	0.00
34		Di-n-octyl phthalate	1.356	1.325	2.3	84	0.00
35	T	Benzo(b)Fluoranthene	1.322	1.396	-5.6	86	0.00
36	T	Benzo(k)fluoranthene	1.215	1.375	-13.2	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	1.129	1.198	-6.1	85	0.00
38	T	Indeno(1,2,3-cd)Pyrene	1.237	1.268	-2.5	81	0.00
39	T	Dibenz(a,h)anthracene	0.952	1.007	-5.8	82	0.00
40	T	Benzo(g,h,i)perylene	1.155	1.165	-0.9	83	0.00

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration

#23.39 L.R.

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	83	0.00
2	T	1,4-Dioxane	4.000	4.065	-1.6	89	0.00
3		Pyridine	2.000	2.086	-4.3	87	0.00
4	IR	d8-Naphthalene	1.000	1.000	0.0	84	0.00
5	S	SURR4,NITROBENZENE-D5	2.000	2.152	-7.6	85	0.00
6	T	Nitrobenzene	2.000	2.149	-7.5	85	0.00
7	T	Naphthalene	2.000	2.040	-2.0	85	0.00
8	T	2-Methylnaphthalene	2.000	2.044	-2.2	84	0.00
9	T	1-Methylnaphthalene	2.000	2.046	-2.3	83	0.00
10	IR	d10-Acenaphthene	1.000	1.000	0.0	84	0.00
11	S	SURR5,2-FLUOROBIPHENYL	2.000	2.072	-3.6	83	0.00
12	T	Acenaphthylene	2.000	2.093	-4.6	83	0.00
13		Dimethyl phthalate	2.000	2.184	-9.2	86	0.00
14	T	Acenaphthene	2.000	2.131	-6.5	88	0.00
15	T	Dibenzofuran	2.000	2.145	-7.3	84	0.00
16	T	Fluorene	2.000	2.146	-7.3	84	0.00
17		Diethylphthalate	2.000	2.121	-6.0	83	0.00
18	IR	d10-Phenanthrene	1.000	1.000	0.0	86	0.00
19	T	Hexachlorobenzene	2.000	2.124	-6.2	91	0.00
20	T	Phenanthrene	2.000	2.072	-3.6	86	0.00
21	T	Anthracene	2.000	2.066	-3.3	84	0.00
22	T	Carbazole	2.000	2.130	-6.5	83	0.00
23		Octachlorostyrene	2.000	2.296	-14.8	106	0.00
24		Di-n-butylphthalate	2.000	2.079	-4.0	88	0.00
25	T	Fluoranthene	2.000	2.080	-4.0	85	0.00
26	IR	d12-Chrysene	1.000	1.000	0.0	89	0.00
27	T	Pyrene	2.000	2.071	-3.6	88	0.00
28	S	SURR6,TERPHENYL-D14	2.000	2.131	-6.5	90	0.00
29		Butyl benzyl phthalate	2.000	2.032	-1.6	86	0.00
30	T	bis(2-Ethylhexyl)phthalate	4.000	4.066	-1.6	87	0.00
31	T	Benzo(a)anthracene	2.000	2.089	-4.4	90	0.00
32	T	Chrysene	2.000	2.060	-3.0	87	0.00
33	IR	d12-Perylene	1.000	1.000	0.0	87	0.00
34		Di-n-octyl phthalate	2.000	1.954	2.3	84	0.00
35	T	Benzo(b)Fluoranthene	2.000	2.112	-5.6	86	0.00
36	T	Benzo(k)fluoranthene	2.000	2.263	-13.1	92	0.00

(#) = Out of Range

VJ

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
37	T	Benzo(a)pyrene	2.000	2.121	-6.0	85	0.00
38	T	Indeno(1,2,3-cd)Pyrene	2.000	2.050	-2.5	81	0.00
39	T	Dibenz(a,h)anthracene	2.000	1.878	6.1	82	0.00
40	T	Benzo(g,h,i)perylene	2.000	2.018	-0.9	83	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 11:17 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	63616	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	234931	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	153862	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	243573	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	250630	1.00	ppm	0.00
33) d12-Perylene	19.78	264	201561	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	311936	2.15	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 107.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	428924	2.07	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 103.50%			
28) SURR6,TERPHENYL-D14	15.63	244	460783	2.13	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 106.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	253387	4.06	ppm	93
3) Pyridine	5.37	79	259212	2.09	ppm	95
6) Nitrobenzene	10.77	77	325998	2.15	ppm	99
7) Naphthalene	11.47	128	491459	2.04	ppm	99
8) 2-Methylnaphthalene	12.10	142	349299	2.04	ppm	99
9) 1-Methylnaphthalene	12.19	142	331952	2.05	ppm	96
12) Acenaphthylene	12.90	152	536619	2.09	ppm	99
13) Dimethyl phthalate	12.78	163	405769	2.18	ppm	97
14) Acenaphthene	13.05	153	345858	2.13	ppm	95
15) Dibenzofuran	13.19	168	518802	2.14	ppm	96
16) Fluorene	13.49	166	407685	2.15	ppm	97
17) Diethylphthalate	13.37	149	408949	2.12	ppm	100
19) Hexachlorobenzene	13.99	284	141700	2.12	ppm	91
20) Phenanthrene	14.24	178	480538	2.07	ppm	97
21) Anthracene	14.27	178	465777	2.07	ppm	99
22) Carbazole	14.38	167	387565	2.13	ppm	97
23) Octachlorostyrene	15.12	380	34539	2.30	ppm	98
24) Di-n-butylphthalate	14.63	149	564560	2.08	ppm	99
25) Fluoranthene	15.27	202	564000	2.08	ppm	98
27) Pyrene	15.51	202	598833	2.07	ppm	98
29) Butyl benzyl phthalate	16.21	149	257545	2.03	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.02	149	726625	4.07	ppm	99
31) Benzo(a)anthracene	17.02	228	572896	2.09	ppm	94
32) Chrysene	17.08	228	549119	2.06	ppm	99
34) Di-n-octyl phthalate	18.01	149	534032	1.95	ppm	98
35) Benzo(b)Fluoranthene	18.90	252	562848	2.11	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D
Acq On : 8 Jul 2008 10:52 am
Sample : CALIBRATION CHECK
Misc : 2.0/4.0 PPM STD 8270.LL
MS Integration Params: RTEINT.P
Quant Time: Jul 8 11:17 2008

Vial: 1
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00

Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

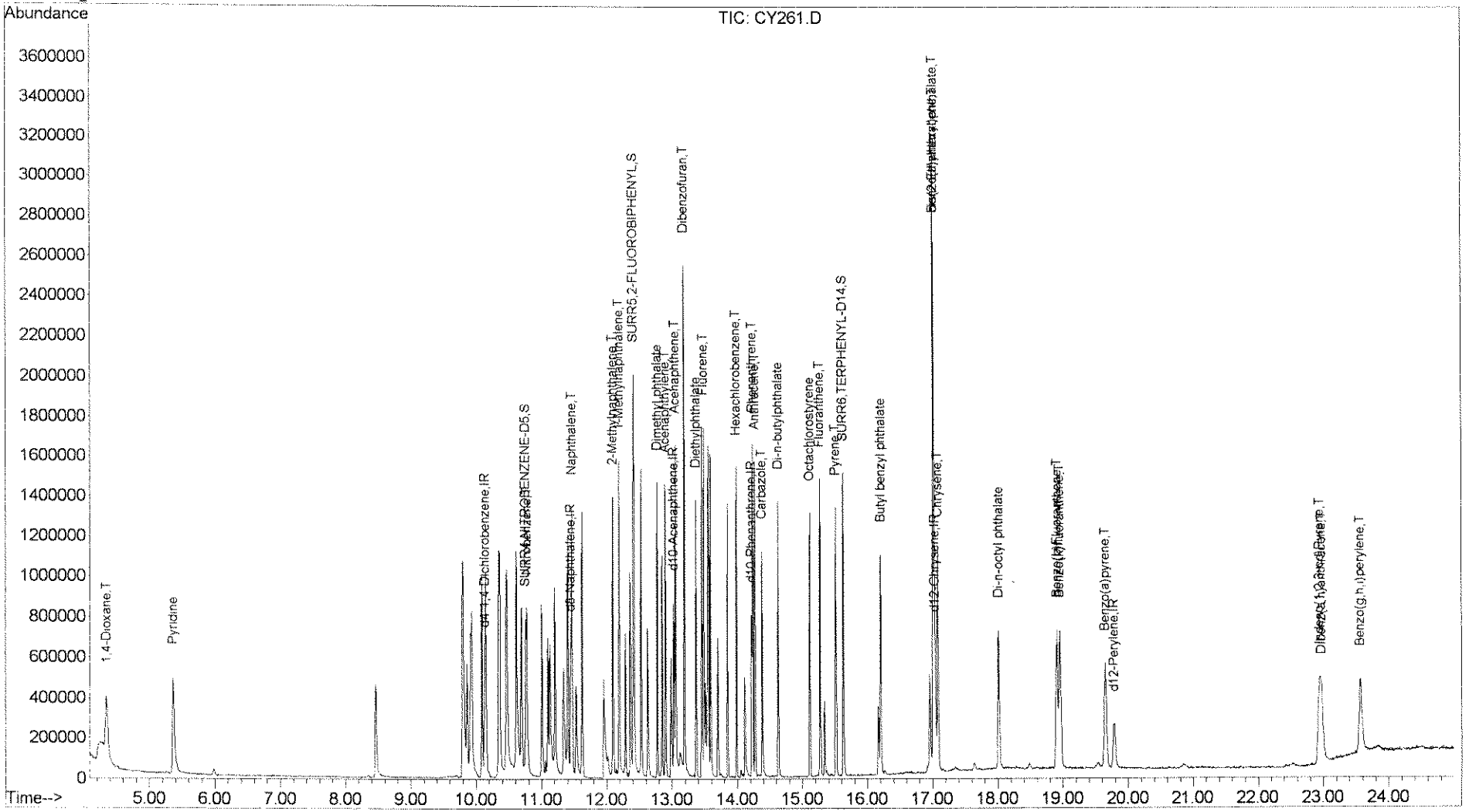
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	554282	2.26	ppm	98
37)	Benzo(a)pyrene	19.65	252	482794	2.12	ppm	96
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	511252	2.05	ppm	98
39)	Dibenz(a,h)anthracene	22.97	278	405847	1.88	ppm	96
40)	Benzo(g,h,i)perylene	23.56	276	469594	2.02	ppm	98

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY261.D Vial: 1
Acq On : 8 Jul 2008 10:52 am Operator: J.Wu
Sample : CALIBRATION CHECK Inst : 5973-B
Misc : 2.0/4.0 PPM STD 8270.LL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 11:17 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 9:33 2008 Quant Results File: DFTPPLVI.RES

Quant Method : J:\ACQUDATA\5...\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Initial Calibration
DataAcq Meth : DFTPPLVI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	8.92	152	73930	1.00	ppb	0.00
2) d8-Naphthalene	11.27	136	272494	1.00	ppb	0.00
3) d10-Acenaphthene	14.65	164	132863	1.00	ppb	0.00
4) d10-Phenanthrene	17.47	188	269589	1.00	ppb	0.00
10) d12-Chrysene	22.87	240	258105	1.00	ppb	0.00
12) d12-Perylene	25.83	264	214940	1.00	ppb	0.00
Target Compounds						Qvalue
5) Pentachlorophenol	17.24	266	329266	9.60	ppb	96
6) DFTPP	18.27	198	543305	11.58	ppb	96
9) 4,4'-DDT	21.94	235	1190262	9.45	ppb	99
11) Benzidine	20.20	184	1050380	7.72	ppb	98

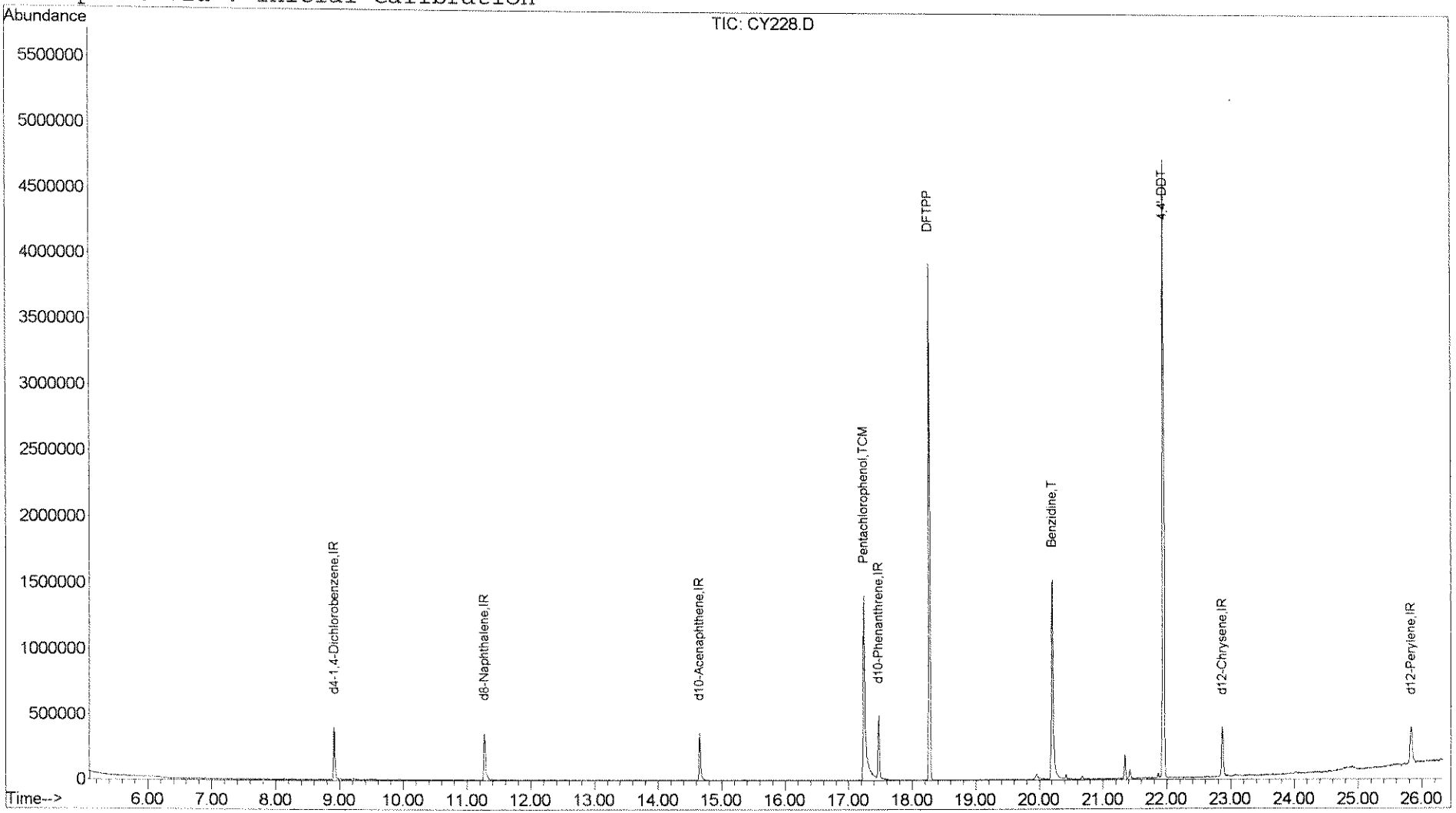
(#) = qualifier out of range (m) = manual integration

00363

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 9:33 2008 Quant Results File: DFTPPLVI.RES

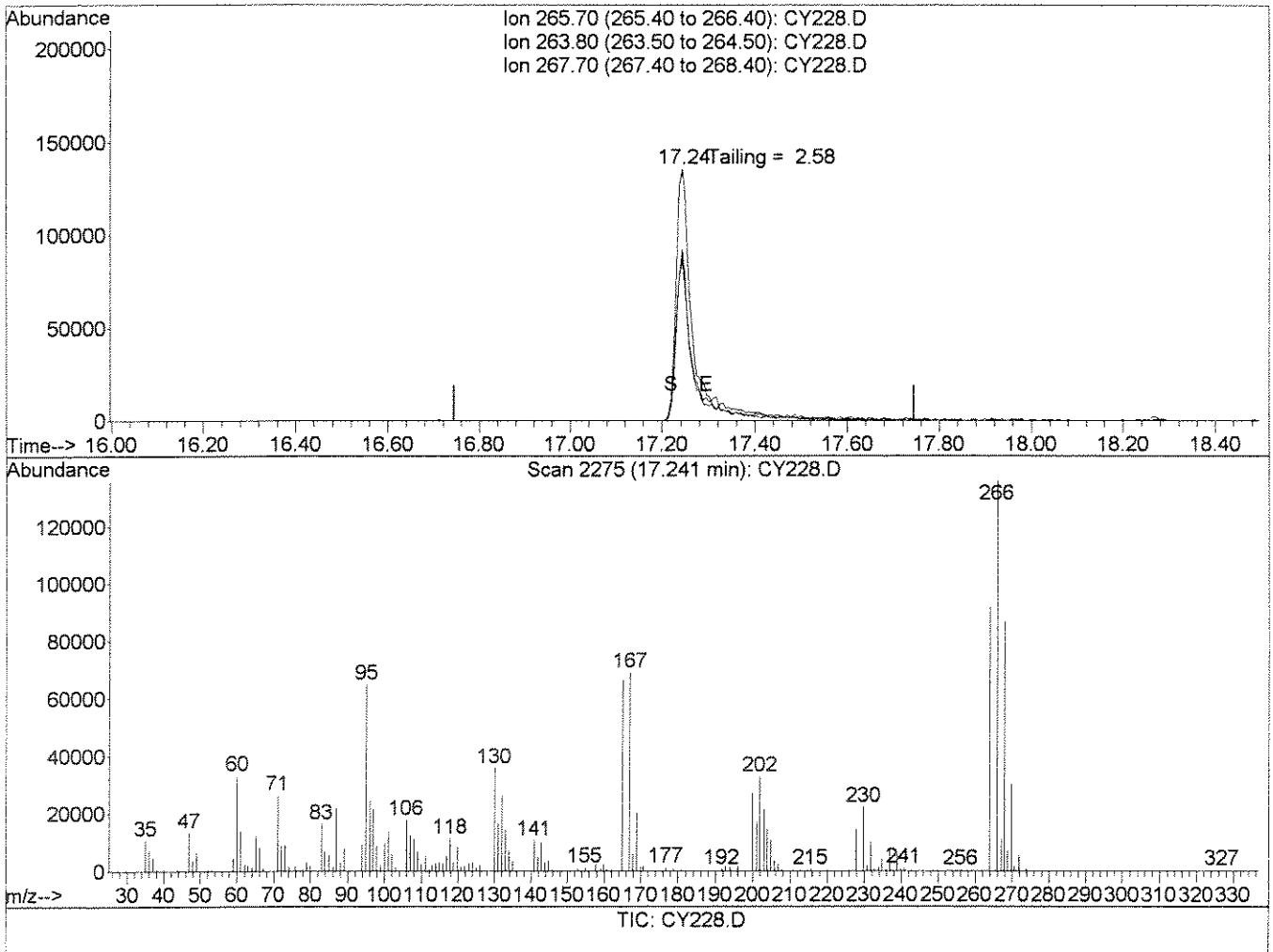
Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 9:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Single Level Calibration



(5) Pentachlorophenol (TCM)

17.24min 9.60ppb

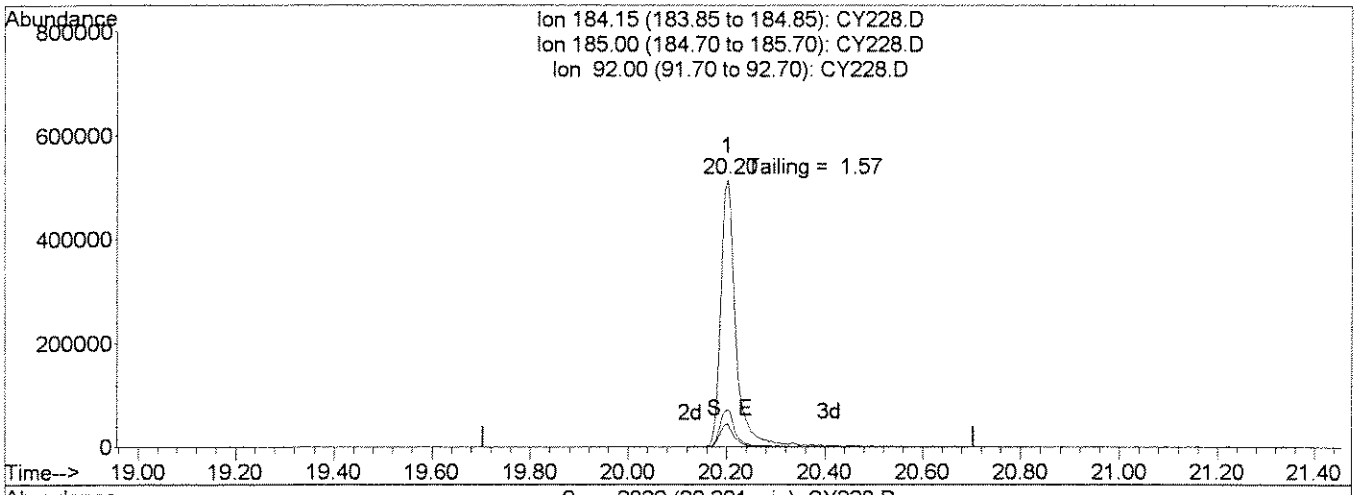
response 329266

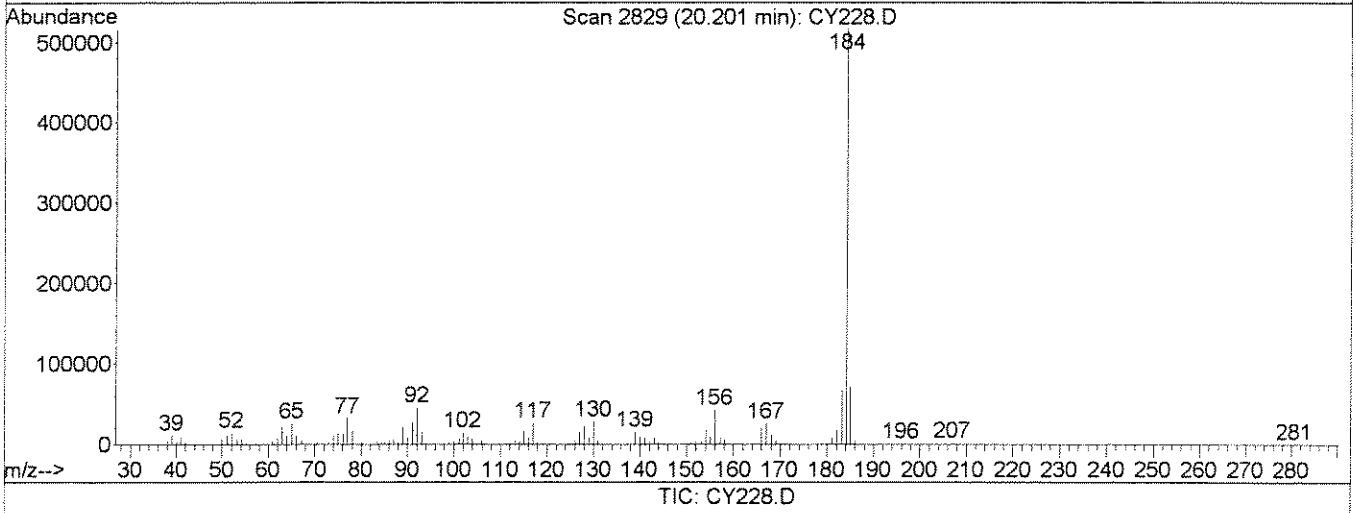
Ion	Exp%	Act%
265.70	100	100
263.80	63.80	67.72
267.70	65.10	63.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 1 9:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Single Level Calibration





TIC: CY228.D

(11) Benzidine (T)

20.20min 7.72ppb

response 1050380

Ion	Exp%	Act%
184.15	100	100
185.00	14.60	13.84
92.00	7.50	8.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D Vial: 1
Acq On : 8 Jul 2008 10:03 am Operator: J.Wu
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:29 2008 Quant Results File: DFTPPLVI.RES

Quant Method : J:\ACQUDATA\5...\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Initial Calibration
DataAcq Meth : DFTPPLVI

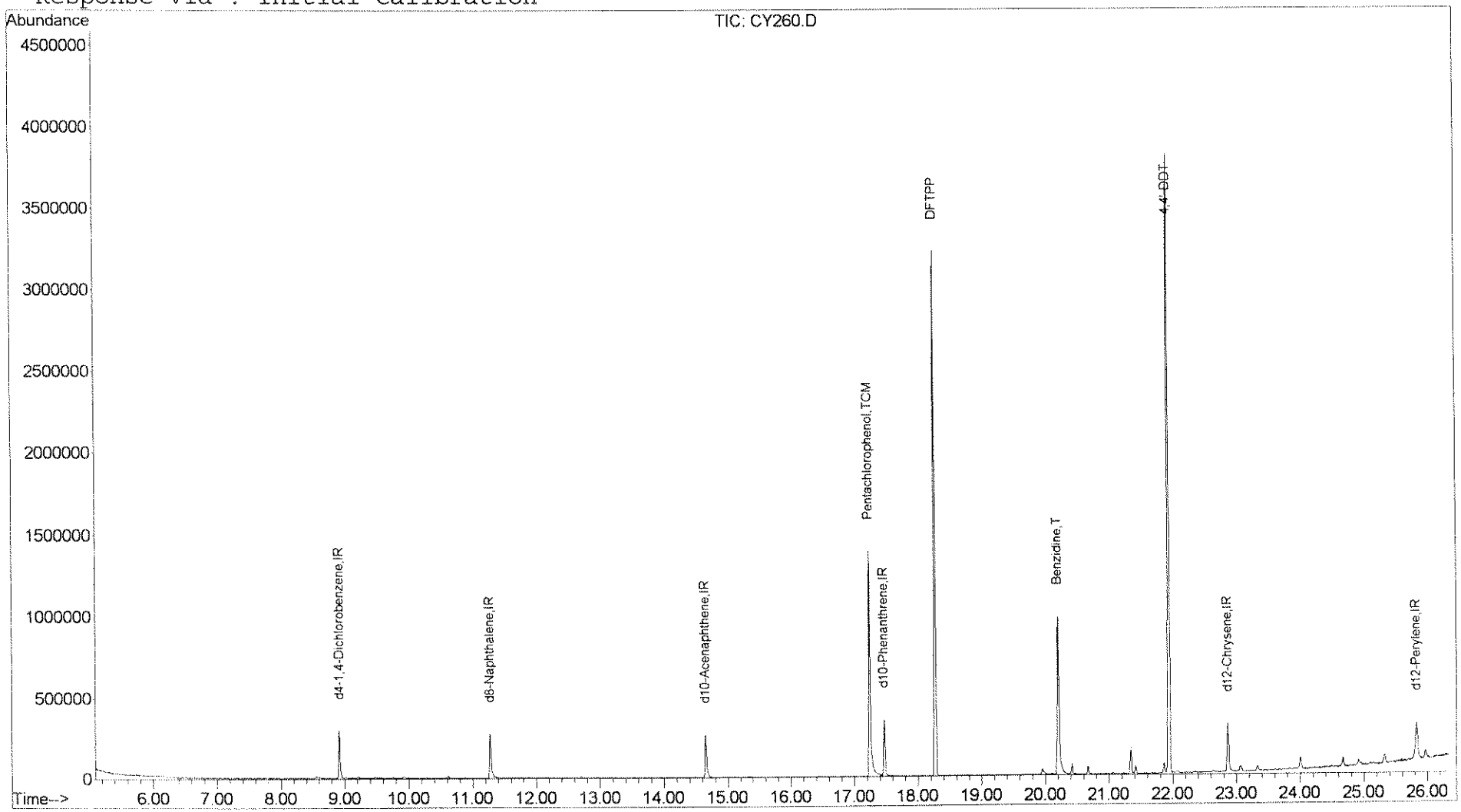
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	8.92	152	55085	1.00	ppb	0.00
2) d8-Naphthalene	11.28	136	198362	1.00	ppb	0.00
3) d10-Acenaphthene	14.65	164	101315	1.00	ppb	0.00
4) d10-Phenanthrene	17.47	188	203776	1.00	ppb	0.00
10) d12-Chrysene	22.86	240	205470	1.00	ppb	0.00
12) d12-Perylene	25.83	264	164589	1.00	ppb	0.00
Target Compounds						Qvalue
5) Pentachlorophenol	17.24	266	253680	9.79	ppb	98
6) DFTPP	18.27	198	418411	11.80	ppb	96
9) 4,4'-DDT	21.94	235	949163	9.96	ppb	97
11) Benzidine	20.20	184	686471	6.34	ppb	98

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D Vial: 1
Acq On : 8 Jul 2008 10:03 am Operator: J.Wu
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:29 2008 Quant Results File: DFTPPLVI.RES

Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Initial Calibration



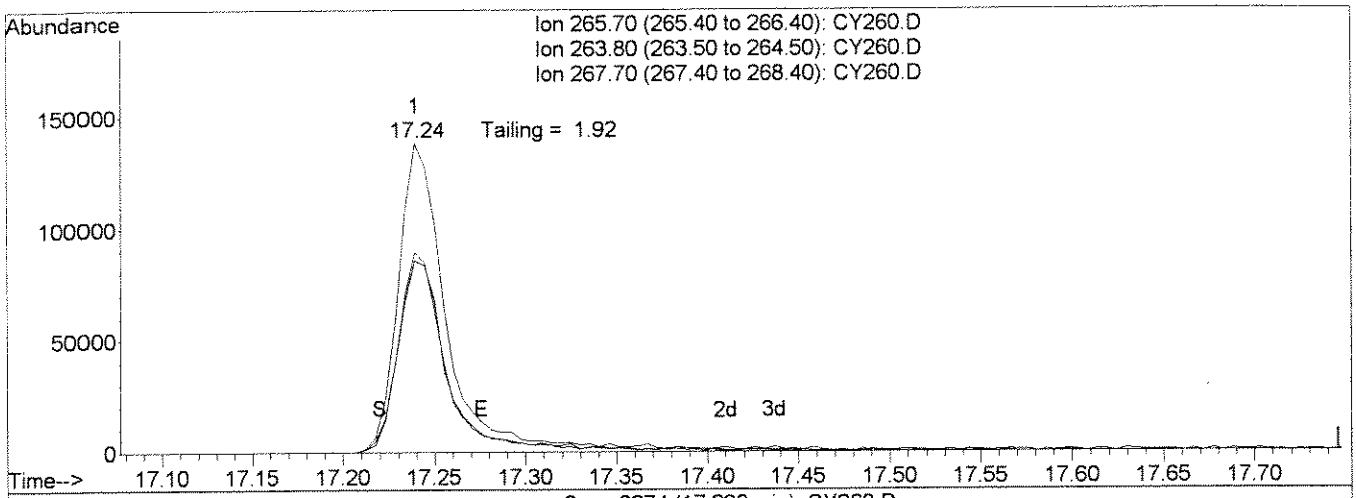
Quantitation Report (Qedit)

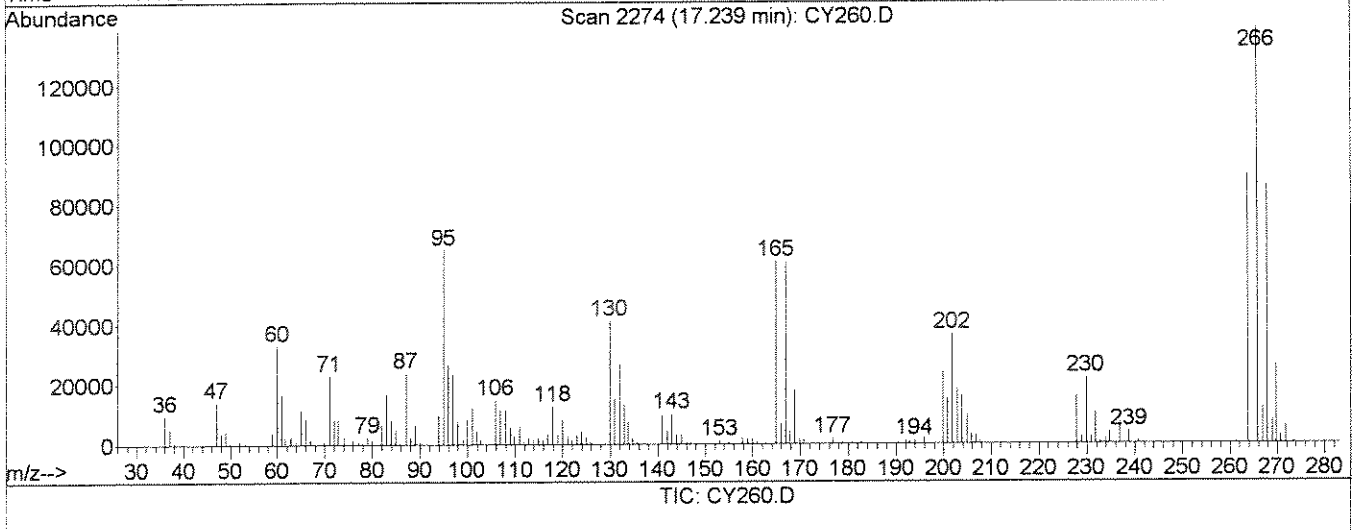
Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D
Acq On : 8 Jul 2008 10:03 am
Sample : TUNE CHECK
Misc : 20 ng DFTPP
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:29 2008

Vial: 1
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Single Level Calibration





TIC: CY260.D

(5) Pentachlorophenol (TCM)

17.24min 9.79ppb

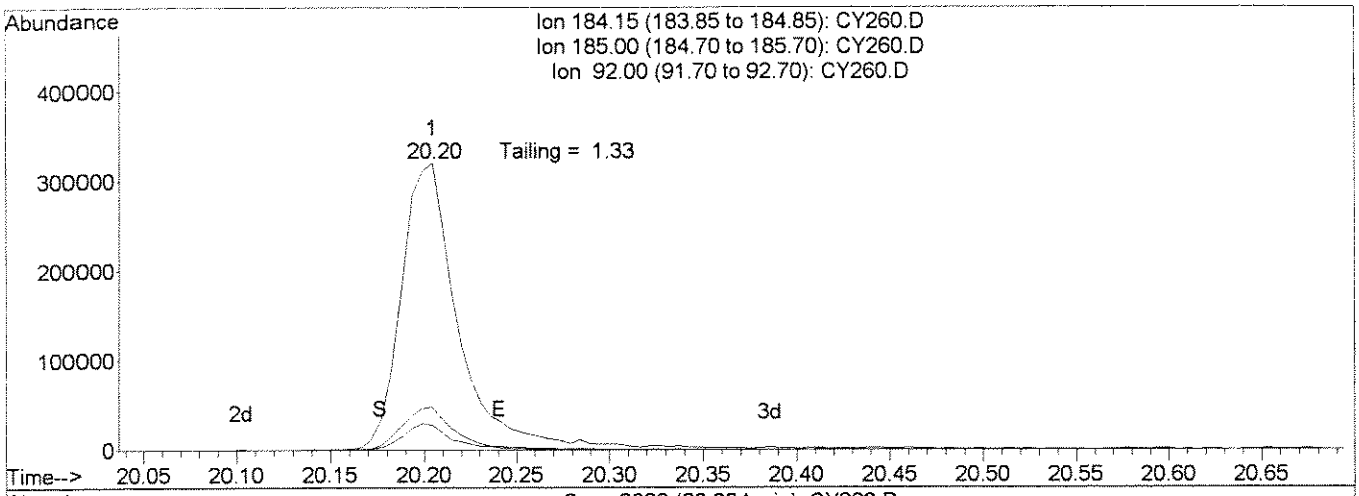
response 253680

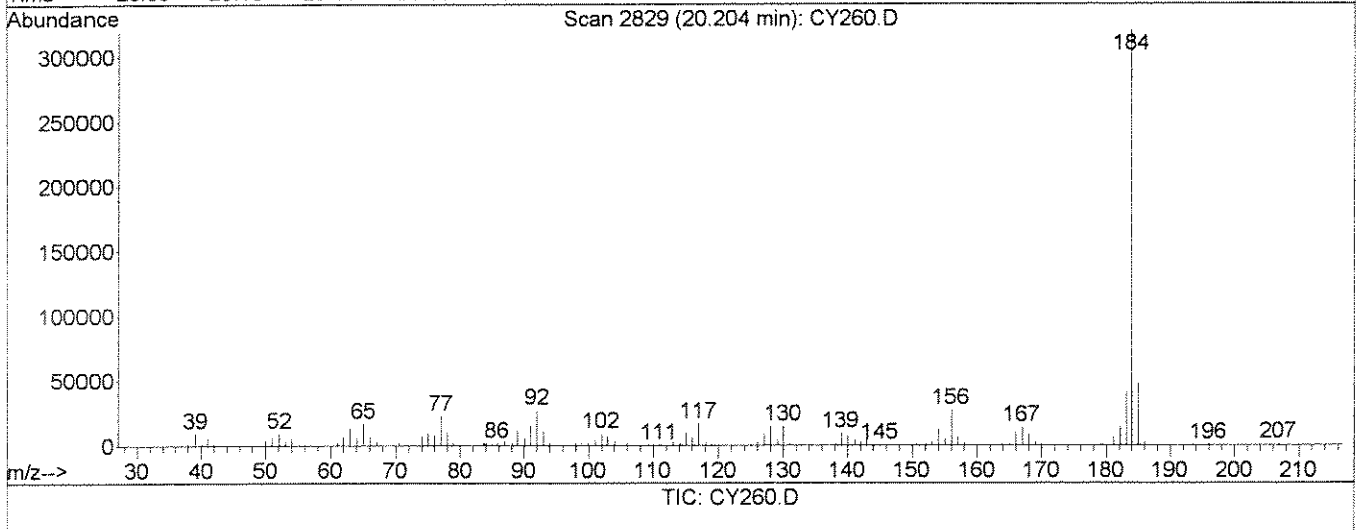
Ion	Exp%	Act%
265.70	100	100
263.80	63.80	64.27
267.70	65.10	61.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D Vial: 1
Acq On : 8 Jul 2008 10:03 am Operator: J.Wu
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:29 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Mon Jun 16 10:40:11 2008
Response via : Single Level Calibration





TIC: CY260.D

(11) Benzidine (T)

20.20min 6.34ppb

response 686471

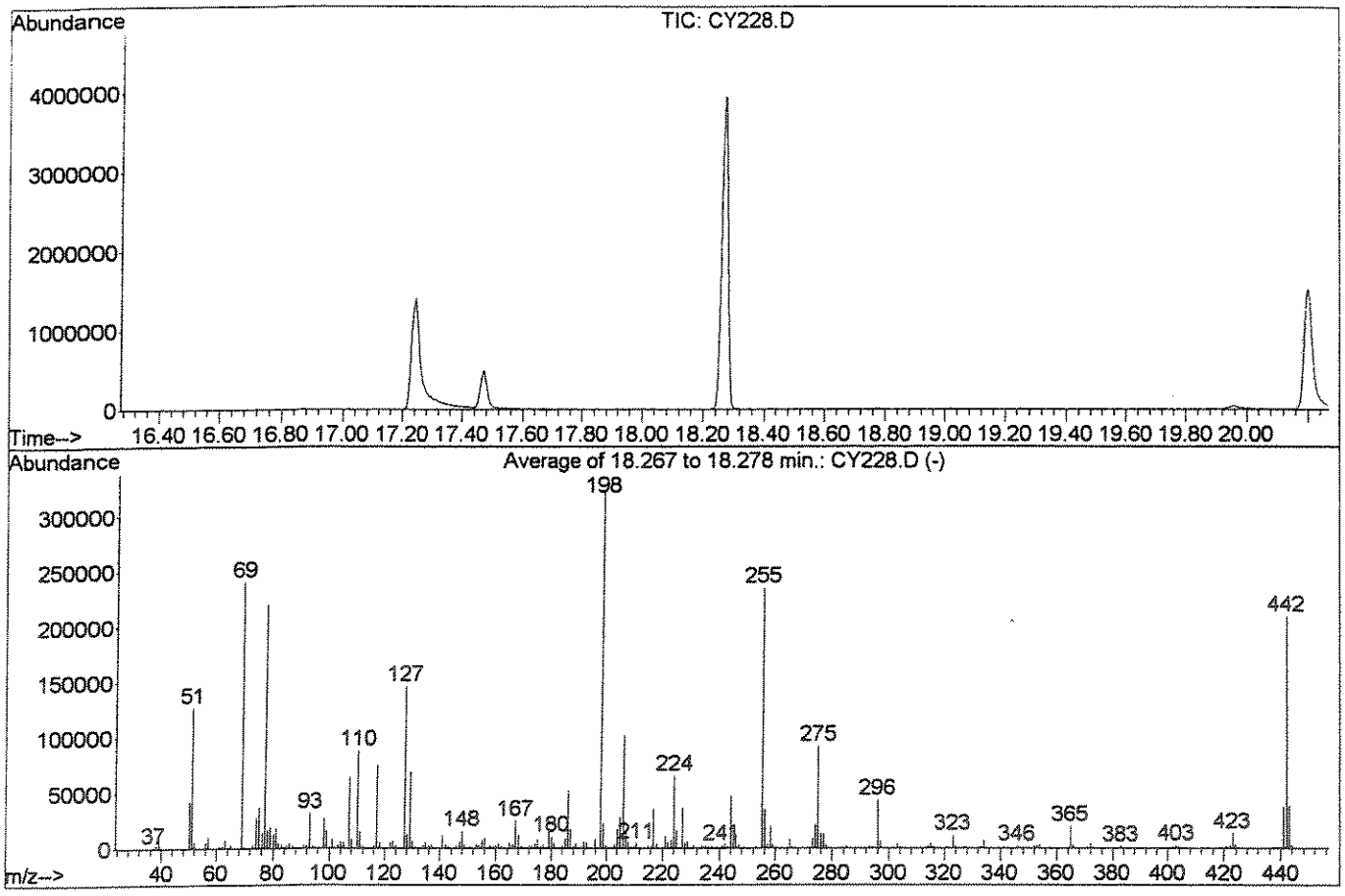
Ion	Exp%	Act%
184.15	100	100
185.00	14.60	14.84
92.00	7.50	8.71
0.00	0.00	0.00

SEMIVOLATILE ORGANICS

RAW QC DATA

DFTPP

Data File : J:\ACQUDATA\5973B\DATA\070108\CY228.D Vial: 1
Acq On : 1 Jul 2008 9:07 am Operator: Z.Miao
Sample : TUNE CHECK Inst : 5973-B
Misc : 20 ng DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS



Spectrum Information: Average of 18.267 to 18.278 min.

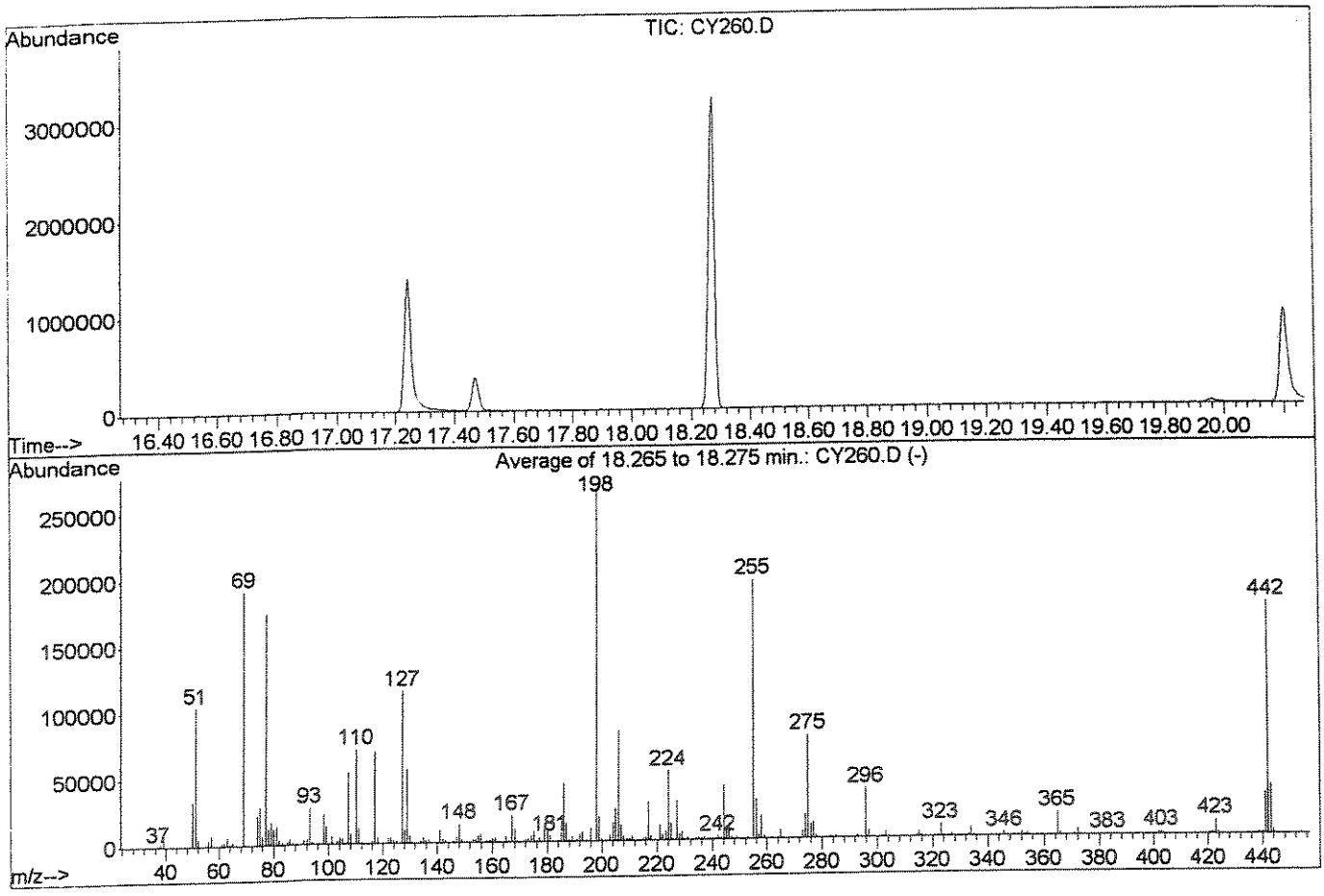
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.3	127035	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	74.5	241173	PASS
70	69	0.00	2	0.7	1587	PASS
127	198	40	60	45.2	146216	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	323563	PASS
199	198	5	9	6.8	21933	PASS
275	198	10	30	28.5	92176	PASS
365	198	1	100	6.1	19616	PASS
441	443	0.01	100	96.2	37597	PASS
442	198	40	100	64.8	209621	PASS
443	442	17	23	18.6	39064	PASS

CY228.D DFTPPLVI.M Wed Jul 02 12:58:48 2008

DFTPP

Data File : J:\ACQUDATA\5973B\DATA\070808\CY260.D
Acq On : 8 Jul 2008 10:03 am
Sample : TUNE CHECK
Misc : 20 ng DFTPP
MS Integration Params: RTEINT.P
Method : J:\ACQUDATA\5973B\METHODS\DFTPPLVI.M (RTE Integrator)
Title : 8270 BNA ANALYSIS

Vial: 1
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00



AutoFind: Scans 2466, 2467, 2468; Background Corrected with Scan 2458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.4	104331	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	72.2	191147	PASS
70	69	0.00	2	0.3	636	PASS
127	198	40	60	43.4	114907	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	264896	PASS
199	198	5	9	6.8	18033	PASS
275	198	10	30	29.3	77619	PASS
365	198	1	100	6.5	17305	PASS
441	443	0.01	100	83.0	30979	PASS
442	198	40	100	66.3	175552	PASS
443	442	17	23	21.3	37320	PASS

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1115381 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	0.020 J	UG/L
ACENAPHTHYLENE	0.20	0.20 U	UG/L
ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)ANTHRACENE	0.20	0.20 U	UG/L
BENZO(A)PYRENE	0.20	0.20 U	UG/L
BENZO(B)FLUORANTHENE	0.20	0.20 U	UG/L
BENZO(G,H,I)PERYLENE	0.20	0.20 U	UG/L
BENZO(K)FLUORANTHENE	0.20	0.20 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	5.0 U	UG/L
DI-N-BUTYLPHTHALATE	5.0	5.0 U	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	0.20 U	UG/L
CHRYSENE	0.20	0.20 U	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	0.20 U	UG/L
DIETHYLPHTHALATE	5.0	0.22 J	UG/L
DIMETHYL PHTHALATE	5.0	5.0 U	UG/L
1,4-DIOXANE	2.0	2.0 U	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	5.0 U	UG/L
FLUORANTHENE	0.20	0.20 U	UG/L
FLUORENE	0.20	0.20 U	UG/L
HEXACHLOROBENZENE	0.20	0.20 U	UG/L
2-METHYLNAPHTHALENE	0.20	0.20 U	UG/L
NAPHTHALENE	0.20	0.080 J	UG/L
NITROBENZENE	0.20	0.20 U	UG/L
OCTACHLOROSTYRENE	0.20	0.20 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.0 U	UG/L
PHENANTHRENE	0.20	0.040 J	UG/L
PYRENE	0.20	0.20 U	UG/L
PYRIDINE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	96	%
NITROBENZENE-d5	(45 - 135 %)	83	%
2-FLUOROBIPHENYL	(45 - 135 %)	80	%

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY262.D Vial: 2
Acq On : 8 Jul 2008 2:06 pm Operator: J.Wu
Sample : 1115381 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA BLK Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 16:14 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	52256	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	186653	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	118517	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	179880	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	177022	1.00	ppm	0.00
33) d12-Perylene	19.79	264	134285	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	190345	1.65	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 82.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	254488	1.60	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 80.00%			
28) SURR6,TERPHENYL-D14	15.63	244	292161	1.91	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 95.50%			
Target Compounds						Qvalue
7) Naphthalene	11.47	128	16205	0.08	ppm	94
14) Acenaphthene	13.06	153	2732	0.02	ppm	91
17) Diethylphthalate	13.37	149	32090	0.22	ppm	95
20) Phenanthrene	14.24	178	6128	0.04	ppm	92

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

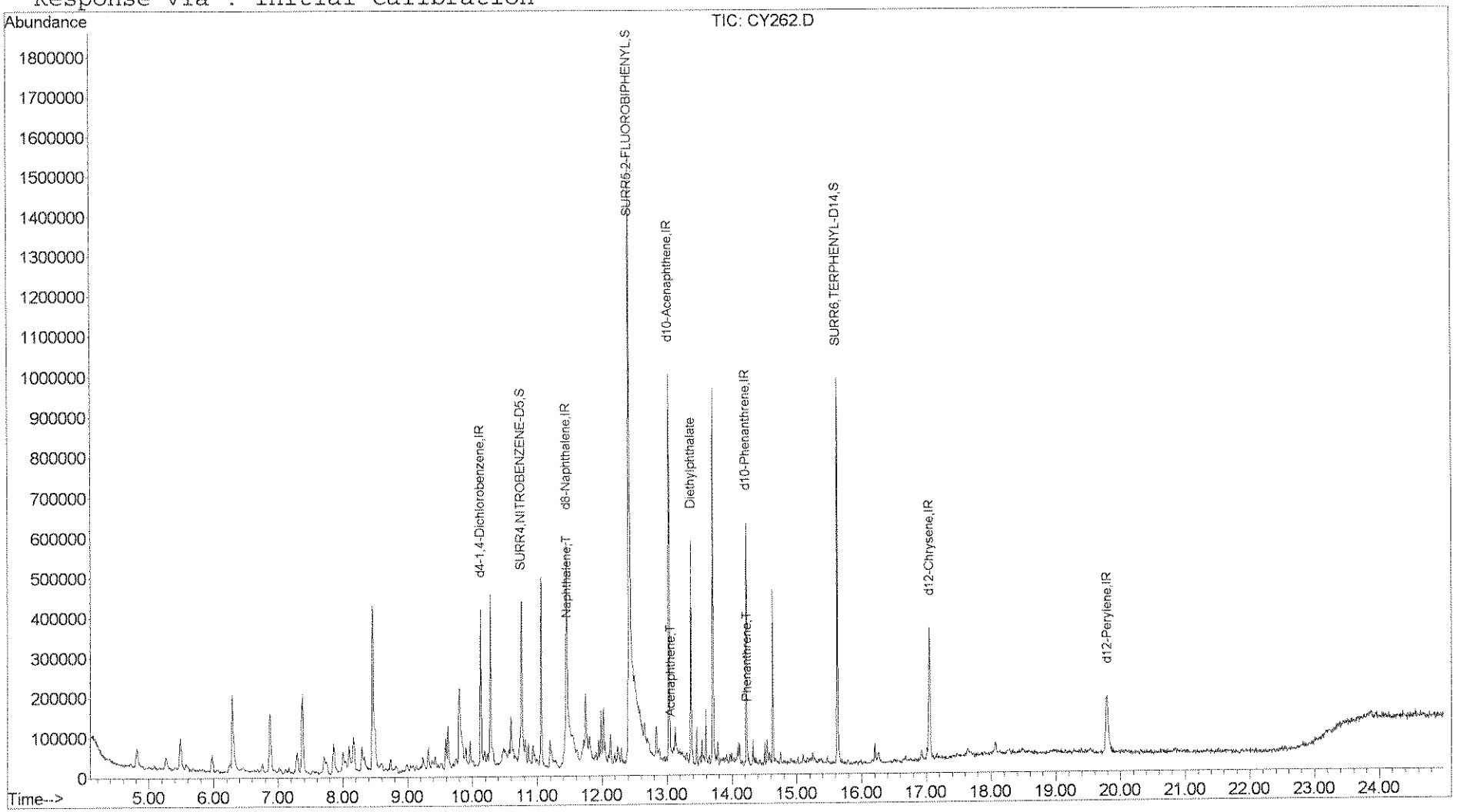
Quantitation Report

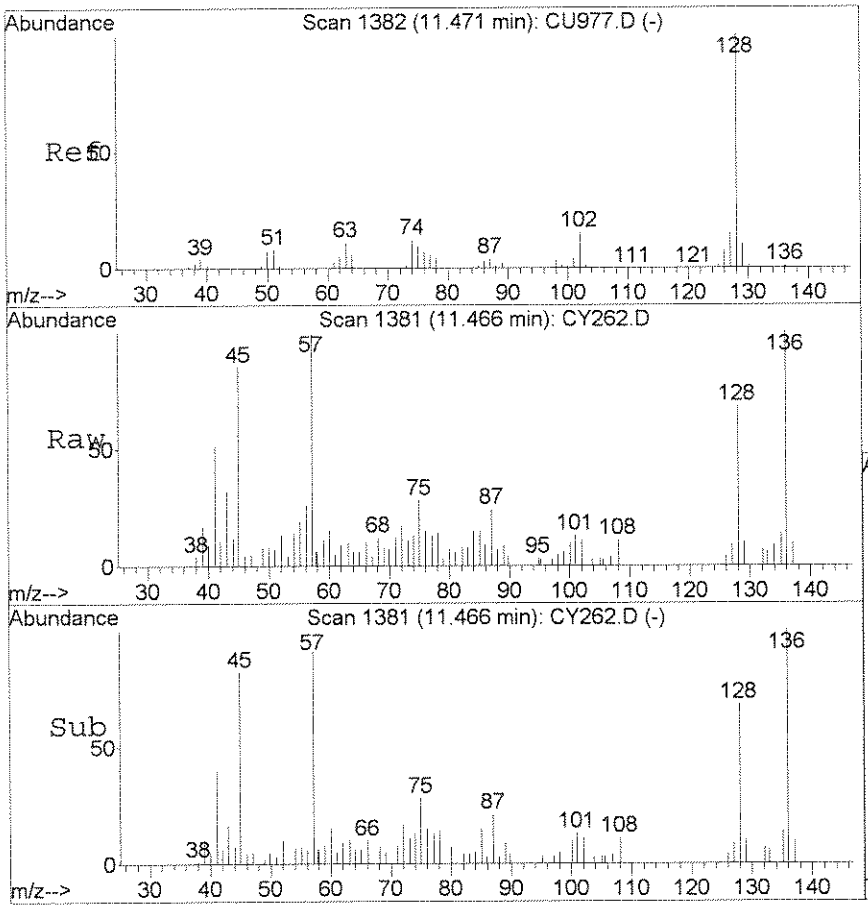
Data File : J:\ACQUDATA\5973B\DATA\070808\CY262.D
Acq On : 8 Jul 2008 2:06 pm
Sample : 1115381 1.0
Misc : 07/07/2008 1.0 ENSR 8270.NEVA BLK
MS Integration Params: RTEINT.P
Quant Time: Jul 8 16:14 2008

Vial: 2
Operator: J.Wu
Inst : 5973-B
Multiplr: 1.00

Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

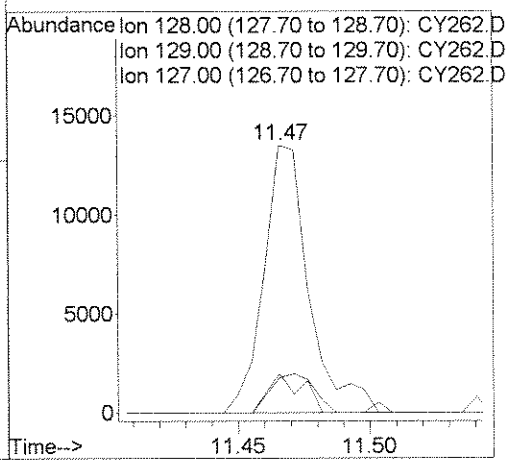


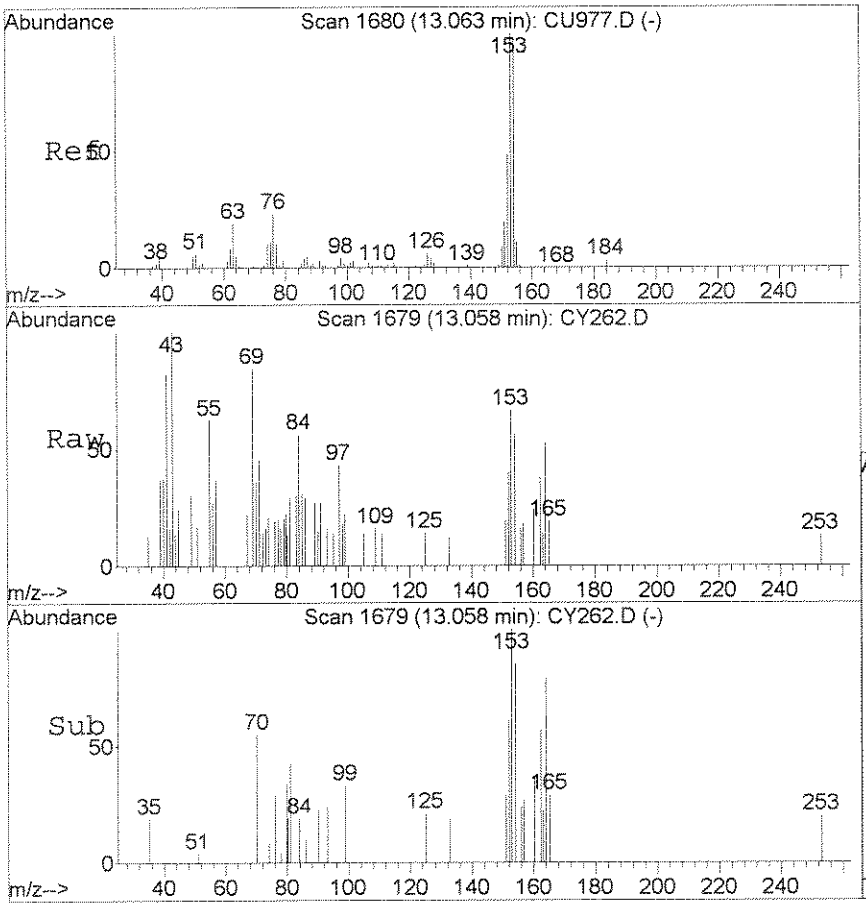


#7
Naphthalene
Concen: 0.08 ppm
RT: 11.47 min Scan# 1381
Delta R.T. 0.00 min
Lab File: CY262.D
Acq: 8 Jul 2008 2:06 pm

Tgt Ion:128 Resp: 16205

Ion	Ratio	Lower	Upper
128	100		
129	14.7	0.0	41.6
127	13.2	0.0	44.7

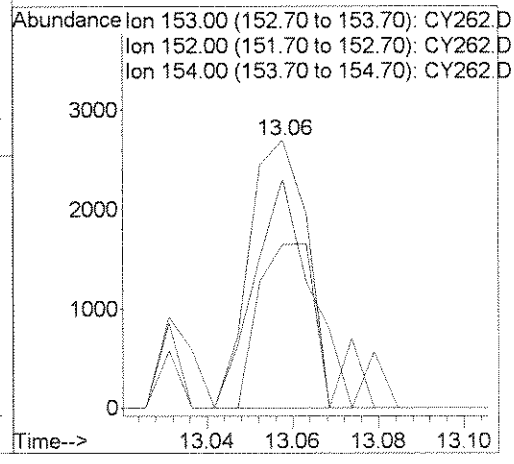


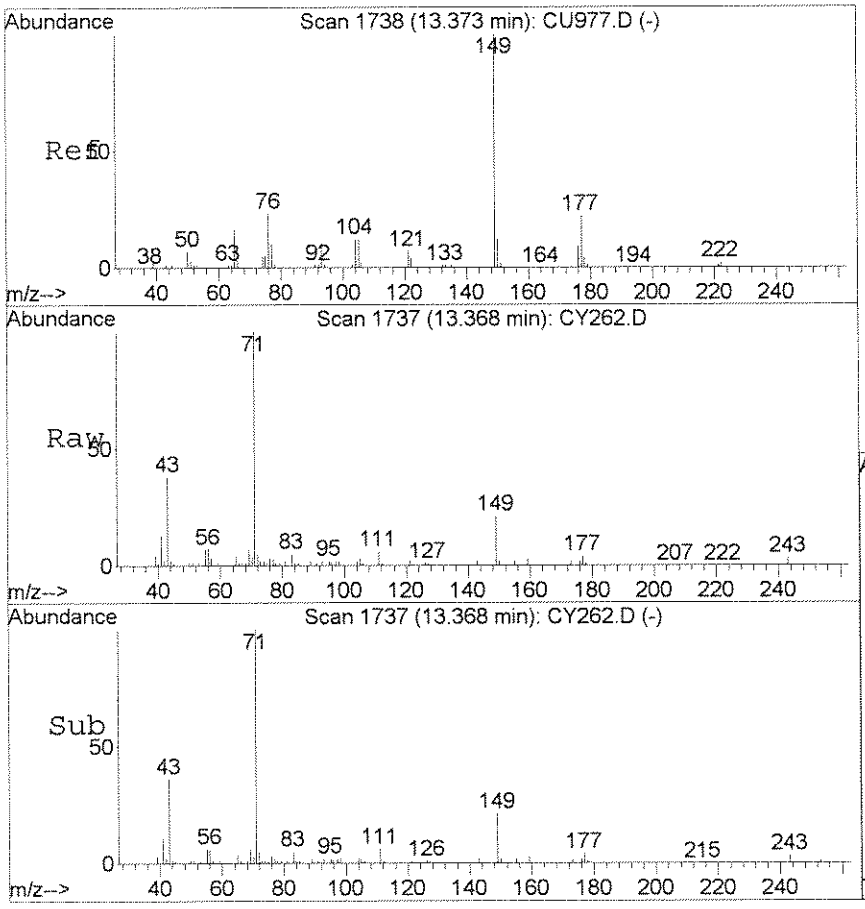


#14
Acenaphthene
Concen: 0.02 ppm
RT: 13.06 min Scan# 1679
Delta R.T. 0.00 min
Lab File: CY262.D
Acq: 8 Jul 2008 2:06 pm

Tgt Ion:153 Resp: 2732

Ion	Ratio	Lower	Upper
153	100		
152	61.0	26.4	66.4
154	85.5	67.9	107.9

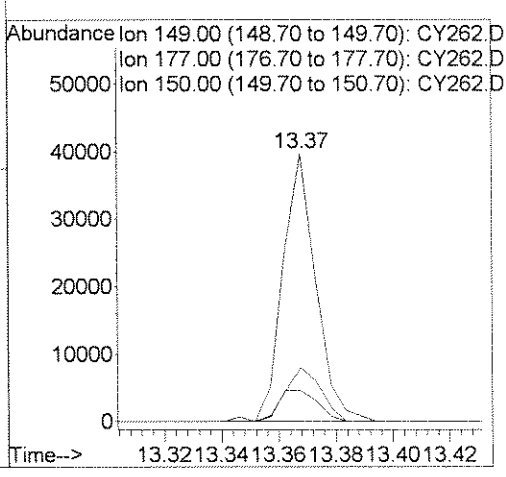


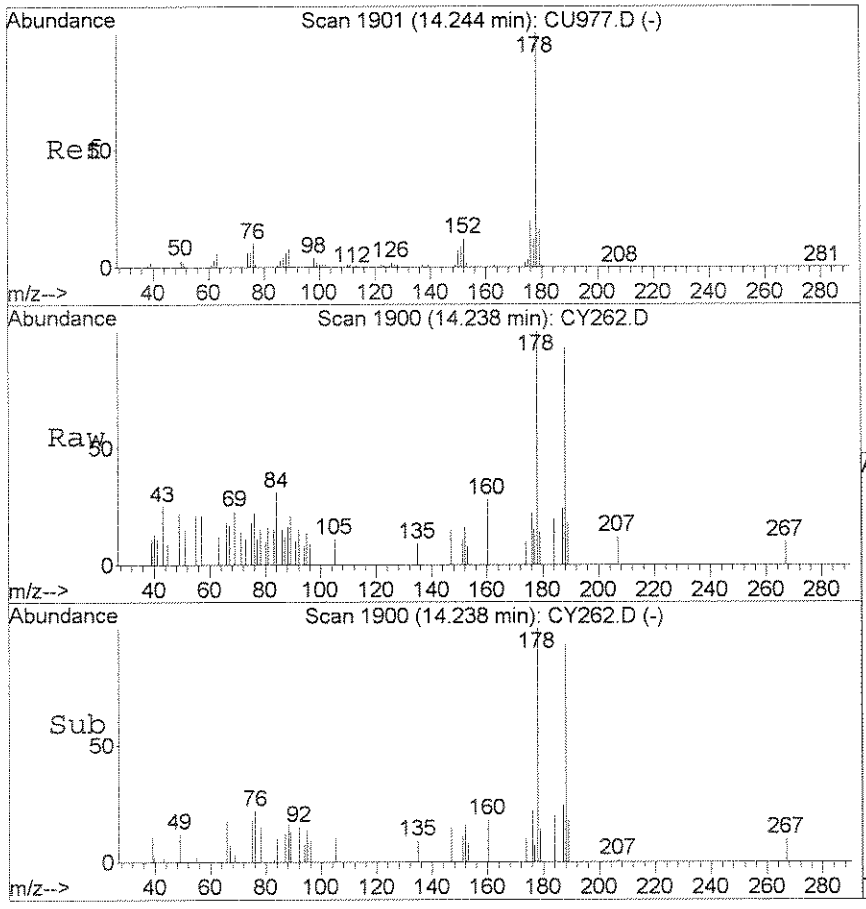


#17
Diethylphthalate
Concen: 0.22 ppm
RT: 13.37 min Scan# 1737
Delta R.T. 0.00 min
Lab File: CY262.D
Acq: 8 Jul 2008 2:06 pm

Tgt Ion:149 Resp: 32090

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.0	29.6
150	11.6	9.0	16.6

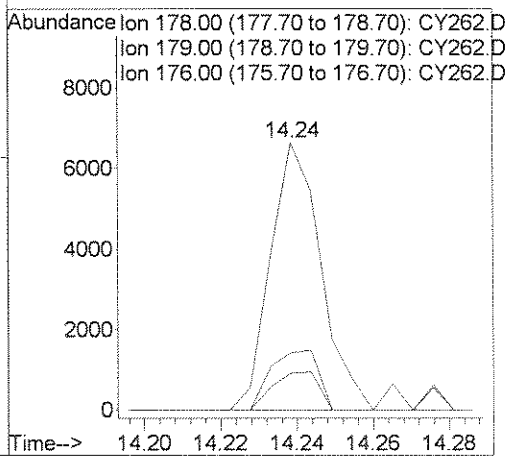




#20
Phenanthrene
Concen: 0.04 ppm
RT: 14.24 min Scan# 1900
Delta R.T. 0.00 min
Lab File: CY262.D
Acq: 8 Jul 2008 2:06 pm

Tgt Ion:178 Resp: 6128

Ion	Ratio	Lower	Upper
178	100		
179	9.1	0.0	34.4
176	21.6	0.0	39.8



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : BLANK SPIKE

Date Sampled : **Order #:** 1115382 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	3.2	UG/L
ACENAPHTHYLENE	0.20	3.2	UG/L
ANTHRACENE	0.20	3.5	UG/L
BENZO(A)ANTHRACENE	0.20	3.6	UG/L
BENZO(A)PYRENE	0.20	3.4	UG/L
BENZO(B)FLUORANTHENE	0.20	4.0	UG/L
BENZO(G,H,I)PERYLENE	0.20	4.0	UG/L
BENZO(K)FLUORANTHENE	0.20	4.0	UG/L
BUTYL BENZYL PHTHALATE	5.0	3.8 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.7 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	4.3	UG/L
CHRYSENE	0.20	3.6	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	4.0	UG/L
DIETHYLPHTHALATE	5.0	4.0 J	UG/L
DIMETHYL PHTHALATE	5.0	3.7 J	UG/L
1,4-DIOXANE	2.0	1.8 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	3.8 J	UG/L
FLUORANTHENE	0.20	3.7	UG/L
FLUORENE	0.20	3.5	UG/L
HEXACHLOROBENZENE	0.20	3.2	UG/L
2-METHYLNAPHTHALENE	0.20	2.8	UG/L
NAPHTHALENE	0.20	3.0	UG/L
NITROBENZENE	0.20	3.2	UG/L
OCTACHLOROSTYRENE	0.20	3.2	UG/L
DI-N-OCTYL PHTHALATE	5.0	3.8 J	UG/L
PHENANTHRENE	0.20	3.5	UG/L
PYRENE	0.20	3.5	UG/L
PYRIDINE	2.0	1.2 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	93	%
NITROBENZENE-d5	(45 - 135 %)	79	%
2-FLUOROBIPHENYL	(45 - 135 %)	78	%

00399

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY263.D Vial: 3
Acq On : 8 Jul 2008 2:53 pm Operator: J.Wu
Sample : 1115382 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 15:18 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	55747	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	203882	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	139102	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	206861	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	217942	1.00	ppm	0.00
33) d12-Perylene	19.78	264	177659	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	199079	1.58	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 79.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	289723	1.55	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 77.50%			
28) SURR6,TERPHENYL-D14	15.63	244	349987	1.86	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 93.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	97141	1.78	ppm	92
3) Pyridine	5.38	79	129146	1.19	ppm	91
6) Nitrobenzene	10.78	77	421542	3.20	ppm	97
7) Naphthalene	11.47	128	623073	2.98	ppm	97
8) 2-Methylnaphthalene	12.10	142	417324	2.81	ppm	99
9) 1-Methylnaphthalene	12.20	142	411987	2.93	ppm	96
12) Acenaphthylene	12.90	152	738355	3.19	ppm	100
13) Dimethyl phthalate	12.78	163	615825	3.67	ppm	99
14) Acenaphthene	13.06	153	471970	3.22	ppm	96
15) Dibenzofuran	13.19	168	694490	3.18	ppm	99
16) Fluorene	13.49	166	596447	3.47	ppm	98
17) Diethylphthalate	13.37	149	693103	3.98	ppm	98
19) Hexachlorobenzene	13.99	284	182765	3.23	ppm	99
20) Phenanthrene	14.24	178	688719	3.50	ppm	98
21) Anthracene	14.28	178	666625	3.48	ppm	96
22) Carbazole	14.38	167	537682	3.48	ppm	96
23) Octachlorostyrene	15.12	380	41858	3.25	ppm	89
24) Di-n-butylphthalate	14.63	149	1083611	4.70	ppm	97
25) Fluoranthene	15.27	202	856366	3.72	ppm	98
27) Pyrene	15.51	202	873210	3.47	ppm	99
29) Butyl benzyl phthalate	16.21	149	419797	3.81	ppm	96
30) bis(2-Ethylhexyl)phthalate	17.02	149	586937	3.78	ppm	98
31) Benzo(a)anthracene	17.02	228	846751	3.55	ppm	94
32) Chrysene	17.08	228	846425	3.65	ppm	99
34) Di-n-octyl phthalate	18.01	149	908687	3.77	ppm	98
35) Benzo(b)Fluoranthene	18.91	252	928018	3.95	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY263.D Vial: 3
Acq On : 8 Jul 2008 2:53 pm Operator: J.Wu
Sample : 1115382 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 15:18 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

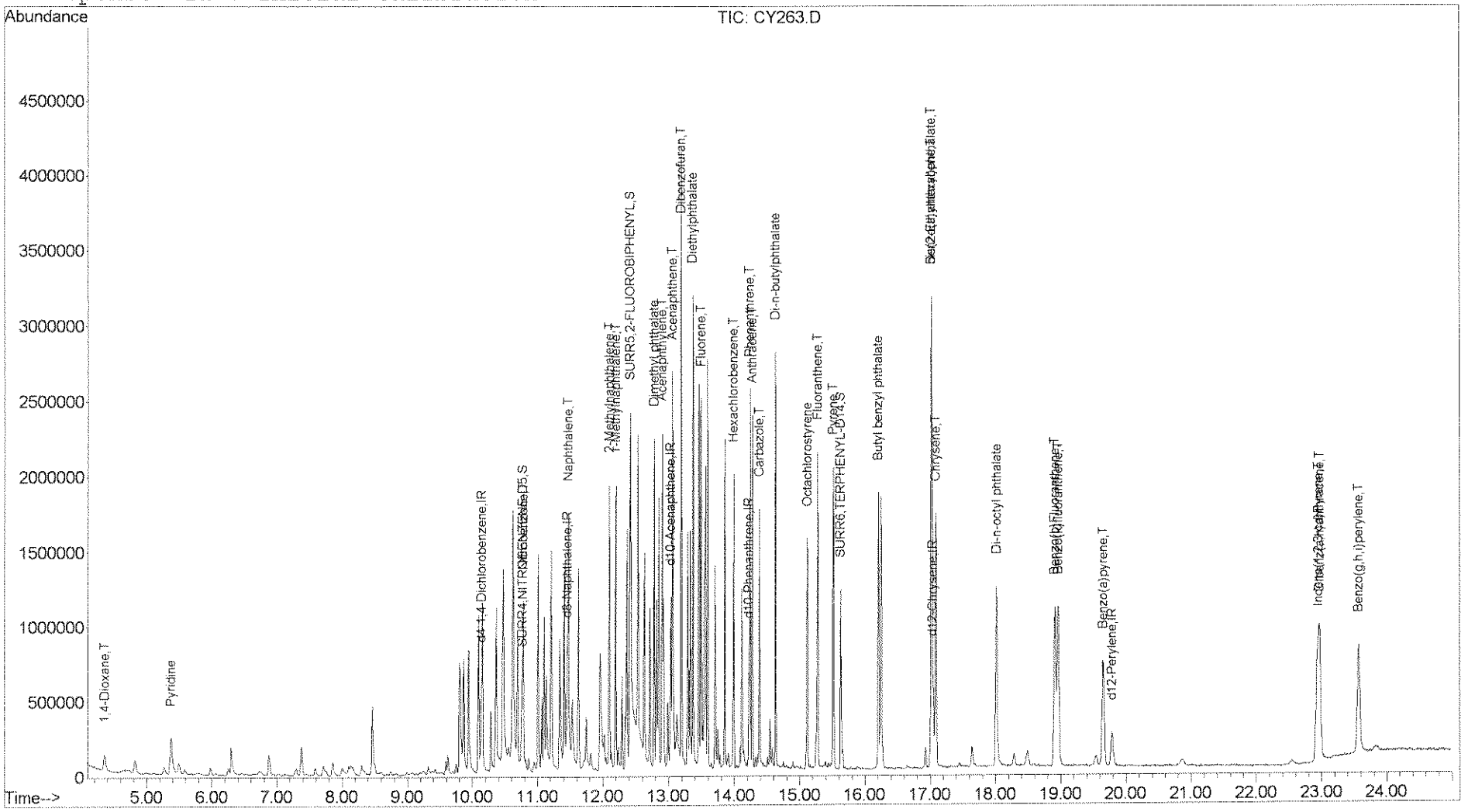
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.95	252	873417	4.05	ppm	98
37)	Benzo(a)pyrene	19.65	252	692910	3.45	ppm	96
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	954386	4.34	ppm	97
39)	Dibenz(a,h)anthracene	22.97	278	776486	3.95	ppm	98
40)	Benzo(g,h,i)perylene	23.56	276	812022	3.96	ppm	100

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY263.D Vial: 3
Acq On : 8 Jul 2008 2:53 pm Operator: J.Wu
Sample : 1115382 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 15:18 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : **Order #:** 1115383 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	0.20	3.3	UG/L
ACENAPHTHYLENE	0.20	3.4	UG/L
ANTHRACENE	0.20	3.4	UG/L
BENZO(A)ANTHRACENE	0.20	3.8	UG/L
BENZO(A)PYRENE	0.20	3.5	UG/L
BENZO(B)FLUORANTHENE	0.20	3.9	UG/L
BENZO(G,H,I)PERYLENE	0.20	4.0	UG/L
BENZO(K)FLUORANTHENE	0.20	4.3	UG/L
BUTYL BENZYL PHTHALATE	5.0	3.9 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.5 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	4.2	UG/L
CHRYSENE	0.20	3.8	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	4.0	UG/L
DIETHYLPHTHALATE	5.0	4.1 J	UG/L
DIMETHYL PHTHALATE	5.0	3.9 J	UG/L
1,4-DIOXANE	2.0	1.9 J	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	3.9 J	UG/L
FLUORANTHENE	0.20	3.8	UG/L
FLUORENE	0.20	3.6	UG/L
HEXACHLOROBENZENE	0.20	3.2	UG/L
2-METHYLNAPHTHALENE	0.20	3.0	UG/L
NAPHTHALENE	0.20	3.1	UG/L
NITROBENZENE	0.20	3.3	UG/L
OCTACHLOROSTYRENE	0.20	3.0	UG/L
DI-N-OCTYL PHTHALATE	5.0	3.8 J	UG/L
PHENANTHRENE	0.20	3.6	UG/L
PYRENE	0.20	3.7	UG/L
PYRIDINE	2.0	1.1 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	100	%
NITROBENZENE-d5	(45 - 135 %)	85	%
2-FLUOROBIPHENYL	(45 - 135 %)	81	%

00403

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY264.D Vial: 4
Acq On : 8 Jul 2008 3:41 pm Operator: J.Wu
Sample : 1115383 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 16:06 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	52465	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	197176	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	132495	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	205722	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	207494	1.00	ppm	0.00
33) d12-Perylene	19.78	264	174194	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	205388	1.69	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 84.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	287259	1.61	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 80.50%			
28) SURR6,TERPHENYL-D14	15.63	244	355753	1.99	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 99.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.35	88	96382	1.87	ppm	83
3) Pyridine	5.38	79	114672	1.12	ppm	97
6) Nitrobenzene	10.77	77	421060	3.31	ppm	96
7) Naphthalene	11.47	128	620033	3.07	ppm	98
8) 2-Methylnaphthalene	12.09	142	423107	2.95	ppm	98
9) 1-Methylnaphthalene	12.20	142	414291	3.04	ppm	93
12) Acenaphthylene	12.90	152	739134	3.35	ppm	99
13) Dimethyl phthalate	12.78	163	630386	3.94	ppm	98
14) Acenaphthene	13.06	153	462910	3.31	ppm	97
15) Dibenzofuran	13.19	168	693559	3.33	ppm	99
16) Fluorene	13.49	166	597313	3.65	ppm	99
17) Diethylphthalate	13.37	149	684166	4.12	ppm	99
19) Hexachlorobenzene	13.99	284	183325	3.25	ppm	88
20) Phenanthrene	14.24	178	711405	3.63	ppm	98
21) Anthracene	14.27	178	655641	3.44	ppm	98
22) Carbazole	14.39	167	523994	3.41	ppm	99
23) Octachlorostyrene	15.12	380	38845	3.04	ppm	92
24) Di-n-butylphthalate	14.63	149	1024707	4.47	ppm	98
25) Fluoranthene	15.27	202	880426	3.84	ppm	99
27) Pyrene	15.51	202	880513	3.68	ppm	97
29) Butyl benzyl phthalate	16.21	149	407199	3.88	ppm	98
30) bis(2-Ethylhexyl)phthalate	17.02	149	578319	3.91	ppm	98
31) Benzo(a)anthracene	17.02	228	868045	3.82	ppm	97
32) Chrysene	17.08	228	832709	3.77	ppm	98
34) Di-n-octyl phthalate	18.01	149	902243	3.82	ppm	98
35) Benzo(b)Fluoranthene	18.91	252	895791	3.89	ppm	97

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

00404

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY264.D Vial: 4
Acq On : 8 Jul 2008 3:41 pm Operator: J.Wu
Sample : 1115383 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 16:06 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

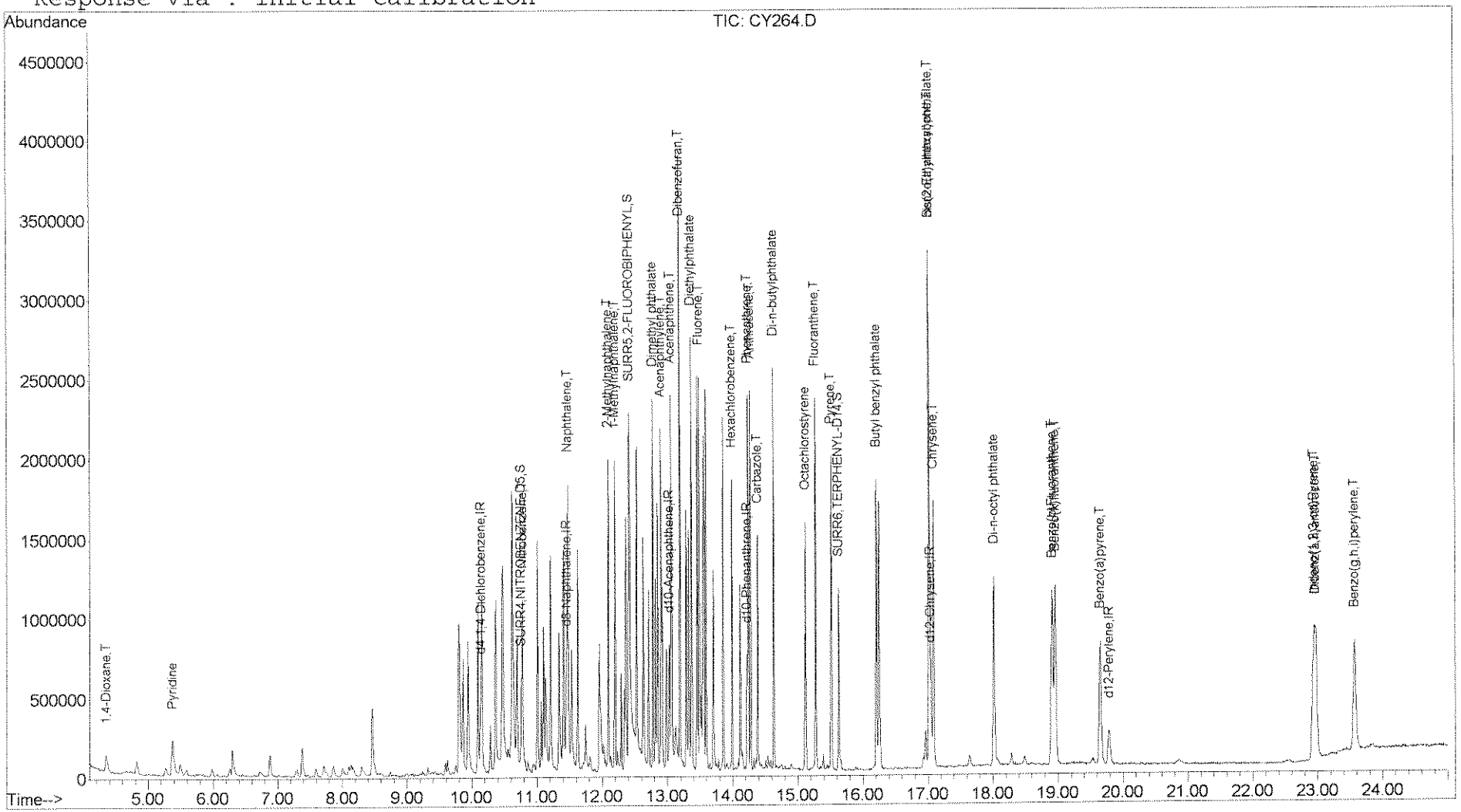
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	915847	4.33	ppm	98
37)	Benzo(a)pyrene	19.65	252	685473	3.48	ppm	99
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	916952	4.25	ppm	96
39)	Dibenz(a,h)anthracene	22.97	278	763943	3.97	ppm	97
40)	Benzo(g,h,i)perylene	23.56	276	802093	3.99	ppm	99

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY264.D Vial: 4
Acq On : 8 Jul 2008 3:41 pm Operator: J.Wu
Sample : 1115383 1.0 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA LCSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 16:06 2008 Quant Results File: LVI0701.RES

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 1115384 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 163571

DATE EXTRACTED : 07/07/08
DATE ANALYZED : 07/08/08
ANALYTICAL DILUTION: 0.94

ANALYTE	PQL	RESULT	UNITS
ACENAPHTHENE	0.20	0.35	UG/L
ACENAPHTHYLENE	0.20	0.10 J	UG/L
ANTHRACENE	0.20	0.13 J	UG/L
BENZO(A)ANTHRACENE	0.20	0.38	UG/L
BENZO(A)PYRENE	0.20	0.047 J	UG/L
BENZO(B)FLUORANTHENE	0.20	3.7	UG/L
BENZO(G,H,I)PERYLENE	0.20	1.7	UG/L
BENZO(K)FLUORANTHENE	0.20	0.84	UG/L
BUTYL BENZYL PHTHALATE	5.0	3.7 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.1 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	2.4	UG/L
CHRYSENE	0.20	1.4	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	1.4	UG/L
DIETHYLPHTHALATE	5.0	4.0 J	UG/L
DIMETHYL PHTHALATE	5.0	3.8 J	UG/L
1,4-DIOXANE	2.0	3.2	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	3.4 J	UG/L
FLUORANTHENE	0.20	2.1	UG/L
FLUORENE	0.20	3.4	UG/L
HEXACHLOROBENZENE	0.20	2.8	UG/L
2-METHYLNAPHTHALENE	0.20	0.69	UG/L
NAPHTHALENE	0.20	2.5	UG/L
NITROBENZENE	0.20	4.3	UG/L
OCTACHLOROSTYRENE	0.20	2.3	UG/L
DI-N-OCTYL PHTHALATE	5.0	5.4	UG/L
PHENANTHRENE	0.20	2.1	UG/L
PYRENE	0.20	0.42	UG/L
PYRIDINE	2.0	1.3 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	96	%
NITROBENZENE-d5	(45 - 135 %)	89	%
2-FLUOROBIPHENYL	(45 - 135 %)	89	%

00407

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY268.D Vial: 8
Acq On : 8 Jul 2008 6:55 pm Operator: J.Wu
Sample : 1115384 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:33 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	60469	1.00	ppm	-0.01
4) d8-Naphthalene	11.45	136	217890	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	146645	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	252061	1.00	ppm	0.00
26) d12-Chrysene	17.04	240	237150	1.00	ppm	0.00
33) d12-Perylene	19.78	264	125207	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	239065	1.78	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 89.00%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	348297	1.77	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 88.50%			
28) SURR6,TERPHENYL-D14	15.63	244	391589	1.91	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 95.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.19	88	204368	3.45	ppm	93
3) Pyridine	5.29	79	168997m	1.43	ppm	
6) Nitrobenzene	10.77	77	639804	4.55	ppm	93
7) Naphthalene	11.47	128	584541	2.62	ppm	98
8) 2-Methylnaphthalene	12.10	142	115462	0.73	ppm	95
9) 1-Methylnaphthalene	12.19	142	148917	0.99	ppm	97
12) Acenaphthylene	12.90	152	26470	0.11	ppm	98
13) Dimethyl phthalate	12.78	163	715881	4.04	ppm	98
14) Acenaphthene	13.06	153	57333	0.37	ppm	97
15) Dibenzofuran	13.19	168	781310	3.39	ppm	99
16) Fluorene	13.49	166	647361	3.58	ppm	98
17) Diethylphthalate	13.37	149	776693	4.23	ppm	99
19) Hexachlorobenzene	13.99	284	205143	2.97	ppm	97
20) Phenanthrene	14.24	178	532724	2.22	ppm	98
21) Anthracene	14.28	178	32187	0.14	ppm	96
22) Carbazole	14.38	167	61054	0.32	ppm	97
23) Octachlorostyrene	15.11	380	38179	2.45	ppm	93
24) Di-n-butylphthalate	14.63	149	1229380	4.37	ppm	97
25) Fluoranthene	15.27	202	616153	2.20	ppm	98
27) Pyrene	15.52	202	124438	0.45	ppm	98
29) Butyl benzyl phthalate	16.21	149	467729	3.90	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.02	149	620373	3.67	ppm	100
31) Benzo(a)anthracene	17.02	228	104399	0.40	ppm	95
32) Chrysene	17.08	228	371171	1.47	ppm	99
34) Di-n-octyl phthalate	18.02	149	977462	5.76	ppm	98
35) Benzo(b)Fluoranthene	18.91	252	647332	3.91	ppm	98

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

00406

Data File : J:\ACQUDATA\5973B\DATA\070808\CY268.D Vial: 8
Acq On : 8 Jul 2008 6:55 pm Operator: J.Wu
Sample : 1115384 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:33 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

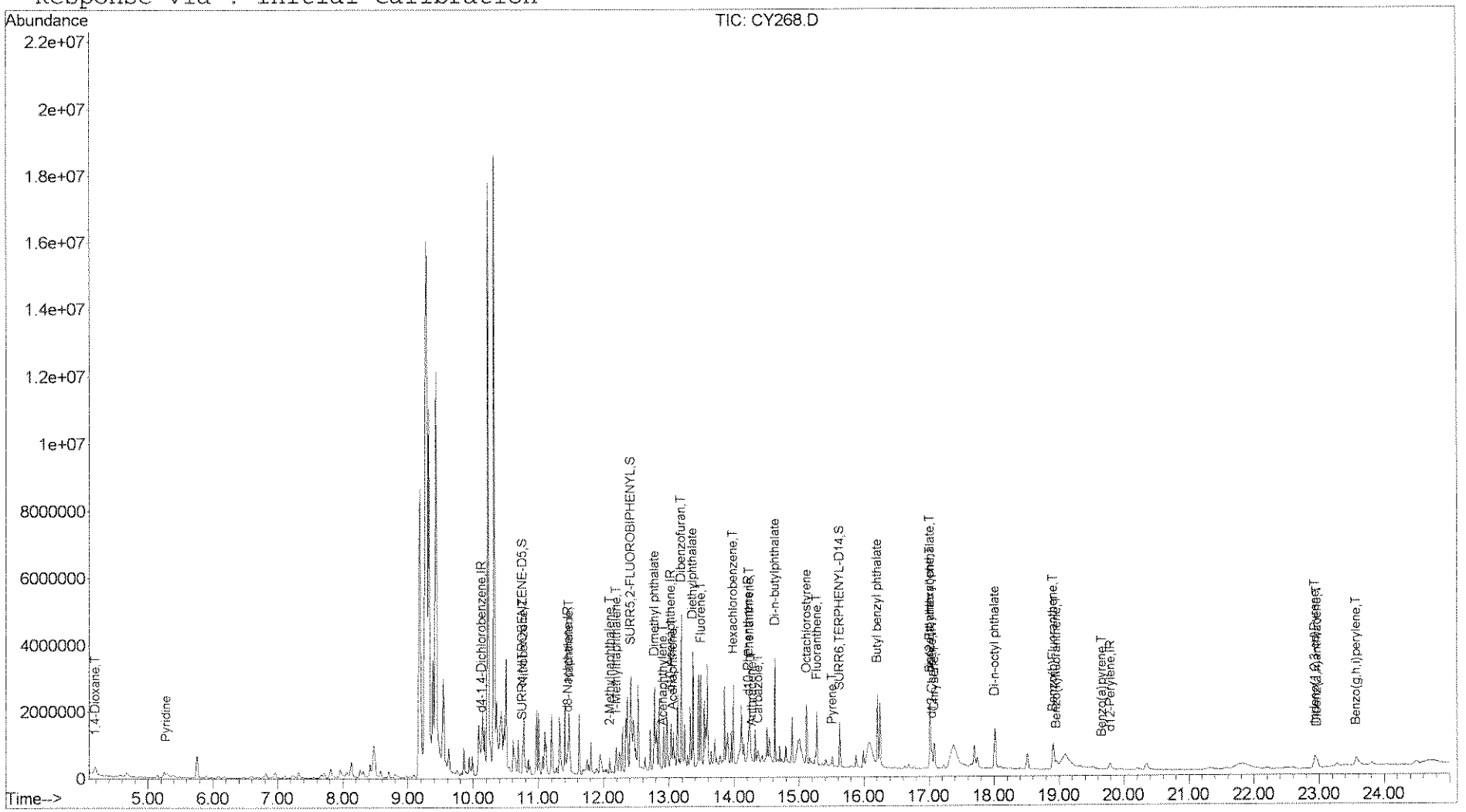
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	135043	0.89	ppm	86
37)	Benzo(a)pyrene	19.66	252	7553	0.05	ppm	86
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	395959	2.56	ppm	92
39)	Dibenz(a,h)anthracene	22.97	278	205124	1.55	ppm	96
40)	Benzo(g,h,i)perylene	23.57	276	256548	1.77	ppm	96

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY268.D Vial: 8
Acq On : 8 Jul 2008 6:55 pm Operator: J.Wu
Sample : 1115384 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:33 2008 Quant Results File: LVI0701.RES

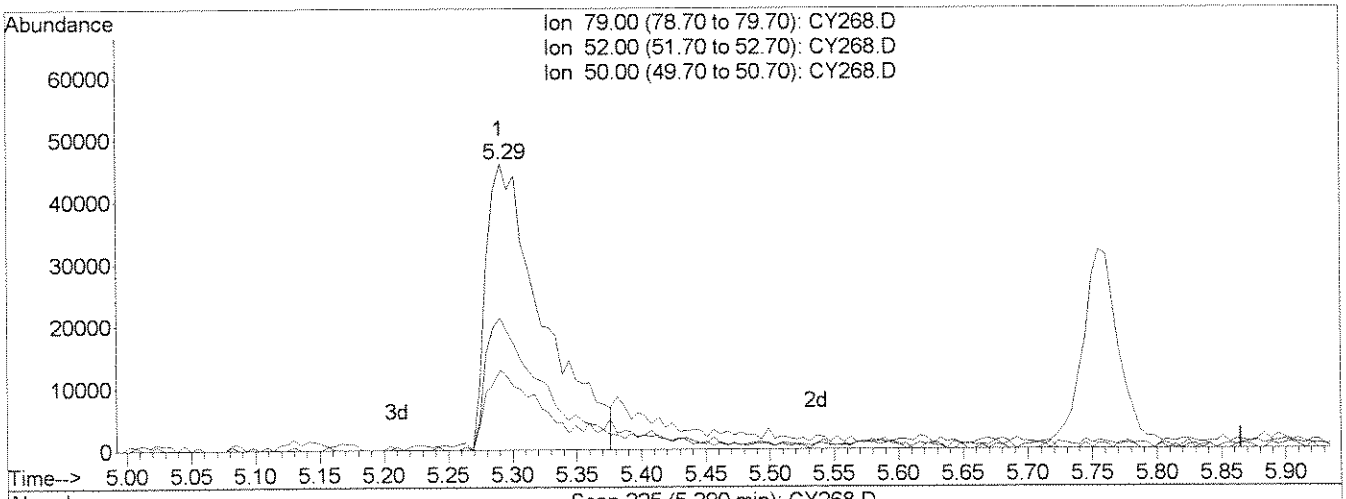
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

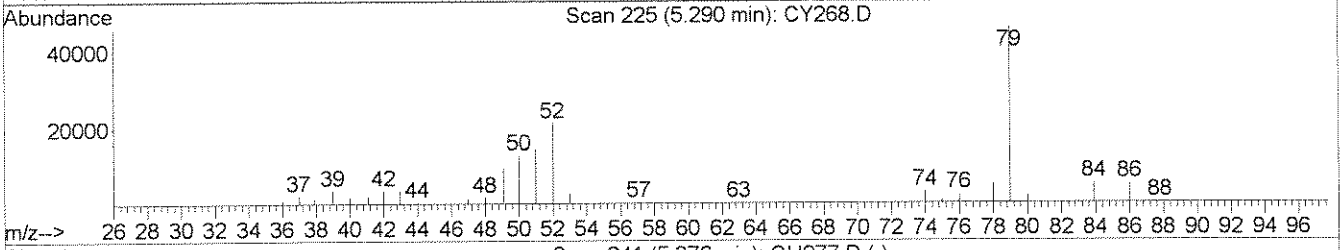


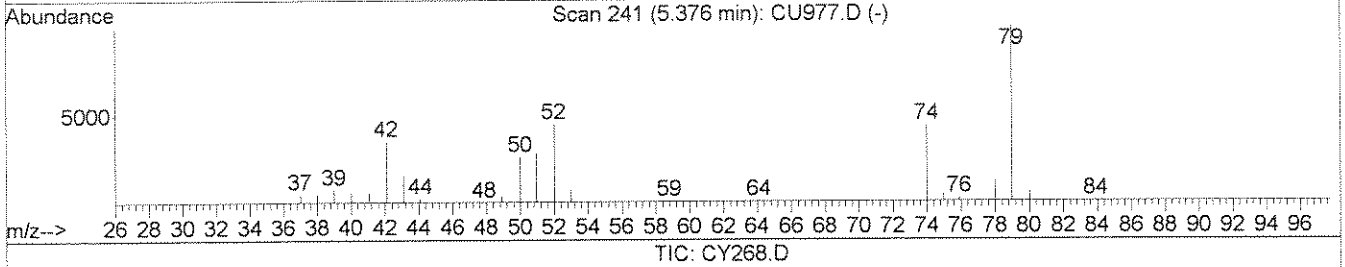
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY268.D Vial: 8
Acq On : 8 Jul 2008 6:55 pm Operator: J.Wu
Sample : 1115384 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 19:20 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Single Level Calibration







TIC: CY268.D

(3) Pyridine

5.29min 1.19ppm

response 141124

Ion	Exp%	Act%
79.00	100	100
52.00	47.80	44.14
50.00	24.70	27.08
0.00	0.00	0.00

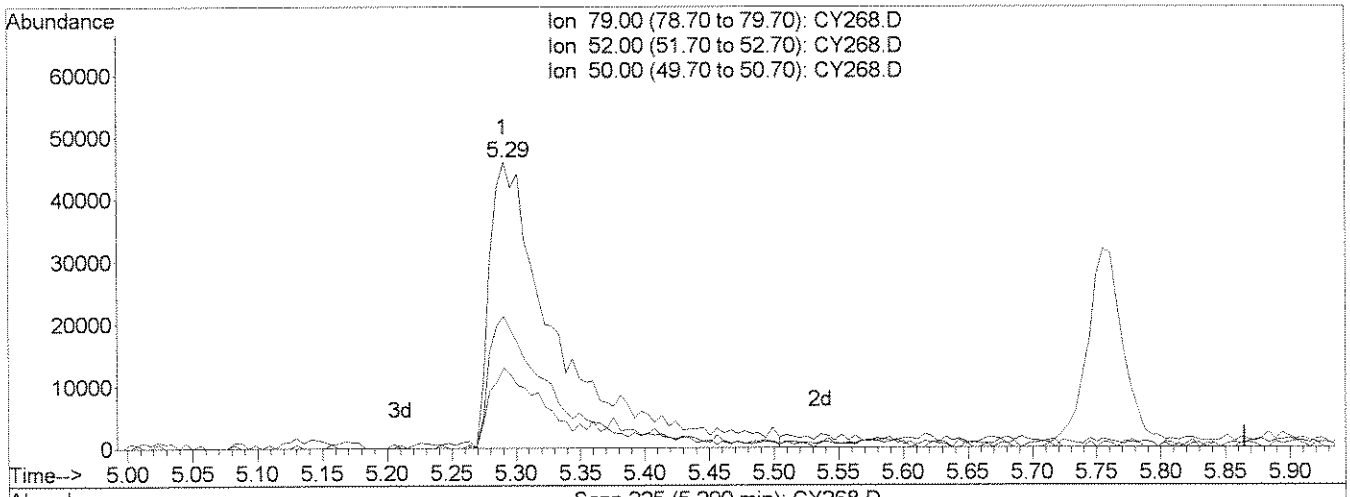
B

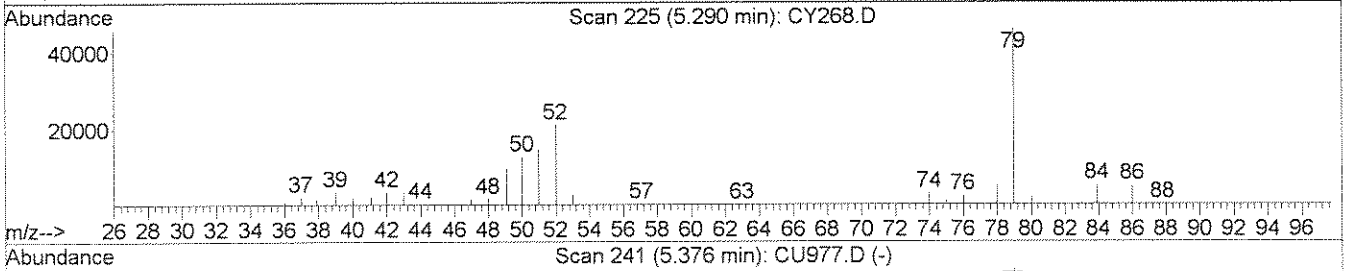
CY268.D LVI0701.M Wed Jul 09 14:33:21 2008

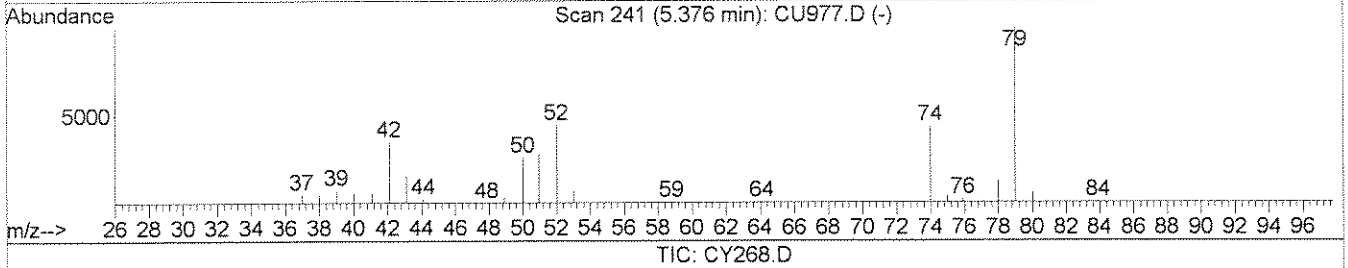
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY268.D Vial: 8
Acq On : 8 Jul 2008 6:55 pm Operator: J.Wu
Sample : 1115384 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:33 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Single Level Calibration







TIC: CY268.D

(3) Pyridine

5.29min 1.43ppm m

response 168997

Ion	Exp%	Act%
79.00	100	100
52.00	47.80	46.35
50.00	24.70	28.21
0.00	0.00	0.00

7/9/8

CY268.D LVI0701.M Wed Jul 09 14:33:26 2008

00412

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 1115385 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 163571

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/07/08			
DATE ANALYZED : 07/08/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	0.20	0.27	UG/L
ACENAPHTHYLENE	0.20	0.085 J	UG/L
ANTHRACENE	0.20	0.094 J	UG/L
BENZO(A)ANTHRACENE	0.20	0.33	UG/L
BENZO(A)PYRENE	0.20	0.038 J	UG/L
BENZO(B)FLUORANTHENE	0.20	3.1	UG/L
BENZO(G,H,I)PERYLENE	0.20	1.5	UG/L
BENZO(K)FLUORANTHENE	0.20	0.60	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.1 J	UG/L
DI-N-BUTYLPHTHALATE	5.0	4.1 J	UG/L
INDENO(1,2,3-CD)PYRENE	0.20	2.2	UG/L
CHRYSENE	0.20	1.5	UG/L
DIBENZO(A,H)ANTHRACENE	0.20	1.4	UG/L
DIETHYLPHTHALATE	5.0	4.2 J	UG/L
DIMETHYL PHTHALATE	5.0	4.0 J	UG/L
1,4-DIOXANE	2.0	3.3	UG/L
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	3.7 J	UG/L
FLUORANTHENE	0.20	2.0	UG/L
FLUORENE	0.20	3.5	UG/L
HEXACHLOROBENZENE	0.20	2.7	UG/L
2-METHYLNAPHTHALENE	0.20	0.65	UG/L
NAPHTHALENE	0.20	2.4	UG/L
NITROBENZENE	0.20	4.2	UG/L
OCTACHLOROSTYRENE	0.20	2.7	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.6 J	UG/L
PHENANTHRENE	0.20	2.0	UG/L
PYRENE	0.20	0.34	UG/L
PYRIDINE	2.0	1.8 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(45 - 135 %)	107	%
NITROBENZENE-d5	(45 - 135 %)	91	%
2-FLUOROBIPHENYL	(45 - 135 %)	91	%

00413

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY269.D Vial: 9
Acq On : 8 Jul 2008 7:49 pm Operator: J.Wu
Sample : 1115385 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:51 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) d4-1,4-Dichlorobenzene	10.13	152	56913	1.00	ppm	0.00
4) d8-Naphthalene	11.45	136	212137	1.00	ppm	0.00
10) d10-Acenaphthene	13.03	164	137226	1.00	ppm	0.00
18) d10-Phenanthrene	14.22	188	259174	1.00	ppm	0.00
26) d12-Chrysene	17.05	240	212263	1.00	ppm	0.00
33) d12-Perylene	19.78	264	147658	1.00	ppm	0.00
System Monitoring Compounds						
5) SURR4,NITROBENZENE-D5	10.76	82	237044	1.81	ppm	0.00
Spiked Amount 2.000	Range 22 - 124		Recovery = 90.50%			
11) SURR5,2-FLUOROBIPHENYL	12.42	172	333682	1.81	ppm	0.00
Spiked Amount 2.000	Range 27 - 114		Recovery = 90.50%			
28) SURR6,TERPHENYL-D14	15.63	244	391433	2.14	ppm	0.00
Spiked Amount 2.000	Range 23 - 139		Recovery = 107.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	4.24	88	195070	3.50	ppm	86
3) Pyridine	5.31	79	213360	1.92	ppm	97
6) Nitrobenzene	10.77	77	607136	4.43	ppm	95
7) Naphthalene	11.47	128	567892	2.61	ppm	99
8) 2-Methylnaphthalene	12.09	142	106845	0.69	ppm	95
9) 1-Methylnaphthalene	12.19	142	137781	0.94	ppm	94
12) Acenaphthylene	12.91	152	19581	0.09	ppm	97
13) Dimethyl phthalate	12.78	163	698120	4.21	ppm	98
14) Acenaphthene	13.05	153	41365m	0.29	ppm	
15) Dibenzofuran	13.19	168	773184	3.58	ppm	99
16) Fluorene	13.49	166	630082	3.72	ppm	97
17) Diethylphthalate	13.37	149	777754	4.52	ppm	98
19) Hexachlorobenzene	13.99	284	204275	2.88	ppm	91
20) Phenanthrene	14.24	178	522808	2.12	ppm	99
21) Anthracene	14.28	178	23895	0.10	ppm	98
22) Carbazole	14.38	167	44242	0.23	ppm	94
23) Octachlorostyrene	15.12	380	47050	2.92	ppm	95
24) Di-n-butylphthalate	14.63	149	1273665	4.41	ppm	96
25) Fluoranthene	15.27	202	611354	2.12	ppm	99
27) Pyrene	15.52	202	88306	0.36	ppm	97
29) Butyl benzyl phthalate	16.21	149	469712	4.38	ppm	99
30) bis(2-Ethylhexyl)phthalate	17.02	149	601303	3.97	ppm	98
31) Benzo(a)anthracene	17.02	228	82331	0.35	ppm	98
32) Chrysene	17.08	228	366996	1.63	ppm	97
34) Di-n-octyl phthalate	18.01	149	983940	4.91	ppm	98
35) Benzo(b)Fluoranthene	18.91	252	649644	3.33	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY269.D Vial: 9
Acq On : 8 Jul 2008 7:49 pm Operator: J.Wu
Sample : 1115385 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:51 2008 Quant Results File: LVI0701.RES

Quant Method : J:\ACQUDATA\5...\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration
DataAcq Meth : LVI0701

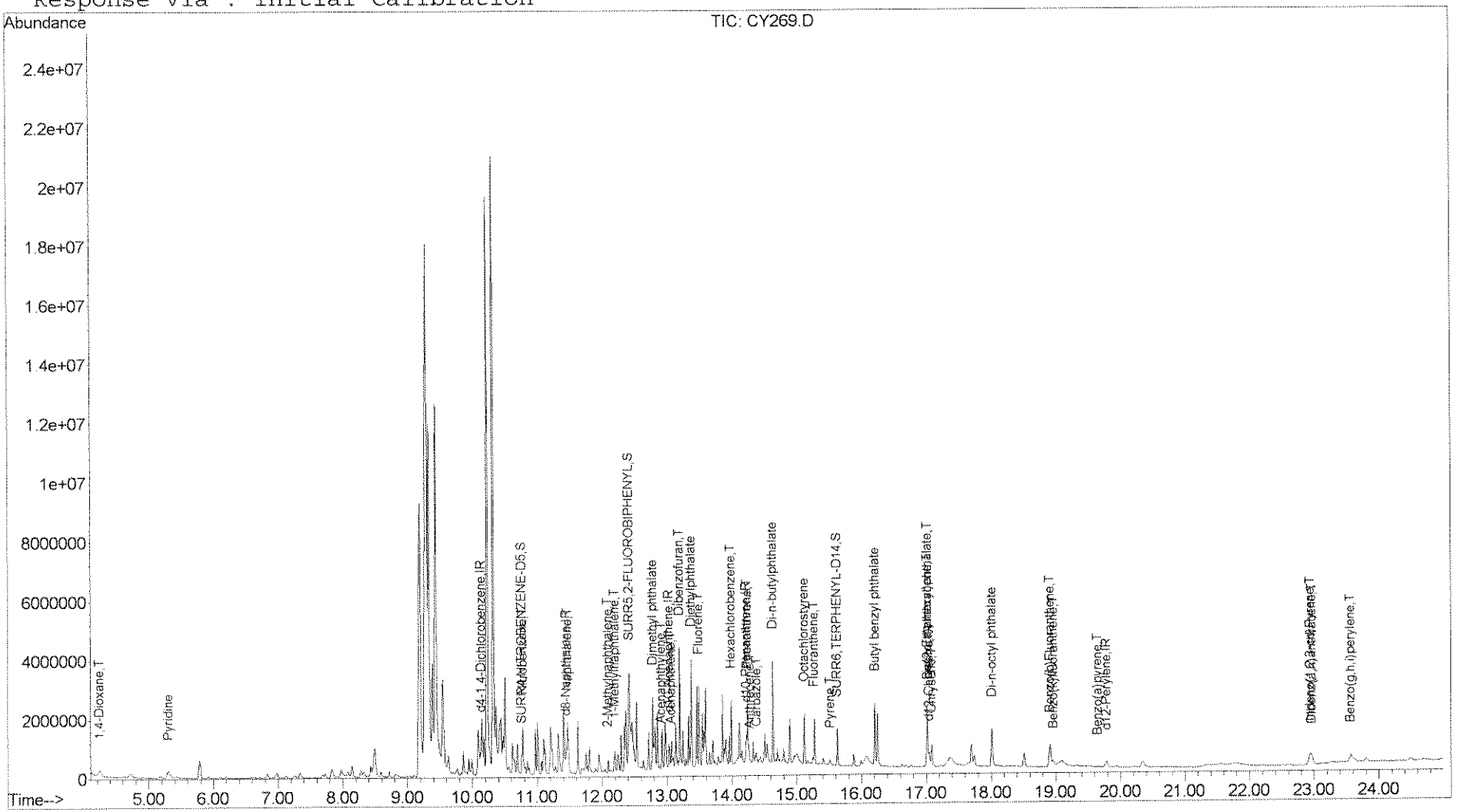
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Benzo(k)fluoranthene	18.96	252	114532	0.64	ppm	88
37)	Benzo(a)pyrene	19.64	252	6961	0.04	ppm	74
38)	Indeno(1,2,3-cd)Pyrene	22.94	276	429673	2.35	ppm	91
39)	Dibenz(a,h)anthracene	22.97	278	238663	1.53	ppm	96
40)	Benzo(g,h,i)perylene	23.56	276	275156	1.61	ppm	98

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

Quantitation Report

Data File : J:\ACQUDATA\5973B\DATA\070808\CY269.D Vial: 9
Acq On : 8 Jul 2008 7:49 pm Operator: J.Wu
Sample : 1115385 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:51 2008 Quant Results File: LVI0701.RES

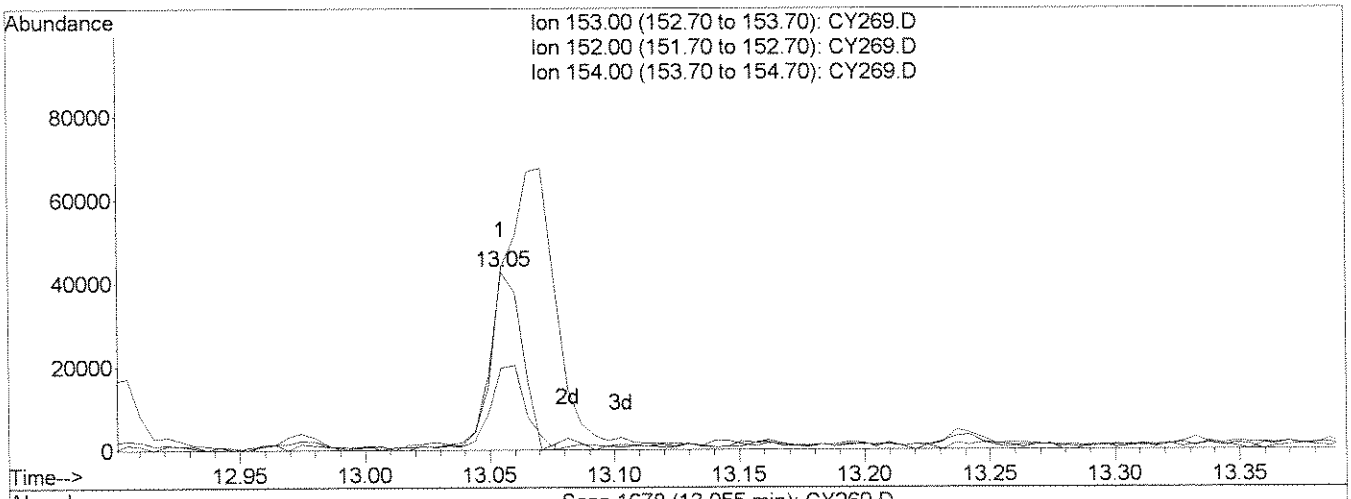
Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Initial Calibration

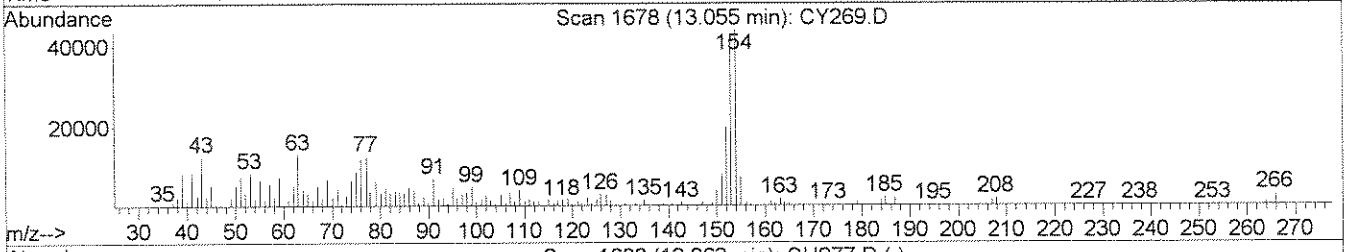


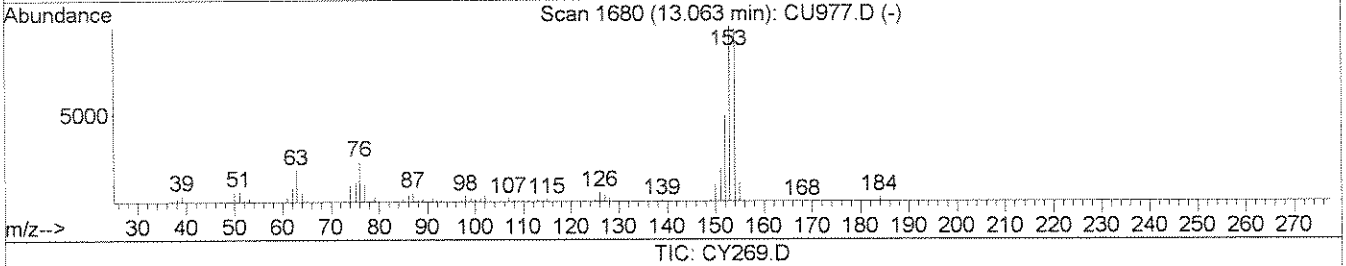
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY269.D Vial: 9
Acq On : 8 Jul 2008 7:49 pm Operator: J.Wu
Sample : 1115385 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 20:14 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration







TIC: CY269.D

(14) Acenaphthene (T)

13.05min 0.28ppm

response 40891

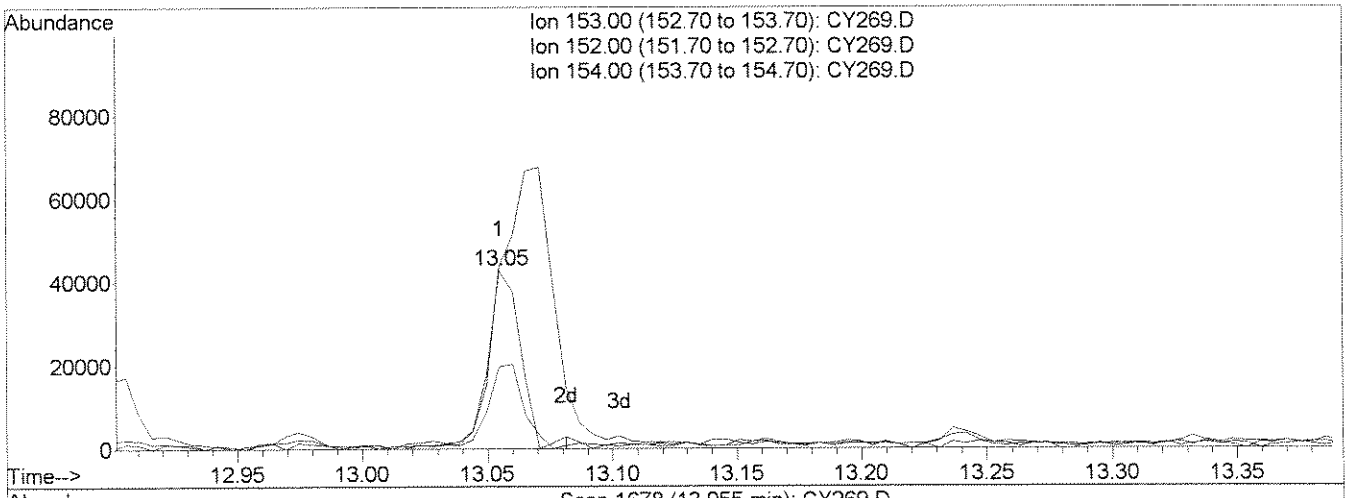
Ion	Exp%	Act%
153.00	100	100
152.00	46.40	46.61
154.00	87.90	56.79#
0.00	0.00	0.00

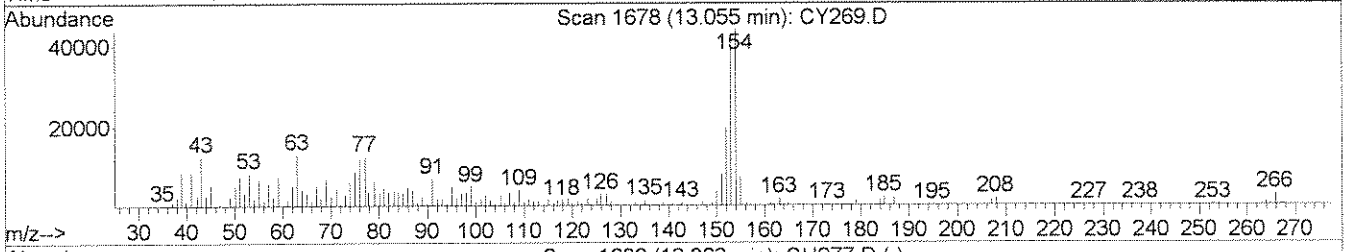
B

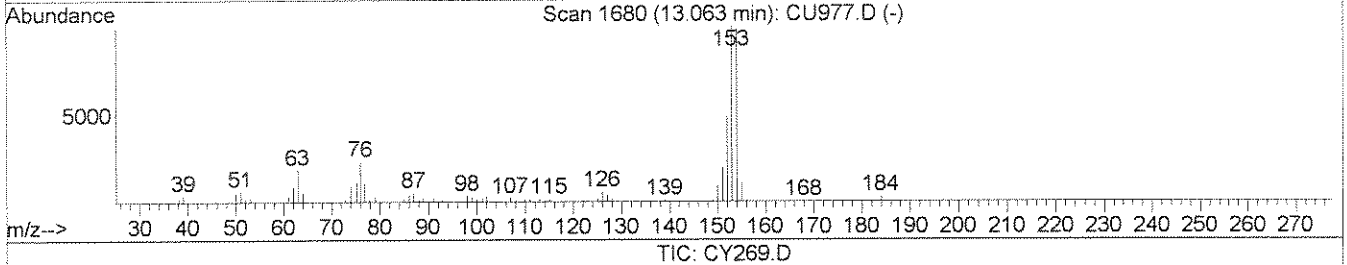
Quantitation Report (Qedit)

Data File : J:\ACQUDATA\5973B\DATA\070808\CY269.D Vial: 9
Acq On : 8 Jul 2008 7:49 pm Operator: J.Wu
Sample : 1115385 0.94 Inst : 5973-B
Misc : 07/07/2008 1.0 ENSR 8270.NEVA 1114421MSD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 14:51 2008 Quant Results File: temp.res

Method : J:\ACQUDATA\5973B\METHODS\LVI0701.M (RTE Integrator)
Title : 8270 BNA ANALYSIS
Last Update : Thu Jul 03 11:44:55 2008
Response via : Multiple Level Calibration







TIC: CY269.D

(14) Acenaphthene (T)

13.05min 0.29ppm m

response 41365

Ion	Exp%	Act%
153.00	100	100
152.00	46.40	45.87
154.00	87.90	102.53
0.00	0.00	0.00

AJW 7/9/08

CY269.D LVI0701.M Wed Jul 09 14:52:04 2008

00418

Run# 163511 4817

Extraction T:		Spiked By:	Prep Method:			COLUMBIA ANALYTICAL SERVICES - ROCHESTER,NY	Batch ID:
Extraction Date:	7/7/2008		☐ 3540C	☐ 3550B	Color: C = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey		E071108B
Concentration Tech:	LED	Spk Witness:	☒ 3510C	☐ 3520C	Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque		Prep ID:
40 Day HT:	8/20/2008	LED	☐ 3580A		Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks		

Client / Sub. #	Sample ID	Initial Wt. (g) or Volume (ml)	Appearance (see key)	Analysis (Test) Requested	pH REC'D pH	pH Check (water only) BN > 11 1	BN > 11 2	Acid < 2 1	Acid < 2 2	Conc. Date	Final Volume (ml)	Date Complete	Comments / Emulsions
1115381	BLK	1000ml	C---g	8270C.NEVA	6	✓	—	—	—	7/8	1ml	7/8	
1115382	LCS	1000ml		8270C.NEVA	6	—	—	—	—				
1115383	LCSD	1000ml		8270C.NEVA	6	—	—	—	—				
R44803	1114419	1020ml	F-Green CLR	8270C.NEVA	7	—	—	—	—				
	1114420	980ml		8270C.NEVA	7	—	—	—	—				
	1114421	1060ml		8270C.NEVA	7	—	—	—	—				
1115384	1114421 MS	1060ml		8270C.NEVA	7	—	—	—	—				
1115385	1114421 MSD	1060ml		8270C.NEVA	7	—	—	—	—				
	1114756	1060ml		8270C.NEVA	7	—	—	—	—				
	1114758	1020ml	C---g	8270C.NEVA	7	—	—	—	—				

D 7/7/08

Spikes:

	AE/BN Surrogate	Amt. ___ ml	Conc. ___ ppm	Lot#	
X	BN Surrogate	Amt. 1 ml	Conc. 2 ppm	Lot# 0-5549-209-C	(All samples spiked with Surrogate; LCS/LCSD, MS/MSD had spike added.)
X	LL PAH Spike	Amt. 1 ml	Conc. 4 ppm	Lot# 0-5549-209-J	
	8270 LCS MiX 1	Amt. ___ ml	Conc. ___ ppm	Lot#	
	Custom List Spike	Amt. ___ ml	Conc. ___ ppm	Lot#	
	Benzidine Spike	Amt. ___ ml	Conc. ___ ppm	Lot#	
		Amt. ___ ml	Conc. ___ ppm	Lot#	
		Amt. ___ ml	Conc. ___ ppm	Lot#	
		Amt. ___ ml	Conc. ___ ppm	Lot#	
☐	Other:	Amt. ___ ml	Conc. ___ ppm	Lot#	

Clean-Ups: ☒ None

Method Summary:
1000mls sample extracted with 60mls MeCl2 3x at a Ph<2 for 2 min. repeat at pH >11.

Solvents:

☐	50:50 Ace:MeCl2 Lot #	☐	Hexane Lot#	☒	Sulfuric Acid Lot#: 0-7455-38-F
☒	MeCl2 Lot # 0-3524-37-X	☐	Ether Lot#	☐	Sodium Hydroxide Lot#: 0-3444-32-A
☐	Acetone Lot #	☒	Sodium Sulfate Lot# 0-3725-86-K	☐	Other: Lot#:

C-T1108

250

5973-B

0-559-209A

7/1/08		Tune check .20ng DFTPP DFTLVI.m	CY228	YT 9:07 Am
	1	BLK	CY229	Ym
-203H	2	Initial calibration 0.1/0.2 ppm LVI070l.m	30	Ys
I	3	0.2/0.4 ppm	31	Ys
J	4	0.5/1.0 ppm	32	Ys
K	5	1.0/2.0 ppm	CY233	Ys
L	6	2.0/4.0	34	Ys
M	7	3.6/6.0	35	Ys
N	8	4.0/8.0	36	Ys
O	9	5.0/10.0	37	Ys
2-559-54E	10	10.0/20.0	CY238	Ys
-559-204A	11	ICV#1	39	Yc
-559-173E	12	ICV#2	CY240	Yc

CY234
76509
280482
182626
384665
282584
231475

10 uL of 100 ppm ISTD (CO-159-210A) to 1.0 mL. 5973-B

7/8/08	Tune check	20ng DFTPP	DFTPPLV1.M (CO159-210A)	CY260	YT	10:03
1	Calibration check	20/4.0 ppm	LV10701.M	CY261	YC	
R-44803 2	[redacted]	1115-381 BLK	8270.NEVA 7/7/08 Water	CY262	YM	
3		1115-382 LCS		263	YQ #2,3 ↓	
4		1115383 LCSD		264	YQ #2,3 ↓	
5		111 4419 0.98		265	Y	
6		111 4420 1.02		266	Y	
7		111 4421 0.94		267	Y	
8		1115-384 0.94 (1114421 MS)		268	YQ some compds ↓	
9		111 5-385 0.94 (1114421 MSD)		269	YQ ↓	
10		111 4756 0.94		270	Y	
11		111 4758 0.98		CY271	Y	9:31
12	[redacted] SOX Extractor Thimble	BLK 1	7/8/08 Soil	CY 272	for check purpose only	
13		2		273		
14		3		274		
15		4		275		
16	Solvent	BLK 1		276		
17		2		277		
18		3		278		
19		4		CY 279		

CY261
63616
234931
153862
243573
250630
201561

JW

PESTICIDES

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 1114421 ENSR International

Client ID: M-78B

Test: 8081A.NEVA

Analytical Units: UG/L

Run Number : 164129

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
ALDRIN	0.0962	0	0.072	75	0.077	80	7	30	24 - 122
ALPHA-BHC	0.0962	0	0.091	95	0.095	99	4	30	50 - 150
BETA-BHC	0.0962	0	0.089	93	0.092	96	3	30	63 - 107
GAMMA-BHC	0.0962	0	0.085	88	0.089	93	5	30	44 - 131
DELTA-BHC	0.0962	0	0.090	94	0.095	99	5	30	49 - 116
ALPHA-CHLORDANE	0.0962	0	0.085	88	0.089	93	5	30	36 - 127
GAMMA-CHLORDANE	0.0962	0	0.094	98	0.100	104	6	30	48 - 122
4,4'-DDE	0.0962	0	0.091	95	0.093	97	2	30	30 - 127
4,4'-DDT	0.0962	0	0.094	98	0.097	101	3	30	39 - 154
DIELDRIN	0.0962	0	0.100	104	0.100	104	0	30	37 - 151
ALPHA-ENDOSULFAN	0.0962	0	0.092	96	0.096	100	4	30	39 - 125
BETA-ENDOSULFAN	0.0962	0	0.099	103	0.100	104	1	30	64 - 107
ENDOSULFAN SULFATE	0.0962	0	0.094	98	0.099	103	5	30	17 - 134
ENDRIN	0.0962	0	0.098	102	0.095	99	3	30	39 - 146
ENDRIN ALDEHYDE	0.0962	0	0.052	54	0.054	56	4	30	10 - 115
ENDRIN KETONE	0.0962	0	0.096	100	0.100	104	4	30	70 - 130
HEPTACHLOR	0.0962	0	0.079	82	0.083	86	5	30	37 - 123
HEPTACHLOR EPOXIDE	0.0962	0.100	0.100	0 *	0.170	73	52 *	30	70 - 130
HEXACHLOROBENZENE	0.250	0	0.180	72	0.190	76	5	30	50 - 150
METHOXYCHLOR	0.962	0	0.560	58 *	0.590	61 *	5	30	62 - 130
4,4'-TDE (DDD)	0.0962	0	0.093	97	0.096	100	3	30	63 - 107

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 1118498

Dup Spiked Order No. : 1118499

Client ID:

Test: 8081A.NEVA

Analytical Units: UG/L

Run Number : 164129

			BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
ALDRIN	0.20	0	0.160	80	0.170	85	6	30	50 - 130
ALPHA-BHC	0.20	0	0.190	95	0.190	95	0	30	50 - 130
BETA-BHC	0.20	0	0.210	105	0.210	105	0	30	50 - 130
GAMMA-BHC	0.20	0	0.200	100	0.210	105	5	30	50 - 130
DELTA-BHC	0.20	0	0.190	95	0.180	90	5	30	50 - 130
ALPHA-CHLORDANE	0.20	0	0.190	95	0.200	100	5	30	50 - 130
GAMMA-CHLORDANE	0.20	0	0.200	100	0.200	100	0	30	50 - 130
4,4'-DDE	0.20	0	0.190	95	0.200	100	5	30	50 - 130
4,4'-DDT	0.20	0	0.200	100	0.200	100	0	30	50 - 130
DIELDRIN	0.20	0	0.210	105	0.220	110	5	30	50 - 130
ALPHA-ENDOSULFAN	0.20	0	0.200	100	0.210	105	5	30	50 - 130
BETA-ENDOSULFAN	0.20	0	0.210	105	0.220	110	5	30	50 - 130
ENDOSULFAN SULFATE	0.20	0	0.200	100	0.200	100	0	30	50 - 130
ENDRIN	0.20	0	0.200	100	0.210	105	5	30	50 - 130
ENDRIN ALDEHYDE	0.20	0	0.190	95	0.170	85	11	30	50 - 130
ENDRIN KETONE	0.20	0	0.200	100	0.210	105	5	30	50 - 130
HEPTACHLOR	0.20	0	0.180	90	0.190	95	5	30	50 - 130
HEPTACHLOR EPOXIDE	0.20	0	0.190	95	0.220	110	15	30	50 - 130
HEXACHLOROBENZENE	0.50	0	0.390	78	0.410	82	5	30	50 - 130
METHOXYCHLOR	2.0	0	1.20	60	1.20	60	0	30	50 - 130
4,4'-TDE (DDD)	0.20	0	0.200	100	0.200	100	0	30	50 - 130

Method Blank Summary

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118497 1.0 *Lab File ID:* EY162.D

Matrix: WATER *Level: (low/med)*

Date extracted: 07/03/08 *Extraction: (Sepf/Cont/Sonc)* Sepf

Date analyzed: (1) 7/17/2008 *Date analyzed:* (2) 7/17/2008

Time analyzed: (1) 15:40 *Time analyzed:* (2) 15:40

Instrument ID: (1) 6890D *Instrument ID:* (2) 6890D

GC Column(1) (1) STx-CLP *GC Column(2)* (2) STx-CLPII

This Method Blank Applies to the Following Sample, MS, and MSD:

EPA Sample No.	*Lab Sample No.*	*Date Analyzed 1*	*Date Analyzed 2*
PBLK1MS	1118498 1.0	7/17/2008	7/17/2008
PBLK1MSD	1118499 1.0	7/17/2008	7/17/2008
M-55B	1114419 1.0	7/17/2008	7/17/2008
M-55DB	1114420 1.0	7/17/2008	7/17/2008
M-78B	1114421 1.0	7/17/2008	7/17/2008
M-78B MS	1118500 1.0	7/17/2008	7/17/2008
M-78B MSD	1118501 1.0	7/17/2008	7/17/2008
M-65B	1114756 1.0	7/17/2008	7/17/2008
EB070208GW1	1114758 1.0	7/17/2008	7/17/2008
M-65B DL	1114756 2.0	7/21/2008	7/21/2008

Columbia Analytical Services, Rochester, NY

DETECTION LIMIT STUDY

☑ MDL ☐ IDL

METHOD	8081
MATRIX	WATER
SAMPLE PREP. METHOD	3510
INSTRUMENT ID.	6890-D
DETECTOR	ECD
COLUMN	STX-CLP

DATE: 9/25/2007

ANALYST: Meghan Pedro

		Spike											CALC.	
		Conc.	Trial #	Trial #	Trial #	Trial #	Trial #	Trial #	Trial #	Trial #	Mean	Std.	MDL	MRL**
	Compound/Analyte	(ug/L)	1	2	3	4	5	6	7	8	(ug/L)	Dev.	(ug/L)	(ug/L)
1	4,4'-DDD	0.02	0.0198	0.0190	0.0191	0.0212	0.0239	0.0213	0.0198	0.0237	0.0206	0.0017	0.0052	0.10
2	4,4'-DDE	0.02	0.0190	0.0187	0.0185	0.0193	0.0214	0.0195	0.0186	0.0195	0.0193	0.0010	0.0030	0.10
3	4,4'-DDT	0.02	0.0201	0.0169	0.0171	0.0190	0.0204	0.0212	0.0177	0.0179	0.0189	0.0017	0.0052	0.10
4	Aldrin	0.02	0.0146	0.0145	0.0147	0.0142	0.0143	0.0144	0.0131	0.0120	0.0143	0.0006	0.0017	0.05
5	Alpha-BHC	0.02	0.0161	0.0159	0.0166	0.0159	0.0160	0.0160	0.0151	0.0159	0.0159	0.0005	0.0014	0.05
6	Alpha-Endosulfan	0.02	0.0188	0.0186	0.0190	0.0185	0.0193	0.0194	0.0181	0.0196	0.0188	0.0005	0.0014	0.05
7	Apha-Chlordane	0.02	0.0201	0.0196	0.0196	0.0195	0.0216	0.0207	0.0194	0.0209	0.0201	0.0008	0.0024	0.05
8	Beta-BHC	0.02	0.0224	0.0224	0.0229	0.0227	0.0233	0.0235	0.0217	0.0232	0.0227	0.0006	0.0018	0.05
9	Beta-Endosulfan	0.02	0.0196	0.0212	0.0207	0.0201	0.0207	0.0204	0.0191	0.0208	0.0203	0.0007	0.0022	0.10
10	Chlordane	0.25	0.2467	0.2275	0.1551	0.1871	0.2480	0.2403	0.2555	0.2608	0.2276	0.0373	0.1118	0.25
11	Delta-BHC	0.02	0.0163	0.0164	0.0168	0.0163	0.0175	0.0170	0.0157	0.0173	0.0166	0.0006	0.0018	0.05
12	Dieldrin	0.02	0.0201	0.0189	0.0190	0.0201	0.0254	0.0215	0.0210	0.0218	0.0208	0.0022	0.0066	0.10
13	Endosulfan Sulfate	0.02	0.0200	0.0192	0.0205	0.0192	0.0202	0.0200	0.0184	0.0200	0.0196	0.0007	0.0022	0.10
14	Endrin	0.02	0.0191	0.0181	0.0183	0.0187	0.0230	0.0199	0.0193	0.0203	0.0195	0.0017	0.0050	0.10
15	Endrin Aldehyde	0.02	0.0076	0.0058	0.0059	0.0066	0.0093	0.0068	0.0092	0.0083	0.0073	0.0014	0.0043	0.10
16	Endrin Ketone	0.02	0.0194	0.0193	0.0190	0.0197	0.0227	0.0241	0.0193	0.0208	0.0205	0.0020	0.0061	0.10
17	Famphur	1.0	0.7150	0.7546	0.7395	0.7683	0.7625	0.7436	0.7398	0.72038	0.74617	0.0178	0.0533	1.0
18	Gamma-BHC	0.02	0.0170	0.0169	0.0175	0.0169	0.0171	0.0173	0.0161	0.0171	0.0170	0.0004	0.0013	0.05
19	Gamma-Chlordane	0.02	0.0188	0.0188	0.0189	0.0187	0.0192	0.0193	0.0178	0.0191	0.0188	0.0005	0.0014	0.05
20	Heptachlor	0.02	0.0177	0.0173	0.0176	0.0175	0.0179	0.0177	0.0163	0.0158	0.0174	0.0005	0.0016	0.05
21	Heptachlor E	0.02	0.0194	0.0193	0.0197	0.0194	0.0193	0.0195	0.0184	0.0197	0.0193	0.0004	0.0012	0.05
22	Hexachlorobenzene	0.050	0.0539	0.0532	0.0551	0.0563	0.0527	0.0540	0.0482	0.0470	0.05335	0.0025	0.0076	0.05
23	Kepone	5.0	4.0250	4.0558	4.0321	4.0549	4.0776	3.8710	3.4729	3.6527	3.94132	0.2176	0.6529	5.0
24	Methoxychlor	0.10	0.0981	0.0949	0.0979	0.0976	0.1009	0.1010	0.0954	0.1034	0.0980	0.0024	0.0071	0.50
1	Toxaphene	1.0	1.0272	1.0421	1.1694	1.0031	0.8421	0.8611	0.8387	0.7823	0.9457	0.1338	0.4014	1.0

Columbia Analytical Services, Rochester, NY

DETECTION LIMIT STUDY

METHOD	8081
MATRIX	WATER
SAMPLE PREP. METHOD	3510
INSTRUMENT ID.	6890-D
DETECTOR	ECD
COLUMN	STX-CLPII

☑ MDL ☐ IDL

DATE: 9/25/2007

ANALYST: Meghan Pedro

	Compound/Analyte	Spike Conc. (ug/L)	Trial # 1	Trial # 2	Trial # 3	Trial # 4	Trial # 5	Trial # 6	Trial # 7	Trial # 8	Mean (ug/L)	Std. Dev.	CALC. MDL (ug/L)	MRL** (ug/L)
1	4,4'-DDD	0.02	0.0216	0.0201	0.0205	0.0207	0.0220	0.0217	0.0204	0.0226	0.0210	0.0007	0.0022	0.10
2	4,4'-DDE	0.02	0.0213	0.0205	0.0202	0.0204	0.0238	0.0206	0.0207	0.0224	0.0211	0.0013	0.0038	0.10
3	4,4'-DDT	0.02	0.0230	0.0197	0.0207	0.0223	0.0331	0.0244	0.0228	0.0256	0.0237	0.0044	0.0133	0.10
4	Aldrin	0.02	0.0172	0.0171	0.0171	0.0168	0.0172	0.0169	0.0152	0.0141	0.0168	0.0007	0.0022	0.05
5	Alpha-BHC	0.02	0.0178	0.0176	0.0197	0.0181	0.0173	0.0176	0.0163	0.0174	0.0178	0.0010	0.0031	0.05
6	Alpha-Endosulfan	0.02	0.0213	0.0210	0.0211	0.0203	0.0221	0.0210	0.0206	0.0221	0.0211	0.0006	0.0017	0.05
7	Apha-Chlordane	0.02	0.0205	0.0204	0.0204	0.0199	0.0208	0.0203	0.0194	0.0206	0.0202	0.0004	0.0013	0.05
8	Beta-BHC	0.02	0.0211	0.0216	0.0217	0.0214	0.0214	0.0218	0.0204	0.0209	0.0213	0.0005	0.0015	0.05
9	Beta-Endosulfan	0.02	0.0237	0.0264	0.0260	0.0228	0.0296	0.0298	0.0238	0.0247	0.0260	0.0028	0.0084	0.10
10	Chlordane	0.25	0.2491	0.2365	0.1654	0.1967	0.2535	0.2638	0.2761	0.2873	0.2410	0.0411	0.1232	0.25
11	Delta-BHC	0.02	0.0138	0.0133	0.0139	0.0133	0.0155	0.0149	0.0134	0.0145	0.0140	0.0009	0.0026	0.05
12	Dieldrin	0.02	0.0242	0.0230	0.0227	0.0230	0.0309	0.0242	0.0257	0.0267	0.0248	0.0029	0.0087	0.10
13	Endosulfan Sulfate	0.02	0.0204	0.0205	0.0203	0.0207	0.0209	0.0205	0.0201	0.0216	0.0205	0.0003	0.0008	0.10
14	Endrin	0.02	0.0206	0.0204	0.0206	0.0203	0.0214	0.0207	0.0207	0.0212	0.0207	0.0004	0.0011	0.10
15	Endrin Aldehyde	0.02	0.0251	0.0130	0.0130	0.0269	0.0695	0.0383	0.0241	0.0279	0.0300	0.0195	0.0584	0.10
16	Endrin Ketone	0.02	0.0215	0.0292	0.0302	0.0274	0.0219	0.0216	0.0238	0.0230	0.0251	0.0038	0.0113	0.10
17	Famphur	1.0	0.7345	0.7603	0.8148	0.8502	0.7777	0.8187	0.7589	0.72531	0.78786	0.04106	0.1232	1.0
18	Gamma-BHC	0.02	0.0180	0.0181	0.0184	0.0178	0.0178	0.0182	0.0170	0.0180	0.0179	0.0004	0.0013	0.05
19	Gamma-Chlordane	0.02	0.0222	0.0218	0.0238	0.0231	0.0239	0.0223	0.0222	0.0222	0.0227	0.0008	0.0025	0.05
20	Heptachlor	0.02	0.0211	0.0216	0.0217	0.0210	0.0211	0.0218	0.0202	0.0195	0.0212	0.0006	0.0017	0.05
21	Heptachlor E	0.02	0.0242	0.0235	0.0233	0.0240	0.0252	0.0243	0.0238	0.0249	0.0240	0.0006	0.0018	0.05
22	Hexachlorobenzene	0.05	0.0493	0.0483	0.0503	0.0492	0.0482	0.0504	0.0434	0.0434	0.0484	0.0024	0.0072	0.05
23	Kepone	5.0	6.4669	6.7480	6.8011	6.6614	6.8935	6.7852	6.3811	6.6288	6.67675	0.1875	0.5625	5.0
24	Methoxychlor	0.10	0.1058	0.0999	0.1037	0.1022	0.1070	0.1060	0.1030	0.1109	0.1040	0.0025	0.0075	0.50
1	Toxaphene	1.0	1.1593	1.0911	1.1735	1.1250	0.9799	1.0548	1.0204	0.9350	1.0674	0.0855	0.2564	1.0

PESTICIDES

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55B

Date Sampled : 07/01/08 07:44 **Order #:** 1114419 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.18	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	88	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	64	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:55:26 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	1285.4E6	5019.8E6	63.695	62.034
Spiked Amount 100.000	Range 30 - 150		Recovery =		63.70%	62.03%
25) S SURR2,Decachloro	17.60	17.85	1413.6E6	4836.3E6	80.940	87.812
Spiked Amount 100.000	Range 30 - 150		Recovery =		80.94%	87.81%
Target Compounds						
9) tc Heptachlor E	13.07	12.98	670.1E6	2968.0E6	29.440m	36.917m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

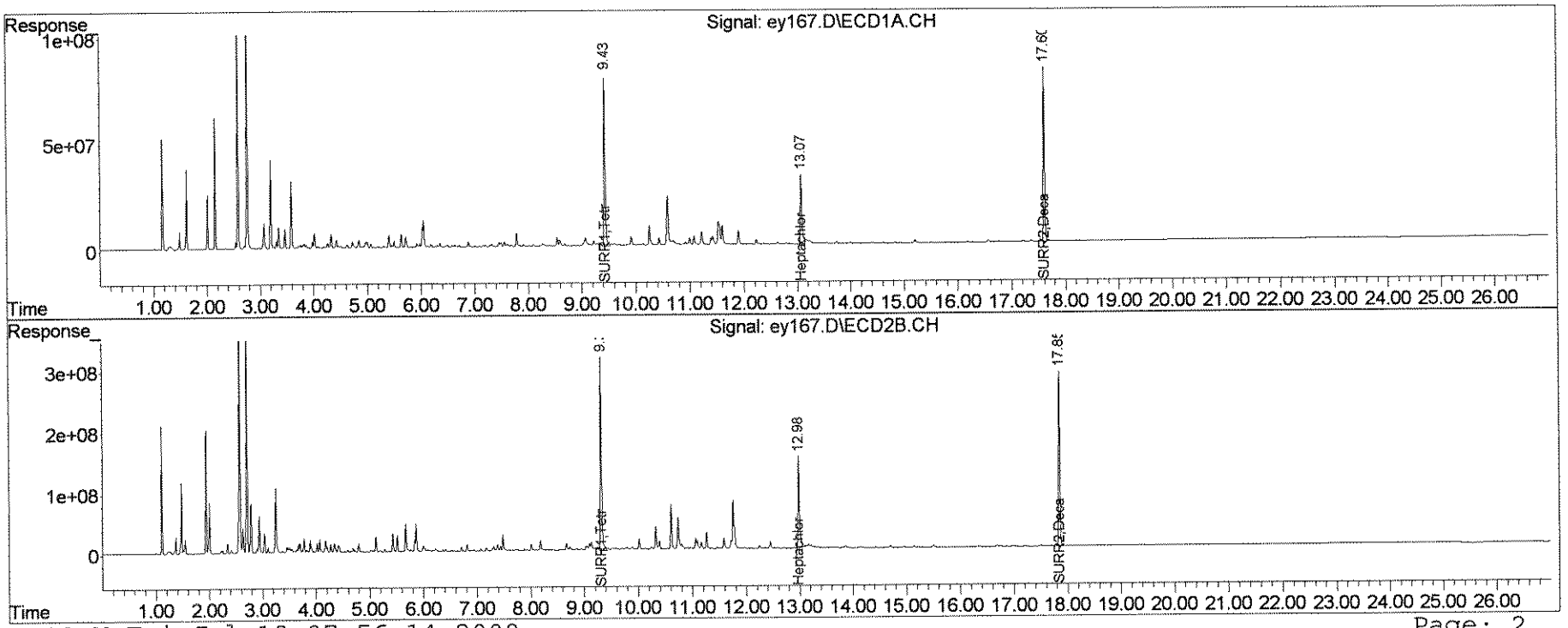
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:55:26 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

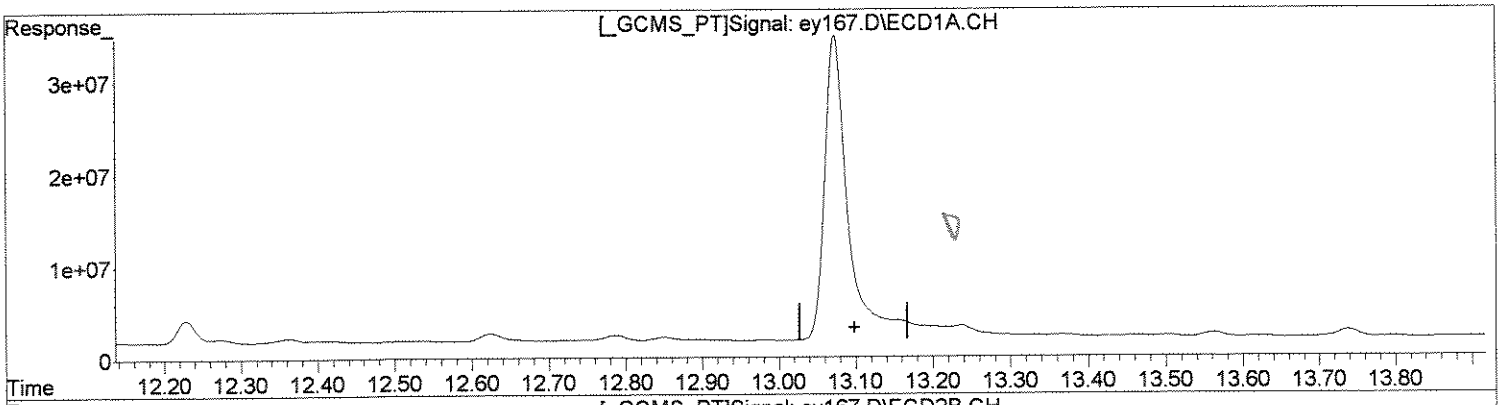


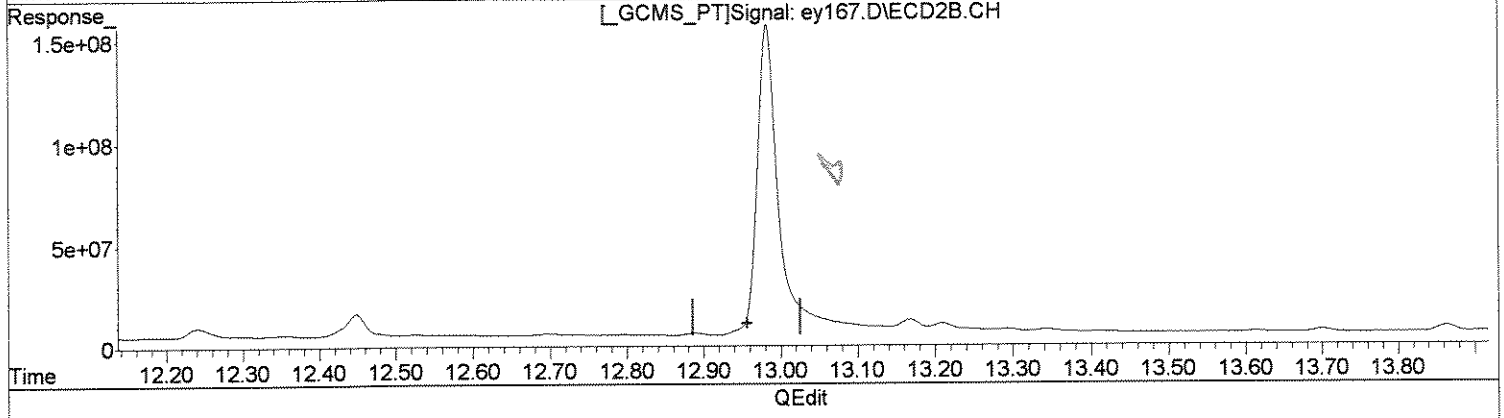
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

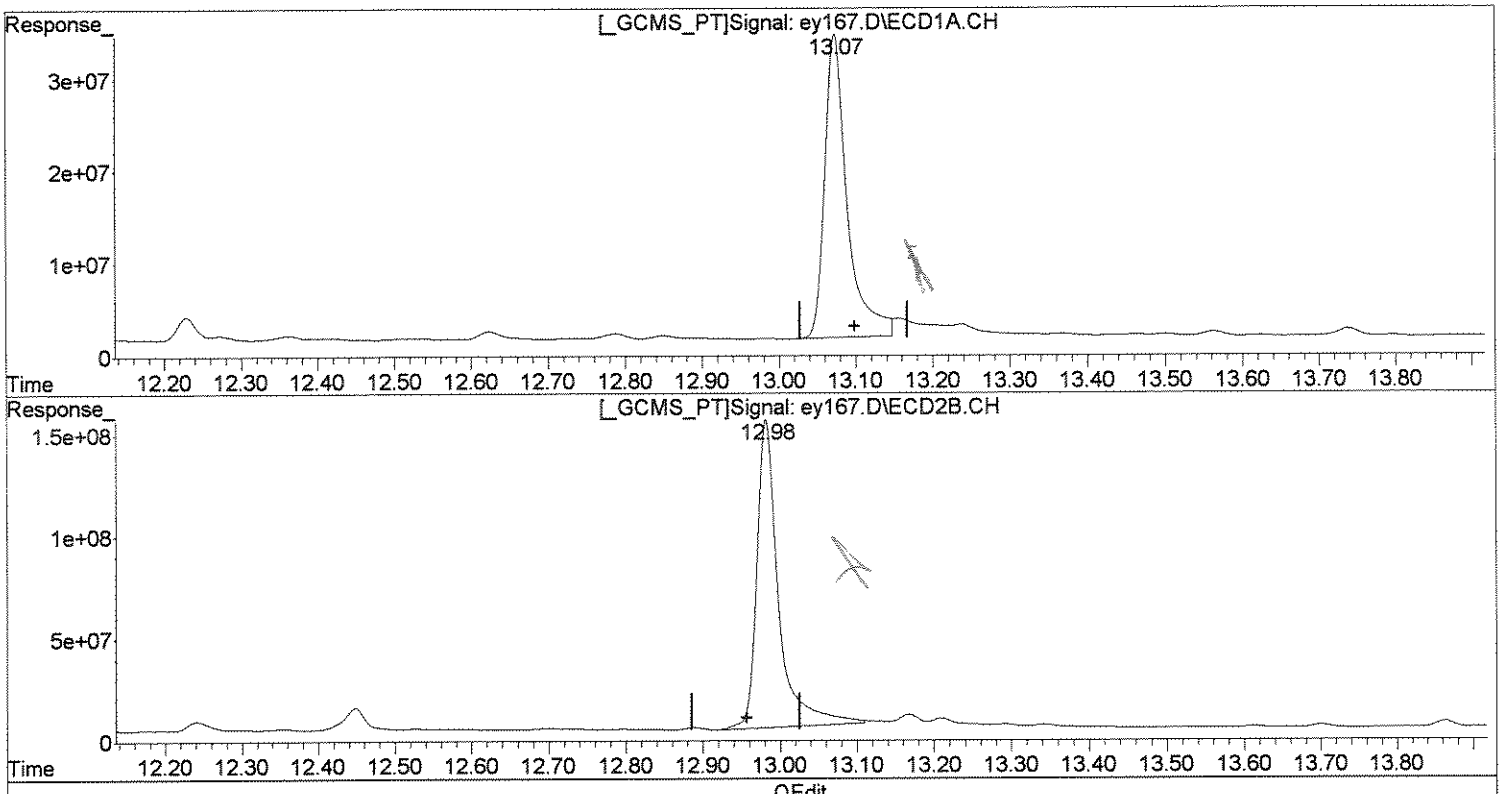
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 29.440ug/l m
response 670089634

(9) Heptachlor E #2 (tc)
12.98min 36.917ug/l m
response 2967964694

(+) = Expected Retention Time

00433

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1285.4E6	5019.8E6	63.695	62.034	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		63.70%	62.03%	
25)	S SURR2,Decachloro	17.60	17.85	1413.6E6	4836.3E6	80.940	87.812	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		80.94%	87.81%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	20411522	0	0.695	N.D.	#
3)	tc alpha-BHC	10.43	10.39	75338224	319.3E6	2.437	2.691	
4)	tcm gamma-BHC (L	10.99	10.96	78482644	113.2E6	2.782	1.078	#
6)	tcm Aldrin	0.00	12.10	0	73107738	N.D.	0.803	#
8)	tc delta-BHC	11.39	11.58	57306420	431.8E6	2.107	4.183	#
10)	tc alpha-Endosu	0.00	13.53	0	42058168	N.D.	0.593	#
11)	tc gamma-Chlord	0.00	13.21	0	199.8E6	N.D.	2.436	#
12)	tc alpha-Chlord	13.50	0.00	12507667	0	0.585	N.D.	#
13)	tc 4,4'-DDE	13.56	13.66	19385438	21436576	0.890	0.280	#
14)	tcm Dieldrin	0.00	13.91	0	45232189	N.D.	0.578	#
15)	tcm Endrin	14.40	14.34	26411739	39372795	1.275	0.585	#
16)	tc KEPONE	0.00	14.50	0	13830040	N.D.	0.601	#
17)	tc beta-Endosul	0.00	14.66	0	26709530	N.D.	0.416	#
18)	tc 4,4'-DDD	0.00	14.50	0	13830040	N.D.	0.222	#
19)	tcm 4,4'-DDT	0.00	14.96	0	60980816	N.D.	0.931	#
20)	tc Endrin Aldeh	0.00	15.14	0	59174146	N.D.	1.206	#
22)	tc Methoxychlor	15.57	0.00	2909454	0	0.312	N.D.	#
24)	tc Endrin Keton	0.00	16.32	0	21129260	N.D.	0.337	#
26)	L8C Toxaphene	14.82	14.80	16099505	21031763	40.363	10.870	#
27)	L8C Toxaphene{2}	0.00	15.08	0	16589233	N.D.	18.388	#
28)	L8C Toxaphene{3}	15.50	0.00	6953069	0	10.331	N.D.	#
30)	L8C Toxaphene{5}	16.55	16.68	29152795	58643789	43.798	25.990	#
	Sum Toxaphene			52205368	96264785	94.492	55.248	
	Average Toxaphene					31.497	18.416	
31)	L9C Chlordane	11.60	0.00	200.4E6	0	251.375	N.D.	#

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
33) L9C Chlordane{3}	12.41	12.36	12984040	61422414	12.586	17.158	#
34) L9C Chlordane{4}	0.00	13.21	0	199.8E6	N.D.	19.940	#
35) L9C Chlordane{5}	14.61	0.00	17370827	0	18.591	N.D.	#
Sum Chlordane			230.8E6	261.2E6	282.552	37.099	
Average Chlordane					94.184	18.549	

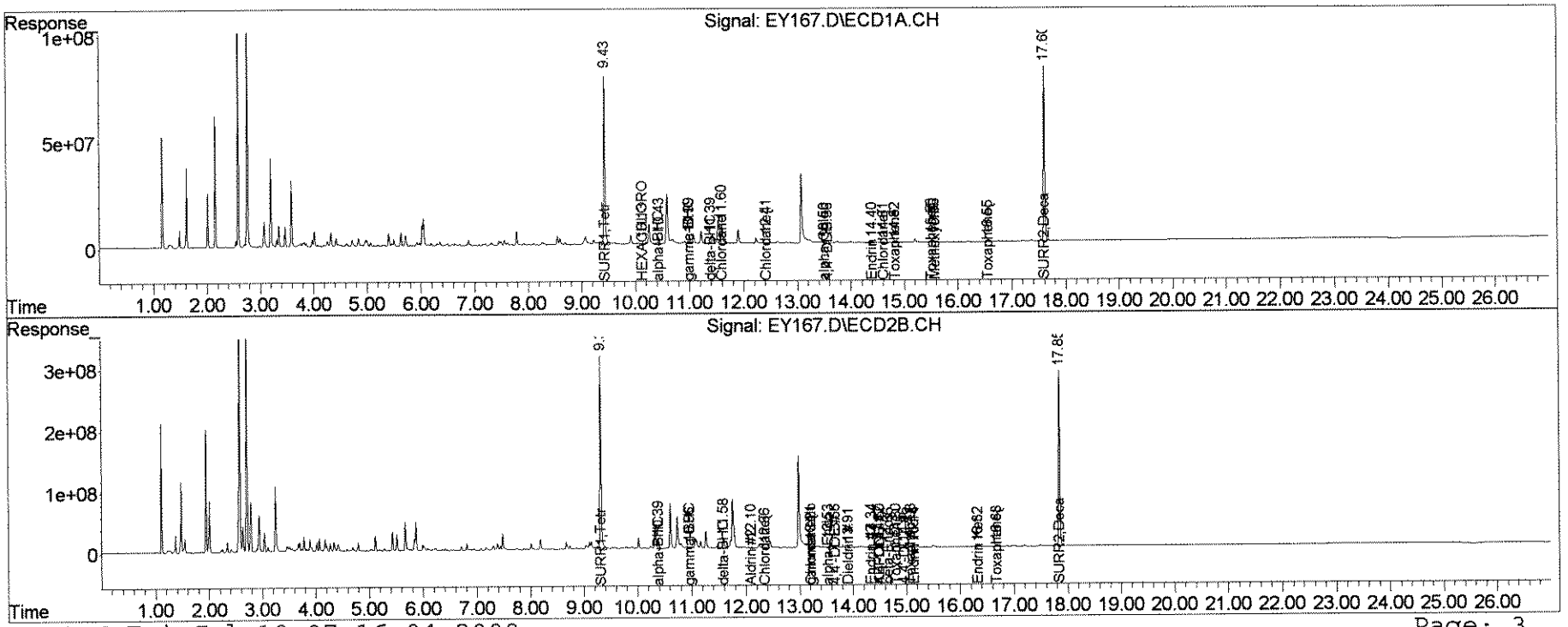
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY167.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 6:38 pm
Operator : M.PEDRO
Sample : 1114419 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:01 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55DB

Date Sampled : 07/01/08 **Order #:** 1114420 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164129

DATE EXTRACTED : 07/03/08
DATE ANALYZED : 07/17/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.068	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	99	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	53	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:58:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	1075.5E6	4264.8E6	53.292	52.704
Spiked Amount 100.000	Range 30 - 150		Recovery =		53.29%	52.70%
25) S SURR2,Decachloro	17.60	17.85	1597.1E6	5443.4E6	91.443	98.836
Spiked Amount 100.000	Range 30 - 150		Recovery =		91.44%	98.84%
Target Compounds						
9) tc Heptachlor E	13.07	12.98	244.9E6	1100.1E6	10.760	13.683m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

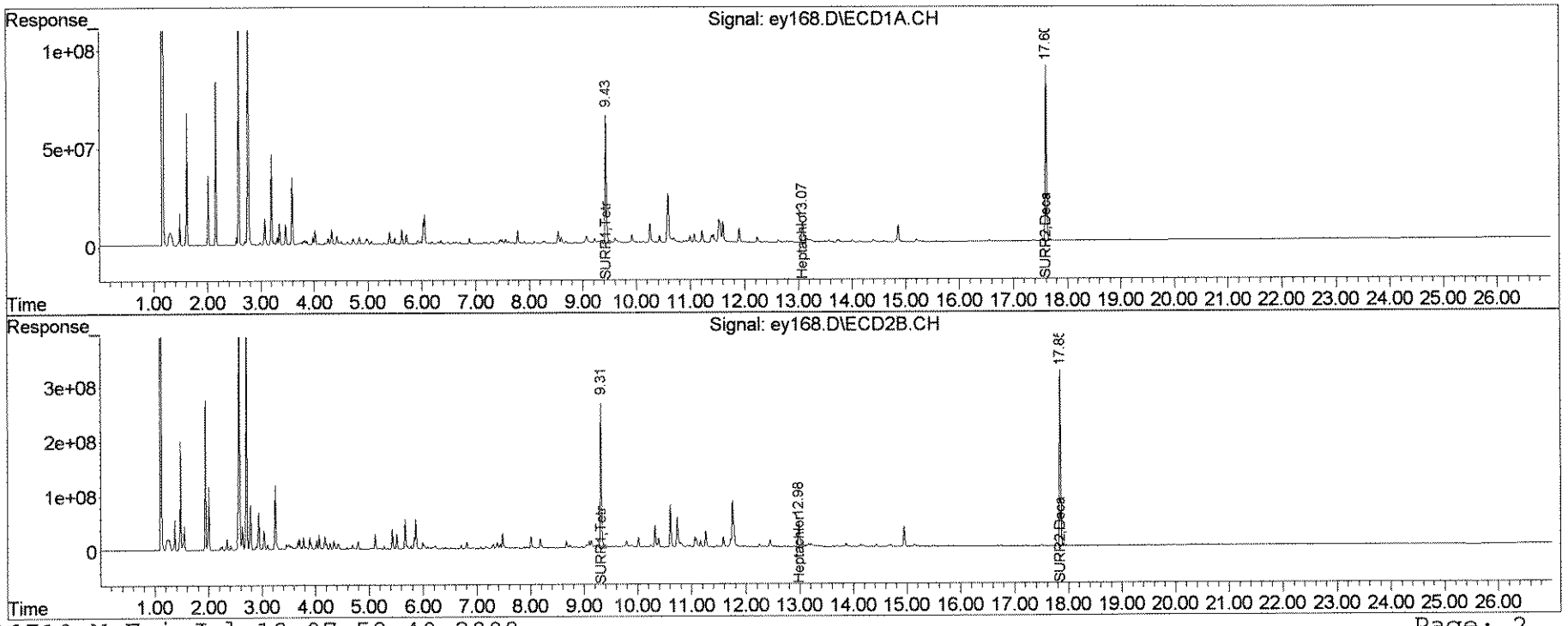
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:58:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

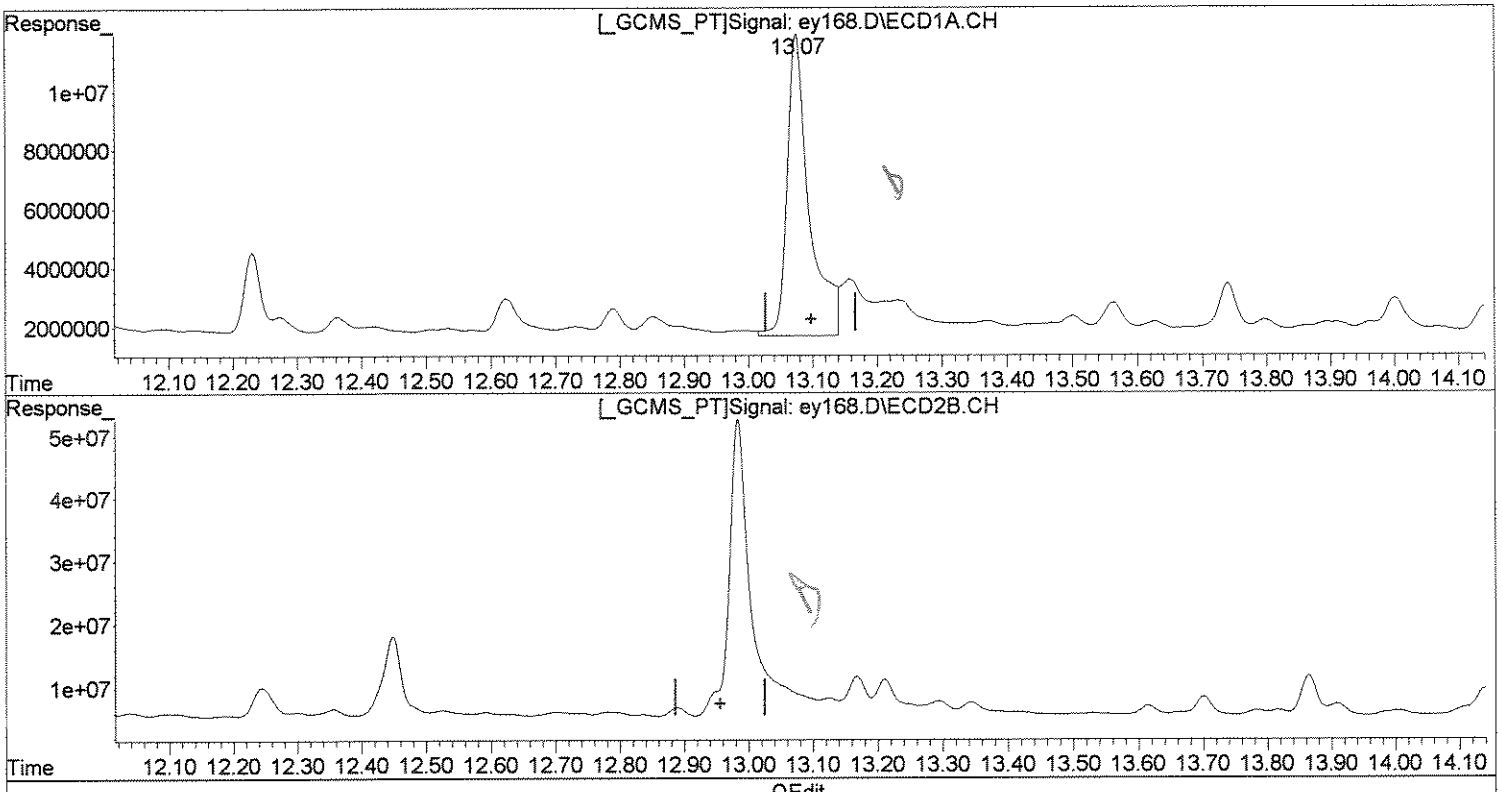


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 10.760ug/l
response 244911640

(9) Heptachlor E #2 (tc)
0.00min 0.000ug/l
response 0

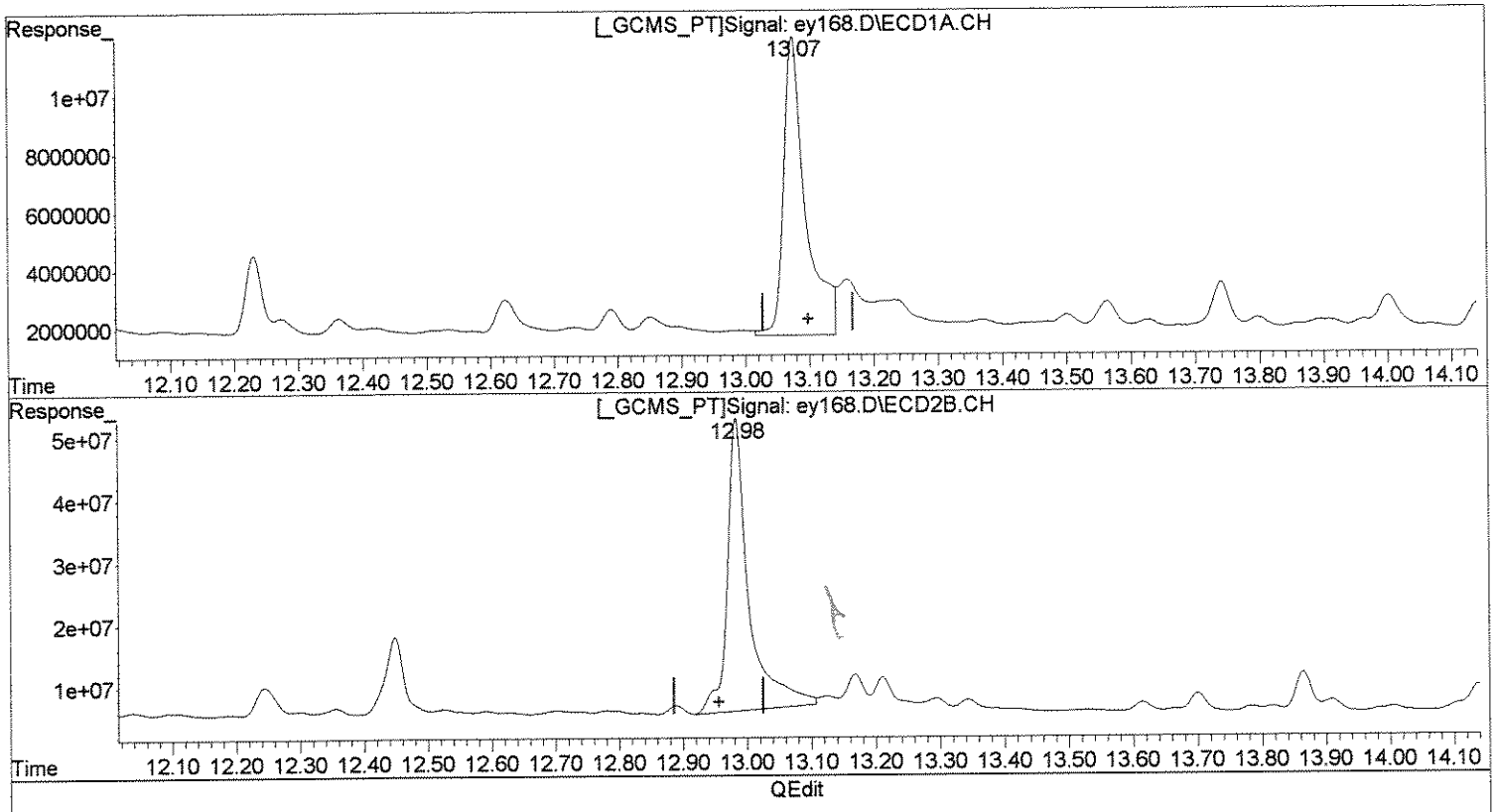
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 10.760ug/l
response 244911640

(9) Heptachlor E #2 (tc)
12.98min 13.683ug/l m
response 1100059486

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1075.5E6	4264.8E6	53.292	52.704	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		53.29%	52.70%	
25)	S SURR2,Decachloro	17.60	17.85	1597.1E6	5443.4E6	91.443	98.836	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		91.44%	98.84%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	25867785	0	0.880	N.D.	#
3)	tc alpha-BHC	10.43	10.39	83891012	370.9E6	2.714	3.125	
4)	tcm gamma-BHC (L	10.99	10.96	88417921	147.7E6	3.135	1.406	#
6)	tcm Aldrin	0.00	12.10	0	75444207	N.D.	0.828	#
8)	tc delta-BHC	11.39	11.58	67576414	452.0E6	2.485	4.378	#
9)	tc Heptachlor E	13.07	0.00	244.9E6	0	10.760	N.D.	#
10)	tc alpha-Endosu	0.00	13.53	0	66032315	N.D.	0.930	#
11)	tc gamma-Chlord	0.00	13.21	0	179.5E6	N.D.	2.189	#
12)	tc alpha-Chlord	13.50	0.00	29260769	0	1.368	N.D.	#
13)	tc 4,4'-DDE	13.56	13.67	26047022	18944619	1.196	0.247	#
14)	tcm Dieldrin	0.00	13.91	0	61354417	N.D.	0.784	#
15)	tcm Endrin	14.40	14.34	38329511	32630489	1.850	0.484	#
16)	tc KEPONE	14.47	14.50	6596375	18000480	0.902	0.783	
17)	tc beta-Endosul	0.00	14.66	0	65187298	N.D.	1.015	#
18)	tc 4,4'-DDD	14.47	14.50	6596375	18000480	0.367	0.289	
19)	tcm 4,4'-DDT	14.86	14.95	186.4E6	691.4E6	9.738	10.554	
20)	tc Endrin Aldeh	15.36	15.14	6665292	108.2E6	0.454	2.207	#
22)	tc Methoxychlor	15.57	0.00	2654306	0	0.285	N.D.	#
24)	tc Endrin Keton	0.00	16.33	0	17663805	N.D.	0.282	#
26)	L8C Toxaphene	0.00	14.80	0	28744405	N.D.	14.856	#
27)	L8C Toxaphene{2}	0.00	15.08	0	26960357	N.D.	29.884	#
28)	L8C Toxaphene{3}	15.51	0.00	7496481	0	11.138	N.D.	#
30)	L8C Toxaphene{5}	16.55	16.68	15357418	24732867	23.073	10.961	#
	Sum Toxaphene			22853899	80437629	34.211	55.701	
	Average Toxaphene					17.105	18.567	

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
31) L9C Chlordane	11.60	0.00	237.6E6	0	297.954	N.D.	#
33) L9C Chlordane{3}	12.42	12.36	13373030	69153246	12.963	19.318	#
34) L9C Chlordane{4}	0.00	13.21	0	179.5E6	N.D.	17.916	#
35) L9C Chlordane{5}	14.59	0.00	20589799	0	22.036	N.D.	#
Sum Chlordane			271.5E6	248.7E6	332.953	37.233	
Average Chlordane					110.984	18.617	

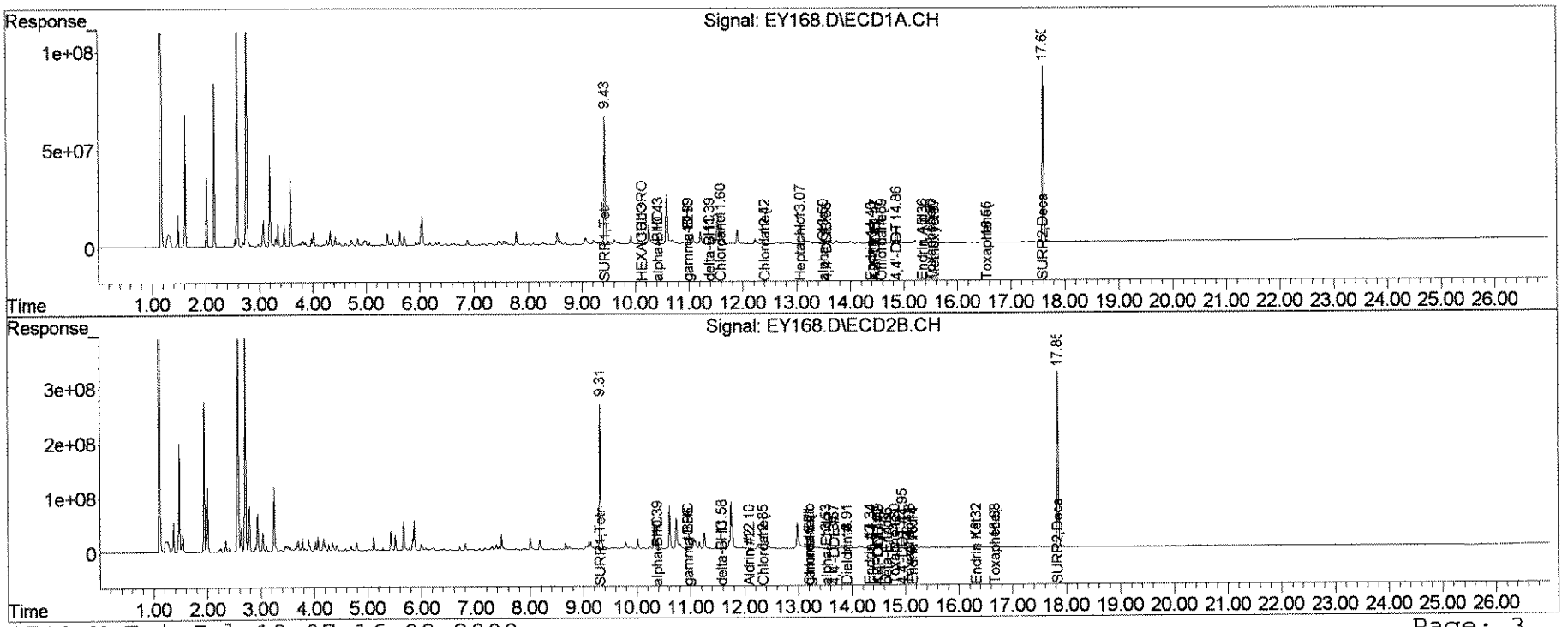
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY168.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:14 pm
Operator : M.PEDRO
Sample : 1114420 1.0
Misc : 07/03/08 200 ensr r44803 8081
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803 **Analytical Run** 164129

DATE EXTRACTED : 07/03/08
DATE ANALYZED : 07/17/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.047 U	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.10	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	95	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	74	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:00:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	1499.0E6	5808.4E6	74.281	71.779
Spiked Amount 100.000	Range 30 - 150		Recovery =		74.28%	71.78%
25) S SURR2,Decachloro	17.60	17.85	1541.4E6	5205.1E6	88.254	94.509
Spiked Amount 100.000	Range 30 - 150		Recovery =		88.25%	94.51%
Target Compounds						
9) tc Heptachlor E	13.07	12.98	379.5E6	1727.9E6	16.675m	21.493m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

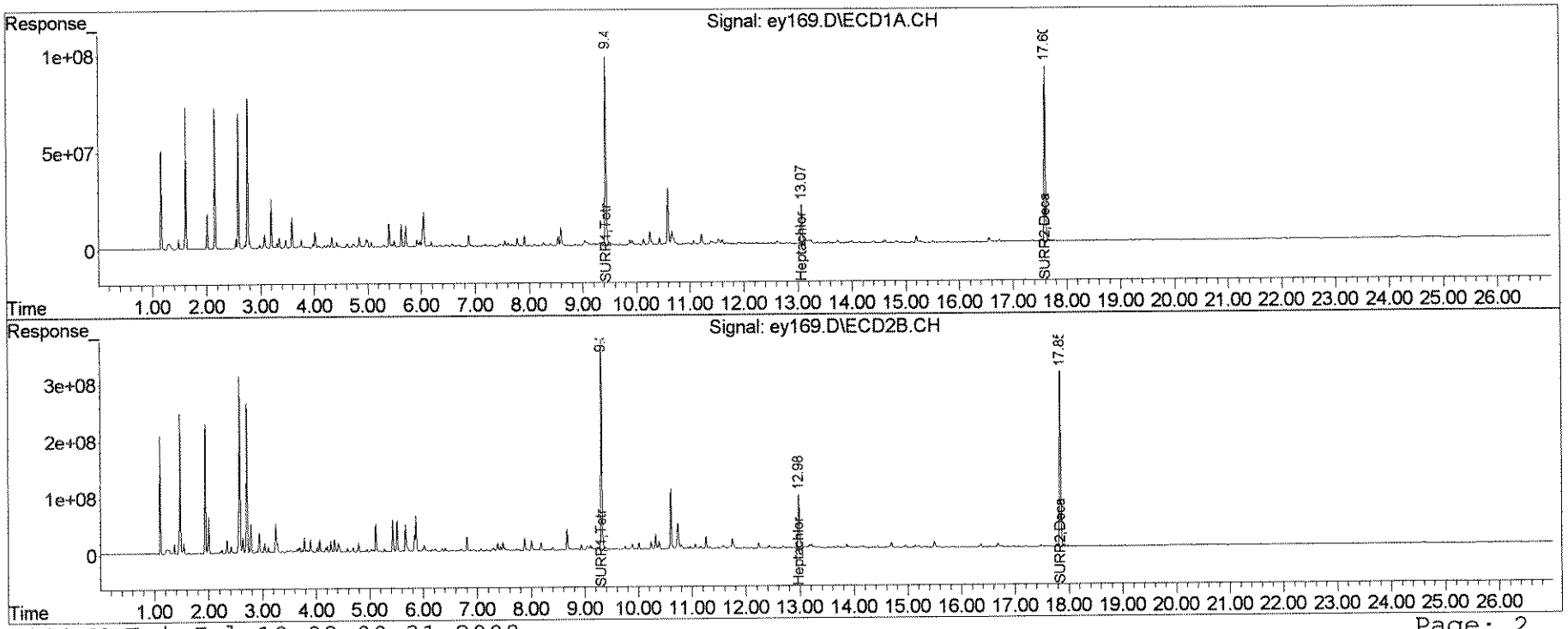
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:00:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



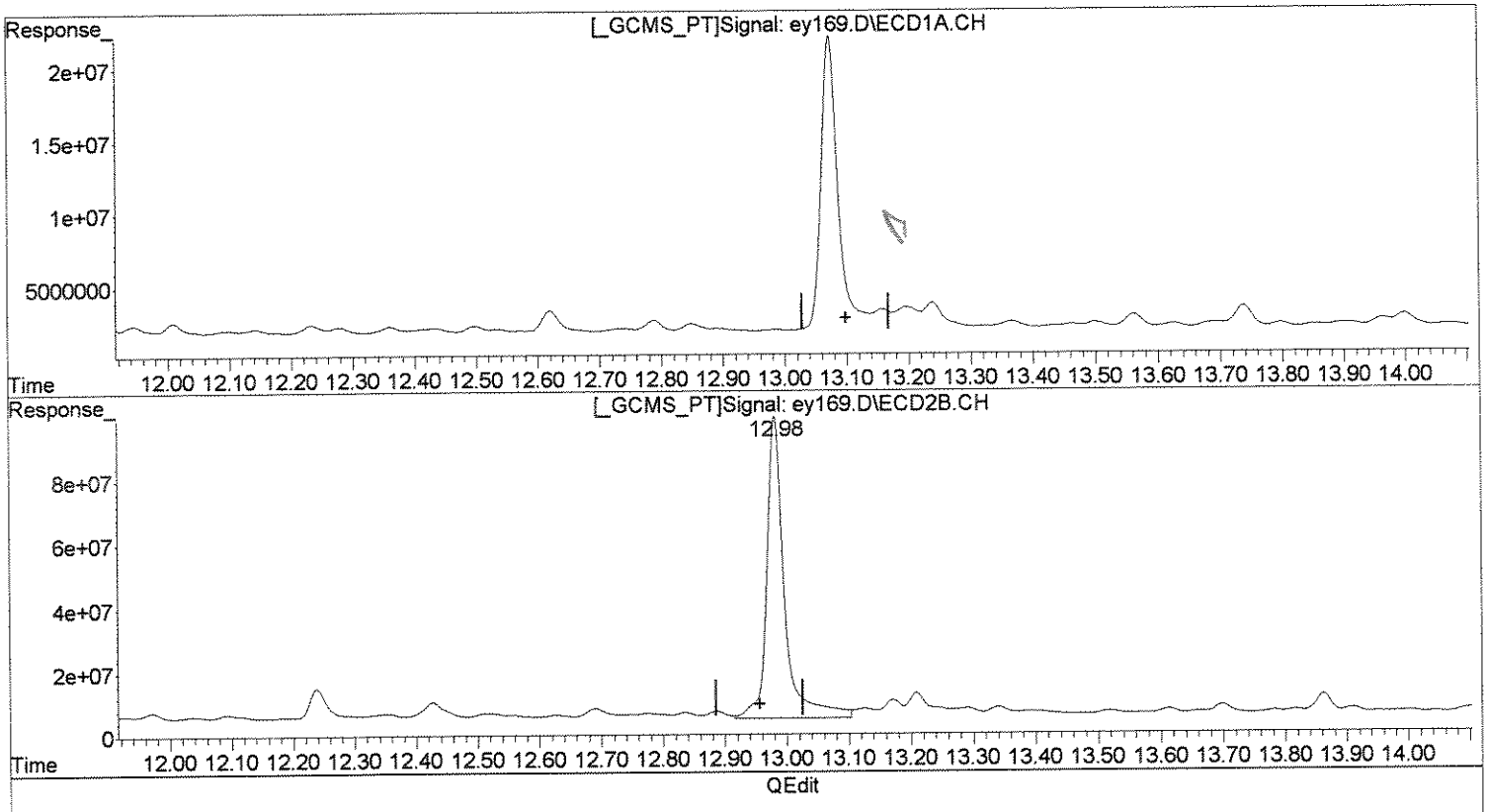
J1n169

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
12.98min 23.501ug/l
response 1889422251

(+) = Expected Retention Time

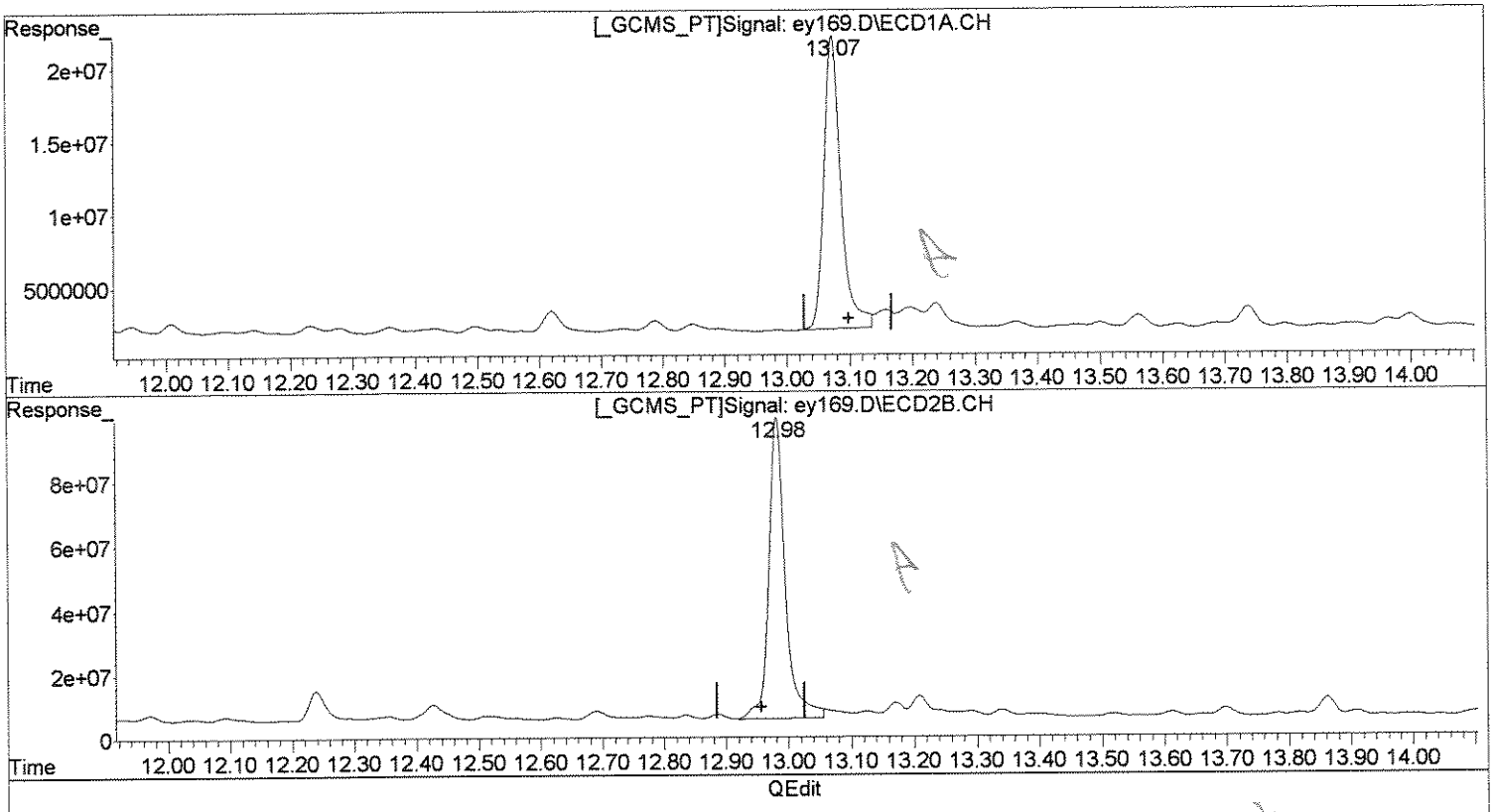
00448

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 16.675ug/l m
response 379541990

(9) Heptachlor E #2 (tc)
12.98min 21.493ug/l m
response 1727943040

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1499.0E6	5808.4E6	74.281	71.779	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		74.28%	71.78%	
25)	S SURR2,Decachloro	17.60	17.85	1541.4E6	5205.1E6	88.254	94.509	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		88.25%	94.51%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	59311941	0	2.018	N.D.	#
3)	tc alpha-BHC	10.43	10.39	71342140	312.9E6	2.308	2.637	
4)	tcm gamma-BHC (L	10.96	10.96	20744254	133.5E6	0.735	1.271	#
5)	tcm Heptachlor	11.71	0.00	14859698	0	0.532	N.D.	#
6)	tcm Aldrin	0.00	12.09	0	85733829	N.D.	0.941	#
7)	tc beta-BHC	11.11	11.11	18917453	66157132	1.647	1.466	
8)	tc delta-BHC	11.39	11.58	33815032	305.6E6	1.243	2.960	#
9)	tc Heptachlor E	0.00	12.98	0	1889.4E6	N.D.	23.501	#
10)	tc alpha-Endosu	13.69	13.52	9142936	63481458	0.447	0.894	#
11)	tc gamma-Chlord	0.00	13.21	0	201.2E6	N.D.	2.452	#
12)	tc alpha-Chlord	13.46	0.00	12411628	0	0.580	N.D.	#
13)	tc 4,4'-DDE	13.56	13.66	22424984	28875092	1.030	0.377	#
14)	tcm Dieldrin	0.00	13.91	0	47050883	N.D.	0.601	#
15)	tcm Endrin	14.39	14.37	35597788	17428150	1.718	0.259	#
16)	tc KEPONE	0.00	14.50	0	10257108	N.D.	0.446	#
18)	tc 4,4'-DDD	14.47	14.50	6107655	10257108	0.339	0.165	#
19)	tcm 4,4'-DDT	14.85	14.95	8685013	118.9E6	0.454	1.815	#
20)	tc Endrin Aldeh	15.36	0.00	4688063	0	0.319	N.D.	#
21)	tc Endosulfan S	0.00	15.59	0	10428950	N.D.	0.182	#
24)	tc Endrin Keton	0.00	16.32	0	29597848	N.D.	0.472	#
26)	L8C Toxaphene	14.82	14.80	18796113	31653937	47.124	16.360	#
27)	L8C Toxaphene{2}	0.00	15.08	0	22450260	N.D.	24.885	#
28)	L8C Toxaphene{3}	15.50	0.00	15626008	0	23.217	N.D.	#
29)	L8C Toxaphene{4}	16.33	16.44	2100875	13812029	2.567	7.171	#
30)	L8C Toxaphene{5}	16.55	16.68	56229847	143.1E6	84.478	63.400	
	Sum Toxaphene			92752843	211.0E6	157.386	111.816	

00450

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Average Toxaphene					39.346	27.954	
31) L9C Chlordane	11.60	0.00	51057087	0	64.039	N.D.	#
32) L9C Chlordane{2}	11.71	0.00	14859698	0	13.191	N.D.	#
33) L9C Chlordane{3}	0.00	12.35	0	75743792	N.D.	21.159	#
34) L9C Chlordane{4}	0.00	13.21	0	201.2E6	N.D.	20.074	#
35) L9C Chlordane{5}	14.61	0.00	38563251	0	41.271	N.D.	#
Sum Chlordane			104.5E6	276.9E6	118.501	41.233	
Average Chlordane					39.500	20.616	

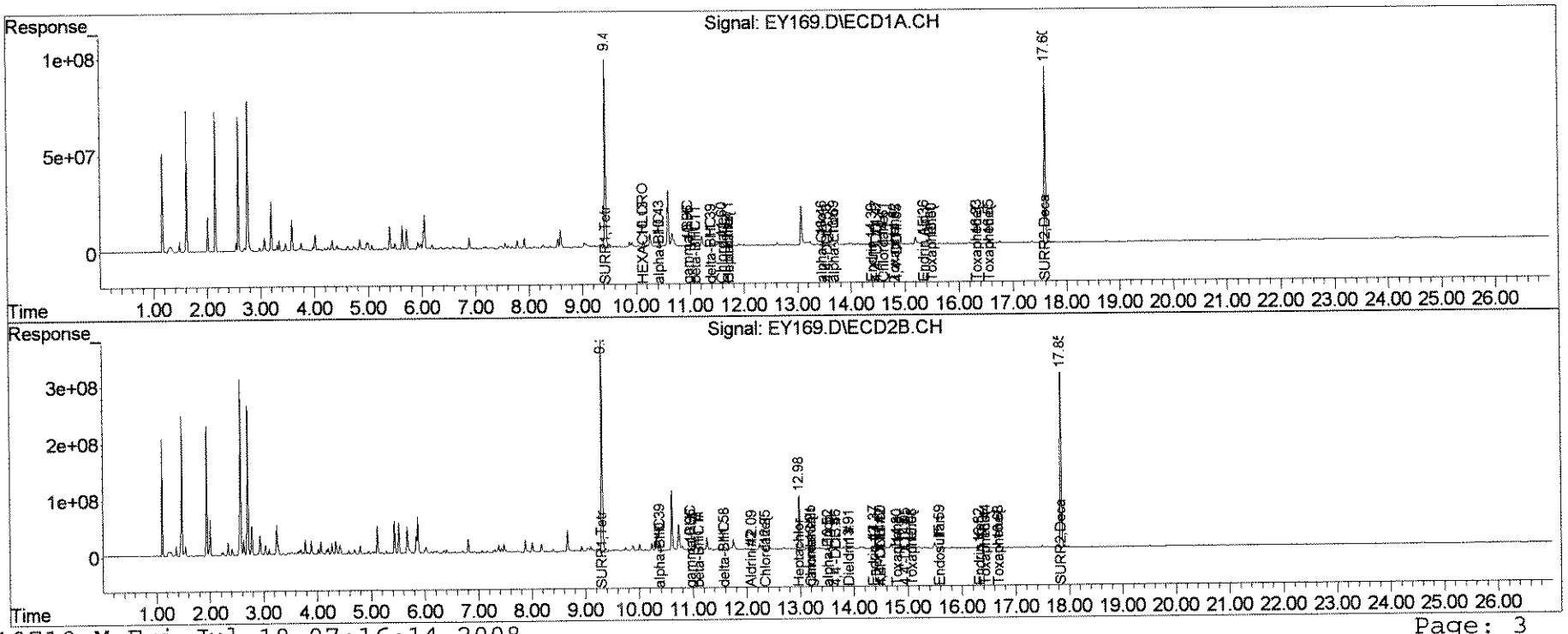
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY169.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 7:49 pm
Operator : M.PEDRO
Sample : 1114421 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.047	0.047 U	UG/L
ALPHA-BHC	0.047	0.13	UG/L
BETA-BHC	0.047	0.047 U	UG/L
GAMMA-BHC	0.047	0.047 U	UG/L
DELTA-BHC	0.047	0.047 U	UG/L
ALPHA-CHLORDANE	0.047	0.047 U	UG/L
GAMMA-CHLORDANE	0.047	0.047 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.047	0.047 U	UG/L
4,4'-DDT	0.047	0.047 U	UG/L
DIELDRIN	0.094	0.094 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.047 U	UG/L
BETA-ENDOSULFAN	0.094	0.094 U	UG/L
ENDOSULFAN SULFATE	0.094	0.094 U	UG/L
ENDRIN	0.047	0.047 U	UG/L
ENDRIN ALDEHYDE	0.094	0.094 U	UG/L
ENDRIN KETONE	0.094	0.094 U	UG/L
HEPTACHLOR	0.047	0.047 U	UG/L
HEPTACHLOR EPOXIDE	0.047	0.38 E	UG/L
HEXACHLOROBENZENE	0.047	0.047 U	UG/L
METHOXYCHLOR	0.47	0.47 U	UG/L
4,4'-TDE (DDD)	0.047	0.047 U	UG/L
TOXAPHENE	0.94	0.94 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	70	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	67	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:07:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	1344.1E6	5147.9E6	66.604	63.617
Spiked Amount 100.000	Range 30 - 150		Recovery =		66.60%	63.62%
25) S SURR2,Decachloro	17.60	17.84	1140.0E6	3860.5E6	65.271	70.095
Spiked Amount 100.000	Range 30 - 150		Recovery =		65.27%	70.09%
Target Compounds						
3) tc alpha-BHC	10.43	10.39	851.1E6	3156.1E6	27.528	26.595
9) tc Heptachlor E	13.07	12.98	1606.0E6	6489.6E6	70.559m	80.719m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

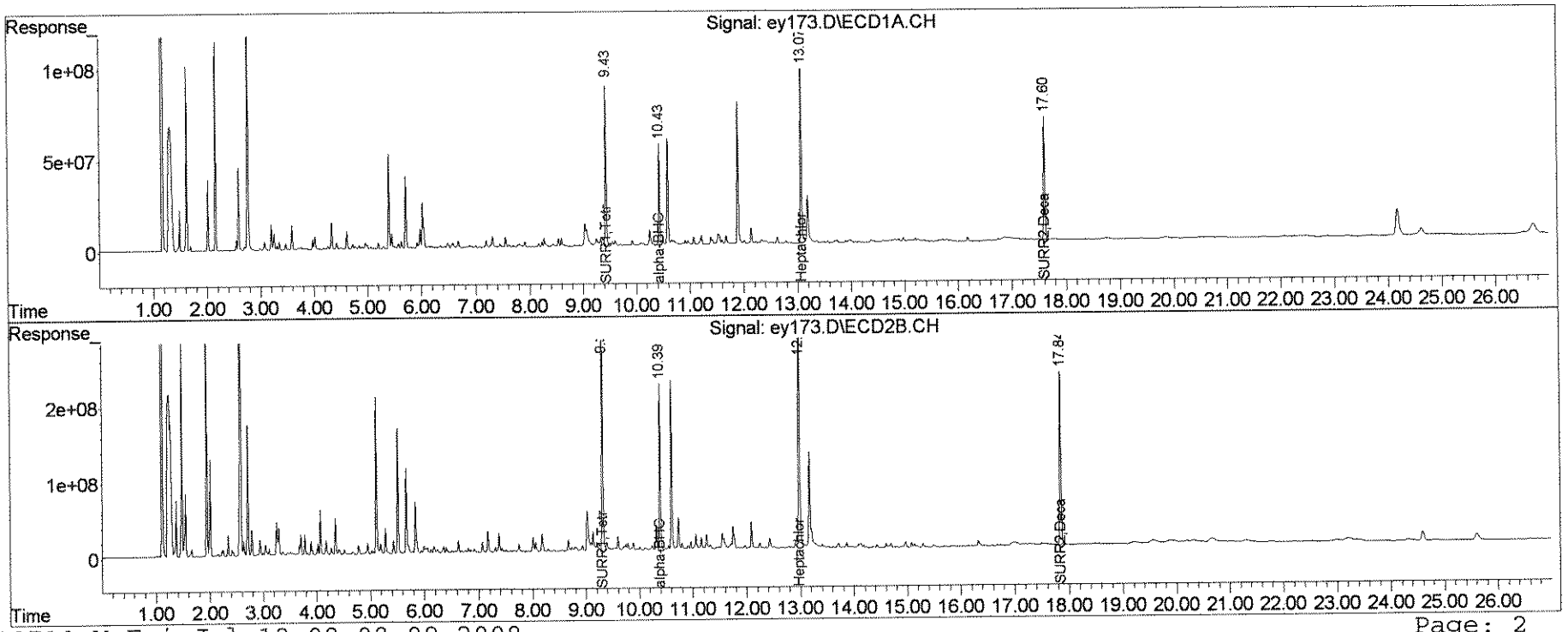
00454

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:07:30 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

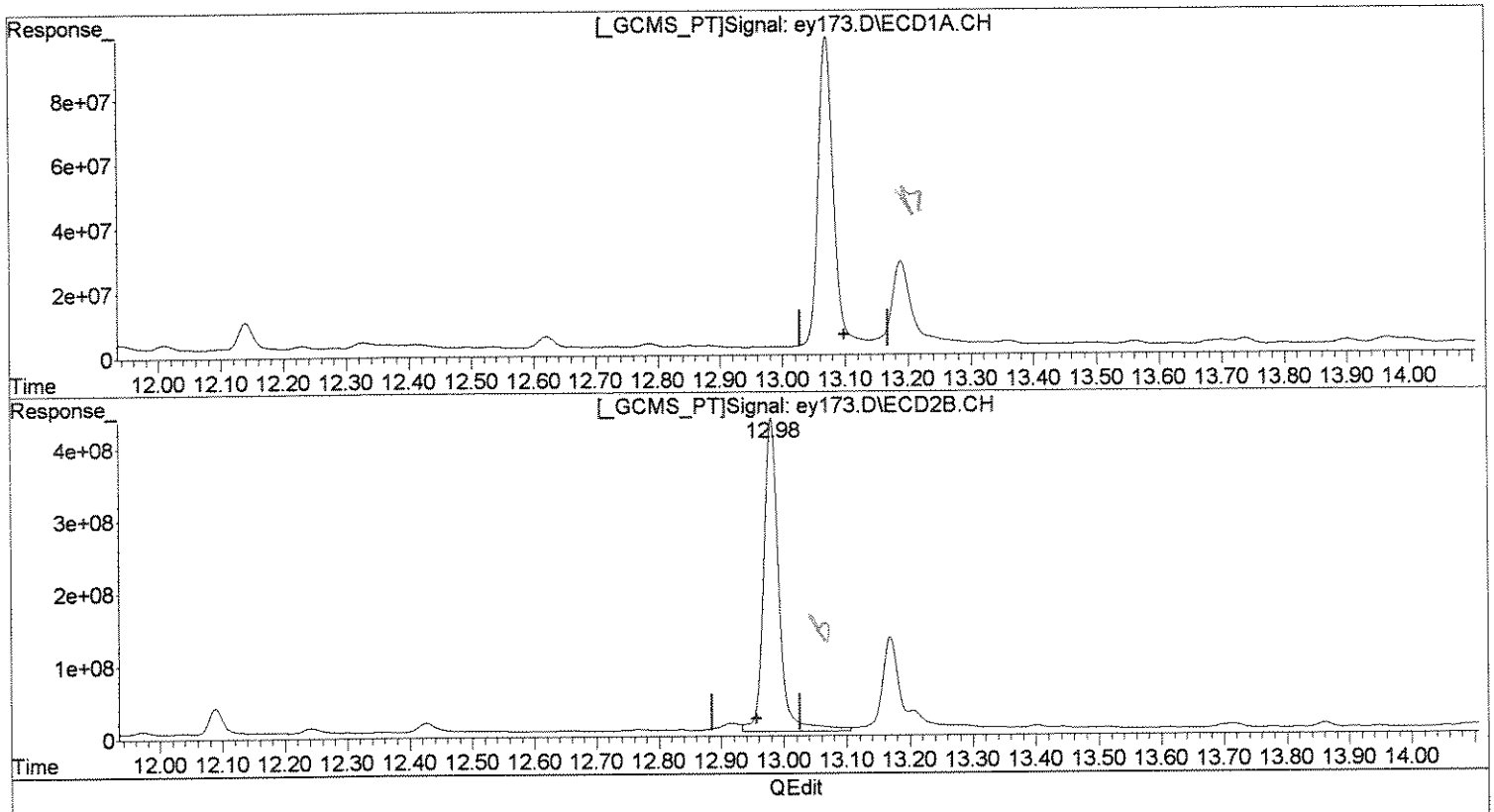


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
12.98min 90.477ug/l
response 7274023102

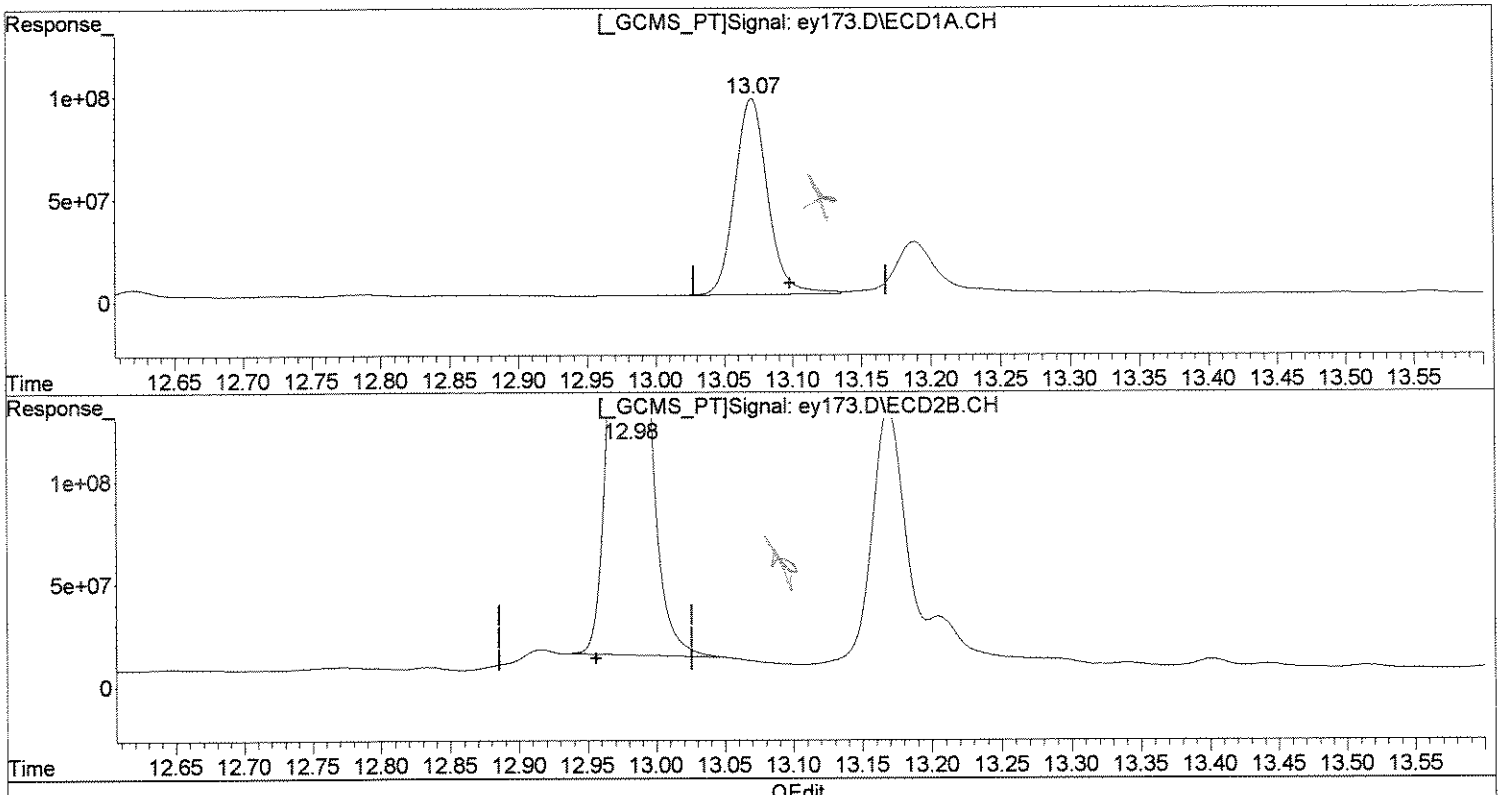
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
13.07min 70.559ug/l m
response 1606035272

(9) Heptachlor E #2 (tc)
12.98min 80.719ug/l m
response 6489555439

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1344.1E6	5147.9E6	66.604	63.617	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		66.60%	63.62%	
25)	S SURR2,Decachloro	17.60	17.84	1140.0E6	3860.5E6	65.271	70.095	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		65.27%	70.09%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	27191783	0	0.925	N.D.	#
3)	tc alpha-BHC	10.43	10.39	851.1E6	3156.1E6	27.528	26.595	
4)	tcm gamma-BHC (L	10.96	10.96	62657496	212.9E6	2.221	2.026	
8)	tc delta-BHC	11.39	11.58	74034636	392.1E6	2.722	3.798	#
9)	tc Heptachlor E	0.00	12.98	0	7274.0E6	N.D.	90.477	#
10)	tc alpha-Endosu	13.70	13.51	33291360	94483758	1.627	1.331	
12)	tc alpha-Chlord	13.50	13.44	29939329	106.6E6	1.400	1.372	
13)	tc 4,4'-DDE	13.56	0.00	23139977	0	1.062	N.D.	#
14)	tcm Dieldrin	0.00	13.91	0	40692936	N.D.	0.520	#
15)	tcm Endrin	14.37	14.36	57949939	53898025	2.797	0.800	#
16)	tc KEPONE	14.47	14.51	12412093	15444020	1.697	0.672	#
17)	tc beta-Endosul	14.74	14.65	47650418	45475649	2.563	0.708	#
18)	tc 4,4'-DDD	14.47	14.51	12412093	15444020	0.690	0.248	#
19)	tcm 4,4'-DDT	14.88	14.96	46919003	192.4E6	2.452	2.938	
20)	tc Endrin Aldeh	15.35	15.18	28637824	43327174	1.951	0.883	#
21)	tc Endosulfan S	0.00	15.59	0	1264980	N.D.	0.022	#
22)	tc Methoxychlor	15.57	0.00	5118849	0	0.550	N.D.	#
24)	tc Endrin Keton	0.00	16.32	0	138.5E6	N.D.	2.207	#
26)	L8C Toxaphene	14.82	14.80	59364984	24958223	148.835	12.899	#
27)	L8C Toxaphene{2}	14.88	15.08	46919003	119.4E6	131.880	132.374	
28)	L8C Toxaphene{3}	15.50	15.18	6292001	43327174	9.349	23.177	#
29)	L8C Toxaphene{4}	0.00	16.44	0	21773801	N.D.	11.305	#
30)	L8C Toxaphene{5}	16.55	16.67	14201151	25053393	21.335	11.103	#
	Sum Toxaphene			126.8E6	234.5E6	311.399	190.858	
	Average Toxaphene					77.850	38.172	

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
31) L9C Chlordane	11.60	0.00	55906166	0	70.121	N.D.	#
33) L9C Chlordane{3}	12.41	12.36	58602586	80794979	56.806	22.570	#
35) L9C Chlordane{5}	14.60	14.75	36086787	19170667	38.621	5.435	#
Sum Chlordane			150.6E6	99965646	165.549	28.005	
Average Chlordane					55.183	14.002	

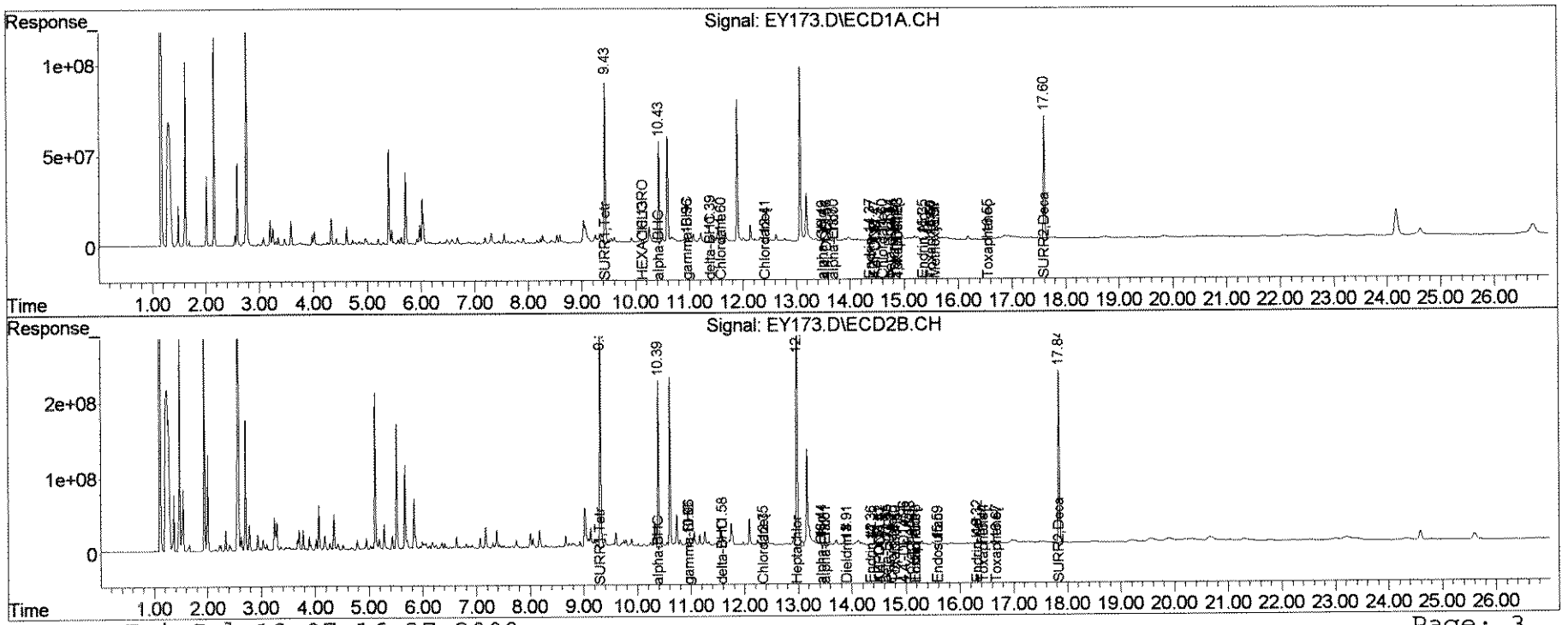
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY173.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:12 pm
Operator : M.PEDRO
Sample : 1114756 1.0
Misc : 07/03/08 212 ensr r44803 8081
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/21/08			
ANALYTICAL DILUTION: 2.00			
ALDRIN	0.047	0.094 U	UG/L
ALPHA-BHC	0.047	0.35 D	UG/L
BETA-BHC	0.047	0.094 U	UG/L
GAMMA-BHC	0.047	0.094 U	UG/L
DELTA-BHC	0.047	0.094 U	UG/L
ALPHA-CHLORDANE	0.047	0.094 U	UG/L
GAMMA-CHLORDANE	0.047	0.094 U	UG/L
CHLORDANE	0.24	0.48 U	UG/L
4,4'-DDE	0.047	0.094 U	UG/L
4,4'-DDT	0.047	0.094 U	UG/L
DIELDRIN	0.094	0.19 U	UG/L
ALPHA-ENDOSULFAN	0.047	0.094 U	UG/L
BETA-ENDOSULFAN	0.094	0.19 U	UG/L
ENDOSULFAN SULFATE	0.094	0.19 U	UG/L
ENDRIN	0.047	0.094 U	UG/L
ENDRIN ALDEHYDE	0.094	0.19 U	UG/L
ENDRIN KETONE	0.094	0.19 U	UG/L
HEPTACHLOR	0.047	0.094 U	UG/L
HEPTACHLOR EPOXIDE	0.047	1.1 D	UG/L
HEXACHLOROBENZENE	0.047	0.094 U	UG/L
METHOXYCHLOR	0.47	0.94 U	UG/L
4,4'-TDE (DDD)	0.047	0.094 U	UG/L
TOXAPHENE	0.94	1.9 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	89	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	90	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:48:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	912.2E6	3507.0E6	45.202	43.339
Spiked Amount 100.000	Range 30 - 150		Recovery =		45.20%	43.34%
25) S SURR2,Decachloro	17.60	17.84	776.2E6	2405.8E6	44.441	43.682
Spiked Amount 100.000	Range 30 - 150		Recovery =		44.44%	43.68%
Target Compounds						
3) tc alpha-BHC	10.43	10.39	574.4E6	2114.1E6	18.581	17.814
9) tc Heptachlor E	13.07	12.98	1141.2E6	4605.6E6	50.137m	57.286m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

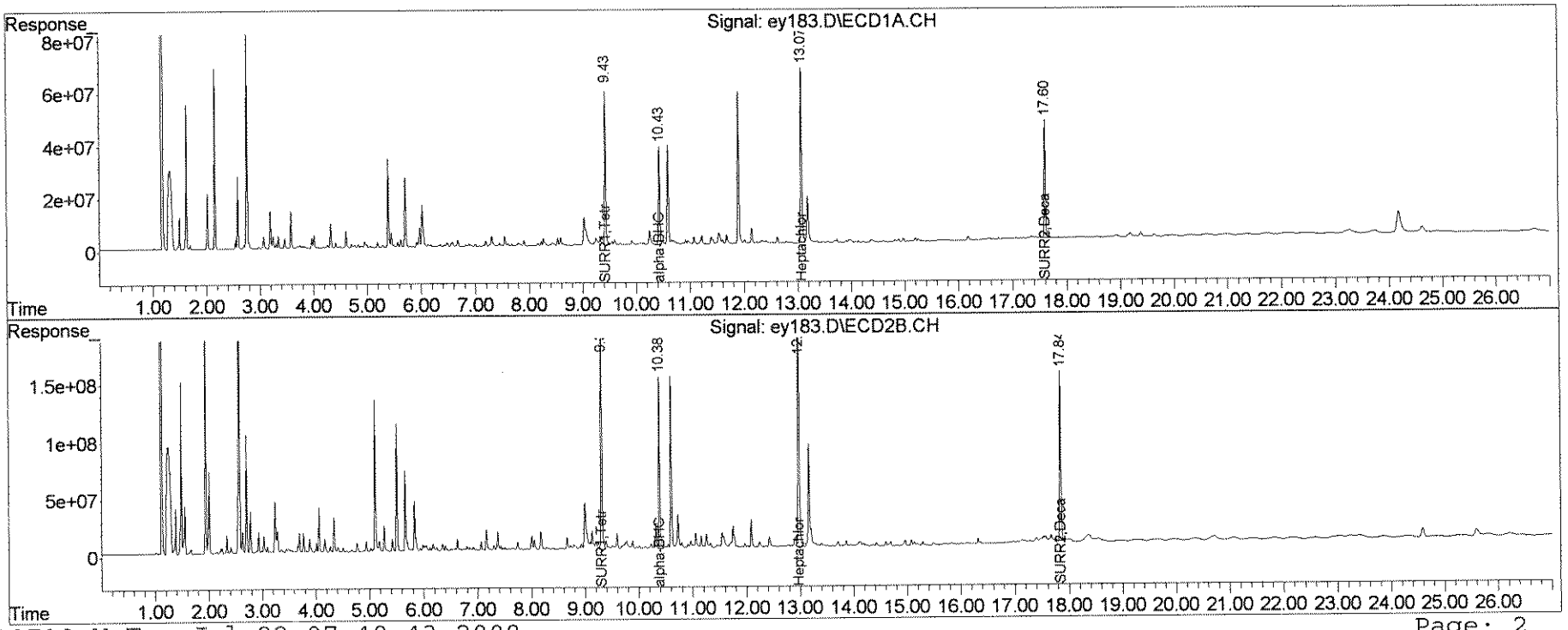
00462

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:48:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

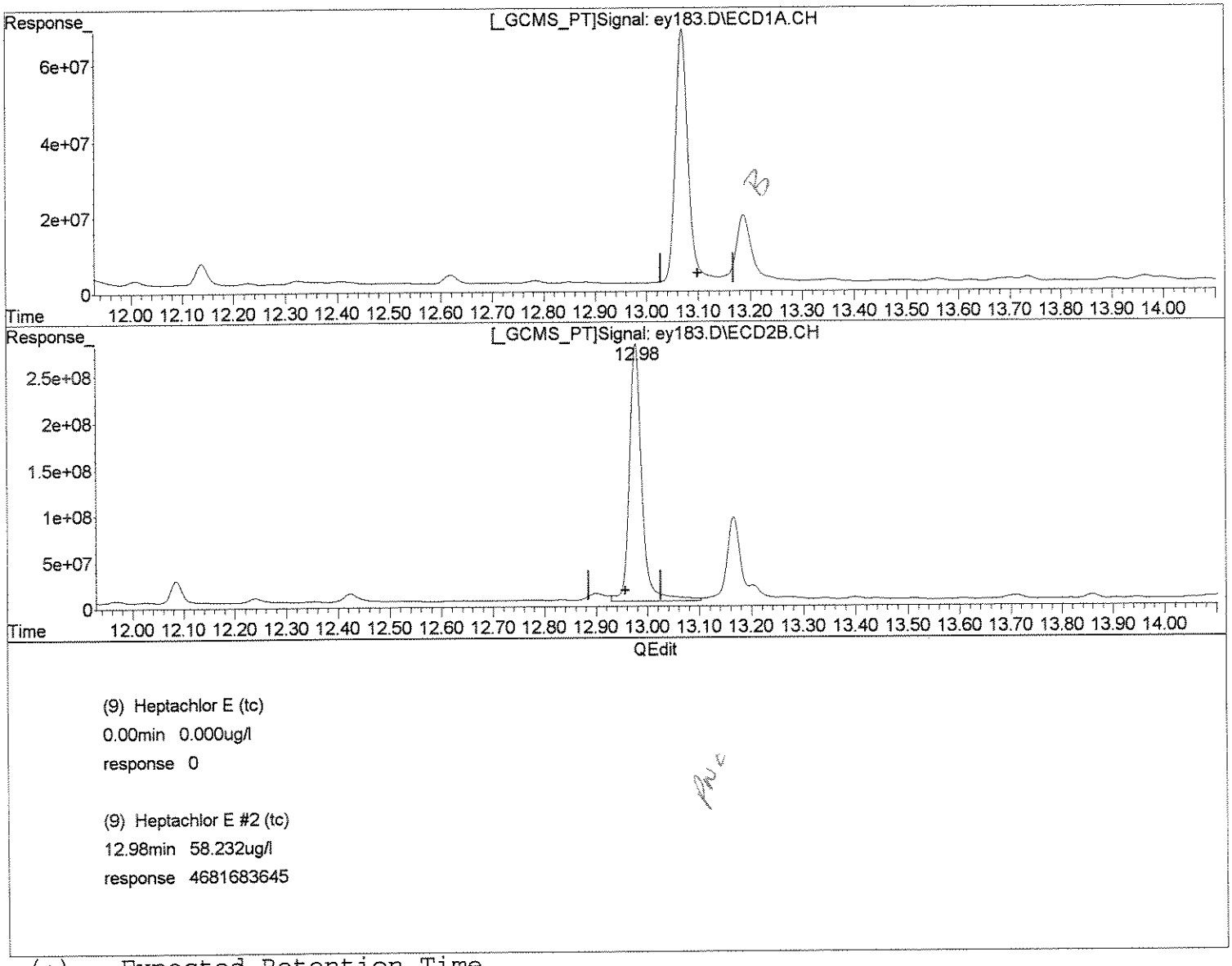


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
12.98min 58.232ug/l
response 4681683645

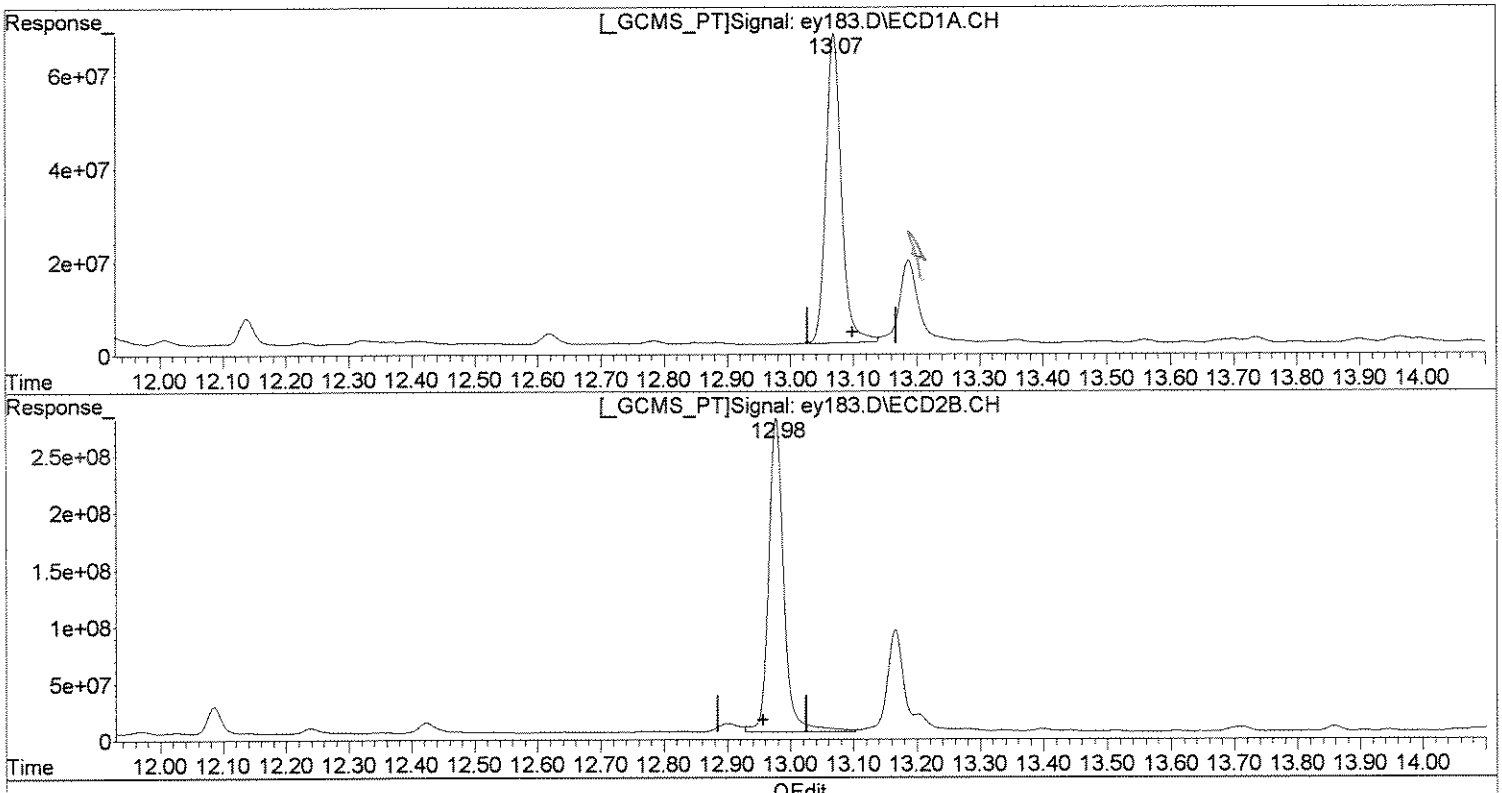
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.07min 50.137ug/l m
response 1141195128

(9) Heptachlor E #2 (tc)
12.98min 57.286ug/l m
response 4605564965

(+) = Expected Retention Time

00465

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : EY183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	912.2E6	3507.0E6	45.202	43.339	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		45.20%	43.34%	
25)	S SURR2,Decachloro	17.60	17.84	776.2E6	2405.8E6	44.441	43.682	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		44.44%	43.68%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	16818111	0	0.572	N.D.	#
3)	tc alpha-BHC	10.43	10.39	574.4E6	2114.1E6	18.581	17.814	
4)	tcm gamma-BHC (L	10.96	10.96	41328601	130.2E6	1.465	1.239	
8)	tc delta-BHC	11.39	11.57	50113991	230.1E6	1.843	2.229	
9)	tc Heptachlor E	0.00	12.98	0	4681.7E6	N.D.	58.232	#
10)	tc alpha-Endosu	13.70	13.51	22368737	36605318	1.093	0.516	#
12)	tc alpha-Chlord	13.50	13.44	18351869	44796441	0.858	0.577	#
13)	tc 4,4'-DDE	13.56	0.00	15289321	0	0.702	N.D.	#
14)	tcm Dieldrin	0.00	13.91	0	23168699	N.D.	0.296	#
15)	tcm Endrin	14.37	14.36	34192224	39928214	1.650	0.593	#
16)	tc KEPONE	14.47	14.51	4906995	4578619	0.671	0.199	#
17)	tc beta-Endosul	0.00	14.65	0	28356659	N.D.	0.442	#
18)	tc 4,4'-DDD	14.47	14.51	4906995	4578619	0.273	0.074	#
19)	tcm 4,4'-DDT	14.88	14.96	21672469	133.7E6	1.132	2.041	#
20)	tc Endrin Aldeh	0.00	15.18	0	42170689	N.D.	0.860	#
22)	tc Methoxychlor	15.58	0.00	2887776	0	0.310	N.D.	#
24)	tc Endrin Keton	0.00	16.32	0	80785782	N.D.	1.288	#
26)	L8C Toxaphene	14.82	14.80	17921215	9031265	44.930	4.668	#
27)	L8C Toxaphene{2}	14.88	15.08	21672469	89080472	60.917	98.741	#
28)	L8C Toxaphene{3}	15.50	15.18	2196364	42170689	3.263	22.559	#
29)	L8C Toxaphene{4}	0.00	16.46	0	6371448	N.D.	3.308	#
30)	L8C Toxaphene{5}	16.55	16.67	22967625	10847801	34.506	4.808	#
	Sum Toxaphene			64757673	157.5E6	143.617	134.083	
Average	Toxaphene					35.904	26.817	
31)	L9C Chlordane	11.60	0.00	34133423	0	42.812	N.D.	#

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : EY183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
33) L9C Chlordane{3}	12.41	12.35	32862908	34837304	31.856	9.732	#
35) L9C Chlordane{5}	14.60	14.75	16279815	5502376	17.423	1.560	#
Sum Chlordane			83276146	40339680	92.091	11.292	
Average Chlordane					30.697	5.646	

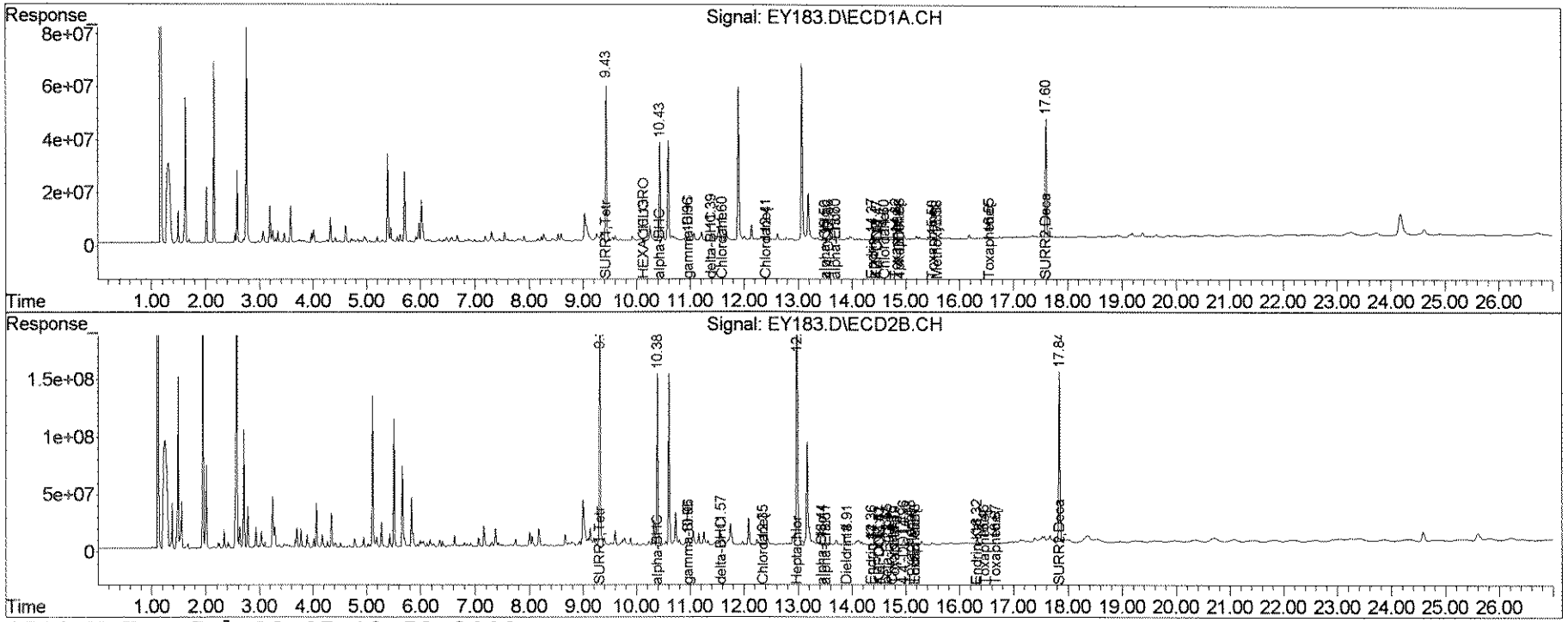
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : EY183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 9:49 am
Operator : M.PEDRO
Sample : 1114756 2.0
Misc : 07/03/08 106 ensr r44803 8081
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : EB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114758 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803 **Analytical Run** 164129

DATE EXTRACTED : 07/03/08
DATE ANALYZED : 07/17/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ALDRIN	0.048	0.048 U	UG/L
ALPHA-BHC	0.048	0.048 U	UG/L
BETA-BHC	0.048	0.048 U	UG/L
GAMMA-BHC	0.048	0.048 U	UG/L
DELTA-BHC	0.048	0.094	UG/L
ALPHA-CHLORDANE	0.048	0.048 U	UG/L
GAMMA-CHLORDANE	0.048	0.048 U	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.048	0.048 U	UG/L
4,4'-DDT	0.048	0.048 U	UG/L
DIELDRIN	0.096	0.096 U	UG/L
ALPHA-ENDOSULFAN	0.048	0.096	UG/L
BETA-ENDOSULFAN	0.096	0.096 U	UG/L
ENDOSULFAN SULFATE	0.096	0.096 U	UG/L
ENDRIN	0.048	0.048 U	UG/L
ENDRIN ALDEHYDE	0.096	0.096 U	UG/L
ENDRIN KETONE	0.096	0.096 U	UG/L
HEPTACHLOR	0.048	0.048 U	UG/L
HEPTACHLOR EPOXIDE	0.048	0.28	UG/L
HEXACHLOROBENZENE	0.048	0.048 U	UG/L
METHOXYCHLOR	0.48	0.48 U	UG/L
4,4'-TDE (DDD)	0.048	0.048 U	UG/L
TOXAPHENE	0.96	0.96 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	54	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	81	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:10:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	1631.1E6	6038.8E6	80.825	74.627
Spiked Amount 100.000	Range 30 - 150		Recovery =		80.83%	74.63%
25) S SURR2,Decachloro	17.60	17.84	868.8E6	2978.2E6	49.744	54.076
Spiked Amount 100.000	Range 30 - 150		Recovery =		49.74%	54.08%
Target Compounds						
8) tc delta-BHC	11.41	11.54	533.1E6	1492.7E6	19.600	14.458 #
9) tc Heptachlor E	13.07	12.98	1063.0E6	4614.4E6	46.703m	57.395m
10) tc alpha-Endosu	13.68	13.52	408.7E6	1421.2E6	19.977	20.024
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

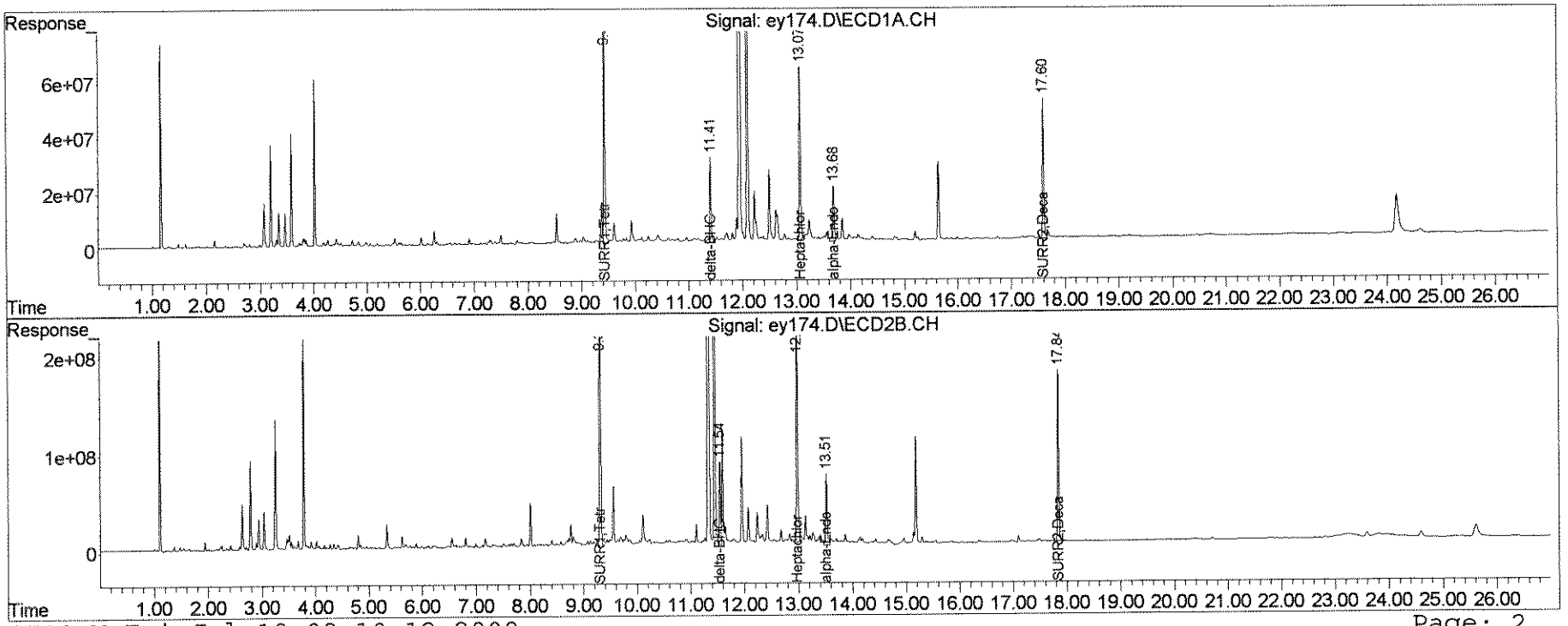
00470

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:10:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



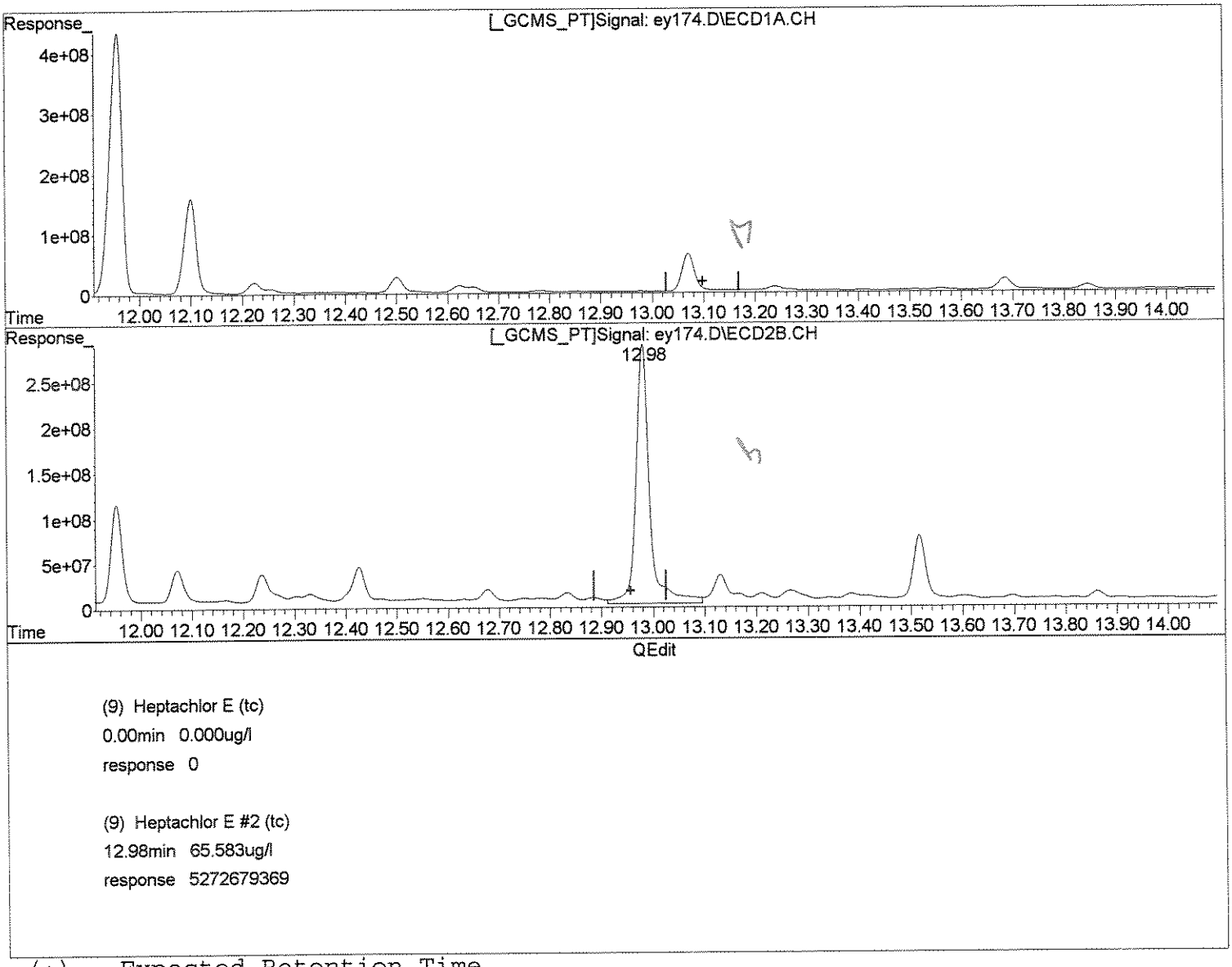
ey174

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)
0.00min 0.000ug/l
response 0

(9) Heptachlor E #2 (tc)
12.98min 65.583ug/l
response 5272679369

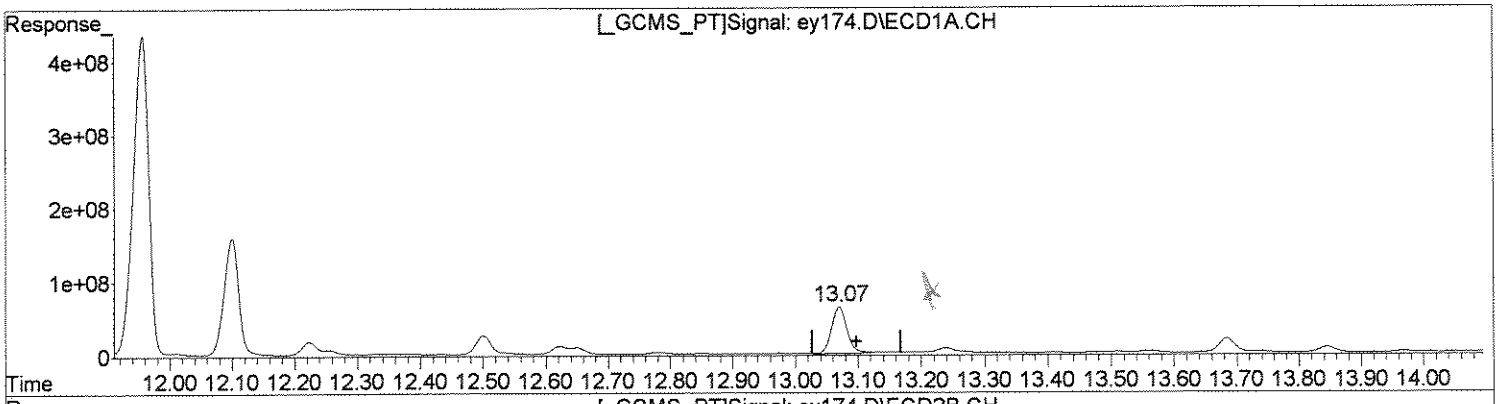
(+) = Expected Retention Time

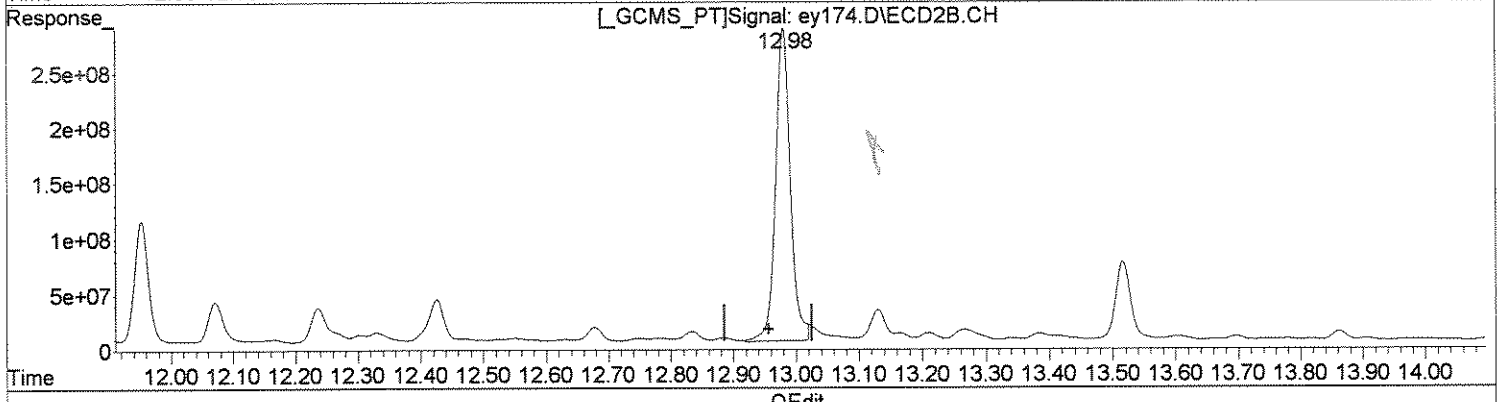
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(9) Heptachlor E (tc)
13.07min 46.703ug/l m
response 1063039706

(9) Heptachlor E #2 (tc)
12.98min 57.395ug/l m
response 4614367005

(+) = Expected Retention Time

00473

PESTICIDES

STANDARDS DATA

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1631.1E6	6038.8E6	80.825	74.627	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		80.83%	74.63%	
25)	S SURR2,Decachloro	17.60	17.84	868.8E6	2978.2E6	49.744	54.076	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		49.74%	54.08%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.12	10.17	54371817	144.0E6	1.850	1.185	#
3)	tc alpha-BHC	10.42	10.42	141.2E6	119.2E6	4.566	1.004	#
4)	tcm gamma-BHC (L	10.96	10.96	54659532	83190475	1.938	0.792	#
5)	tcm Heptachlor	11.71	11.64	142.6E6	403.4E6	5.104	4.019	
7)	tc beta-BHC	11.11	11.11	45780560	584.3E6	3.987	12.947	#
8)	tc delta-BHC	11.41	11.54	533.1E6	1492.7E6	19.600	14.458	#
9)	tc Heptachlor E	0.00	12.98	0	5272.7E6	N.D.	65.583	#
10)	tc alpha-Endosu	13.68	13.52	408.7E6	1421.2E6	19.977	20.024	
11)	tc gamma-Chlord	0.00	13.21	0	232.5E6	N.D.	2.834	#
12)	tc alpha-Chlord	13.47	0.00	26764503	0	1.251	N.D.	#
13)	tc 4,4'-DDE	13.56	13.66	88362125	74011213	4.057	0.966	#
14)	tcm Dieldrin	0.00	13.91	0	102.7E6	N.D.	1.313	#
15)	tcm Endrin	14.40	14.37	59058556	80198718	2.850	1.191	#
16)	tc KEPONE	0.00	14.54	0	149.5E6	N.D.	6.502	#
17)	tc beta-Endosul	14.74	14.65	21207640	138.8E6	1.141	2.162	#
19)	tcm 4,4'-DDT	14.85	14.95	29122483	222.2E6	1.522	3.393	#
20)	tc Endrin Aldeh	15.36	15.18	16459624	1901.3E6	1.121	38.764	#
21)	tc Endosulfan S	15.99	15.55	28722368	90646811	1.705	1.586	
22)	tc Methoxychlor	15.55	15.92	15706631	10115048	1.687	0.348	#
24)	tc Endrin Keton	16.38	0.00	31296474	0	1.616	N.D.	#
26)	L8C Toxaphene	14.82	0.00	40782797	0	102.247	N.D.	#
27)	L8C Toxaphene{2}	0.00	15.08	0	54693318	N.D.	60.625	#
28)	L8C Toxaphene{3}	15.49	15.18	16834416	1901.3E6	25.012	1017.065	#
29)	L8C Toxaphene{4}	0.00	16.43	0	25328711	N.D.	13.150	#
30)	L8C Toxaphene{5}	16.55	16.67	23531598	24047914	35.353	10.658	#
	Sum Toxaphene			81148812	2005.4E6	162.612	1101.498	

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Average Toxaphene					54.204	275.375	
31) L9C Chlordane	11.59	0.00	36116403	0	45.300	N.D.	#
32) L9C Chlordane{2}	11.71	11.64	142.6E6	403.4E6	126.614	89.648	#
33) L9C Chlordane{3}	12.38	12.33	51663007	313.6E6	50.079	87.616	#
34) L9C Chlordane{4}	0.00	13.21	0	232.5E6	N.D.	23.200	#
Sum Chlordane			230.4E6	949.5E6	221.993	200.465	
Average Chlordane					73.998	66.822	

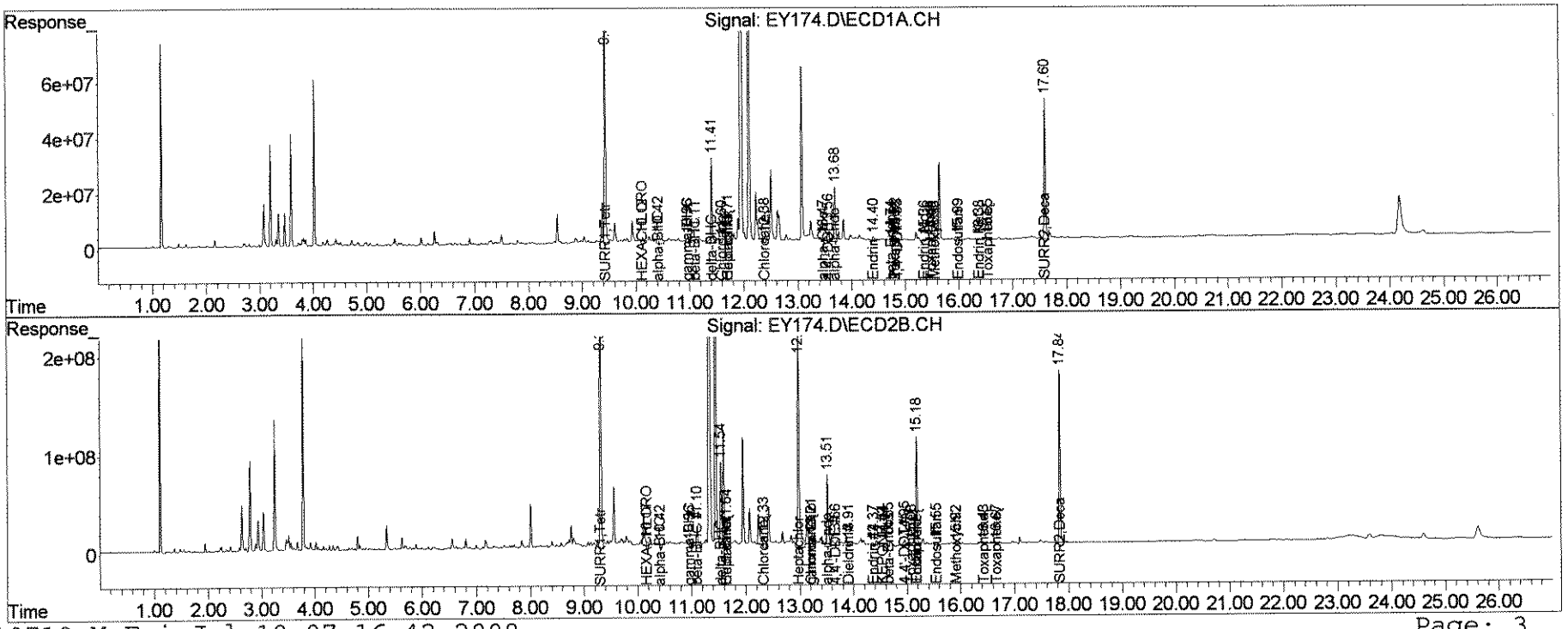
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY174.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:47 pm
Operator : M.PEDRO
Sample : 1114758 1.0
Misc : 07/03/08 208 ensr r44803 8081
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:39 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



6F

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: **Columbia Analytical Services** *Client:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Instrument ID: 6890D *Date Anlyzed:* 7/10/2008

GC Column(1) STx-CLP *(ID):* 0.32mm 30 | *GC Column(2)* STx-CLPII *(ID):* 0.32mm 30

		RT Window			*RT Window*	
Compound	*RT*	*From*	*To*	*RT*	*From*	*To*
SURR1,Tetrac	9.44	9.39	9.49	9.32	9.27	9.37
HEXACHLOROBEN	10.13	10.06	10.20	10.14	10.07	10.21
alpha-BHC	10.44	10.39	10.49	10.40	10.35	10.45
gamma-BHC (L	10.97	10.92	11.02	10.97	10.92	11.02
Heptachlor	11.73	11.68	11.78	11.64	11.59	11.69
Aldrin	12.18	12.13	12.23	12.12	12.07	12.17
beta-BHC	11.12	11.07	11.17	11.12	11.07	11.17
delta-BHC	11.40	11.35	11.45	11.56	11.51	11.61
Heptachlor E	13.10	13.03	13.17	12.96	12.89	13.03
alpha-Endosu	13.68	13.61	13.75	13.52	13.45	13.59
gamma-Chlord	13.28	13.21	13.35	13.23	13.16	13.30
alpha-Chlord	13.48	13.41	13.55	13.44	13.37	13.51
4,4'-DDE	13.58	13.51	13.65	13.68	13.61	13.75
Dieldrin	14.03	13.96	14.10	13.91	13.84	13.98
Endrin	14.38	14.31	14.45	14.36	14.29	14.43
KEPONE	14.44	14.37	14.51	14.52	14.45	14.59
beta-Endosul	14.72	14.65	14.79	14.66	14.59	14.73
4,4'-DDD	14.46	14.39	14.53	14.50	14.43	14.57
4,4'-DDT	14.87	14.80	14.94	14.96	14.89	15.03
Endrin Aldeh	15.35	15.28	15.42	15.16	15.09	15.23
Endosulfan S	15.99	15.92	16.06	15.57	15.50	15.64
Methoxychlor	15.57	15.50	15.64	15.93	15.86	16.00
FAMPHUR	16.26	16.19	16.33	15.66	15.59	15.73
Endrin Keton	16.38	16.31	16.45	16.32	16.25	16.39
SURR2,Decachlorobip	17.62	17.52	17.72	17.86	17.76	17.96
Toxaphene	14.80	14.73	14.87	14.78	14.71	14.85
Toxaphene	14.89	14.82	14.96	15.06	14.99	15.13
Toxaphene	15.50	15.43	15.57	15.17	15.10	15.24

6F

Pesticide Initial Calibration of Multicomponent Analytes

Lab Name: **Columbia Analytical Services** *Client:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Instrument ID: 6890D *Date Anlyzed:* 7/10/2008

GC Column(1) STx-CLP *(ID):* 0.32mm 30 | *GC Column(2)* STx-CLPII *(ID):* 0.32mm 30

		RT Window			*RT Window*	
Compound	*RT*	*From*	*To*	*RT*	*From*	*To*
Toxaphene	16.35	16.28	16.42	16.45	16.38	16.52
Toxaphene	16.54	16.47	16.61	16.68	16.61	16.75
Chlordane	11.60	11.53	11.67	11.42	11.35	11.49
Chlordane	11.72	11.65	11.79	11.64	11.57	11.71
Chlordane	12.40	12.33	12.47	12.35	12.28	12.42
Chlordane	13.28	13.21	13.35	13.23	13.16	13.30
Chlordane	14.61	14.54	14.68	14.73	14.66	14.80

Calibration Level Concentrations
Columbia Analytical Services

Analyte	Calib Mix	Level 1 ppb	Level 2 ppb	Level 3 ppb	Level 4 ppb	Level 5 ppb
alpha-BHC	Ind A	80	40	20	10	5
gamma-BHC	Ind A	80	40	20	10	5
DDD	Ind A	160	80	40	20	10
DDT	Ind A	160	80	40	20	10
Dieldrin	Ind A	160	80	40	20	10
alpha-Endosulfan	Ind A	80	40	20	10	5
Endrin	Ind A	160	80	40	20	10
Heptachlor	Ind A	80	40	20	10	5
Methoxychlor	Ind A	800	400	200	100	50
Surr.-DCB	Ind A	160	80	40	20	10
Surr.-TCMX	Ind A	80	40	20	10	5
Aldrin	Ind B	80	40	20	10	5
beta-BHC	Ind B	80	40	20	10	5
delta-BHC	Ind B	80	40	20	10	5
DDE	Ind B	160	80	40	20	10
alpha-Chlordane	Ind B	80	40	20	10	5
gamma-Chlordane	Ind B	80	40	20	10	5
beta-Endosulfan	Ind B	160	80	40	20	10
Endosulfan Sulfate	Ind B	160	80	40	20	10
Endrin Aldehyde	Ind B	160	80	40	20	10
Endrin Ketone	Ind B	160	80	40	20	10
Heptachlor Epoxide	Ind B	80	40	20	10	5
Surr.-DCB	Ind B	160	80	40	20	10
Surr.-TCMX	Ind B	80	40	20	10	5
PCB 1016	1016/1260	1000	750	500	750	100
PCB 1221	1221	1000		500		100
PCB 1232	1232	1000		500		100
PCB 1242	1242	1000		500		100
PCB 1248	1248	1000		500		100
PCB 1254	1254	1000		500		100
PCB 1260	1016/1260	1000	750	500	750	100
Chlordane	Chlor	500	250	100	50	25
Toxaphene	Tox	1000	750	500	250	100
Hexachlorobenzene	K/F/HCB	100	80	50	20	5
Kepone	K/F/HCB	2500	2000	1500	1000	500
Famphur	K/F/HCB	500	400	300	200	100

Response Factor Report 6890D

Method Path : J:\ACQUDATA\6890D\METHODS\
Method File : 80810710.M
Title : 608/8081A PESTICIDES
Last Update : Fri Jul 11 13:38:39 2008
Response Via : Initial Calibration

Calibration Files
1 =ey040.D 2 =ey039.D 3 =ey038.D
4 =ey037.D 5 =ey036.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	SURR1,Tetrac	2.072	2.066	2.024	1.987	1.942	2.018	E7	2.71
2)	TC	HEXACHLOROBENZENE	2.817	2.786	2.862	2.968	3.259	2.939	E7	6.52
3)	tc	alpha-BHC	3.302	3.265	3.139	2.984	2.768	3.092	E7	7.11
4)	tcm	gamma-BHC (L	2.976	2.938	2.850	2.754	2.586	2.821	E7	5.55
5)	tcm	Heptachlor	2.869	2.879	2.823	2.756	2.645	2.794	E7	3.45
6)	tcm	Aldrin	2.616	2.561	2.501	2.432	2.270	2.476	E7	5.40
7)	tc	beta-BHC	1.184	1.149	1.125	1.129	1.155	1.148	E7	2.05
8)	TC	delta-BHC	2.941	2.850	2.743	2.620	2.445	2.720	E7	7.16
9)	tc	Heptachlor E	2.339	2.306	2.283	2.266	2.187	2.276	E7	2.49
10)	tc	alpha-Endosu	2.119	2.103	2.050	2.009	1.950	2.046	E7	3.38
11)	tc	gamma-Chlord	2.316	2.242	2.182	2.143	2.080	2.192	E7	4.14
12)	tc	alpha-Chlord	2.241	2.177	2.125	2.116	2.036	2.139	E7	3.57
13)	tc	4,4'-DDE	2.269	2.251	2.198	2.153	2.020	2.178	E7	4.58
14)	tcm	Dieldrin	2.352	2.377	2.323	2.249	2.121	2.284	E7	4.51
15)	tcm	Endrin	2.149	2.161	2.099	2.033	1.916	2.072	E7	4.86
16)	tc	KEPONE	7.245	7.448	7.866	7.073	6.947	7.316	E6	4.93
17)	tc	beta-Endosul	1.931	1.900	1.869	1.853	1.742	1.859	E7	3.88
18)	tc	4,4'-DDD	1.881	1.866	1.760	1.771	1.719	1.799	E7	3.92
19)	tcm	4,4'-DDT	2.037	2.006	1.955	1.837	1.733	1.914	E7	6.60
20)	tc	Endrin Aldeh	1.537	1.491	1.478	1.442	1.391	1.468	E7	3.72
21)	tc	Endosulfan S	1.752	1.713	1.683	1.647	1.628	1.685	E7	2.96
22)	tc	Methoxychlor	9.056	9.410	9.489	9.446	9.163	9.313	E6	2.05
23)	tc	FAMPHUR	1.368	1.349	1.381	1.304	1.382	1.357	E7	2.39
24)	tc	Endrin Keton	2.016	1.980	1.941	1.908	1.837	1.936	E7	3.56
25)	S	SURR2,Decachlorobiphe	1.734	1.736	1.755	1.766	1.742	1.747	E7	0.77
26)	L8C	Toxaphene	4.434	4.272	3.868	3.906	3.463	3.989	E5	9.52
27)	L8C	Toxaphene{2}	3.697	3.864	3.135	3.774	3.318	3.558	E5	8.84
28)	L8C	Toxaphene{3}	7.460	7.255	6.396	6.539	6.003	6.730	E5	9.05
29)	L8C	Toxaphene{4}	9.022	8.758	7.774	8.004	7.368	8.185	E5	8.42
30)	L8C	Toxaphene{5}	7.460	7.237	6.348	6.466	5.771	6.656	E5	10.35
31)	L9C	Chlordane	8.222	8.007	7.903	7.812	7.920	7.973	E5	1.95
32)	L9C	Chlordane{2}	1.179	1.149	1.126	1.094	1.085	1.127	E6	3.45
33)	L9C	Chlordane{3}	0.995	0.995	1.027	1.049	1.091	1.032	E6	3.91
34)	L9C	Chlordane{4}	2.933	2.863	2.781	2.689	2.568	2.767	E6	5.19
35)	L9C	Chlordane{5}	0.936	0.908	0.903	0.912	1.013	0.934	E6	4.89

Signal #2 Calibration Files
1 =ey040.D 2 =ey039.D 3 =ey038.D
4 =ey037.D 5 =ey036.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	SURR1,Tetrac	7.722	8.021	8.178	8.344	8.194	8.092	E7	2.92
2)	TC	HEXACHLOROBENZENE	1.091	1.102	1.164	1.247	1.473	1.215	E8	12.91
3)	tc	alpha-BHC	1.167	1.201	1.209	1.205	1.152	1.187	E8	2.16
4)	tcm	gamma-BHC (L	1.039	1.066	1.068	1.063	1.017	1.051	E8	2.11

Method Path : J:\ACQUDATA\6890D\METHODS\
Method File : 80810710.M
Title : 608/8081A PESTICIDES
Last Update : Fri Jul 11 13:38:39 2008
Response Via : Initial Calibration

Calibration Files
1 =ey040.D 2 =ey039.D 3 =ey038.D
4 =ey037.D 5 =ey036.D

	Compound	1	2	3	4	5	Avg		%RSD
5)	tcm Heptachlor	0.926	0.986	1.022	1.051	1.034	1.004	E8	4.93
6)	tcm Aldrin	8.862	9.134	9.278	9.316	8.957	9.109	E7	2.17
7)	tc beta-BHC	4.450	4.441	4.510	4.601	4.563	4.513	E7	1.54
8)	tc delta-BHC	1.034	1.047	1.050	1.042	0.989	1.032	E8	2.43
9)	tc Heptachlor E	7.618	7.923	8.147	8.351	8.159	8.040	E7	3.48
10)	tc alpha-Endosu	6.804	7.099	7.297	7.140	7.146	7.097	E7	2.55
11)	tc gamma-Chlord	8.117	8.221	8.259	8.266	8.150	8.203	E7	0.81
12)	tc alpha-Chlord	7.719	7.783	7.826	7.857	7.650	7.767	E7	1.08
13)	tc 4,4'-DDE	7.386	7.671	7.821	7.877	7.571	7.665	E7	2.58
14)	tcm Dieldrin	7.354	7.810	7.994	8.121	7.844	7.824	E7	3.72
15)	tcm Endrin	6.563	6.793	7.048	6.649	6.624	6.736	E7	2.88
16)	tc KEPONE	2.256	2.407	2.395	2.230	2.209	2.299	E7	4.10
17)	tc beta-Endosul	6.154	6.331	6.503	6.602	6.508	6.420	E7	2.77
18)	tc 4,4'-DDD	6.062	6.278	6.298	6.323	6.159	6.224	E7	1.78
19)	tcm 4,4'-DDT	6.535	6.671	6.661	6.603	6.284	6.551	E7	2.42
20)	tc Endrin Aldeh	4.818	4.862	4.983	4.998	4.864	4.905	E7	1.64
21)	tc Endosulfan S	5.632	5.698	5.796	5.809	5.638	5.715	E7	1.48
22)	tc Methoxychlor	2.716	2.870	2.958	3.012	2.971	2.905	E7	4.06
23)	tc FAMPHUR	4.121	4.088	4.210	4.030	4.443	4.178	E7	3.87
24)	tc Endrin Keton	6.216	6.287	6.363	6.362	6.138	6.273	E7	1.55
25)	S SURR2,Decachlorobiphe	5.395	5.447	5.563	5.537	5.595	5.508	E7	1.52
26)	L8C Toxaphene	2.033	1.991	1.807	1.906	1.938	1.935	E6	4.46
27)	L8C Toxaphene{2}	9.668	9.405	8.550	8.957	8.529	9.022	E5	5.64
28)	L8C Toxaphene{3}	1.999	1.959	1.763	1.849	1.778	1.869	E6	5.67
29)	L8C Toxaphene{4}	2.069	2.028	1.810	1.898	1.825	1.926	E6	6.10
30)	L8C Toxaphene{5}	2.473	2.422	2.144	2.217	2.026	2.256	E6	8.34
31)	L9C Chlordane	3.231	3.241	3.261	3.234	3.199	3.233	E6	0.69
32)	L9C Chlordane{2}	4.448	4.552	4.594	4.512	4.391	4.500	E6	1.80
33)	L9C Chlordane{3}	3.379	3.475	3.609	3.661	3.775	3.580	E6	4.34
34)	L9C Chlordane{4}	1.009	1.020	1.023	0.991	0.967	1.002	E7	2.32
35)	L9C Chlordane{5}	3.528	3.483	3.445	3.420	3.761	3.527	E6	3.87

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:17:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	97082202	409.7E6	5.262	6.970 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		5.26%#	6.97%#
25) S SURR2,Decachloro	17.62	17.86	174.2E6	559.5E6	10.180m	12.981m#
Spiked Amount 100.000	Range 30 - 150		Recovery =		10.18%#	12.98%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	138.4E6	576.0E6	4.848	6.467 #
4) tcm gamma-BHC (L	10.97	10.97	129.3E6	508.5E6	4.985	6.292 #
5) tcm Heptachlor	11.73	11.64	132.3E6	516.8E6	5.003	6.513 #
10) tc alpha-Endosu	13.68	13.52	97505664	357.3E6	4.903	6.274 #
14) tcm Dieldrin	14.03	13.91	212.1E6	784.4E6	9.521	12.848 #
15) tcm Endrin	14.38	14.36	191.6E6	662.4E6	9.496	11.954 #
18) tc 4,4'-DDD	14.46	14.50	171.9E6	615.9E6	10.160	13.495 #
19) tcm 4,4'-DDT	14.87	14.96	173.3E6	628.4E6	9.367	12.977 #
22) tc Methoxychlor	15.57	15.93	458.1E6	1485.3E6	52.469	69.532 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

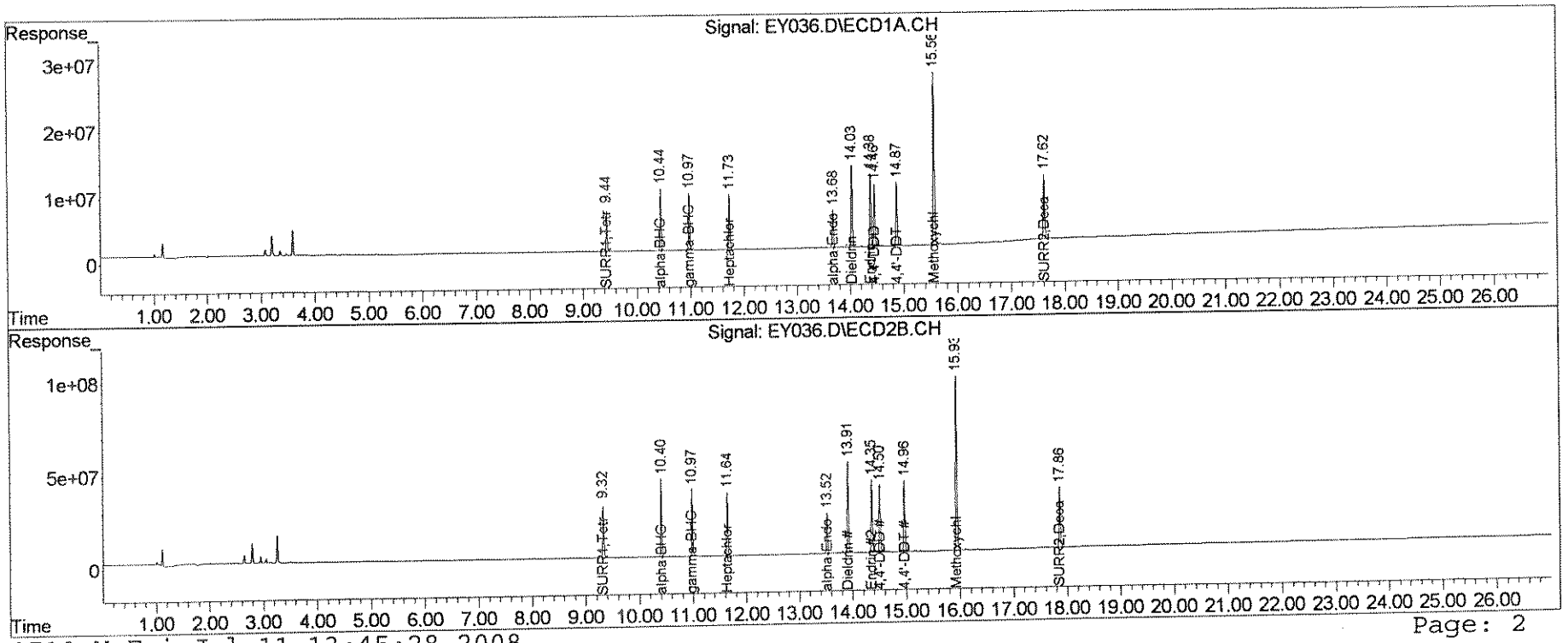
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:17:54 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

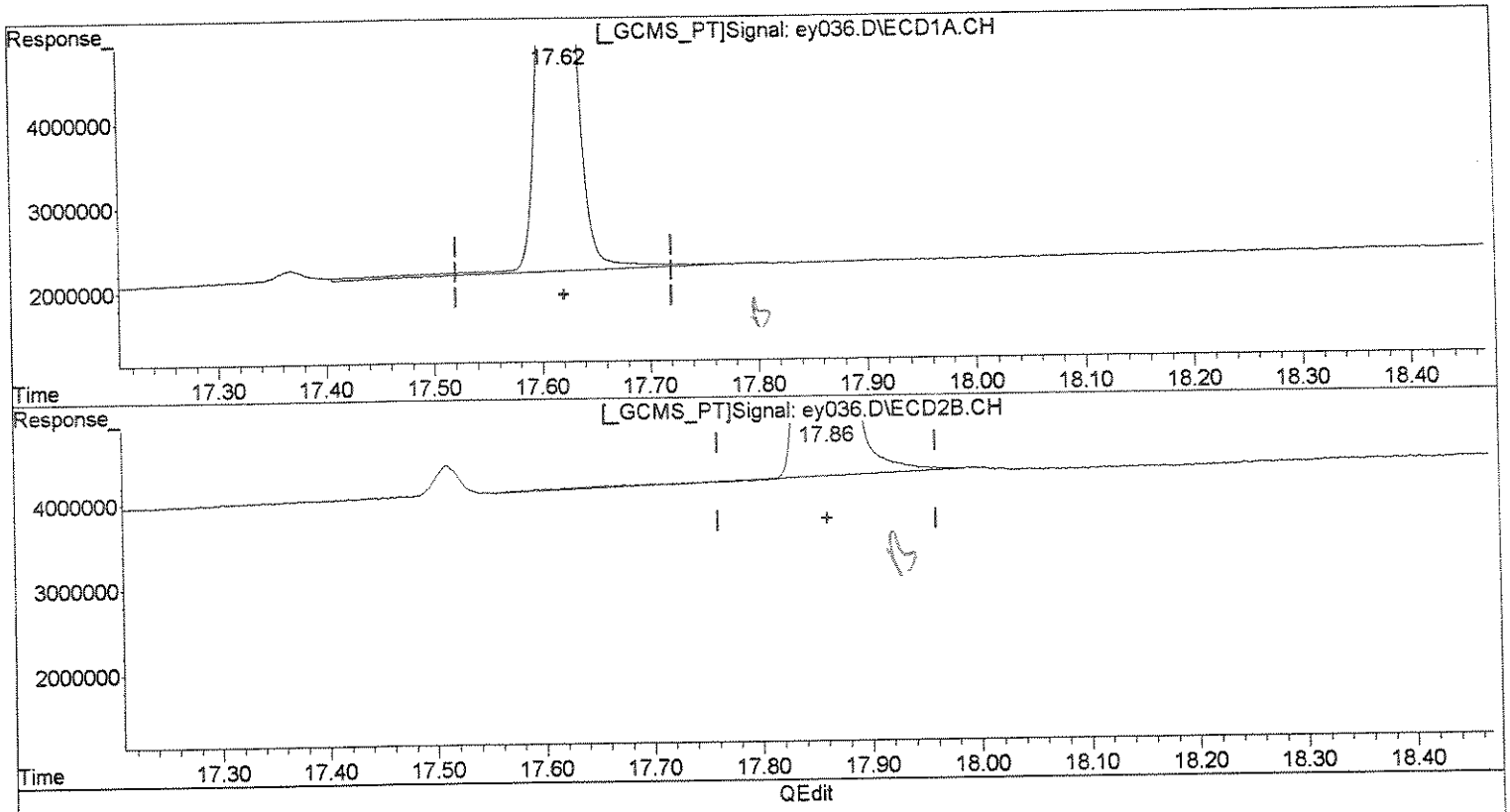


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.62min 10.429ug/l
response 178455978

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 12.928ug/l
response 557208848

(+) = Expected Retention Time

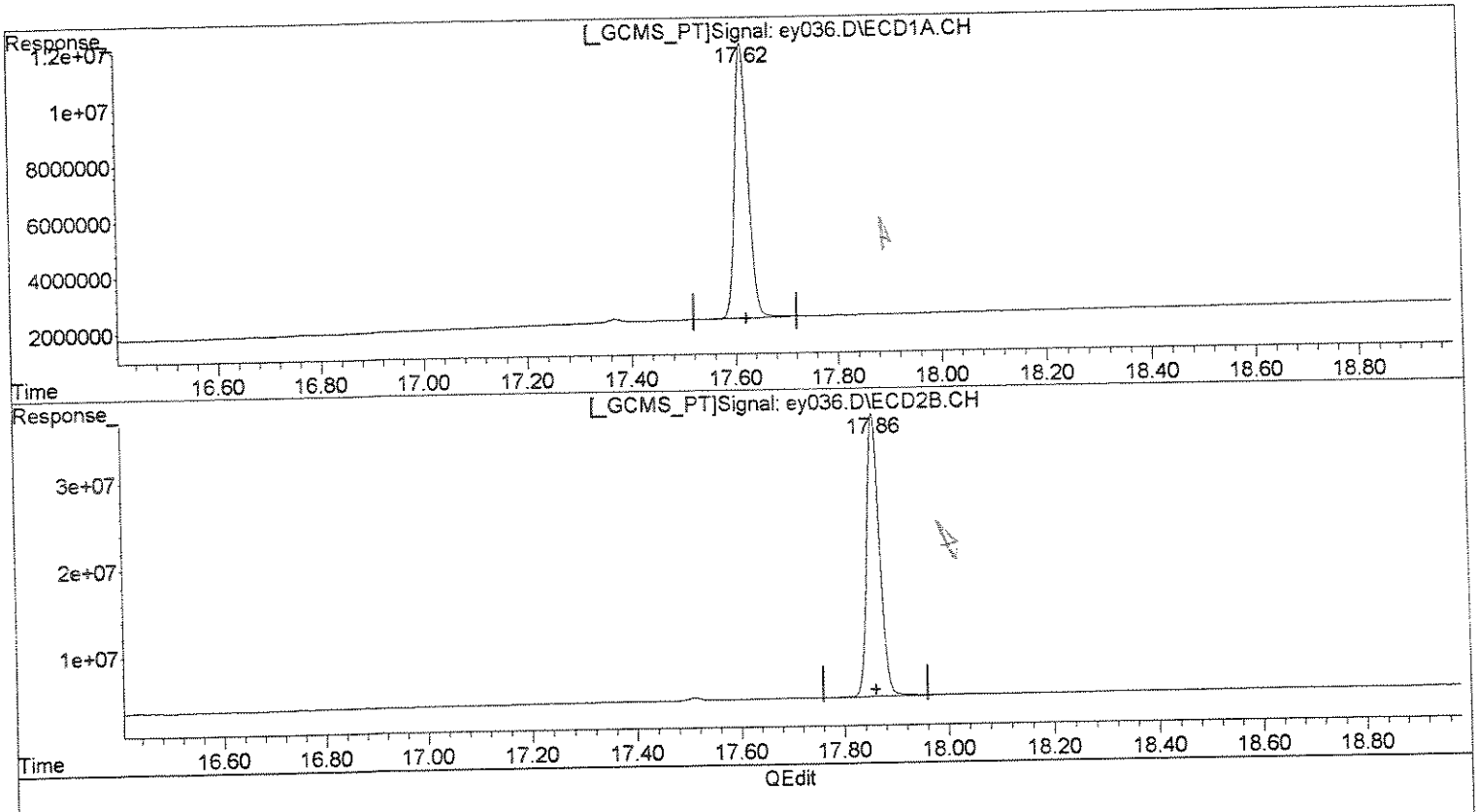
00485

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:22 pm
Operator : M.PEDRO
Sample : indal
Misc : initial cal
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.62min 10.180ug/l m
response 174185870

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 12.981ug/l m
response 559510438

(+) = Expected Retention Time

00486

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:58 pm
Operator : M.PEDRO
Sample : indaml
Misc : initial cal
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:18:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	198.7E6	834.4E6	10.772	14.196 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		10.77%#	14.20%#
25) S SURR2,Decachloro	17.62	17.86	353.1E6	1107.5E6	20.637	25.694
Spiked Amount 100.000	Range 30 - 150		Recovery =		20.64%#	25.69%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	298.4E6	1204.8E6	10.456	13.526 #
4) tcm gamma-BHC (L	10.97	10.97	275.4E6	1063.5E6	10.615	13.159
5) tcm Heptachlor	11.73	11.64	275.6E6	1050.7E6	10.424	13.242 #
10) tc alpha-Endosu	13.68	13.52	200.9E6	714.0E6	10.099	12.537
14) tcm Dieldrin	14.04	13.91	449.8E6	1624.3E6	20.191	26.606 #
15) tcm Endrin	14.38	14.36	406.7E6	1329.9E6	20.155	23.998
18) tc 4,4'-DDD	14.46	14.50	354.2E6	1264.7E6	20.936	27.710 #
19) tcm 4,4'-DDT	14.87	14.96	367.4E6	1320.5E6	19.854	27.269 #
22) tc Methoxychlor	15.57	15.93	944.6E6	3012.0E6	108.184	141.000 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

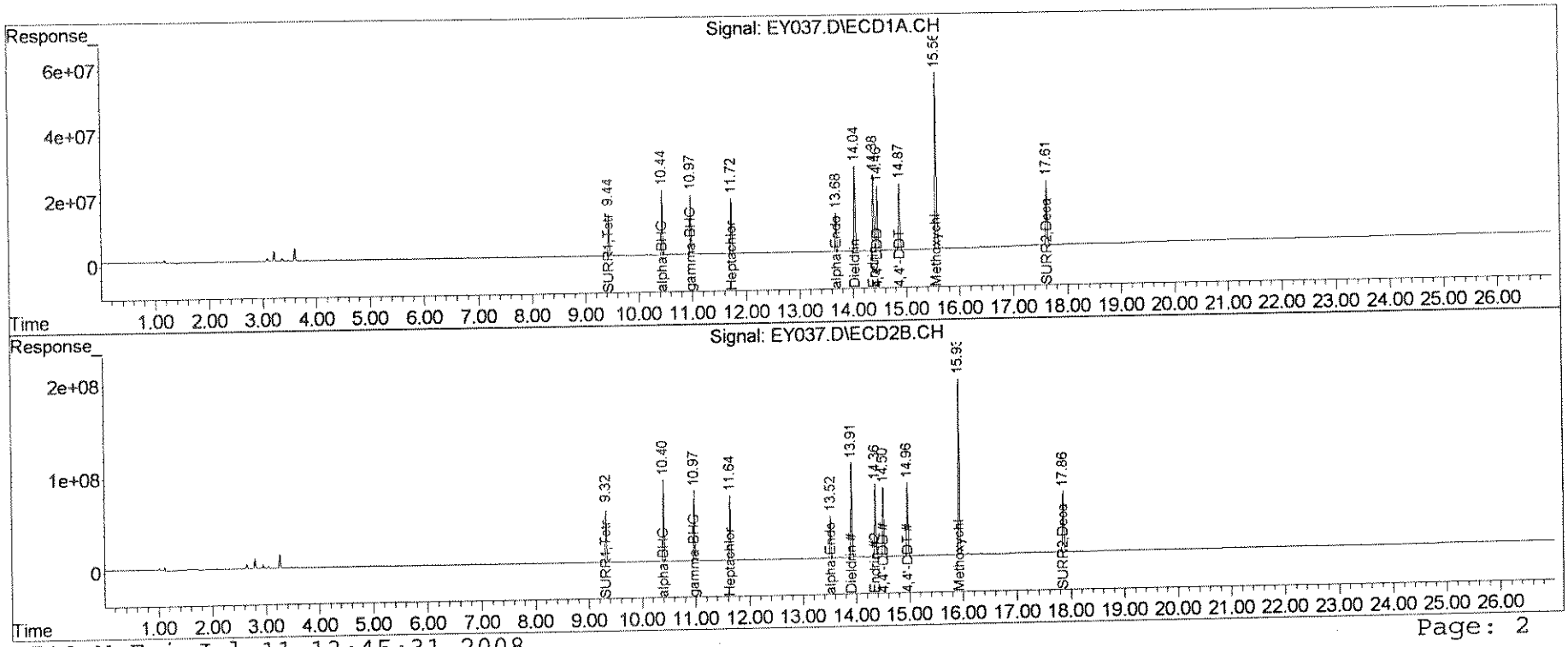
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 4:58 pm
Operator : M.PEDRO
Sample : indaml
Misc : initial cal
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:18:33 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 5:33 pm
Operator : M.PEDRO
Sample : indam
Misc : initial cal
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:19:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1)	S SURR1,Tetrac	9.44	9.32	404.7E6	1635.7E6	21.936	27.829 #
	Spiked Amount 100.000	Range 30 - 150		Recovery =		21.94%#	27.83%#
25)	S SURR2,Decachloro	17.62	17.86	702.0E6	2225.3E6	41.028	51.629 #
	Spiked Amount 100.000	Range 30 - 150		Recovery =		41.03%	51.63%
	Target Compounds						
3)	tc alpha-BHC	10.44	10.40	627.9E6	2417.9E6	21.999	27.144
4)	tcm gamma-BHC (L	10.97	10.97	570.0E6	2135.3E6	21.973	26.420
5)	tcm Heptachlor	11.72	11.64	564.6E6	2044.5E6	21.354	25.767
10)	tc alpha-Endosu	13.68	13.52	410.0E6	1459.5E6	20.618	25.626
14)	tcm Dieldrin	14.03	13.91	929.1E6	3197.5E6	41.702	52.376 #
15)	tcm Endrin	14.38	14.36	839.8E6	2819.2E6	41.620	50.874
18)	tc 4,4'-DDD	14.46	14.50	704.1E6	2519.1E6	41.617	55.197 #
19)	tcm 4,4'-DDT	14.87	14.96	782.2E6	2664.4E6	42.268	55.020 #
22)	tc Methoxychlor	15.57	15.93	1897.7E6	5916.8E6	217.348	276.977 #
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

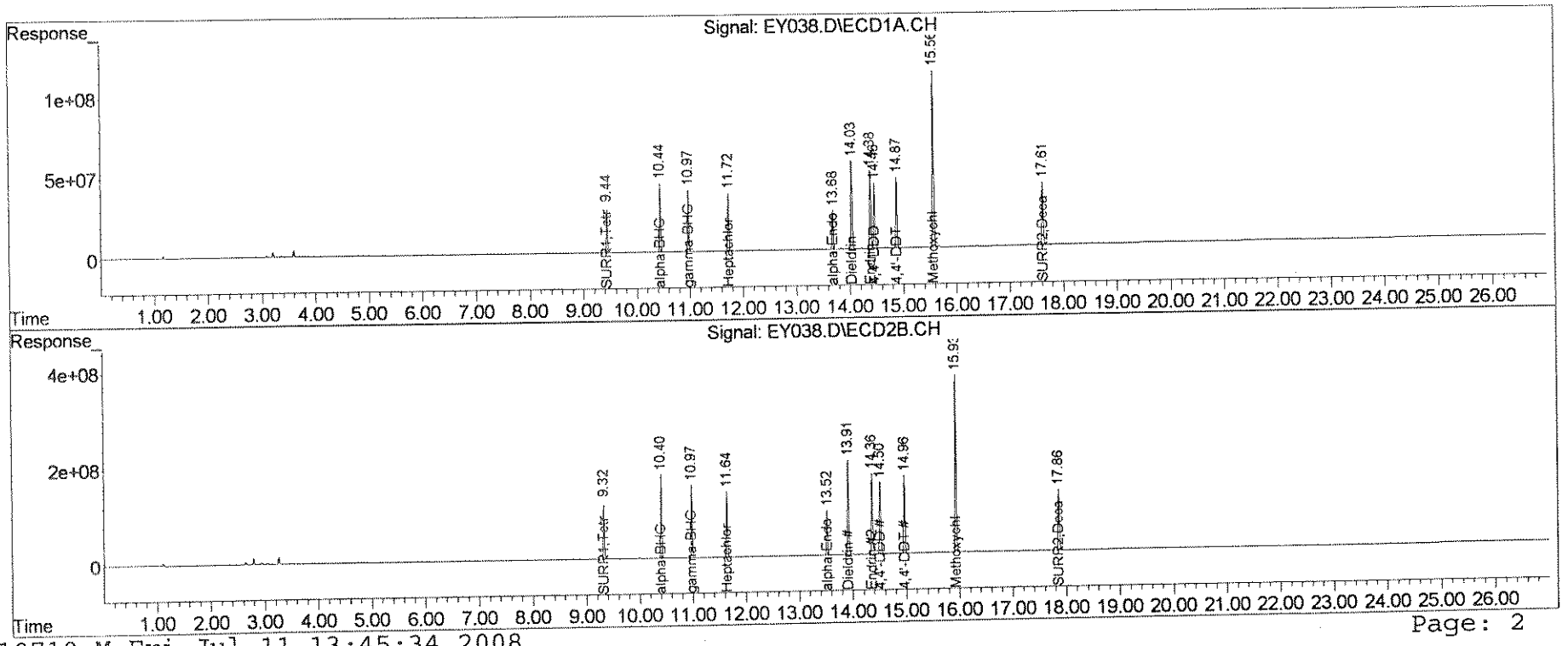
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 5:33 pm
Operator : M.PEDRO
Sample : indam
Misc : initial cal
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:19:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 6:09 pm
Operator : M.PEDRO
Sample : indamh
Misc : initial cal
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:20:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	826.3E6	3208.5E6	44.783	54.588
Spiked Amount 100.000	Range 30 - 150		Recovery =		44.78%	54.59%
25) S SURR2,Decachloro	17.61	17.86	1388.6E6	4357.3E6	81.150	101.092
Spiked Amount 100.000	Range 30 - 150		Recovery =		81.15%	101.09%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	1305.8E6	4804.3E6	45.751	53.935
4) tcm gamma-BHC (L	10.97	10.97	1175.0E6	4265.5E6	45.296	52.778
5) tcm Heptachlor	11.73	11.64	1151.4E6	3942.2E6	43.550	49.683
10) tc alpha-Endosu	13.68	13.52	841.0E6	2839.6E6	42.290	49.859
14) tcm Dieldrin	14.03	13.91	1901.4E6	6247.8E6	85.342	102.342
15) tcm Endrin	14.38	14.36	1729.0E6	5434.2E6	85.692	98.063
18) tc 4,4'-DDD	14.46	14.50	1492.8E6	5022.6E6	88.234	110.050
19) tcm 4,4'-DDT	14.87	14.96	1605.0E6	5336.8E6	86.732	110.206 #
22) tc Methoxychlor	15.56	15.93	3764.0E6	11479.8E6	431.095	537.392
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

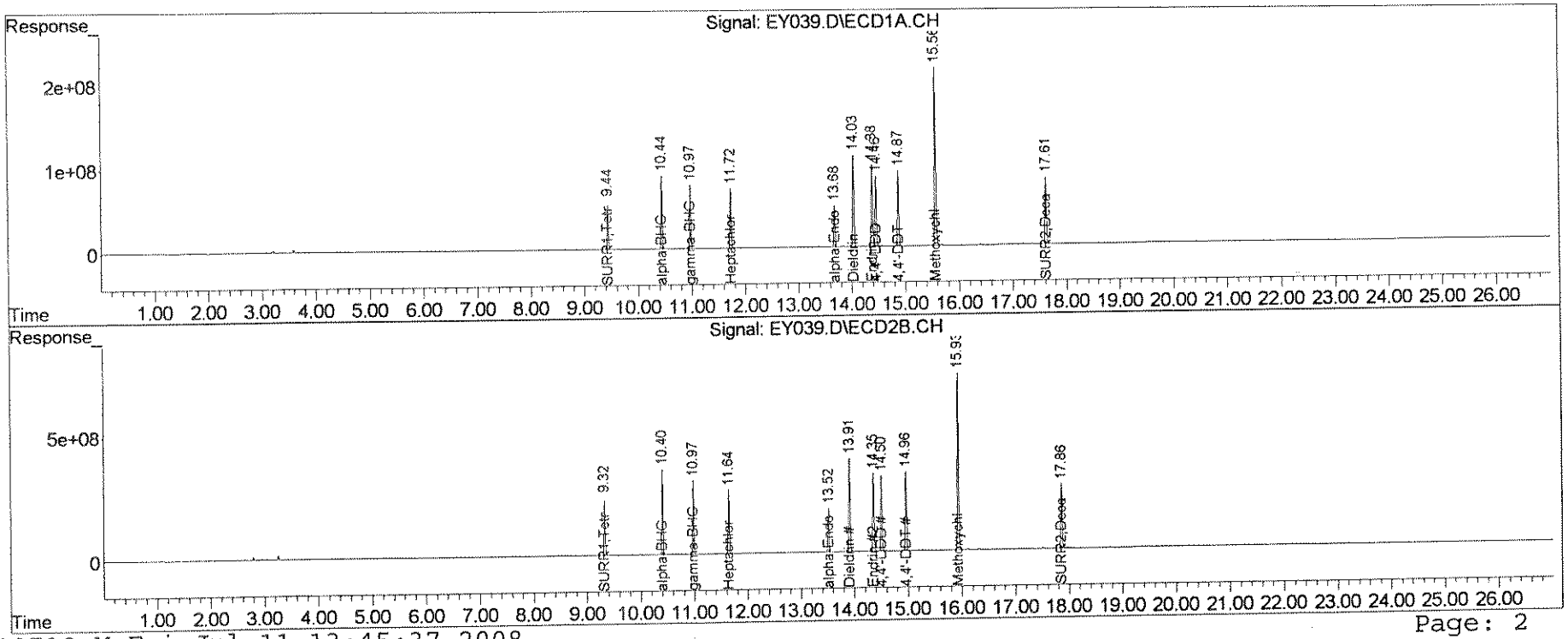
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 6:09 pm
Operator : M.PEDRO
Sample : indamh
Misc : initial cal
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:20:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 6:44 pm
Operator : M.PEDRO
Sample : indah
Misc : initial cal
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:20:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1657.4E6	6178.0E6	89.823	105.109
Spiked Amount 100.000	Range 30 - 150		Recovery =		89.82%	105.11%
25) S SURR2,Decachloro	17.62	17.86	2775.1E6	8632.3E6	162.184	200.274
Spiked Amount 100.000	Range 30 - 150		Recovery =		162.18%#	200.27%#
Target Compounds						
3) tc alpha-BHC	10.44	10.40	2641.8E6	9334.9E6	92.558	104.798
4) tcm gamma-BHC (L	10.97	10.97	2380.5E6	8313.6E6	91.767	102.867
5) tcm Heptachlor	11.73	11.64	2295.6E6	7408.3E6	86.827	93.366
10) tc alpha-Endosu	13.68	13.52	1694.9E6	5442.9E6	85.223	95.567
14) tcm Dieldrin	14.03	13.91	3762.5E6	11766.0E6	168.877	192.732
15) tcm Endrin	14.38	14.35	3439.1E6	10501.3E6	170.446	189.499
18) tc 4,4'-DDD	14.46	14.50	3009.2E6	9698.6E6	177.865	212.505
19) tcm 4,4'-DDT	14.87	14.96	3258.9E6	10455.7E6	176.111	215.911
22) tc Methoxychlor	15.57	15.93	7245.1E6	21725.0E6	829.784	1016.991
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

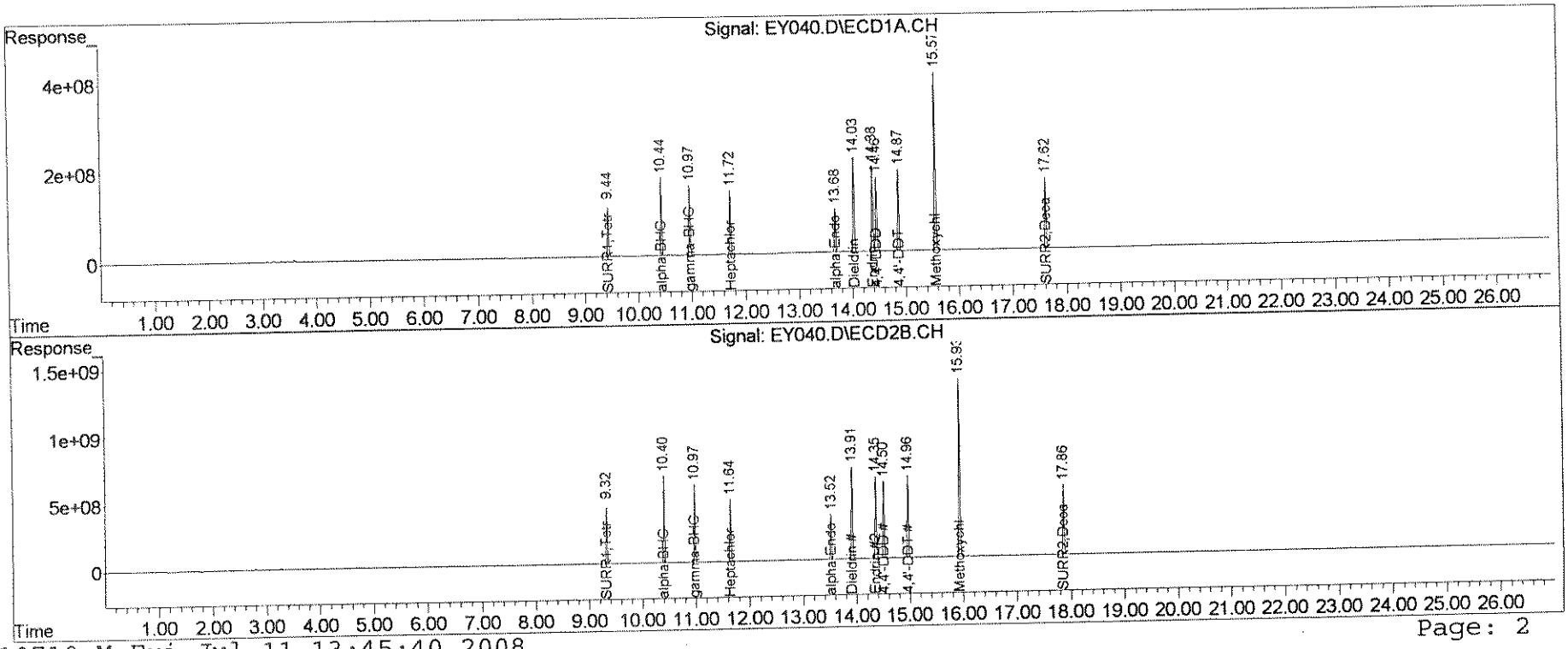
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 6:44 pm
Operator : M.PEDRO
Sample : indah
Misc : initial cal
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:20:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:22:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	99289008	422.8E6	5.381	7.193 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		5.38%#	7.19%#
25) S SURR2,Decachloro	17.61	17.86	177.6E6	573.0E6	10.382m	13.294m#
Spiked Amount 100.000	Range 30 - 150		Recovery =		10.38%#	13.29%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	113.5E6	447.9E6	4.790	6.181 #
7) tc beta-BHC	11.12	11.12	57743920	228.1E6	5.349	6.651
8) tc delta-BHC	11.40	11.57	122.2E6	494.5E6	5.000	6.703 #
9) tc Heptachlor E	13.10	12.96	109.4E6	408.0E6	4.975	6.401 #
11) tc gamma-Chlord	13.28	13.23	104.0E6	407.5E6	4.916	6.441 #
12) tc alpha-Chlord	13.48	13.44	101.8E6	382.5E6	4.948	6.222 #
13) tc 4,4'-DDE	13.58	13.68	202.0E6	757.1E6	9.972	12.872 #
17) tc beta-Endosul	14.72	14.66	174.2E6	650.8E6	9.562	12.943 #
20) tc Endrin Aldeh	15.35	15.16	139.1E6	486.4E6	9.793	12.896 #
21) tc Endosulfan S	15.99	15.57	162.8E6	563.8E6	9.704	12.802 #
24) tc Endrin Keton	16.38	16.32	183.7E6	613.8E6	9.561m	12.523 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

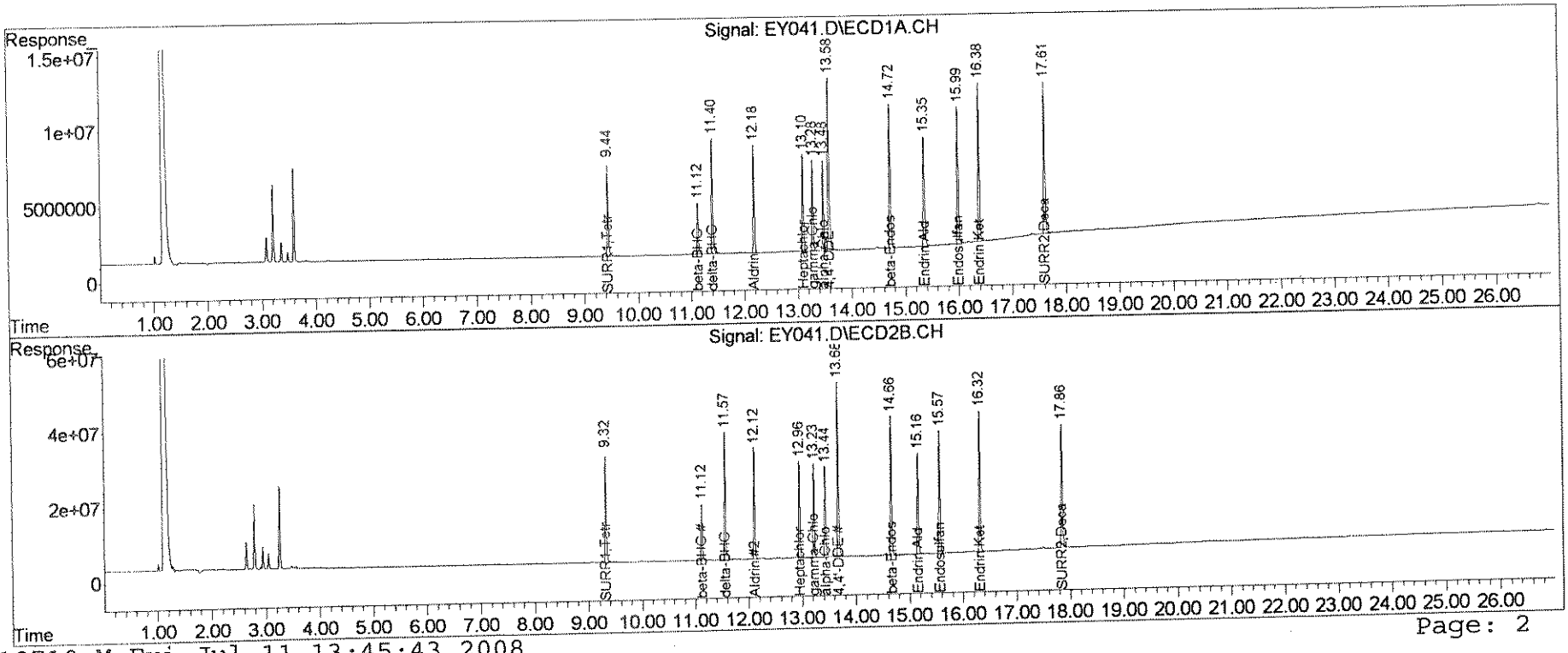
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:22:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

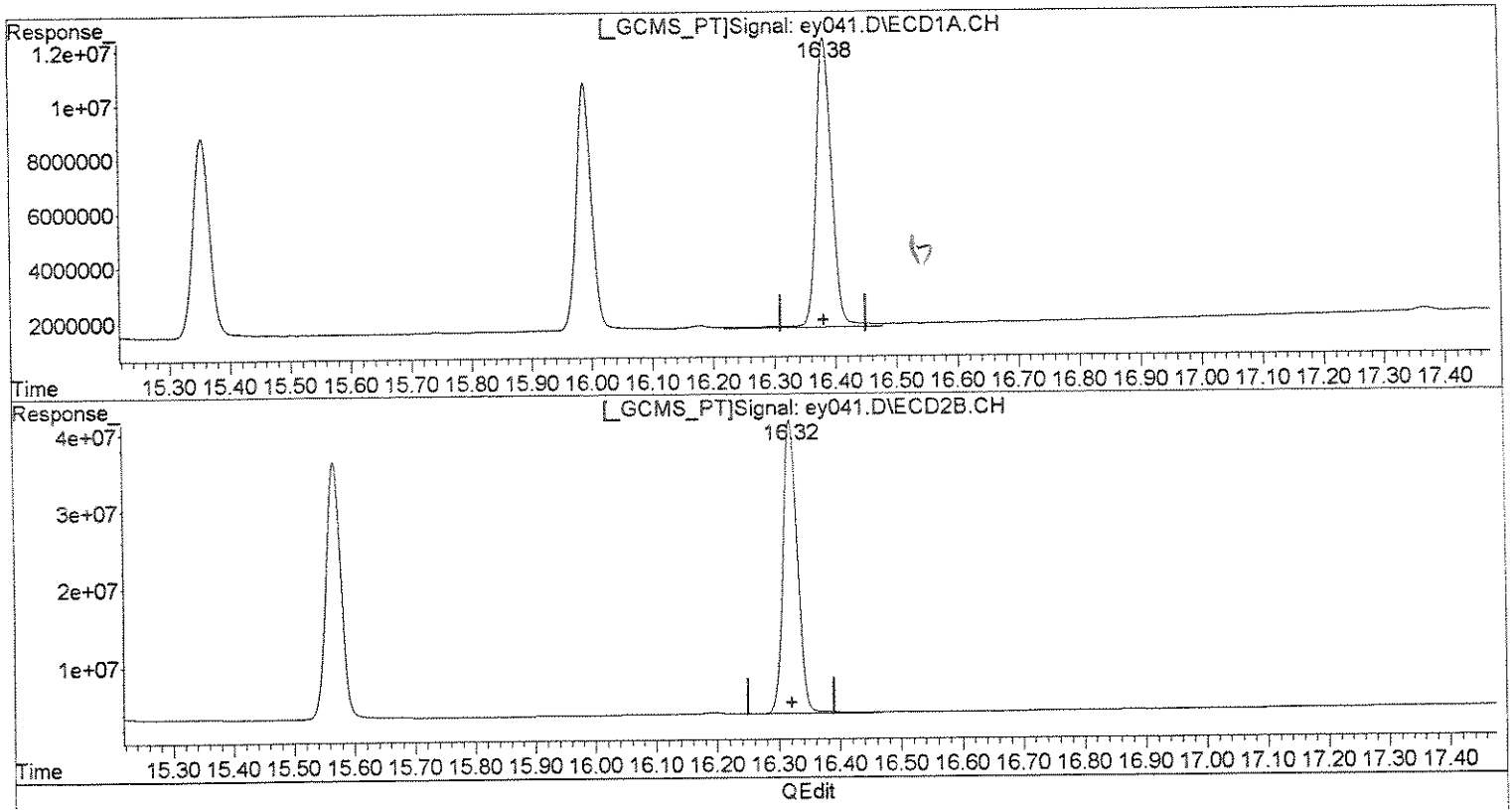


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)
16.38min 9.960ug/l
response 191325325

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

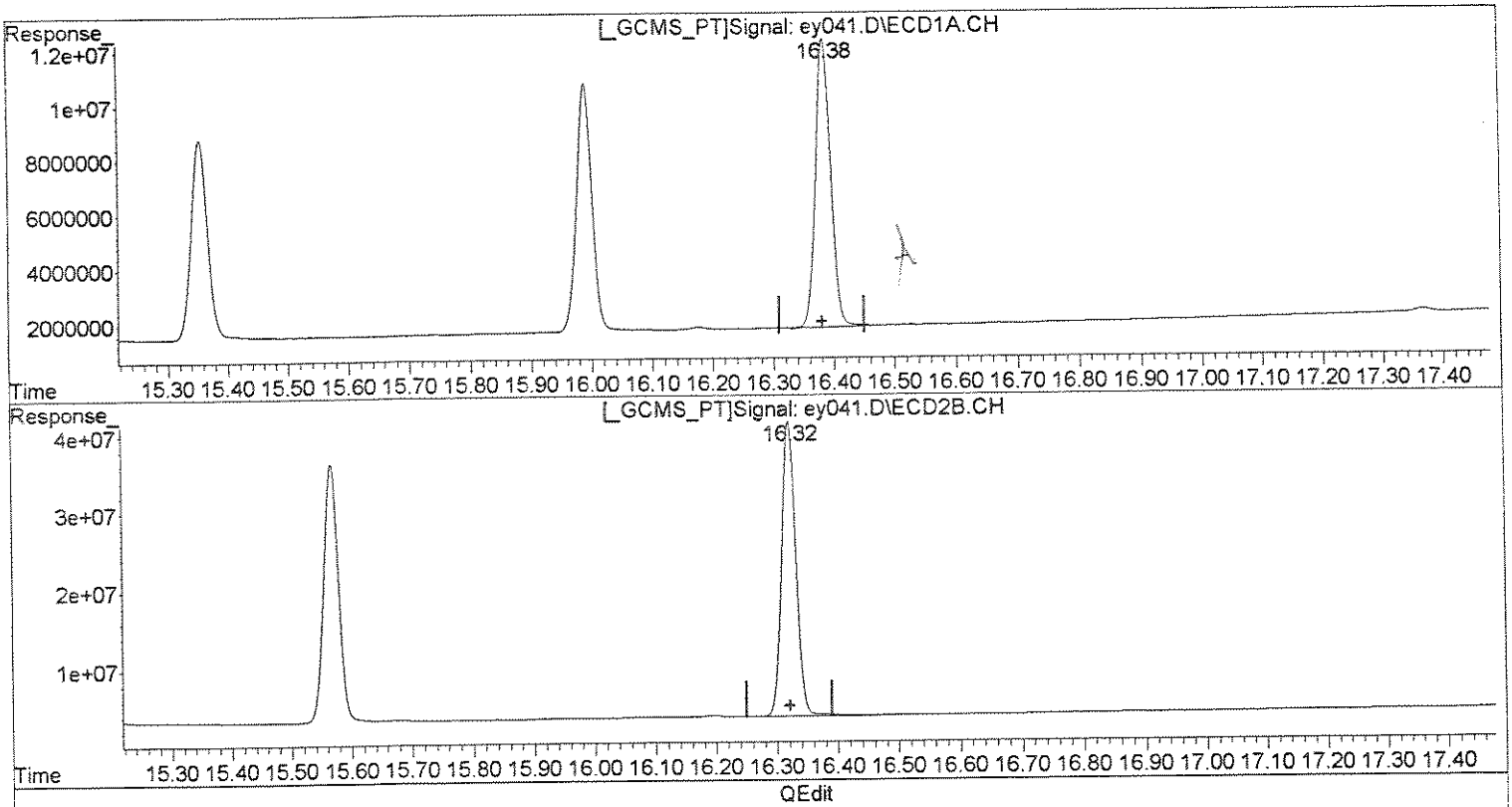
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)
16.38min 9.561ug/l m
response 183675443

(24) Endrin Keton #2 (tc)
16.32min 12.523ug/l
response 613785726

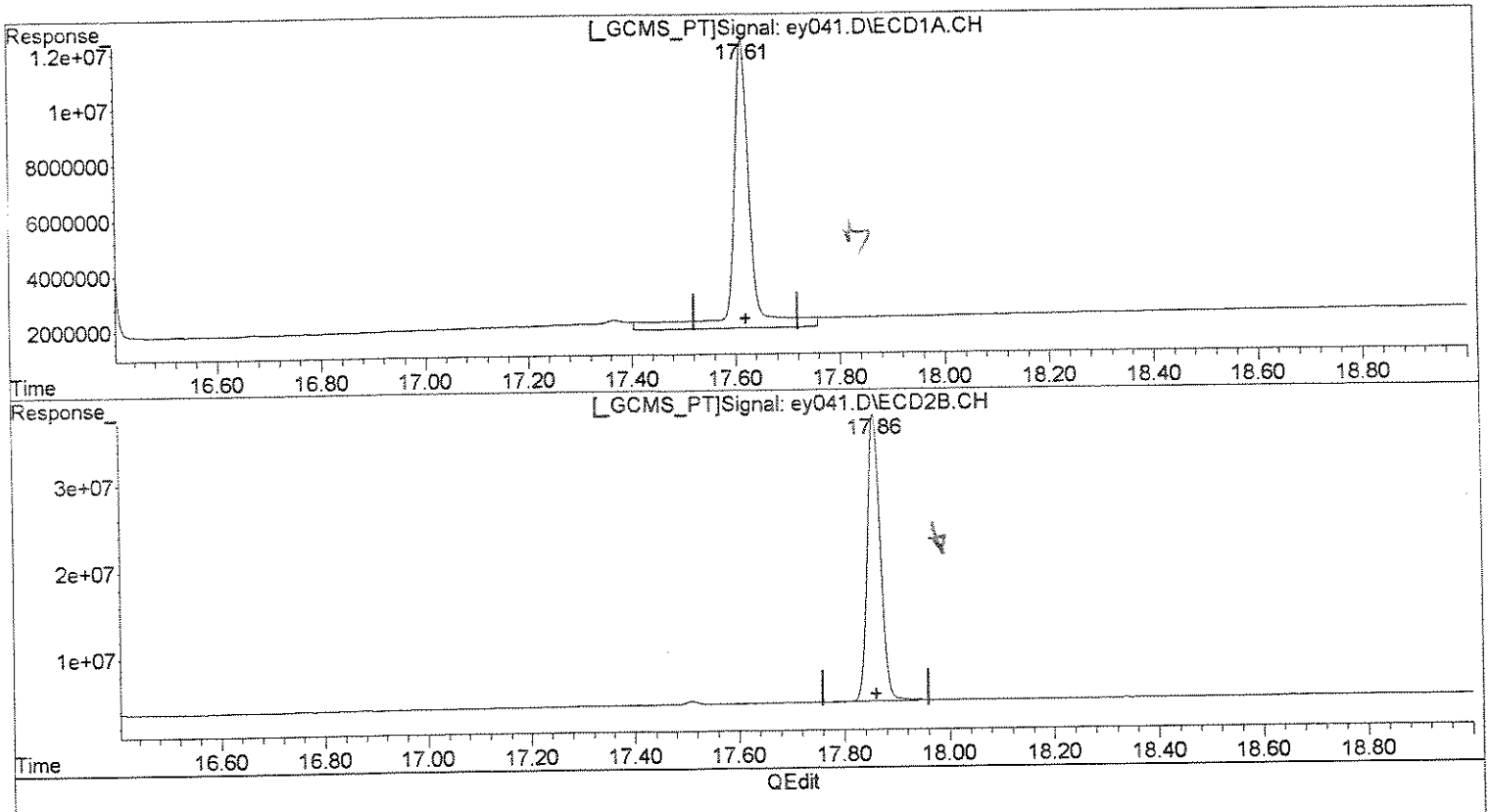
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(25) SURR2,Decachlorobiphenyl (S)
17.61min 13.991ug/l
response 239397924

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 13.256ug/l
response 571352336

(+) = Expected Retention Time

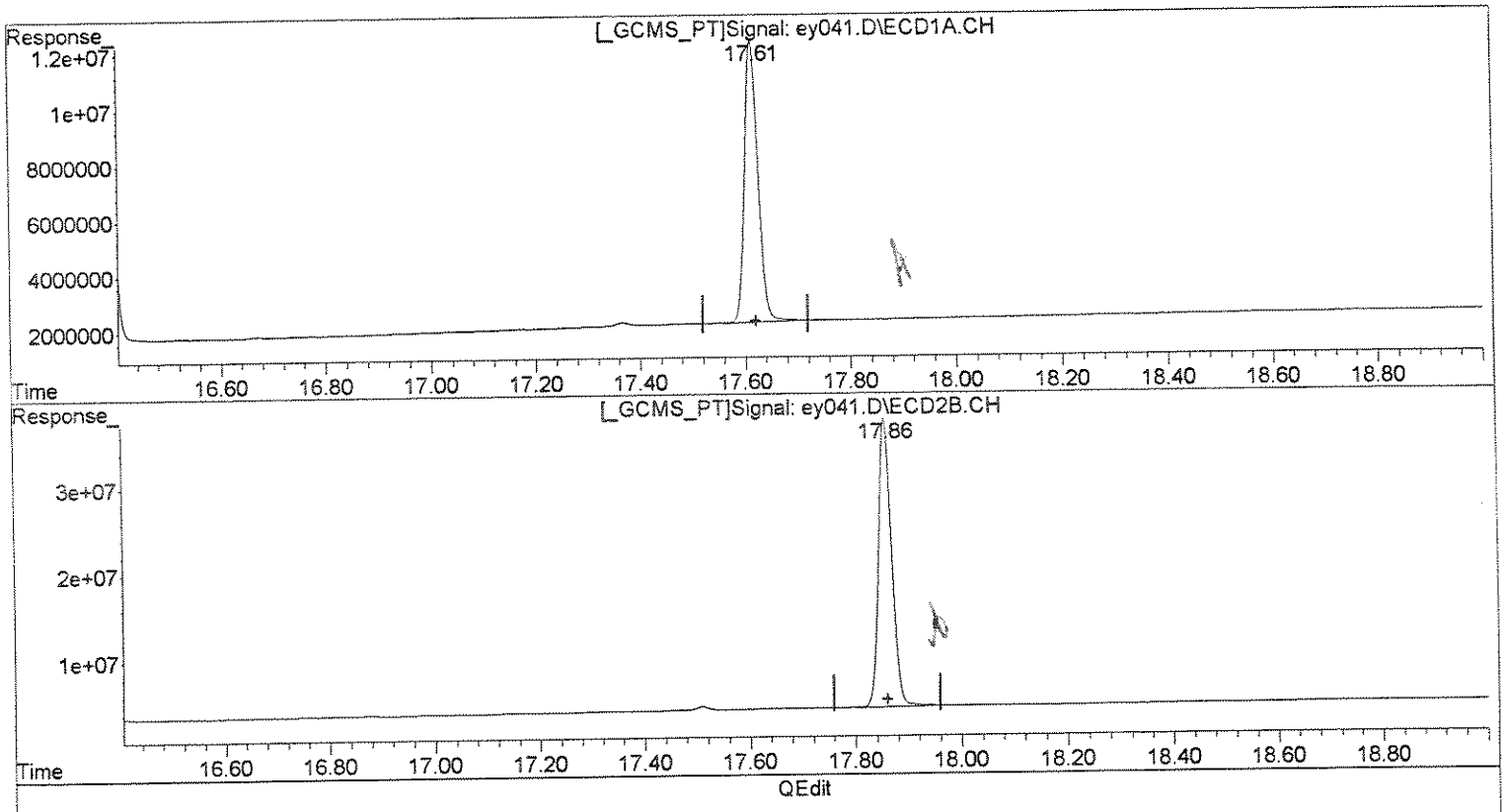
00499

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:20 pm
Operator : M.PEDRO
Sample : indbl
Misc : initial cal
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:44 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 10.382ug/l m
response 177648594

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 13.294ug/l m
response 573007738

(+) = Expected Retention Time

00500

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:23:02 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	204.9E6	860.1E6	11.107	14.634 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		11.11%#	14.63%#
25) S SURR2,Decachloro	17.61	17.86	354.6E6	1152.4E6	20.724m	26.736m#
Spiked Amount 100.000	Range 30 - 150		Recovery =		20.72%#	26.74%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	243.2E6	931.6E6	10.261	12.857 #
7) tc beta-BHC	11.12	11.12	112.9E6	460.1E6	10.458	13.412 #
8) tc delta-BHC	11.40	11.56	262.0E6	1042.4E6	10.719	14.128 #
9) tc Heptachlor E	13.10	12.96	226.6E6	835.1E6	10.309	13.104 #
11) tc gamma-Chlord	13.28	13.23	214.3E6	826.6E6	10.130	13.066 #
12) tc alpha-Chlord	13.48	13.44	211.6E6	785.7E6	10.285	12.781
13) tc 4,4'-DDE	13.58	13.68	430.5E6	1575.5E6	21.259	26.788 #
17) tc beta-Endosul	14.72	14.66	370.5E6	1320.4E6	20.345	26.258 #
20) tc Endrin Aldeh	15.35	15.16	288.5E6	999.6E6	20.307	26.505 #
21) tc Endosulfan S	15.99	15.57	329.5E6	1161.9E6	19.643	26.384 #
24) tc Endrin Keton	16.38	16.32	381.5E6	1272.3E6	19.862	25.958 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

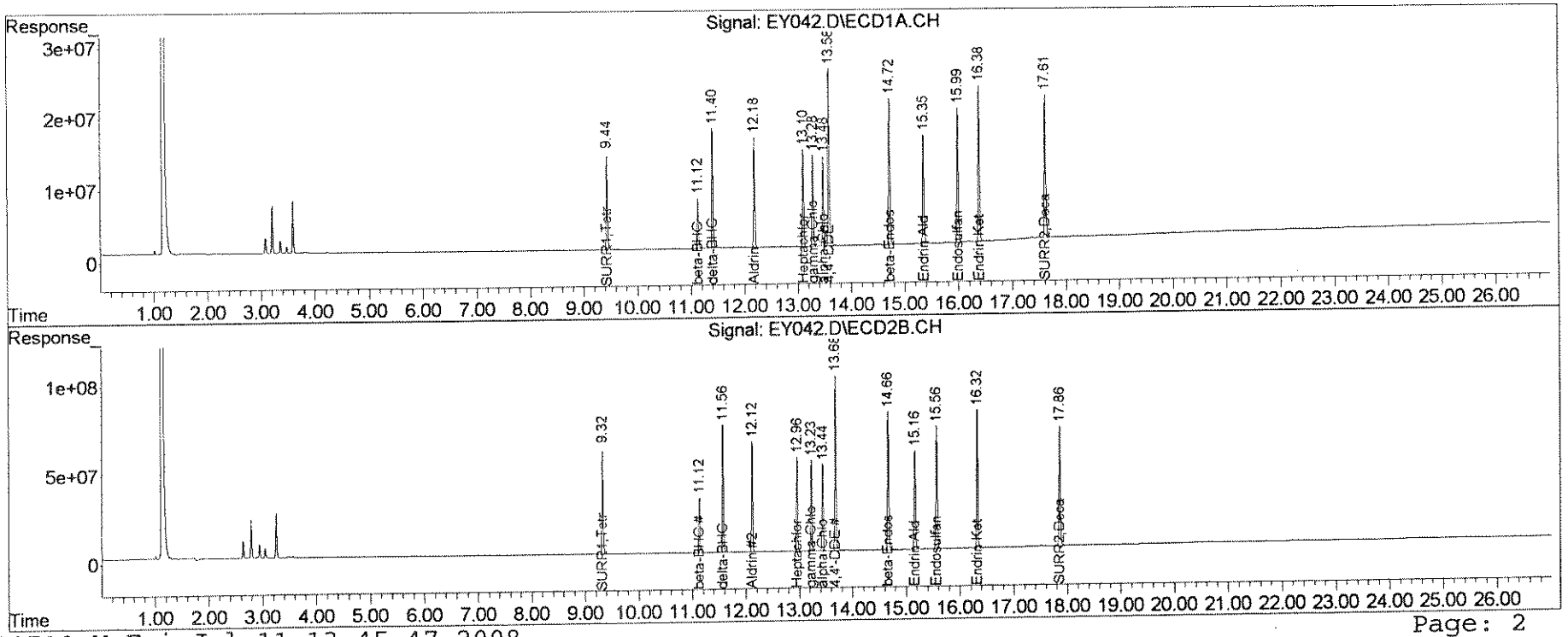
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:23:02 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

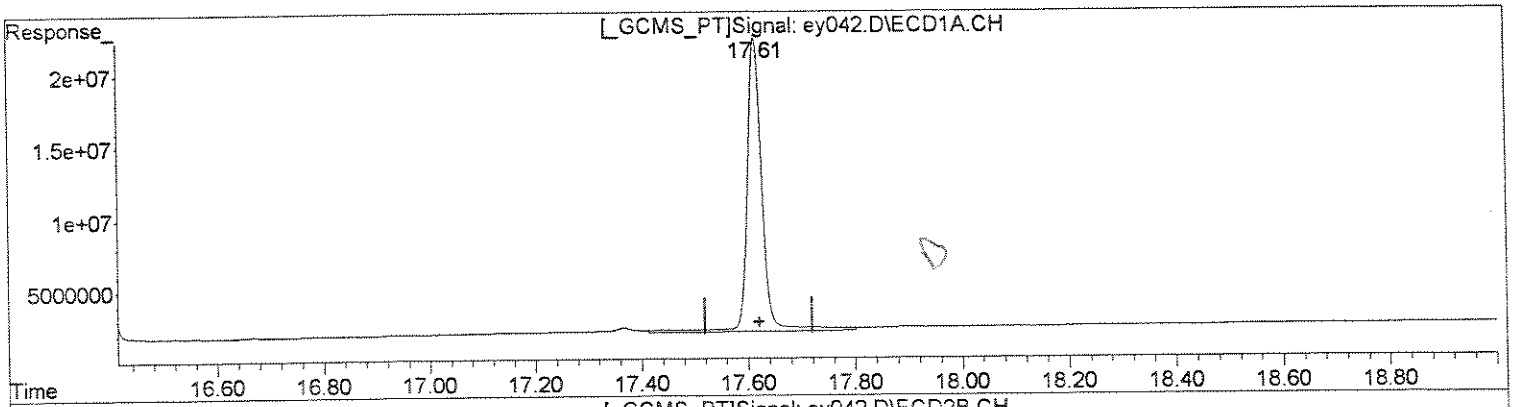


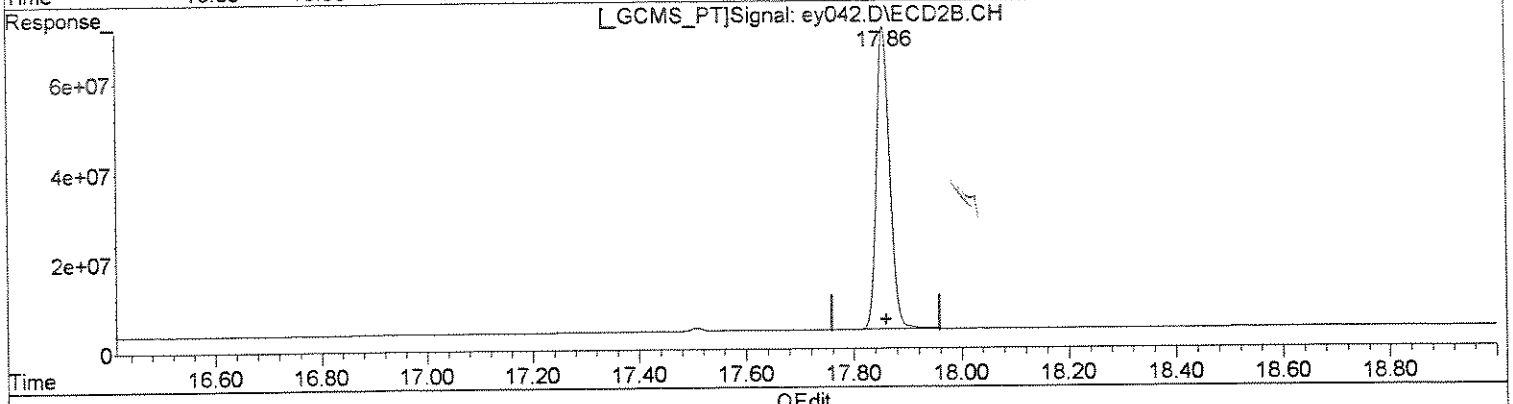
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(25) SURR2,Decachlorobiphenyl (S)
17.61min 23.226ug/l
response 397418479

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 26.580ug/l
response 1145666598

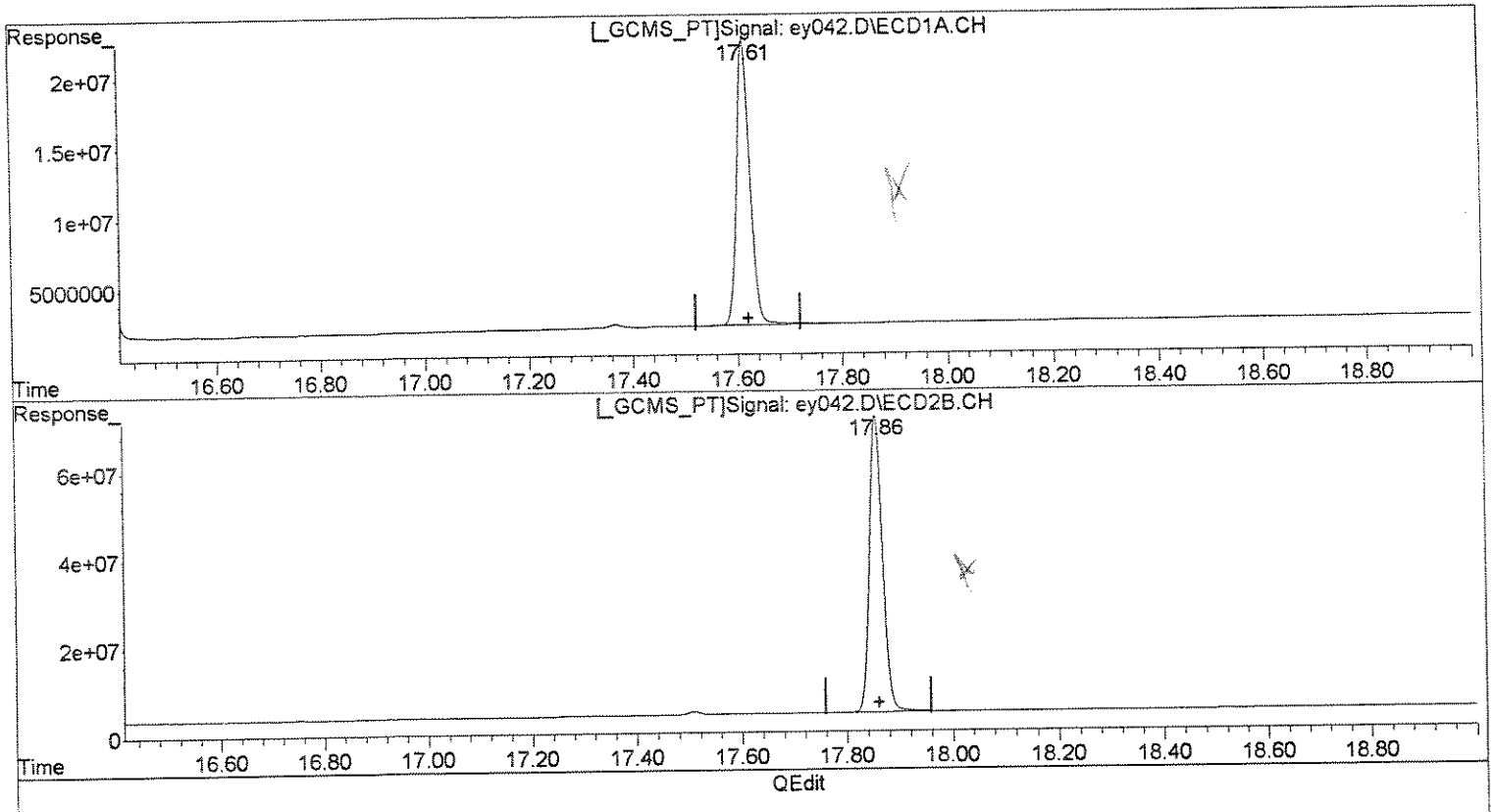
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 7:55 pm
Operator : M.PEDRO
Sample : indbml
Misc : initial cal
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:00:49 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 20.724ug/l m
response 354602418

(25) SURR2,Decachlorobiphenyl #2 (S)
17.86min 26.736ug/l m
response 1152403488

(+) = Expected Retention Time

00504

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 8:31 pm
Operator : M.PEDRO
Sample : indbm
Misc : initial cal
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:23:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	410.8E6	1669.3E6	22.266	28.401 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		22.27%#	28.40%#
25) S SURR2,Decachloro	17.61	17.86	721.8E6	2252.2E6	42.185	52.252
Spiked Amount 100.000	Range 30 - 150		Recovery =		42.19%	52.25%
Target Compounds						
6) tcm Aldrin	12.18	12.12	500.3E6	1855.6E6	21.111	25.608
7) tc beta-BHC	11.12	11.12	224.9E6	902.1E6	20.834	26.298 #
8) tc delta-BHC	11.40	11.56	548.6E6	2099.5E6	22.443	28.457 #
9) tc Heptachlor E	13.10	12.96	456.6E6	1629.3E6	20.773	25.567
11) tc gamma-Chlord	13.28	13.23	436.4E6	1651.8E6	20.635	26.108 #
12) tc alpha-Chlord	13.48	13.44	424.9E6	1565.2E6	20.658	25.459
13) tc 4,4'-DDE	13.58	13.68	879.2E6	3128.4E6	43.411	53.193
17) tc beta-Endosul	14.72	14.66	747.4E6	2601.3E6	41.037	51.732 #
20) tc Endrin Aldeh	15.35	15.16	591.1E6	1993.2E6	41.608	52.854 #
21) tc Endosulfan S	15.99	15.57	673.3E6	2318.5E6	40.139	52.648 #
24) tc Endrin Keton	16.38	16.32	776.4E6	2545.4E6	40.415	51.931 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

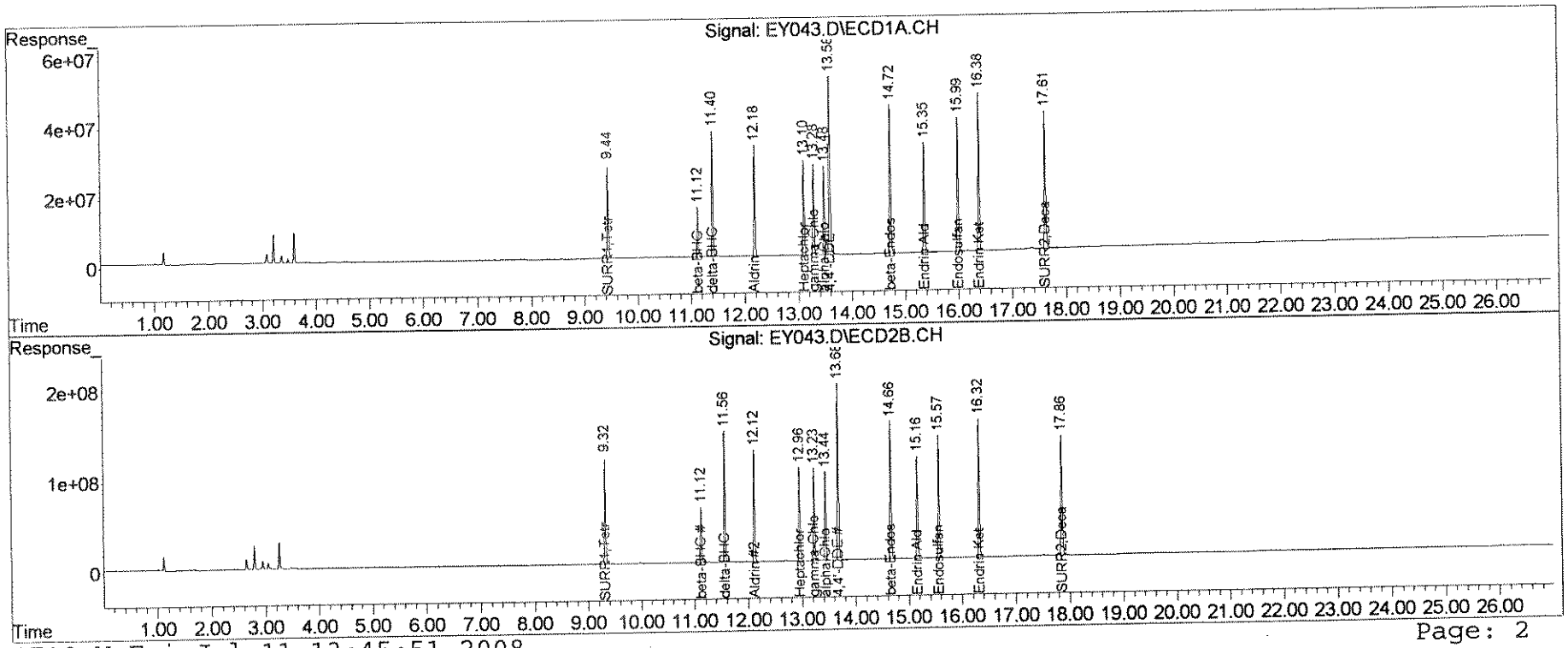
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 8:31 pm
Operator : M.PEDRO
Sample : indbm
Misc : initial cal
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:23:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 9:07 pm
Operator : M.PEDRO
Sample : indbmh
Misc : initial cal
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:24:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.44	9.32	833.9E6	3284.1E6	45.193	55.874	
Spiked Amount 100.000	Range 30 - 150		Recovery =		45.19%	55.87%	
25) S SURR2,Decachloro	17.61	17.86	1393.3E6	4433.6E6	81.430	102.861	#
Spiked Amount 100.000	Range 30 - 150		Recovery =		81.43%	102.86%	
Target Compounds							
6) tcm Aldrin	12.18	12.12	1024.3E6	3653.6E6	43.222	50.422	
7) tc beta-BHC	11.12	11.12	459.8E6	1776.5E6	42.587	51.791	
8) tc delta-BHC	11.40	11.56	1140.0E6	4189.3E6	46.634	56.782	
9) tc Heptachlor E	13.10	12.96	922.4E6	3169.4E6	41.967	49.733	
11) tc gamma-Chlord	13.28	13.23	896.8E6	3288.5E6	42.403	51.979	
12) tc alpha-Chlord	13.48	13.44	870.6E6	3113.2E6	42.324	50.639	
13) tc 4,4'-DDE	13.58	13.68	1800.8E6	6137.1E6	88.920	104.350	
17) tc beta-Endosul	14.72	14.66	1520.3E6	5065.0E6	83.475	100.727	
20) tc Endrin Aldeh	15.35	15.16	1192.6E6	3889.3E6	83.950	103.129	
21) tc Endosulfan S	15.99	15.57	1370.5E6	4558.8E6	81.704	103.521	#
24) tc Endrin Keton	16.38	16.32	1583.7E6	5029.7E6	82.442	102.616	
Sum Toxaphene			0	0	N.D.	N.D.	
Average Toxaphene					0.000	0.000	
Sum Chlordane			0	0	N.D.	N.D.	
Average Chlordane					0.000	0.000	

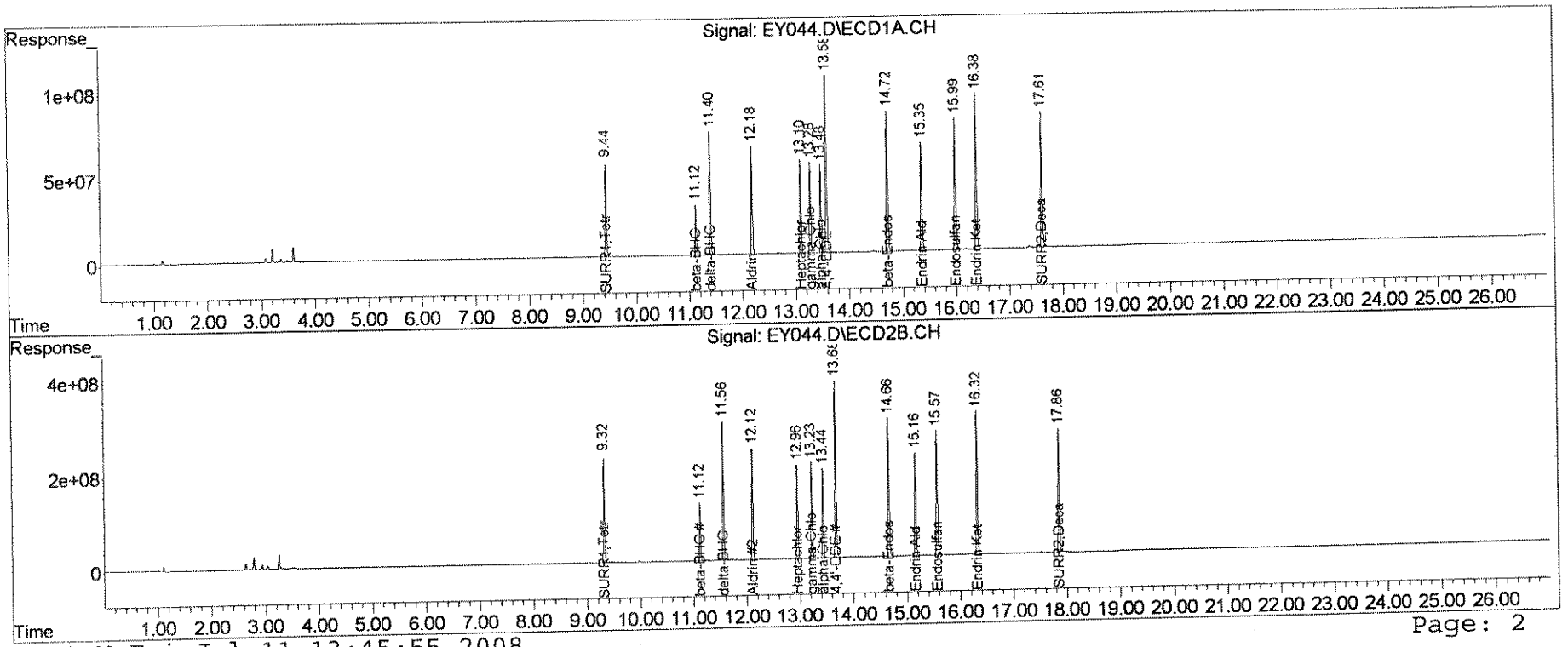
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 9:07 pm
Operator : M.PEDRO
Sample : indbmh
Misc : initial cal
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:24:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 9:43 pm
Operator : M.PEDRO
Sample : indbh
Misc : initial cal
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:25:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1698.4E6	6399.1E6	92.045	108.871
Spiked Amount 100.000	Range 30 - 150		Recovery =		92.05%	108.87%
25) S SURR2,Decachloro	17.61	17.86	2802.1E6	8858.3E6	163.760	205.517 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		163.76%#	205.52%#
Target Compounds						
6) tcm Aldrin	12.18	12.12	2092.4E6	7089.4E6	88.296	97.837
7) tc beta-BHC	11.12	11.12	946.8E6	3559.9E6	87.703	103.782
8) tc delta-BHC	11.40	11.56	2352.5E6	8268.5E6	96.233	112.072
9) tc Heptachlor E	13.10	12.96	1870.9E6	6094.7E6	85.117	95.636
11) tc gamma-Chlord	13.28	13.23	1852.5E6	6493.4E6	87.585	102.635
12) tc alpha-Chlord	13.48	13.44	1792.8E6	6175.4E6	87.157	100.449
13) tc 4,4'-DDE	13.58	13.68	3631.2E6	11817.6E6	179.300	200.936
17) tc beta-Endosul	14.72	14.66	3089.8E6	9846.8E6	169.646	195.820
20) tc Endrin Aldeh	15.35	15.16	2459.2E6	7708.5E6	173.110	204.402
21) tc Endosulfan S	15.99	15.57	2803.1E6	9011.2E6	167.115	204.626
24) tc Endrin Keton	16.38	16.32	3226.3E6	9945.6E6	167.946	202.911
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

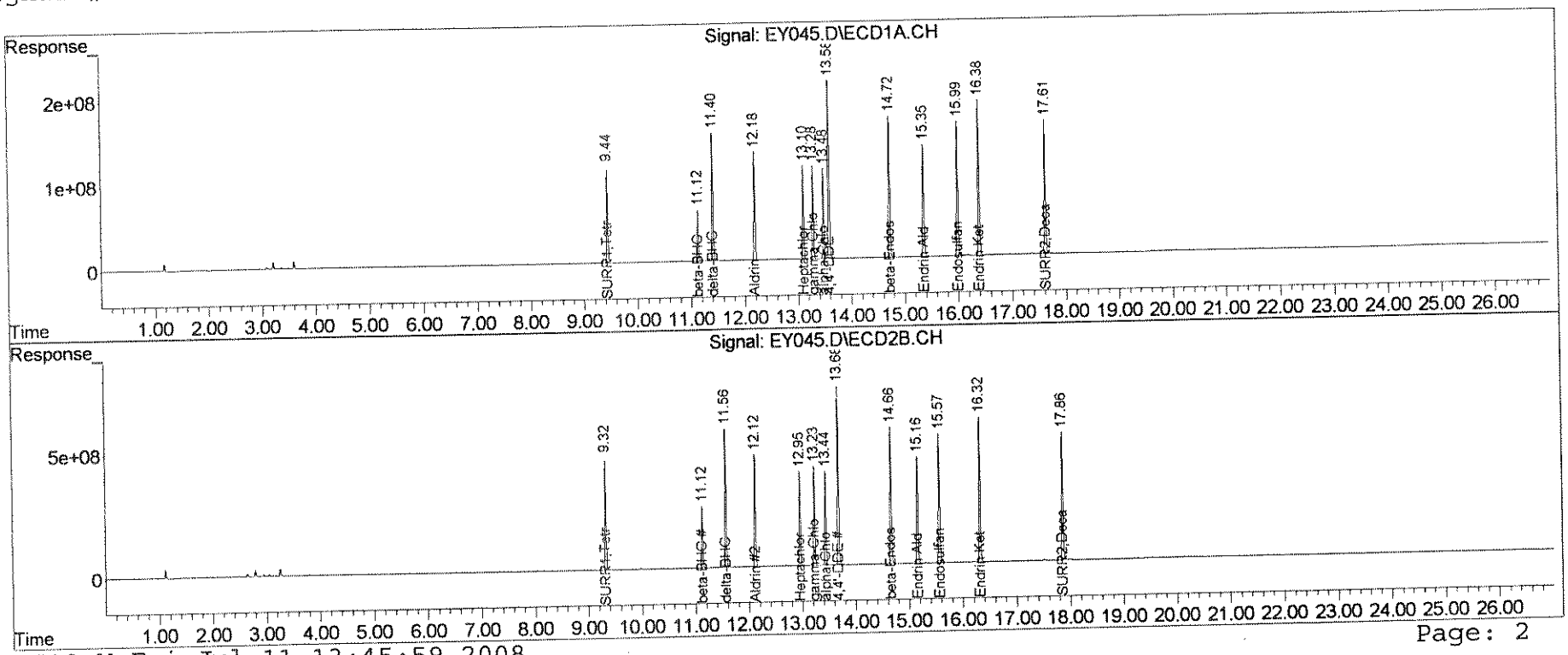
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 9:43 pm
Operator : M.PEDRO
Sample : indbh
Misc : initial cal
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:25:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:26:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	162.9E6	736.6E6	5.742	7.892 #
16)	tc KEPONE	14.44	14.52	3473.6E6	11045.7E6	519.980	675.983 #
23)	tc FAMPHUR	16.26	15.66	1381.9E6	4443.2E6	108.103	151.268m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

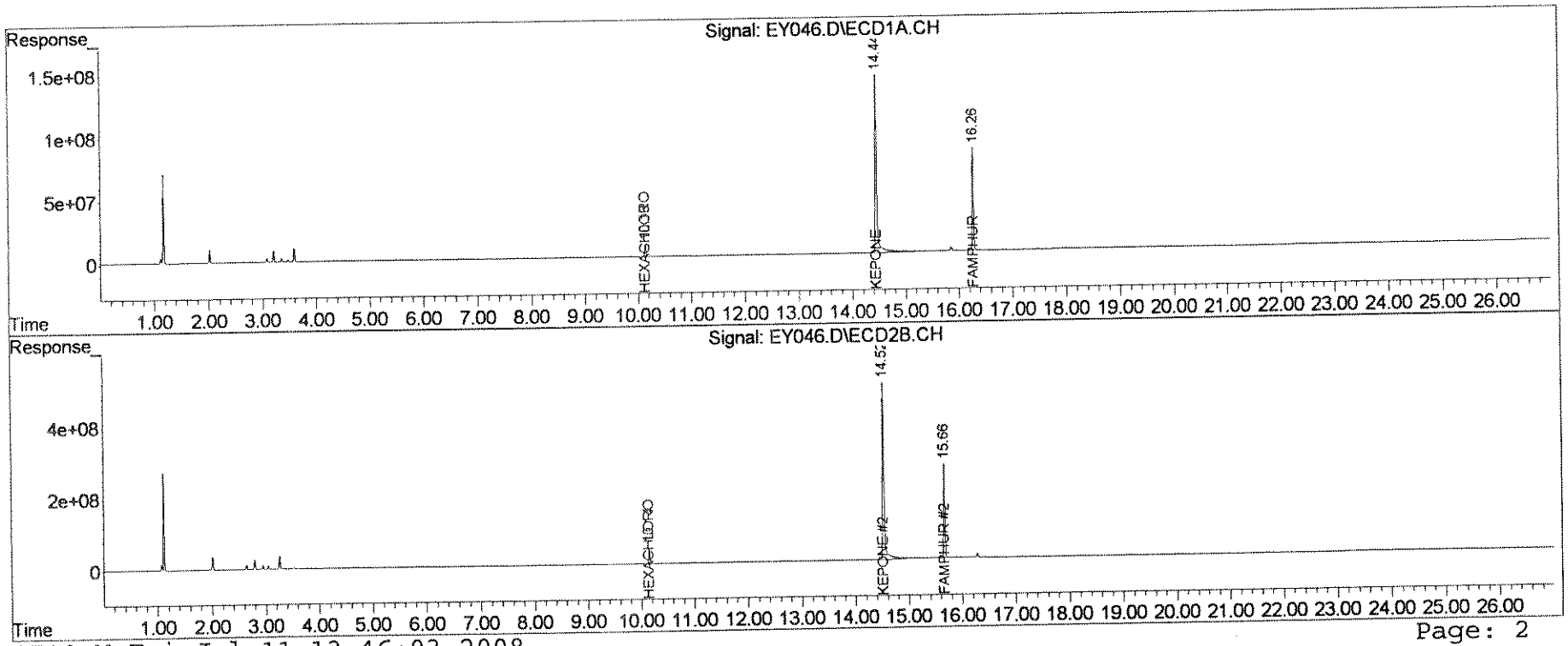
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:26:04 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

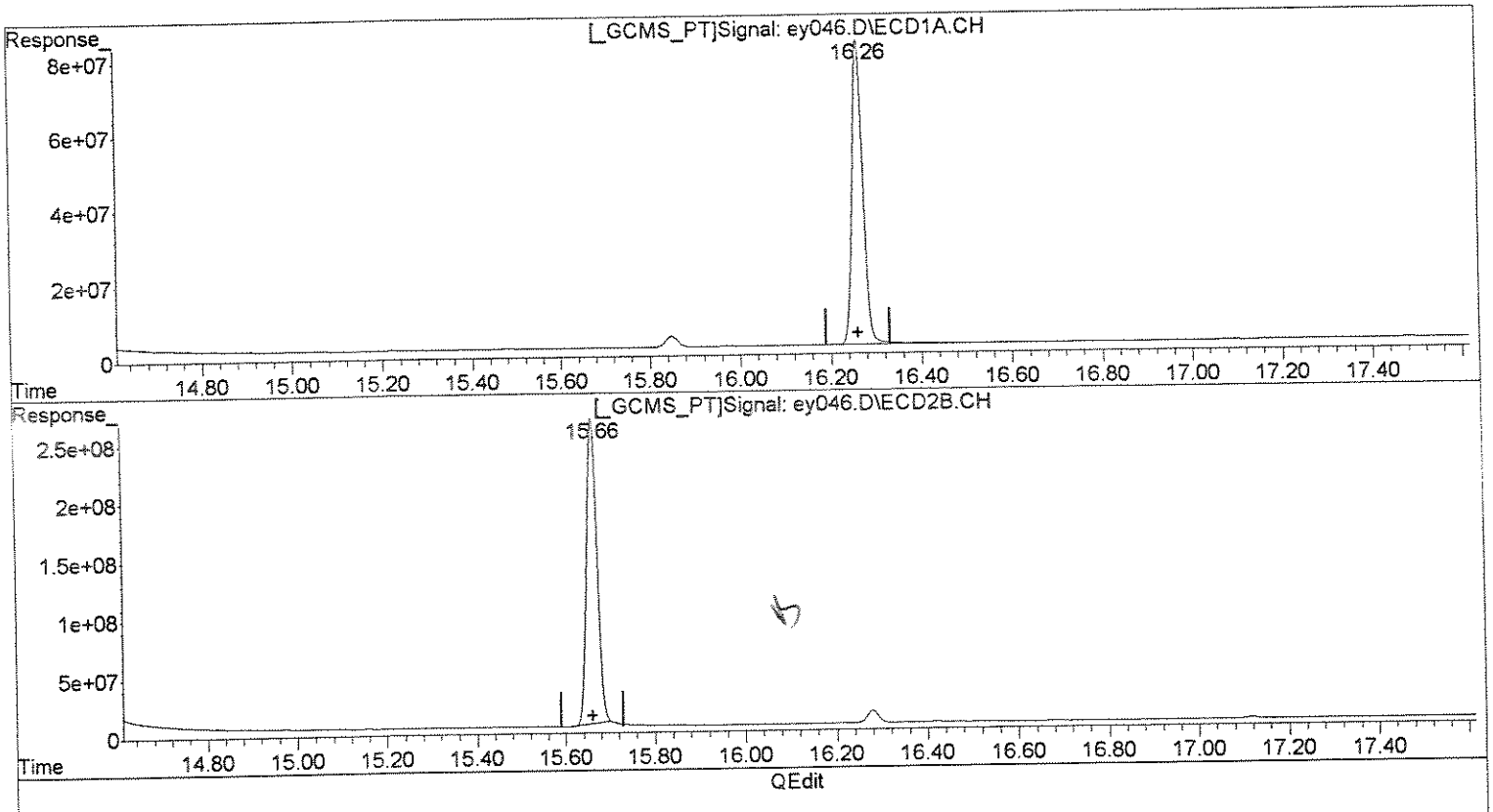


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 108.103ug/l
response 1381933679

(23) FAMPHUR #2 (tc)
15.66min 145.872ug/l
response 4284737536

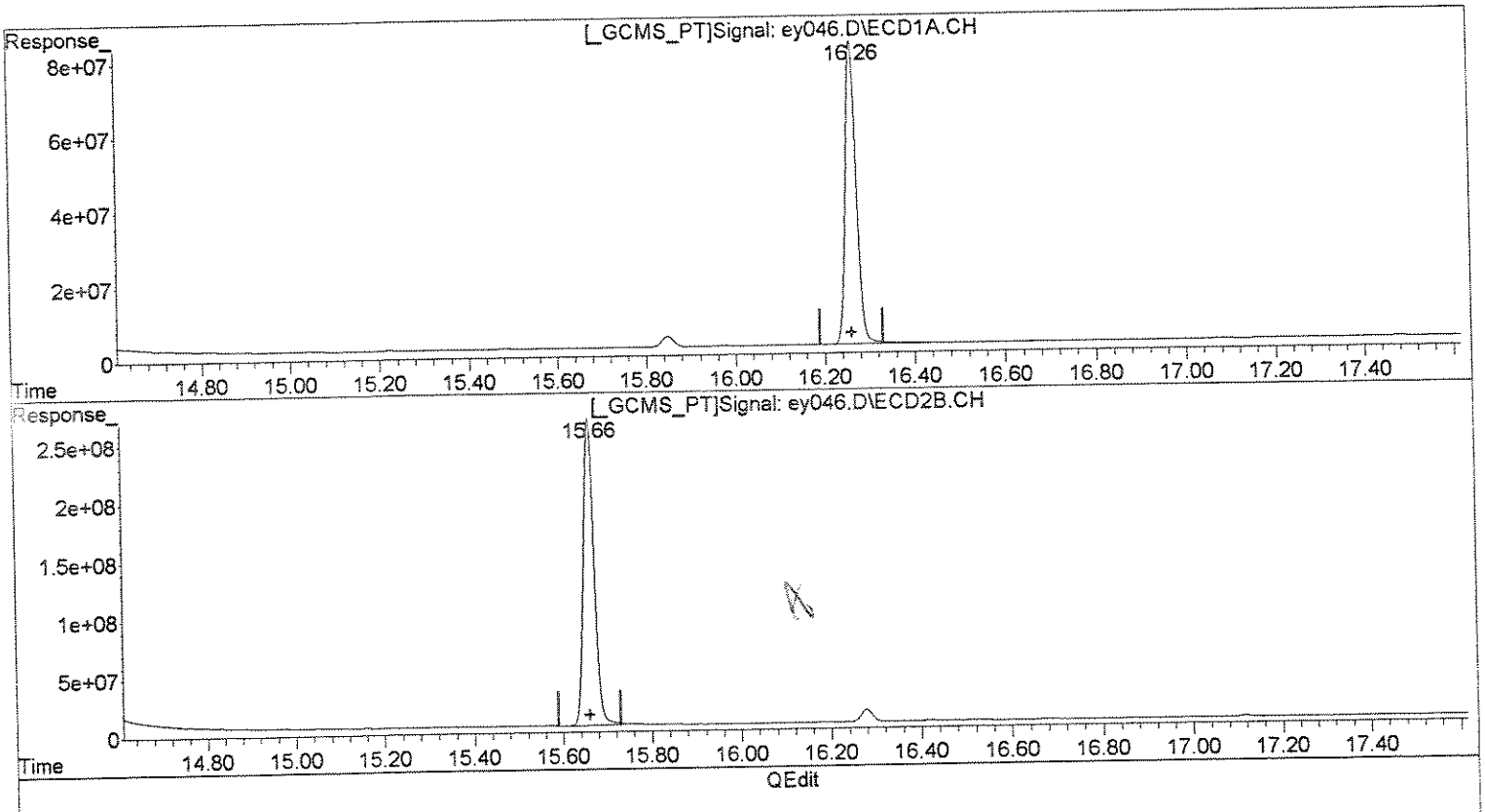
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:18 pm
Operator : M.PEDRO
Sample : kep/fam 1
Misc : initial cal
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 108.103ug/l
response 1381933679

(23) FAMPHUR #2 (tc)
15.66min 151.268ug/l m
response 4443239687

(+) = Expected Retention Time

00514

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:26:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
2) TC HEXACHLOROBENZEN	10.13	10.14	593.6E6	2493.3E6	20.921	26.715 #
16) tc KEPONE	14.44	14.52	7073.0E6	22302.5E6	1058.804	1364.882 #
23) tc FAMPHUR	16.26	15.66	2607.6E6	8060.3E6	203.978	274.408m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

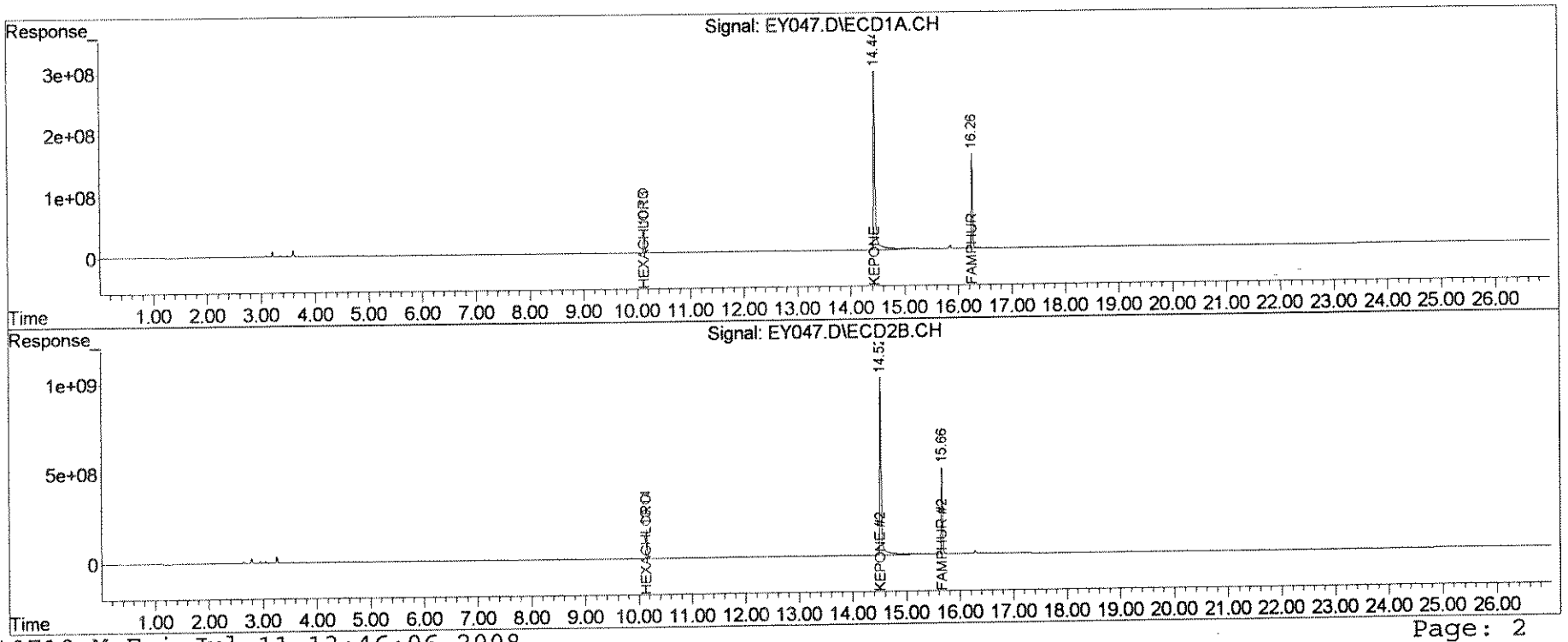
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:26:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

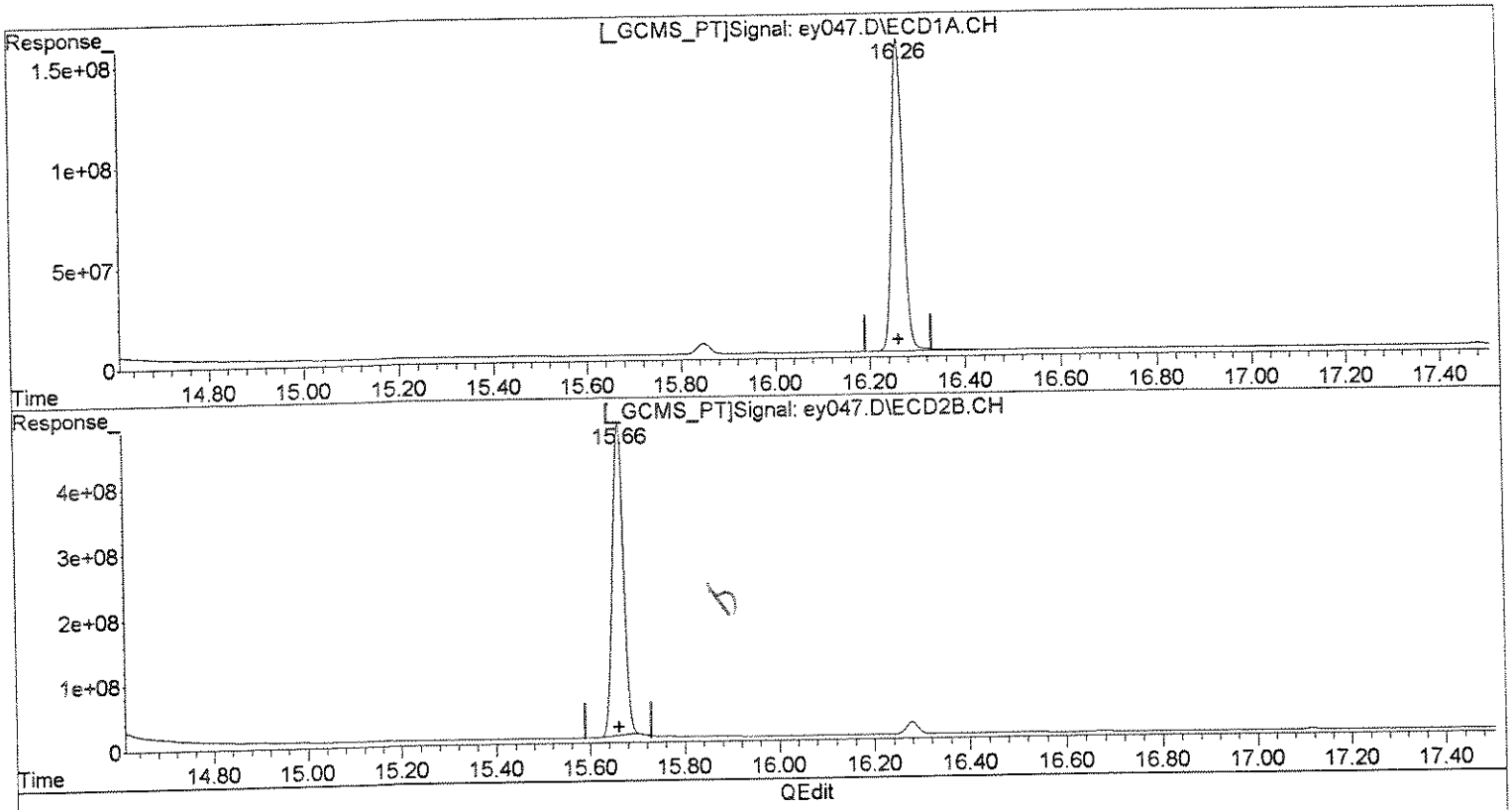


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 203.978ug/l
response 2607565281

(23) FAMPHUR #2 (tc)
15.66min 266.046ug/l
response 7814660987

(+) = Expected Retention Time

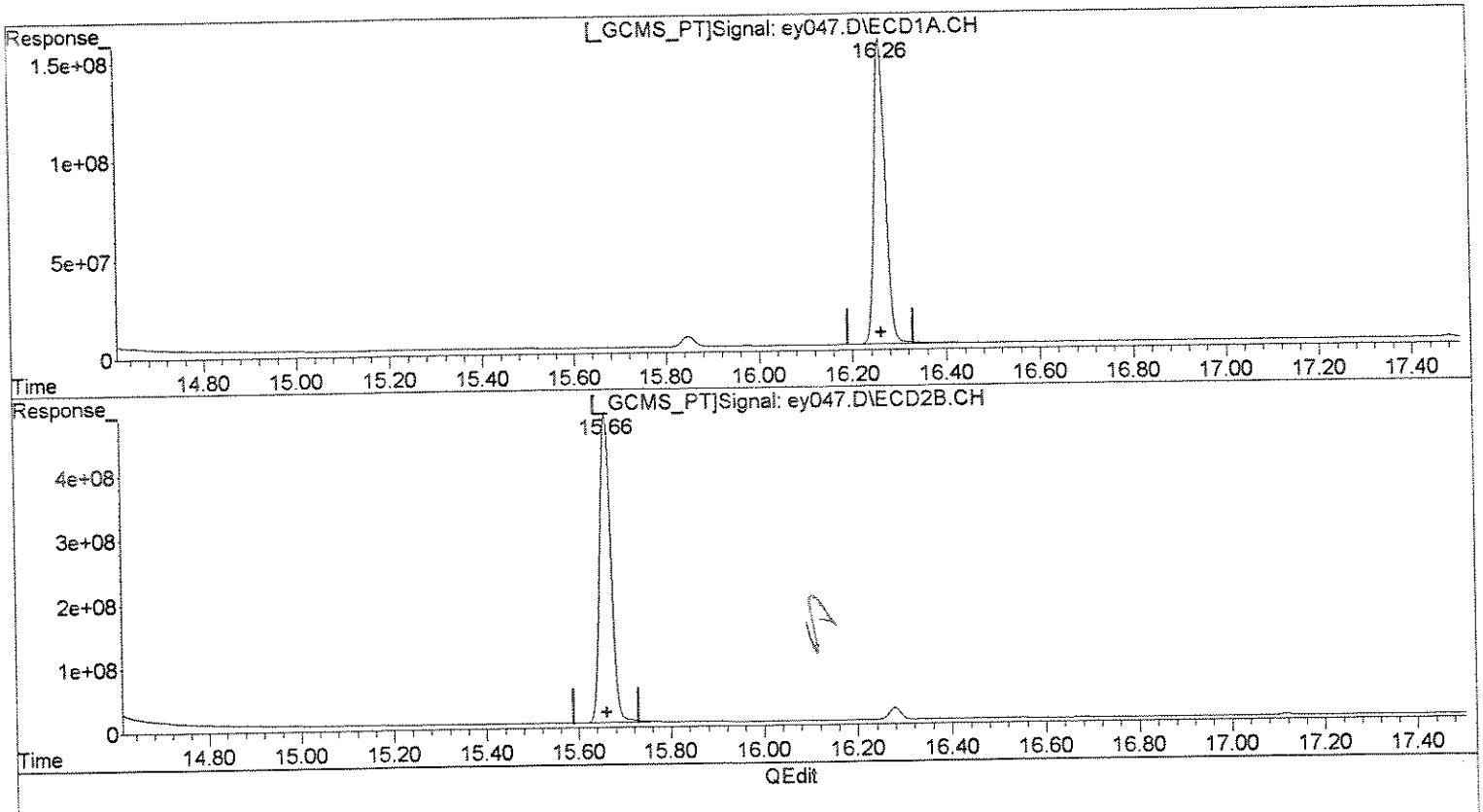
00517

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 10:54 pm
Operator : M.PEDRO
Sample : kep/fam ml
Misc : initial cal
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 203.978ug/l
response 2607565281

(23) FAMPHUR #2 (tc)
15.66min 274.408ug/l m
response 8060279415

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:27:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	1431.2E6	5821.2E6	50.439	62.371
16)	tc KEPONE	14.44	14.52	11799.2E6	35925.9E6	1766.294	2198.620
23)	tc FAMPHUR	16.26	15.66	4144.4E6	12629.1E6	324.195	429.952m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

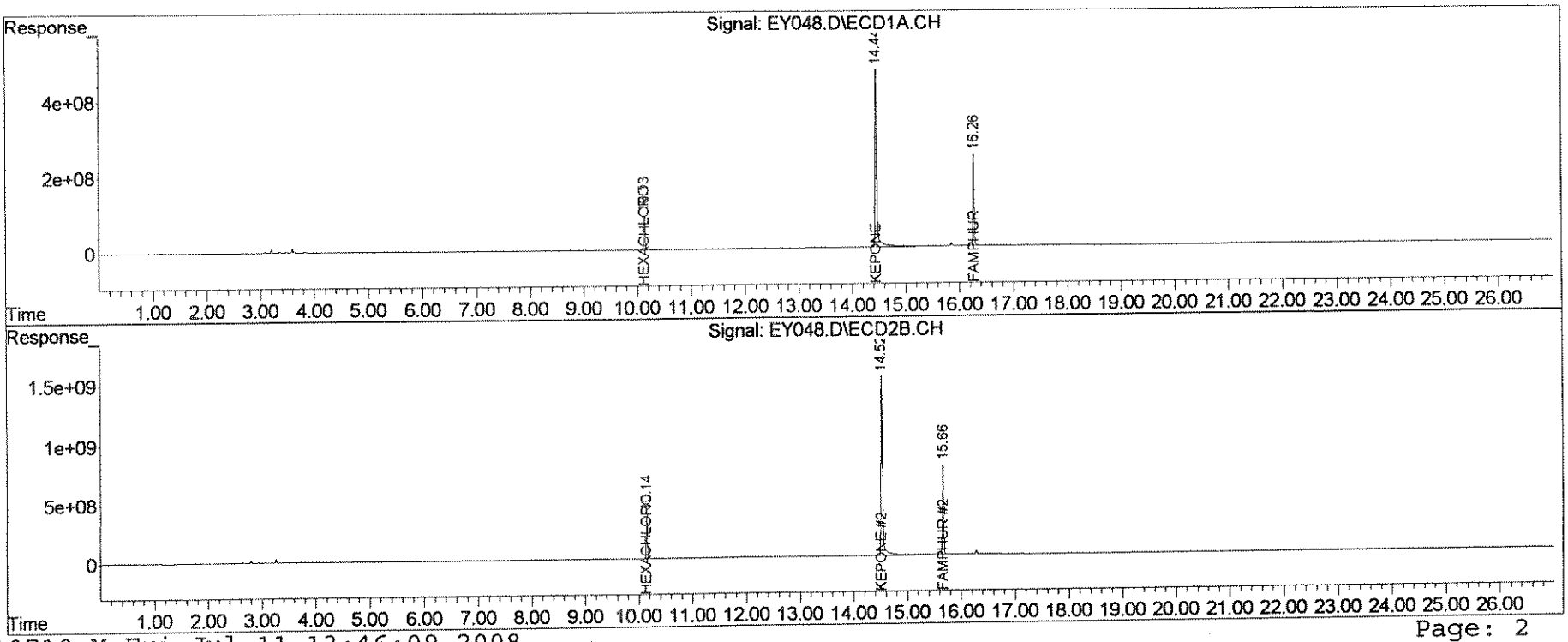
00519

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:27:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

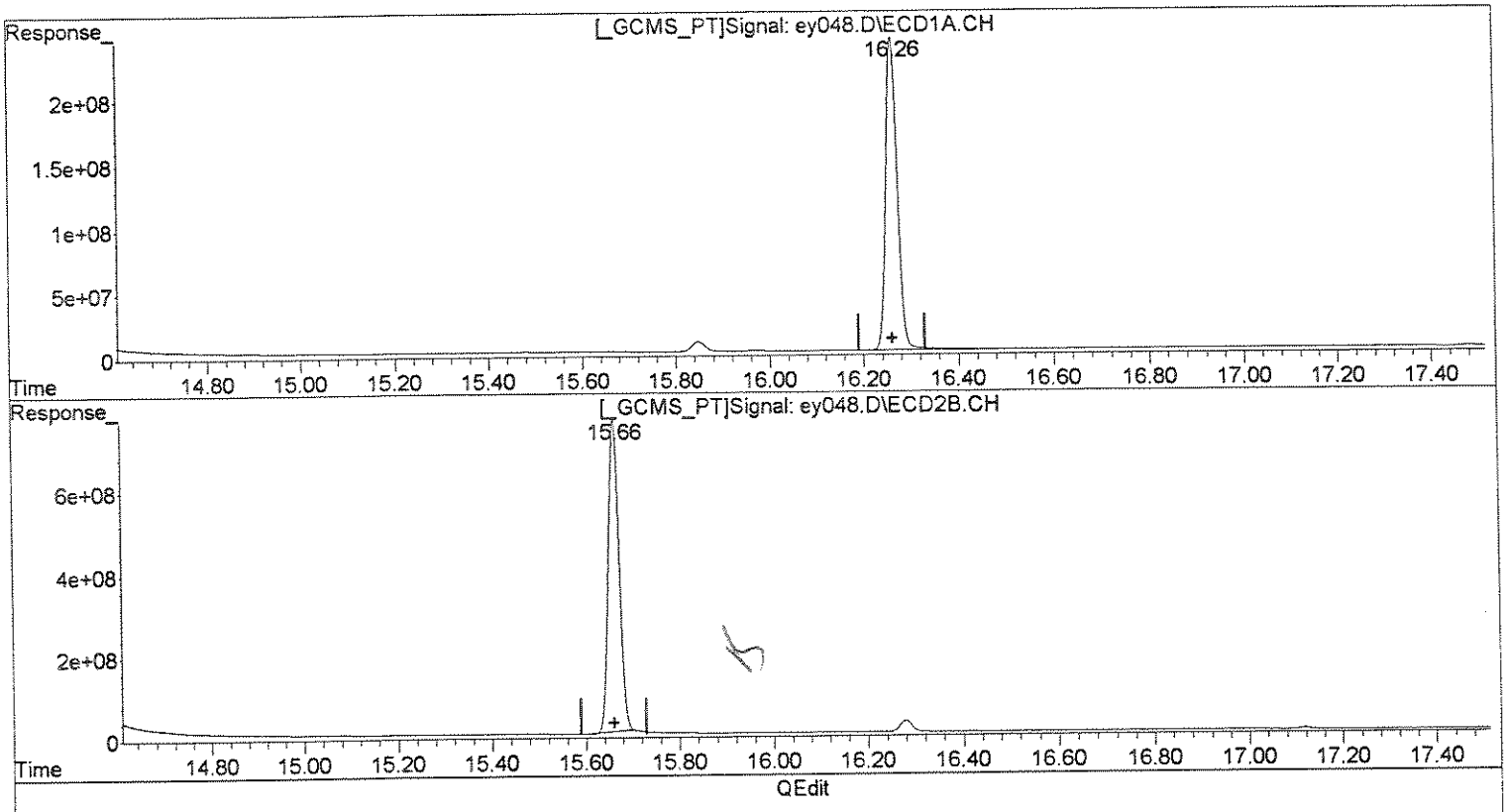


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(23) FAMPHUR (tc)
16.26min 324.195ug/l
response 4144352250

(23) FAMPHUR #2 (tc)
15.66min 419.250ug/l
response 12314769808

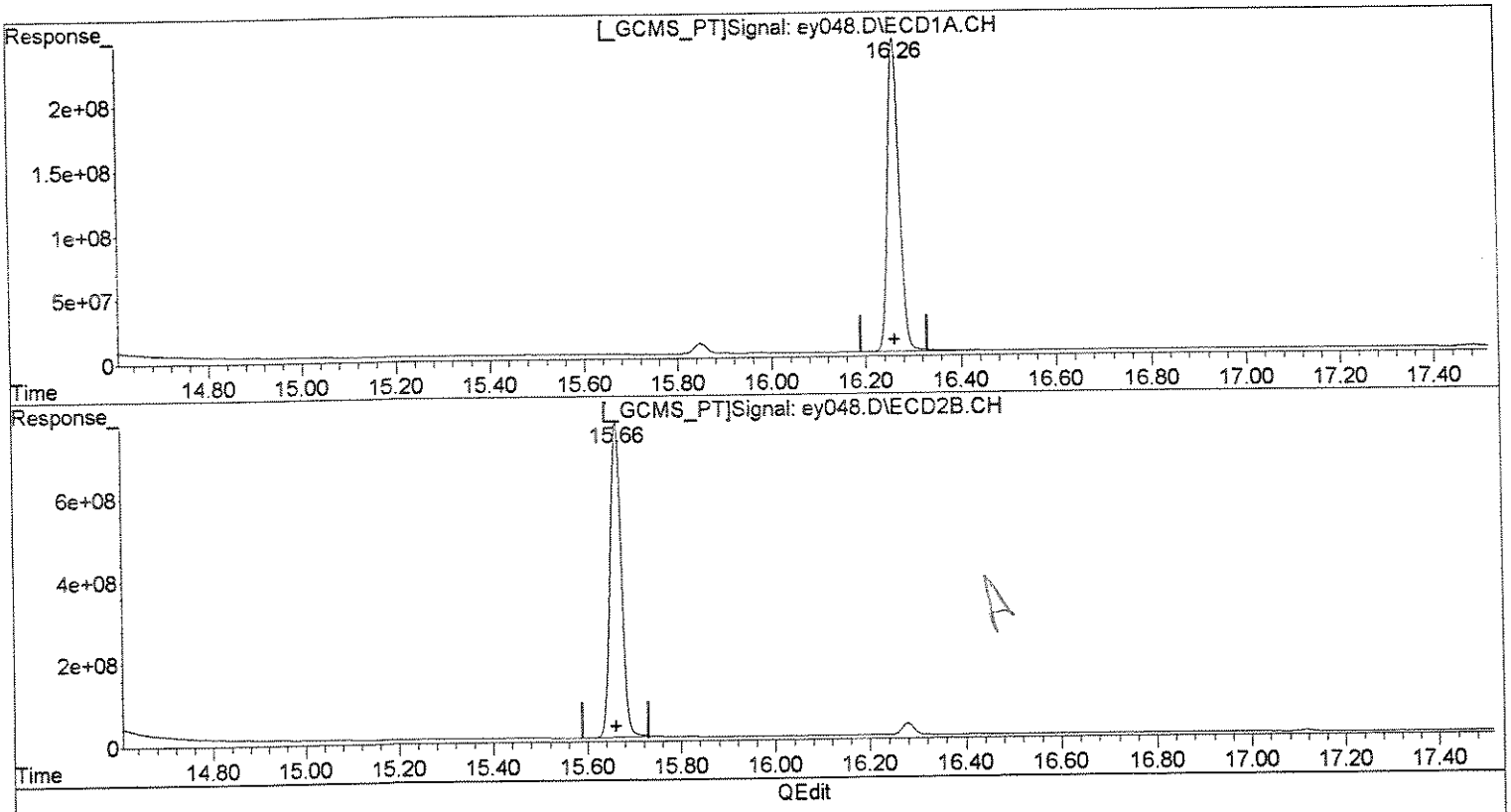
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jul 2008 11:30 pm
Operator : M.PEDRO
Sample : kep/fam m
Misc : initial cal
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:21 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 324.195ug/l
response 4144352250

(23) FAMPHUR #2 (tc)
15.66min 429.952ug/l m
response 12629107818

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:28:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	2229.2E6	8817.5E6	78.559	94.475
16)	tc KEPONE	14.45	14.52	14895.0E6	48142.9E6	2229.728	2946.282 #
23)	tc FAMPHUR	16.26	15.66	5397.9E6	16350.4E6	422.254	556.643m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

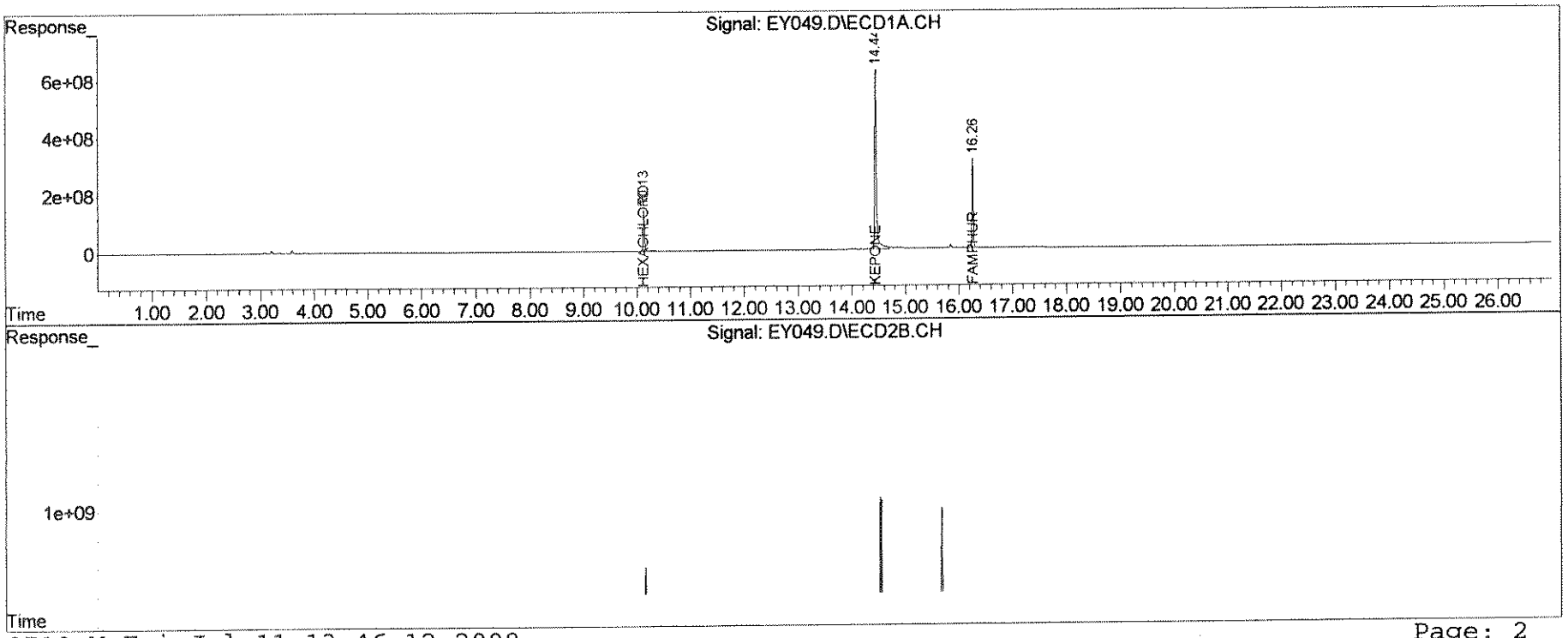
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:28:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

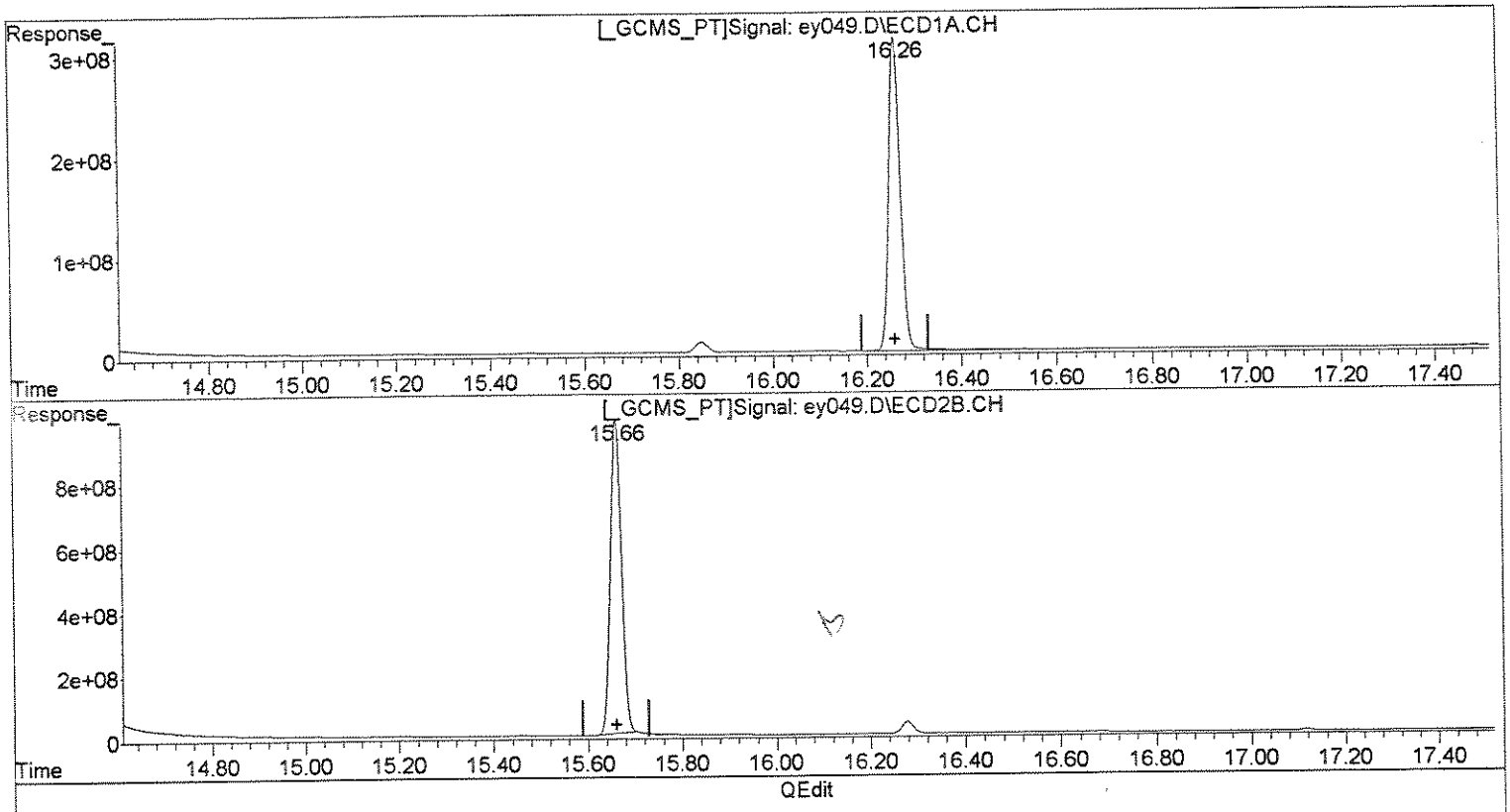


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 422.254ug/l
response 5397900508

(23) FAMPHUR #2 (tc)
15.66min 541.693ug/l
response 15911309862

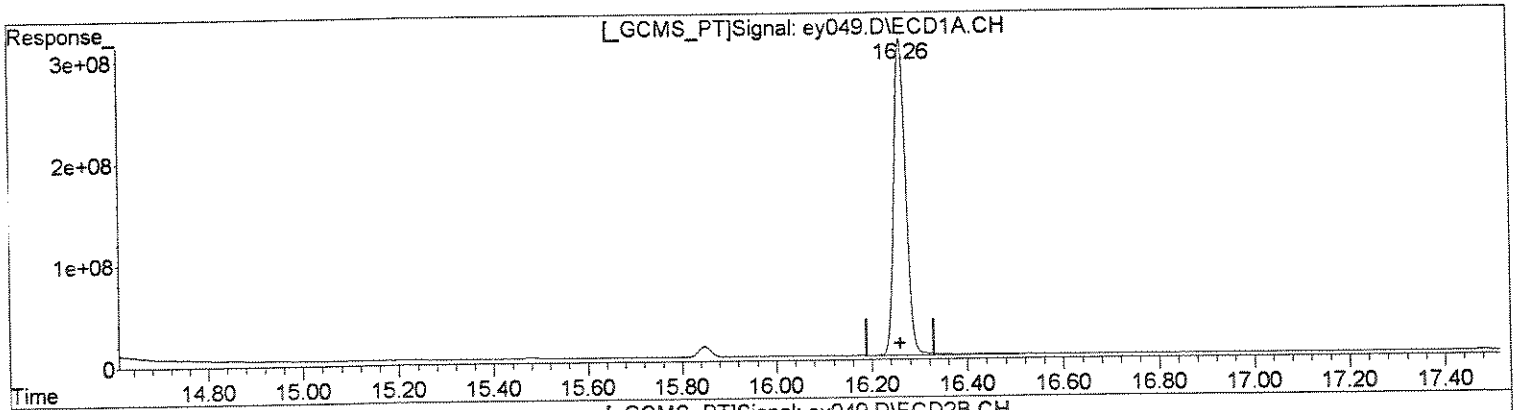
(+) = Expected Retention Time

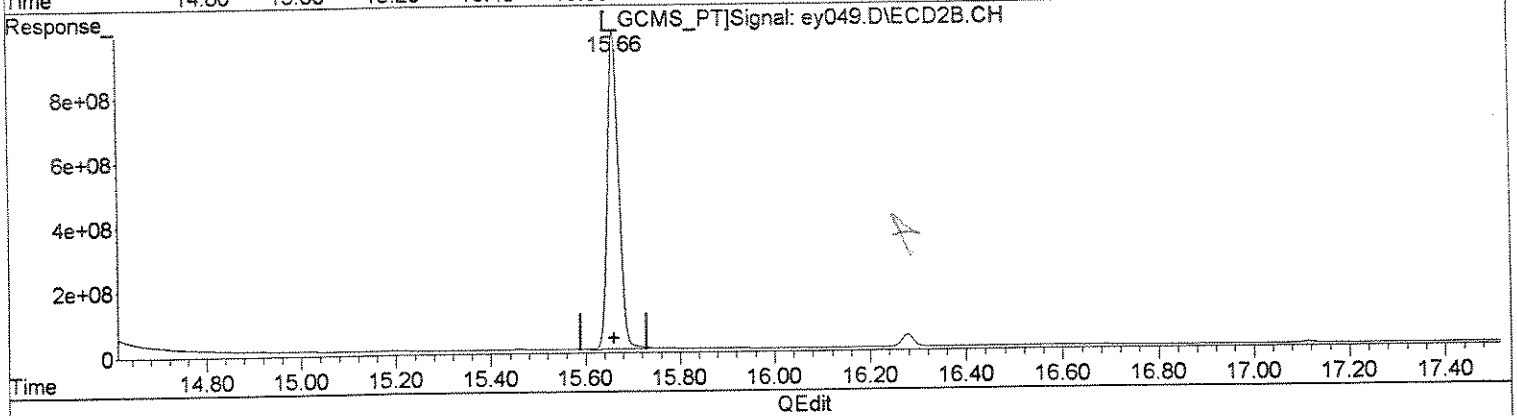
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:05 am
Operator : M.PEDRO
Sample : kep/fam mh
Misc : initial cal
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(23) FAMPHUR (tc)
16.26min 422.254ug/l
response 5397900508

(23) FAMPHUR #2 (tc)
15.66min 556.643ug/l m
response 16350447651

(+) = Expected Retention Time

00526

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:28:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	2817.4E6	10905.2E6	99.289	116.843
16)	tc KEPONE	14.45	14.52	18112.3E6	56388.9E6	2711.335	3450.931 #
23)	tc FAMPHUR	16.26	15.66	6837.9E6	20604.6E6	534.897	701.472m#
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

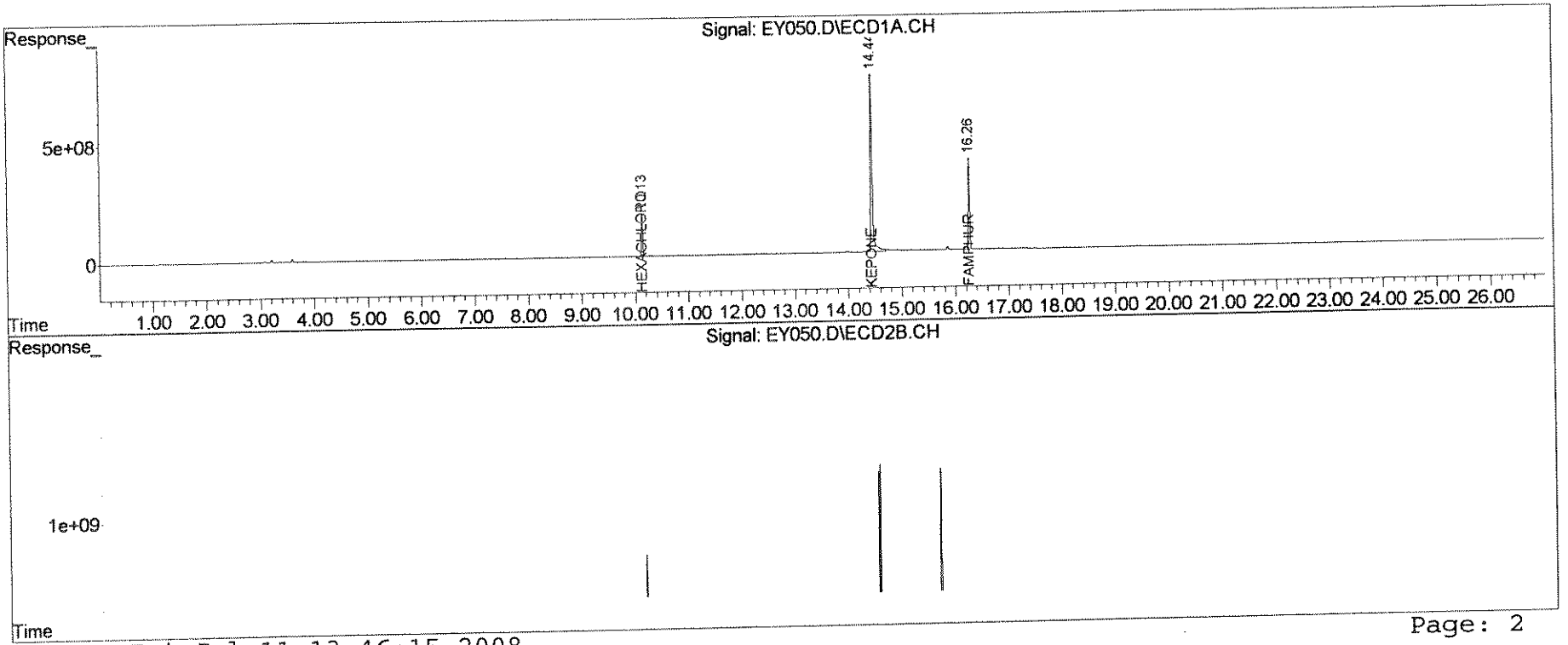
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:28:58 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

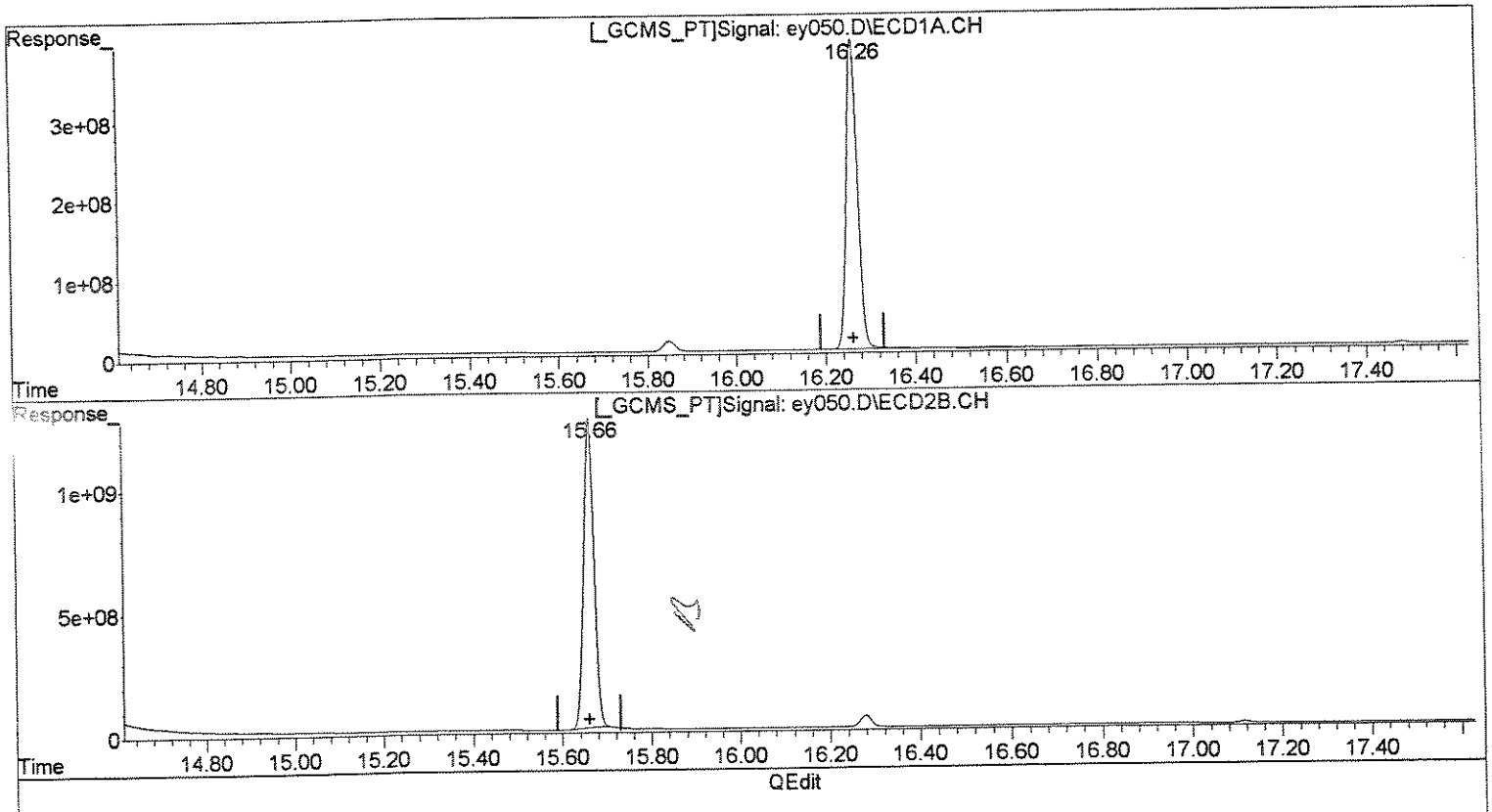


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) FAMPHUR (tc)
16.26min 534.897ug/l
response 6837873013

(23) FAMPHUR #2 (tc)
15.66min 682.980ug/l
response 20061395940

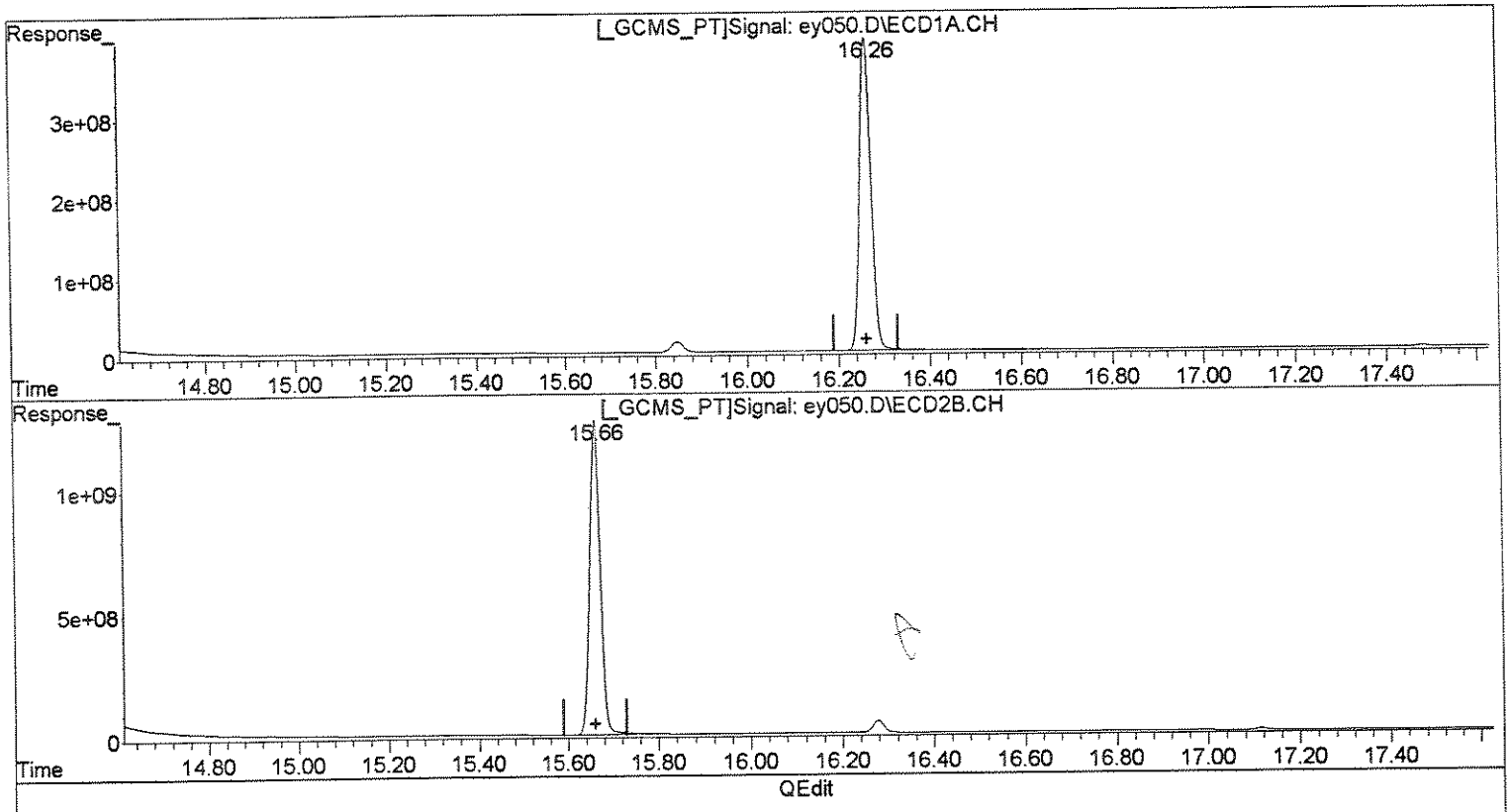
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 12:41 am
Operator : M.PEDRO
Sample : kep/fam h
Misc : initial cal
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(23) FAMPHUR (tc)
16.26min 534.897ug/l
response 6837873013

(23) FAMPHUR #2 (tc)
15.66min 701.472ug/l m
response 20604553043

(+) = Expected Retention Time

00536

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:52 am
Operator : M.PEDRO
Sample : tox 1
Misc : initial cal
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:29:50 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	412.8E6	1693.2E6	22.371	28.807 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		22.37%#	28.81%#
5) S SURR2,Decachloro	17.61	17.86	358.7E6	1152.1E6	20.965	26.730 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		20.97%#	26.73%#
Target Compounds						
6) L8C Toxaphene	14.80	14.78	34630469	193.8E6	80.377m	138.631 #
7) L8C Toxaphene{2}	14.88	15.06	33184045	85286547	83.567m	109.986 #
8) L8C Toxaphene{3}	15.50	15.17	60026218	177.8E6	88.189	115.832 #
9) L8C Toxaphene{4}	16.35	16.45	73675628	182.5E6	79.715	123.180 #
0) L8C Toxaphene{5}	16.54	16.68	57709408	202.6E6	98.614	164.138 #
Sum Toxaphene			259.2E6	842.0E6	430.462	651.767
Average Toxaphene					86.092	130.353
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

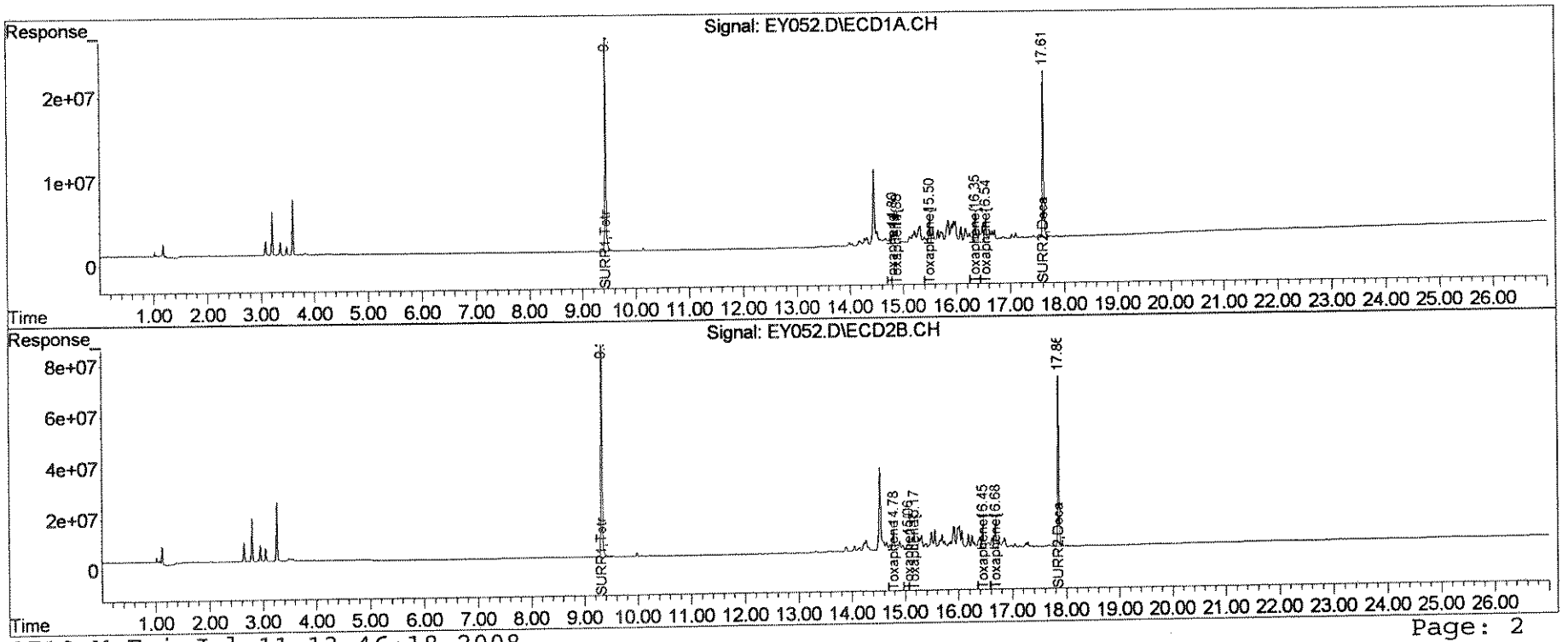
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:52 am
Operator : M.PEDRO
Sample : tox 1
Misc : initial cal
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:29:50 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

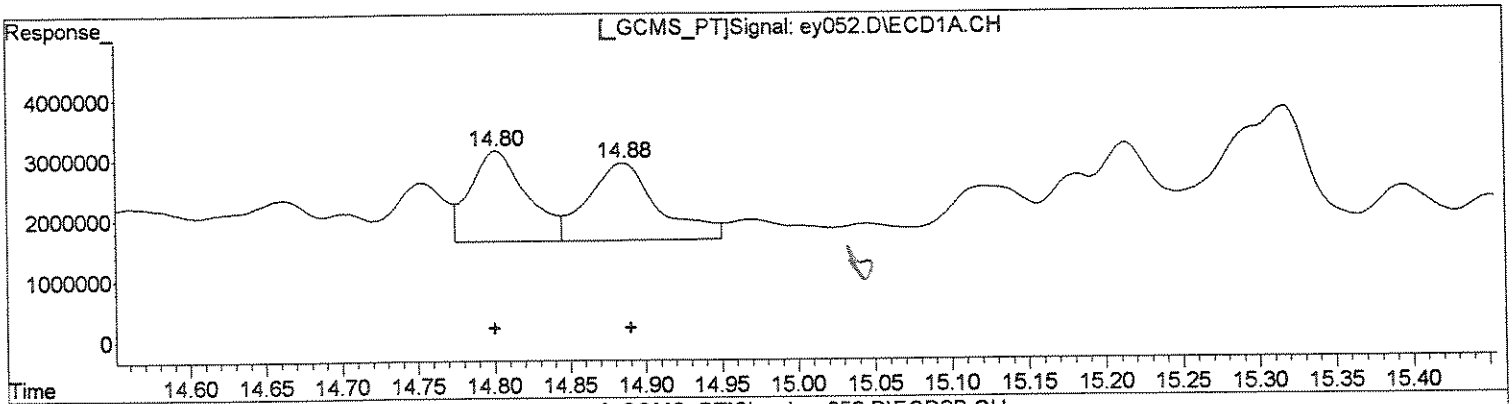


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:52 am
Operator : M.PEDRO
Sample : tox 1
Misc : initial cal
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) Toxaphene (L8C)

R.T.	Response	Conc
14.80	39043204	90.62
14.89	41383569	104.22
15.50	60026218	88.19
16.35	73675628	79.71
16.54	57709408	98.61

(26) Toxaphene #2 (L8C)

R.T.	Response	Conc
14.78	193784941	138.63
15.06	85286547	109.99
15.17	177772552	115.83
16.45	182541318	123.18
16.68	202598619	164.14

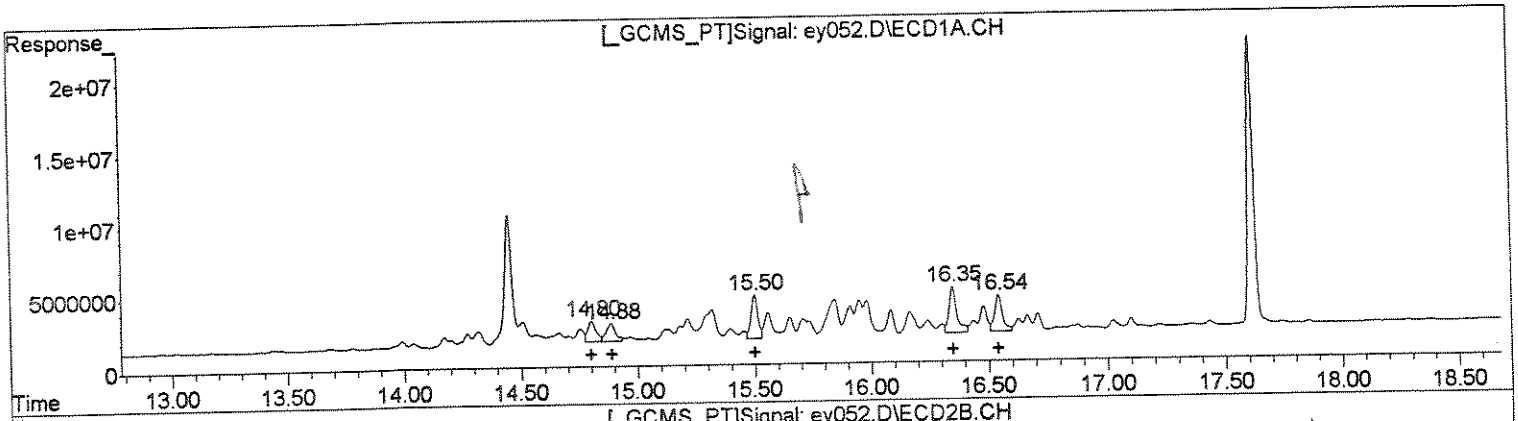
(+) = Expected Retention Time

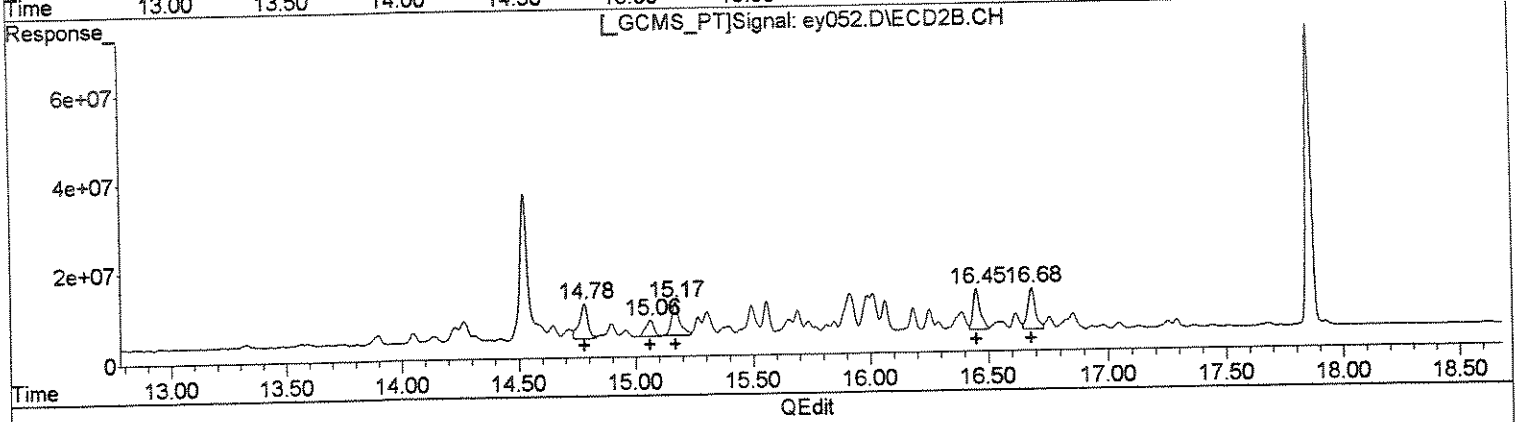
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:52 am
Operator : M.PEDRO
Sample : tox 1
Misc : initial cal
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 11:01:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m





QEdit

(26) Toxaphene #2 (L8C)

R.T.	Response	Conc
14.80	34630469	80.38
14.88	33184045	83.57
15.50	60026218	88.19
16.35	73675628	79.71
16.54	57709408	98.61

(26) Toxaphene #2 (L8C)

R.T.	Response	Conc
14.78	193784941	138.63
15.06	85286547	109.99
15.17	177772552	115.83
16.45	182541318	123.18
16.68	202598619	164.14

(+) = Expected Retention Time

00534

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:27 am
Operator : M.PEDRO
Sample : tox ml
Misc : initial cal
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:30:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	842.3E6	3371.8E6	45.651	57.366 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		45.65%	57.37%
25) S SURR2,Decachloro	17.61	17.86	721.8E6	2303.7E6	42.185	53.447 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		42.19%	53.45%
Target Compounds						
26) L8C Toxaphene	14.80	14.78	97648280	476.5E6	226.641	340.867 #
27) L8C Toxaphene{2}	14.89	15.06	94346720	223.9E6	237.592	288.764
28) L8C Toxaphene{3}	15.50	15.17	163.5E6	462.3E6	240.186	301.235 #
29) L8C Toxaphene{4}	16.35	16.45	200.1E6	474.6E6	216.503	320.238 #
30) L8C Toxaphene{5}	16.54	16.68	161.6E6	554.2E6	276.206	448.989 #
Sum Toxaphene			717.2E6	2191.5E6	1197.128	1700.093
Average Toxaphene					239.426	340.019
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

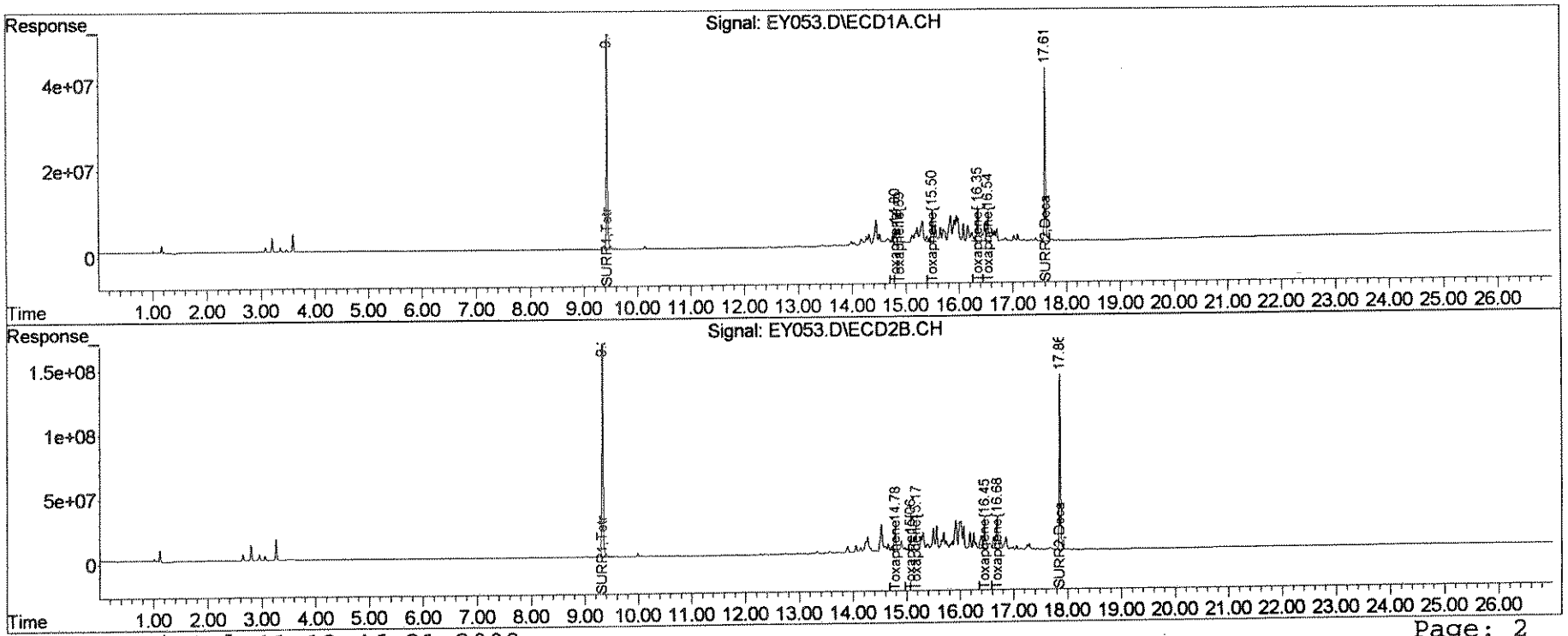
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Revi[illegible]d)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 2:27 am
Operator : M.PEDRO
Sample : tox ml
Misc : initial cal
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:30:20 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:03 am
Operator : M.PEDRO
Sample : tox m
Misc : initial cal
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:30:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	1264.2E6	4919.8E6	68.517	83.703
Spiked Amount 100.000	Range 30 - 150		Recovery =		68.52%	83.70% #
25) S SURR2,Decachloro	17.61	17.86	1083.2E6	3430.6E6	63.305	79.592 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		63.31%	79.59%
Target Compounds						
26) L8C Toxaphene	14.80	14.78	193.4E6	903.7E6	448.900	646.487 #
27) L8C Toxaphene{2}	14.89	15.06	156.8E6	427.5E6	394.754	551.305 #
28) L8C Toxaphene{3}	15.50	15.17	319.8E6	881.3E6	469.812	574.244
29) L8C Toxaphene{4}	16.35	16.45	388.7E6	904.9E6	420.536	610.608 #
30) L8C Toxaphene{5}	16.54	16.68	317.4E6	1072.1E6	542.332	868.541 #
Sum Toxaphene			1376.0E6	4189.4E6	2276.334	3251.185
Average Toxaphene					455.267	650.237
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

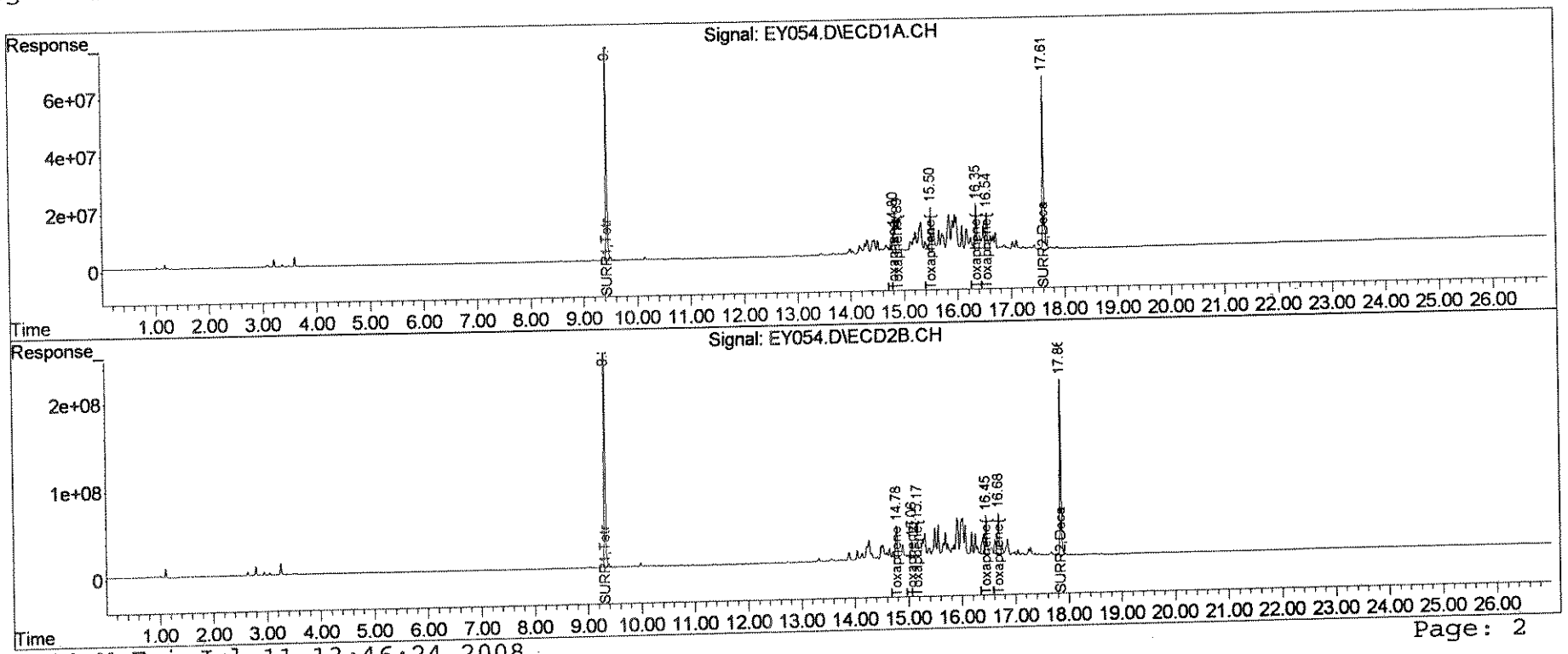
00537

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:03 am
Operator : M.PEDRO
Sample : tox m
Misc : initial cal
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:30:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



80810710.M Fri Jul 11 13:46:24 2008

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:38 am
Operator : M.PEDRO
Sample : tox mh
Misc : initial cal
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.44	9.32	1706.9E6	6498.9E6	92.507	110.569	
Spiked Amount 100.000	Range 30 - 150		Recovery =		92.51%	110.57%	
25) S SURR2,Decachloro	17.61	17.86	1475.0E6	4619.1E6	86.204	107.165	
Spiked Amount 100.000	Range 30 - 150		Recovery =		86.20%	107.16%	
Target Compounds							
26) L8C Toxaphene	14.80	14.78	320.4E6	1493.0E6	743.593	1068.053	#
27) L8C Toxaphene{2}	14.89	15.06	289.8E6	705.3E6	729.833	909.615	
28) L8C Toxaphene{3}	15.50	15.17	544.1E6	1469.1E6	799.415	957.199	
29) L8C Toxaphene{4}	16.35	16.45	656.8E6	1520.8E6	710.669	1026.265	#
30) L8C Toxaphene{5}	16.54	16.68	542.8E6	1816.8E6	927.499	1471.888	#
Sum Toxaphene			2353.9E6	7005.0E6	3911.009	5433.020	
Average Toxaphene					782.202	1086.604	
Sum Chlordane			0	0	N.D.	N.D.	
Average Chlordane					0.000	0.000	

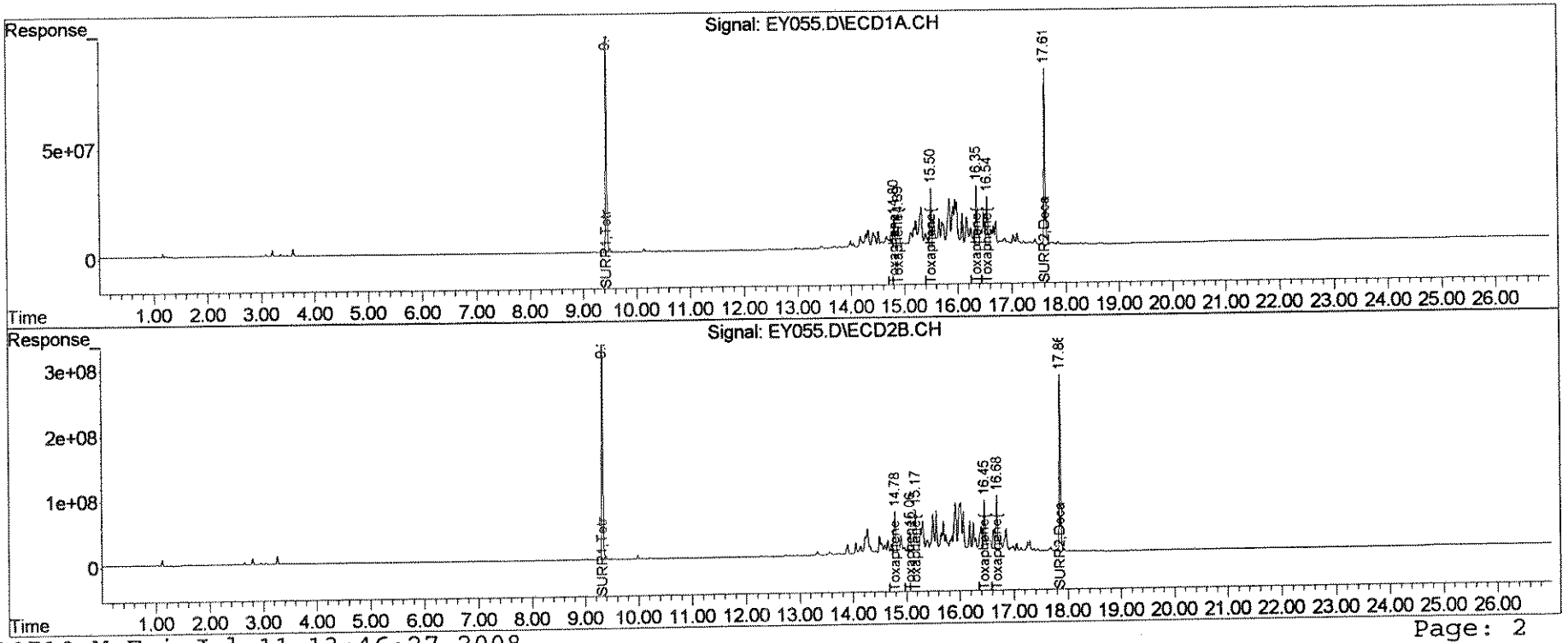
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 3:38 am
Operator : M.PEDRO
Sample : tox mh
Misc : initial cal
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:19 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY056.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 4:14 am
Operator : M.PEDRO
Sample : tox h
Misc : initial cal
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	2140.9E6	8008.4E6	116.031	136.250
Spiked Amount 100.000	Range 30 - 150		Recovery =		116.03%	136.25%
25) S SURR2,Decachloro	17.61	17.86	1866.9E6	5860.5E6	109.106	135.966
Spiked Amount 100.000	Range 30 - 150		Recovery =		109.11%	135.97%
Target Compounds						
26) L8C Toxaphene	14.80	14.78	443.4E6	2032.5E6	1029.229	1454.037 #
27) L8C Toxaphene{2}	14.89	15.06	369.7E6	966.8E6	930.998	1246.835 #
28) L8C Toxaphene{3}	15.50	15.17	746.0E6	1998.6E6	1095.947	1302.217
29) L8C Toxaphene{4}	16.35	16.45	902.2E6	2069.2E6	976.111	1396.316 #
30) L8C Toxaphene{5}	16.54	16.68	746.0E6	2472.7E6	1274.721	2003.280 #
Sum Toxaphene			3207.2E6	9539.8E6	5307.006	7402.686
Average Toxaphene					1061.401	1480.537
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

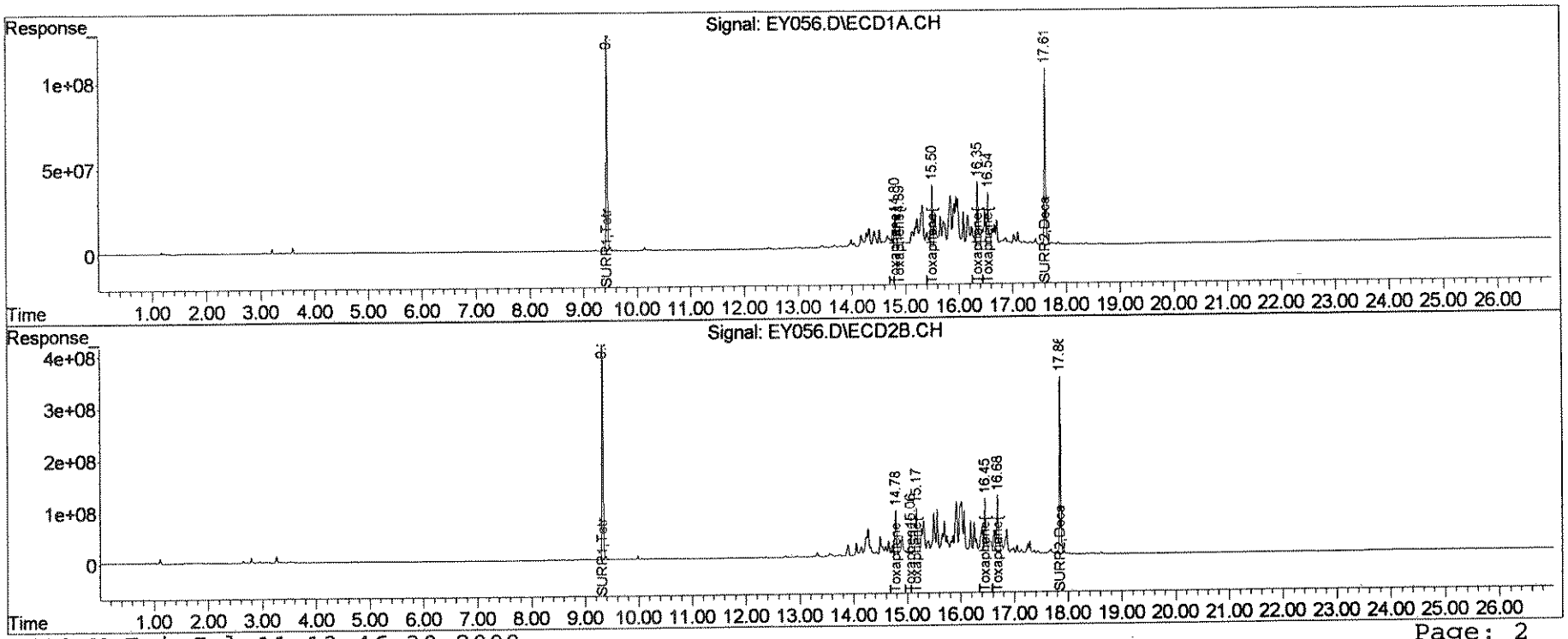
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY056.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 4:14 am
Operator : M.PEDRO
Sample : tox h
Misc : initial cal
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:31:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY057.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 4:49 am
Operator : M.PEDRO
Sample : chlor 1
Misc : initial cal
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:32:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	416.4E6	1689.2E6	22.567	28.740 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		22.57%#	28.74%#
25) S SURR2,Decachloro	17.61	17.86	379.3E6	1214.2E6	22.167	28.170 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		22.17%#	28.17%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.60	11.42	19799636	79985155	26.545	31.488
32) L9C Chlordane{2}	11.72	11.64	27122912	109.8E6	25.314	33.209 #
33) L9C Chlordane{3}	12.40	12.35	27280528	94374008	28.224	35.662 #
34) L9C Chlordane{4}	13.28	13.23	64201779	241.9E6	23.986	36.655 #
35) L9C Chlordane{5}	14.61	14.73	25322117	94015327	28.093	36.725 #
Sum Chlordane			163.7E6	620.0E6	132.161	173.739
Average Chlordane					26.432	34.748

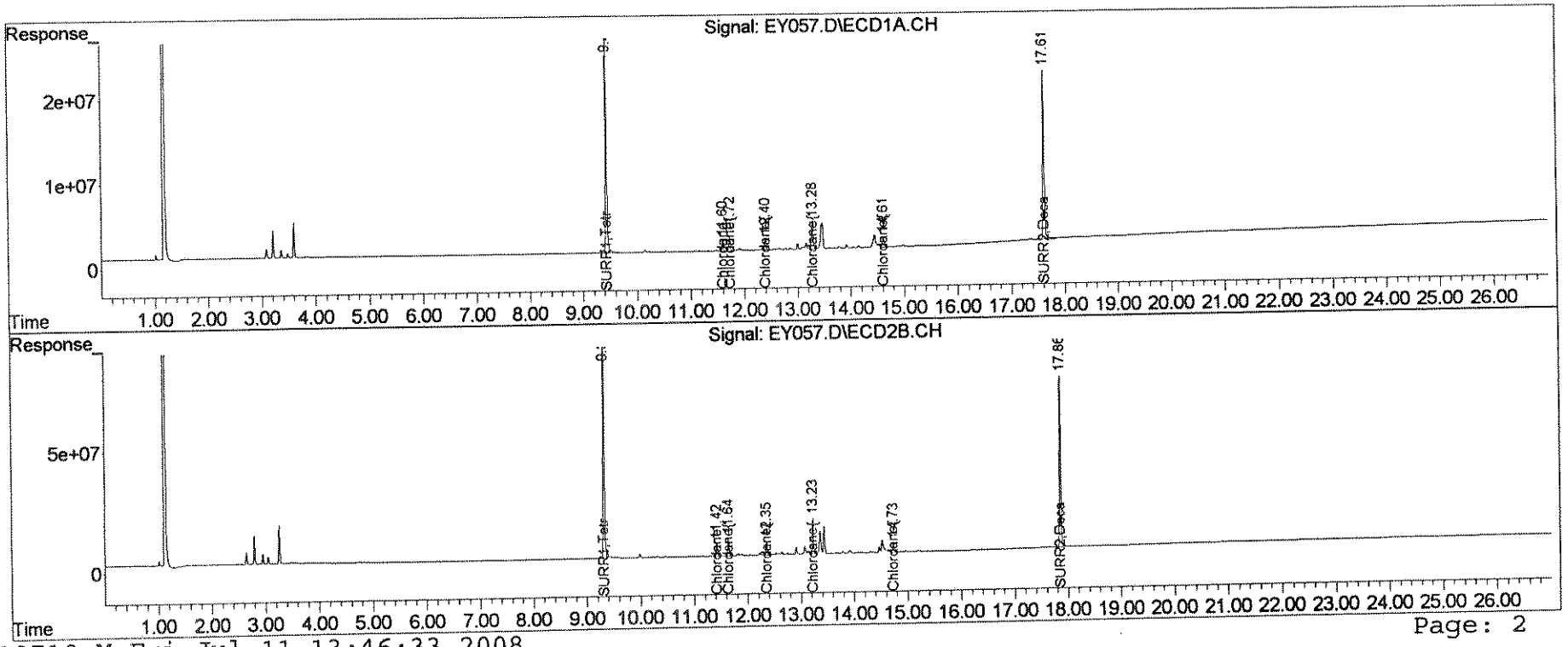
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY057.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 4:49 am
Operator : M.PEDRO
Sample : chlor 1
Misc : initial cal
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:32:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



80810710.M Fri Jul 11 13:46:33 2008

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 5:25 am
Operator : M.PEDRO
Sample : chlor ml
Misc : initial cal
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:32:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	808.6E6	3239.3E6	43.825	55.111 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		43.83%	55.11%
25) S SURR2,Decachloro	17.61	17.86	687.5E6	2311.4E6	40.181	53.625 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		40.18%	53.63%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.60	11.42	39061951	161.7E6	52.370	63.666
32) L9C Chlordane{2}	11.72	11.64	54692888	225.6E6	51.045	68.235 #
33) L9C Chlordane{3}	12.40	12.35	52450841	183.0E6	54.264	69.166 #
34) L9C Chlordane{4}	13.28	13.23	134.4E6	495.4E6	50.227	75.076 #
35) L9C Chlordane{5}	14.61	14.73	45606330	171.0E6	50.597	66.806 #
Sum Chlordane			326.3E6	1236.7E6	258.502	342.950
Average Chlordane					51.700	68.590

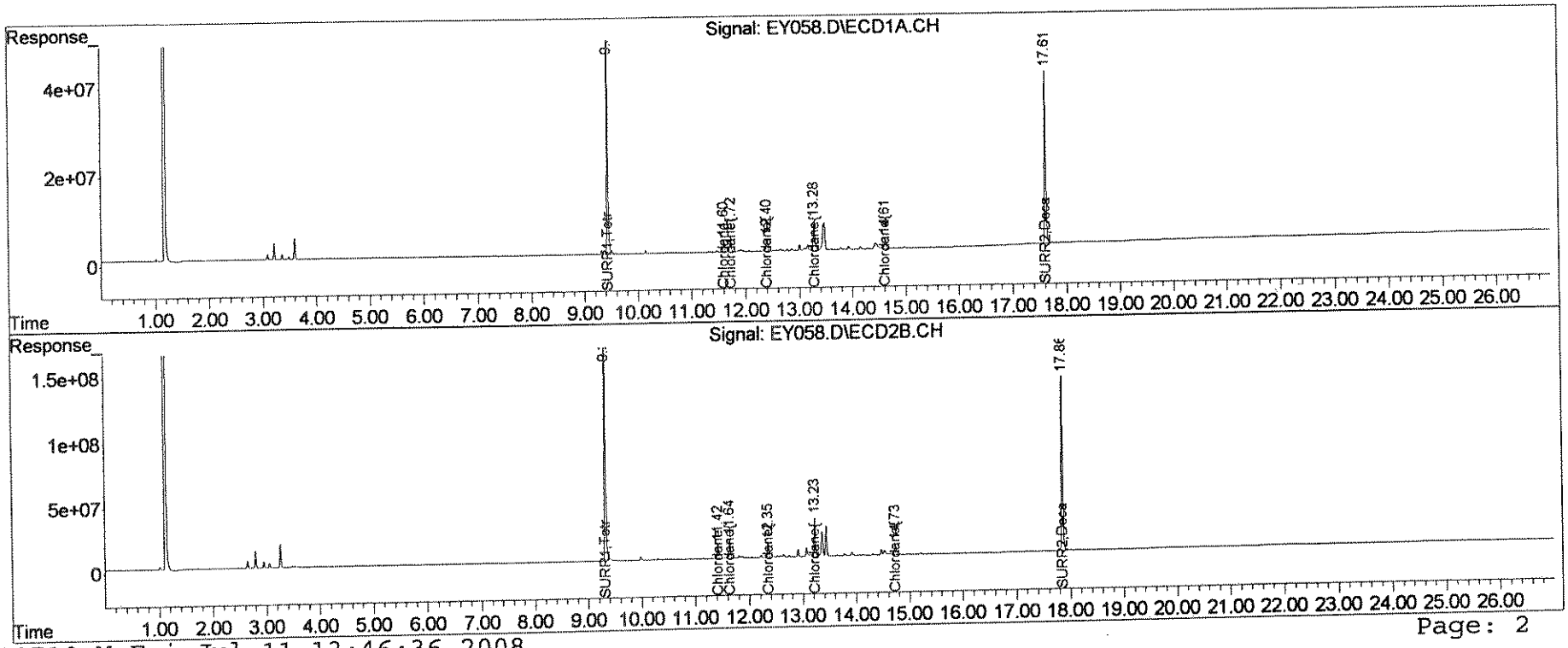
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 5:25 am
Operator : M.PEDRO
Sample : chlor ml
Misc : initial cal
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:32:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY059.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 6:00 am
Operator : M.PEDRO
Sample : chlor m
Misc : initial cal
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:33:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.44	9.32	1255.5E6	4842.2E6	68.045	82.383	
Spiked Amount 100.000	Range 30 - 150			Recovery =	68.05%	82.38%	
25) S SURR2,Decachloro	17.61	17.86	1060.9E6	3542.7E6	62.004	82.192	#
Spiked Amount 100.000	Range 30 - 150			Recovery =	62.00%	82.19%	
Target Compounds							
Sum Toxaphene			0	0	N.D.	N.D.	
Average Toxaphene					0.000	0.000	
31) L9C Chlordane	11.60	11.42	79025921	326.1E6	105.949	128.380	
32) L9C Chlordane{2}	11.72	11.64	112.6E6	459.4E6	105.083	138.964	#
33) L9C Chlordane{3}	12.40	12.35	102.7E6	360.9E6	106.293	136.385	#
34) L9C Chlordane{4}	13.28	13.23	278.1E6	1023.4E6	103.896	155.102	#
35) L9C Chlordane{5}	14.61	14.73	90282055	344.5E6	100.162	134.568	#
Sum Chlordane			662.7E6	2514.3E6	521.382	693.399	
Average Chlordane					104.276	138.680	

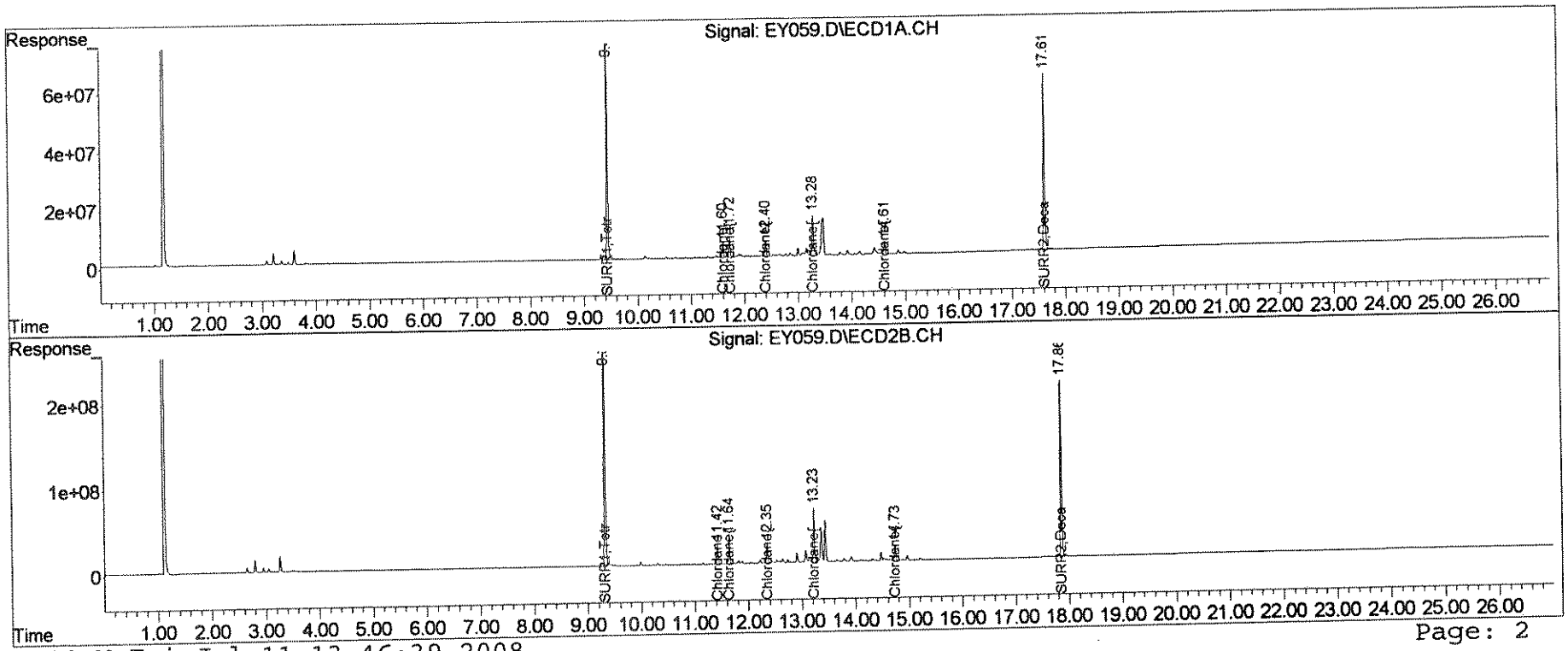
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY059.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 6:00 am
Operator : M.PEDRO
Sample : chlor m
Misc : initial cal
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:33:27 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 6:36 am
Operator : M.PEDRO
Sample : chlor mh
Misc : initial cal
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:33:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.44	9.32	1679.2E6	6361.7E6	91.006	108.235	
Spiked Amount 100.000	Range 30 - 150		Recovery =		91.01%	108.23%	
25) S SURR2,Decachloro	17.61	17.86	1405.6E6	4666.5E6	82.145	108.265	#
Spiked Amount 100.000	Range 30 - 150		Recovery =		82.14%	108.27%	
Target Compounds							
Sum Toxaphene			0	0	N.D.	N.D.	
Average Toxaphene					0.000	0.000	
31) L9C Chlordane	11.60	11.42	200.2E6	810.3E6	268.371	319.010	
32) L9C Chlordane{2}	11.72	11.64	287.4E6	1138.0E6	268.185	344.249	#
33) L9C Chlordane{3}	12.40	12.35	248.8E6	868.6E6	257.436	328.241	#
34) L9C Chlordane{4}	13.28	13.23	715.7E6	2550.7E6	267.376	386.561	#
35) L9C Chlordane{5}	14.61	14.73	227.1E6	870.8E6	251.929	340.150	#
Sum Chlordane			1679.1E6	6238.5E6	1313.297	1718.211	
Average Chlordane					262.659	343.642	

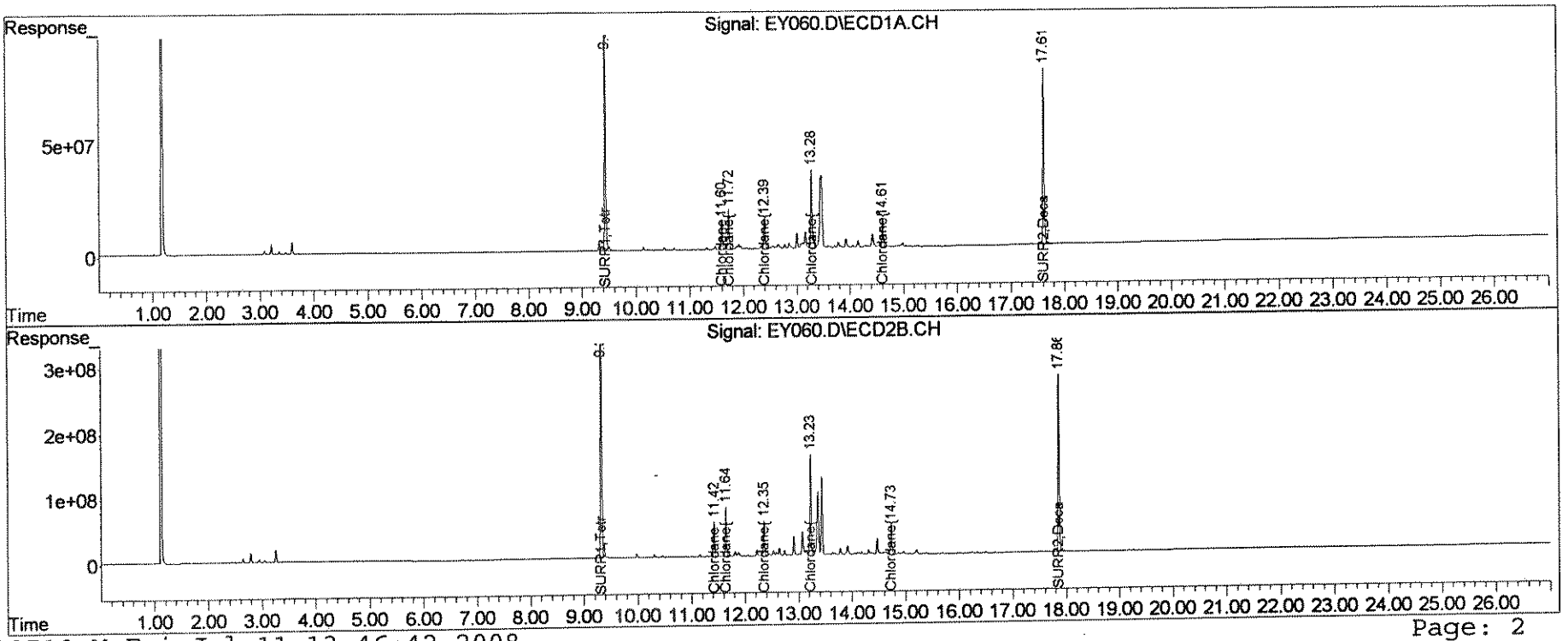
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 6:36 am
Operator : M.PEDRO
Sample : chlor mh
Misc : initial cal
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:33:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:11 am
Operator : M.PEDRO
Sample : chlor h
Misc : initial cal
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:34:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	2102.5E6	7853.3E6	113.948	133.611
Spiked Amount 100.000	Range 30 - 150		Recovery =		113.95%	133.61%
25) S SURR2,Decachloro	17.61	17.86	1768.4E6	5883.7E6	103.349	136.504 #
Spiked Amount 100.000	Range 30 - 150		Recovery =		103.35%	136.50%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
31) L9C Chlordane	11.60	11.42	411.1E6	1615.6E6	551.164	636.032
32) L9C Chlordane{2}	11.72	11.64	589.3E6	2224.2E6	549.986	672.790
33) L9C Chlordane{3}	12.40	12.35	497.6E6	1689.7E6	514.766	638.509
34) L9C Chlordane{4}	13.28	13.23	1466.3E6	5042.9E6	547.807	764.260 #
35) L9C Chlordane{5}	14.61	14.73	467.9E6	1764.1E6	519.076	689.096 #
Sum Chlordane			3432.1E6	12336.5E6	2682.799	3400.687
Average Chlordane					536.560	680.137

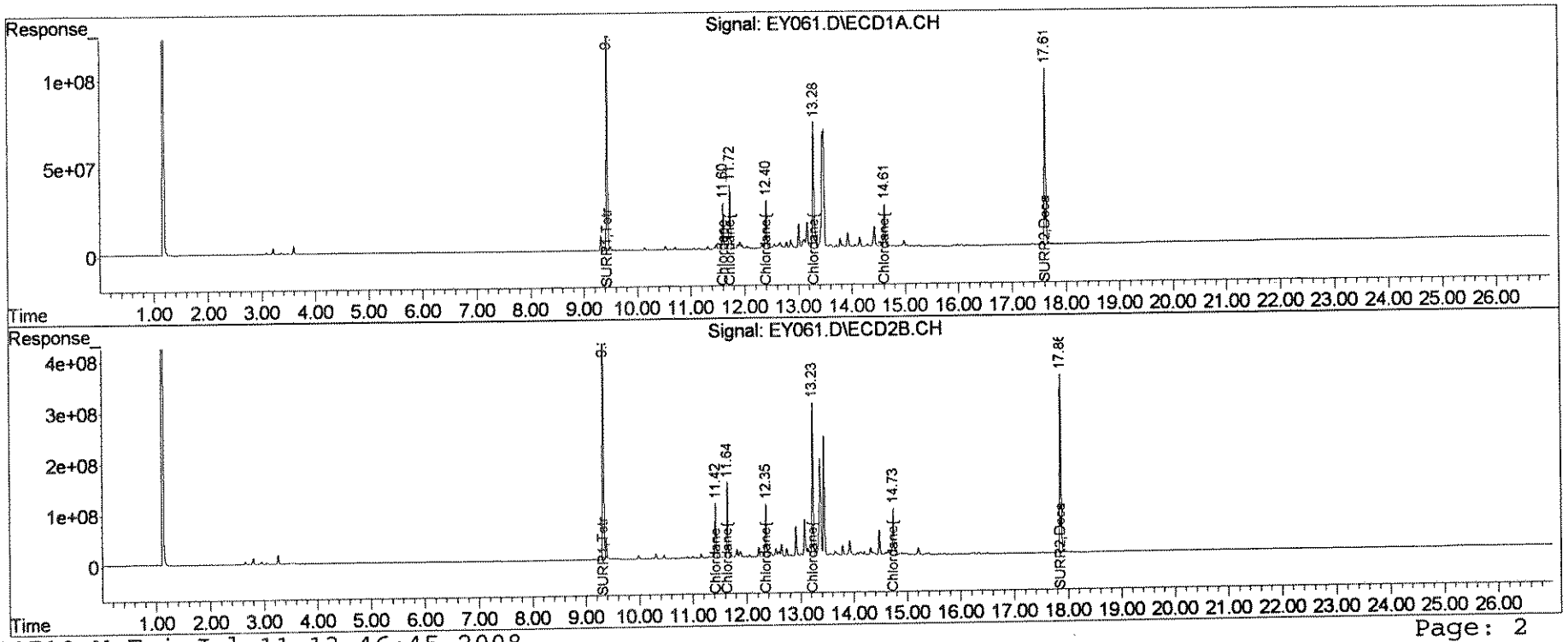
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : EY061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:11 am
Operator : M.PEDRO
Sample : chlor h
Misc : initial cal
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:34:29 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 10:59:43 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:16 am
Operator : M.PEDRO
Sample : kep/fam icv
Misc : initial cal
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:59:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
16 tc	KEPONE	7.316	9.121 E6	-24.7#	116	0.00
23 tc	FAMPHUR	13.568	14.423 E6	-6.3	104	0.00
Signal #2						
16 tc	KEPONE	22.994	29.181 E6	-26.9#	122	0.00
23 tc	FAMPHUR	41.783	41.969 E6	-0.4	100	0.00

Evaluate Continuing Calibration Report - Not Founds

1 S	SURR1,Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
3 tc	alpha-BHC	30.916	0.000 E6	100.0#	0#	-10.44#
4 tcm	gamma-BHC (L	28.206	0.000 E6	100.0#	0#	-10.97#
5 tcm	Heptachlor	27.944	0.000 E6	100.0#	0#	-11.73#
6 tcm	Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#
7 tc	beta-BHC	11.483	0.000 E6	100.0#	0#	-11.12#
8 TC	delta-BHC	27.198	0.000 E6	100.0#	0#	-11.40#
9 tc	Heptachlor E	22.762	0.000 E6	100.0#	0#	-13.10#
10 tc	alpha-Endosu	20.460	0.000 E6	100.0#	0#	-13.68#
11 tc	gamma-Chlord	21.924	0.000 E6	100.0#	0#	-13.28#
12 tc	alpha-Chlord	21.387	0.000 E6	100.0#	0#	-13.48#
13 tc	4,4'-DDE	21.781	0.000 E6	100.0#	0#	-13.58#
14 tcm	Dieldrin	22.843	0.000 E6	100.0#	0#	-14.03#
15 tcm	Endrin	20.719	0.000 E6	100.0#	0#	-14.38#
17 tc	beta-Endosul	18.589	0.000 E6	100.0#	0#	-14.72#
18 tc	4,4'-DDD	17.994	0.000 E6	100.0#	0#	-14.46#
19 tcm	4,4'-DDT	19.138	0.000 E6	100.0#	0#	-14.87#
20 tc	Endrin Aldeh	14.678	0.000 E6	100.0#	0#	-15.35#
21 tc	Endosulfan S	16.846	0.000 E6	100.0#	0#	-15.99#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:16 am
Operator : M.PEDRO
Sample : kep/fam icv
Misc : initial cal
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:59:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
.6) tc KEPONE	14.45	14.53	13681.8E6	43771.0E6	1870.182	1903.560
:3) tc FAMPHUR	16.26	15.66	4326.9E6	12590.6E6	318.894	301.331
Sum Toxaphene			0	0	N.D.	N.D.
\verage Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
\verage Chlordane					0.000	0.000

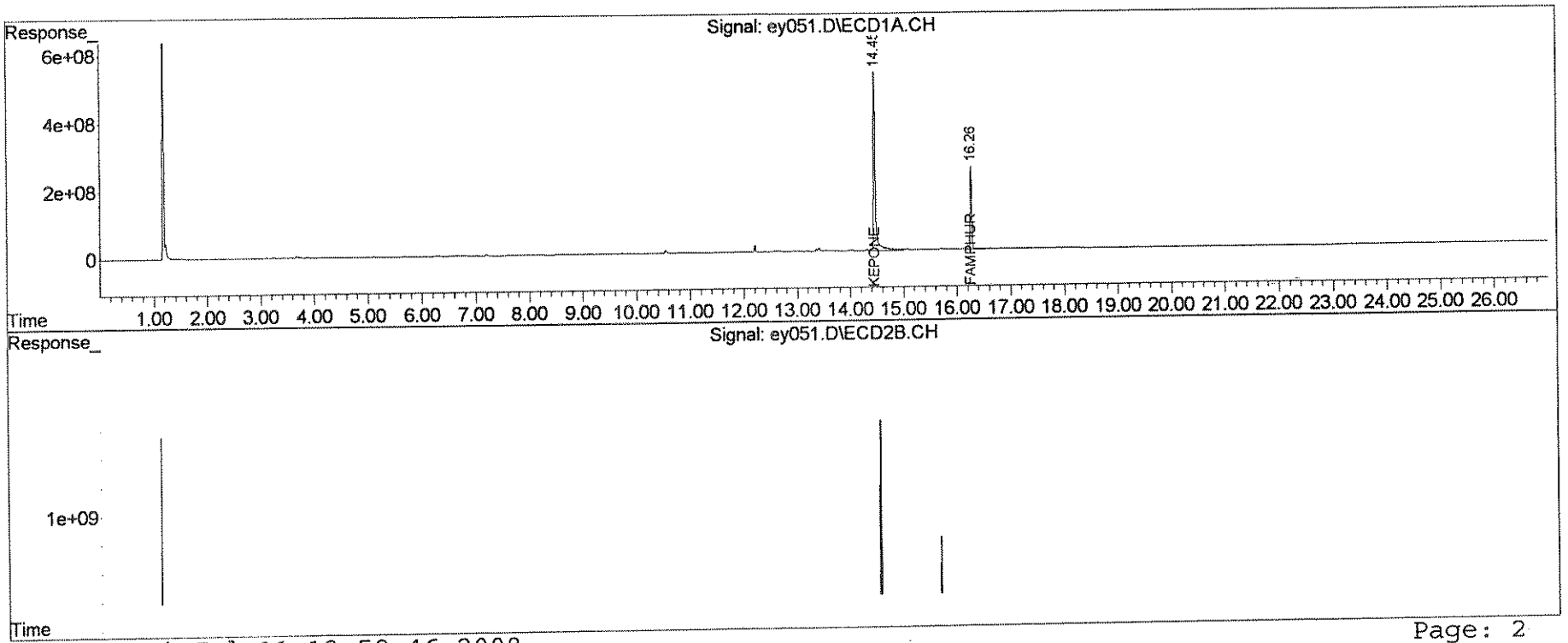
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 1:16 am
Operator : M.PEDRO
Sample : kep/fam icv
Misc : initial cal
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 13:59:25 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:47 am
Operator : M.PEDRO
Sample : pest icv
Misc : initial cal
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:00:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
3	tc alpha-BHC	30.916	30.355 E6	1.8	97	0.00
4	tcm gamma-BHC (L	28.206	28.307 E6	-0.4	99	0.00
5	tcm Heptachlor	27.944	27.557 E6	1.4	98	0.00
6	tcm Aldrin	24.759	24.655 E6	0.4	99	0.00
7	tc beta-BHC	11.483	11.154 E6	2.9	99	0.00
8	TC delta-BHC	27.198	27.170 E6	0.1	99	0.00
9	tc Heptachlor E	22.762	22.338 E6	1.9	98	0.00
10	tc alpha-Endosu	20.460	20.836 E6	-1.8	102	0.00
11	tc gamma-Chlord	21.924	22.312 E6	-1.8	102	0.00
12	tc alpha-Chlord	21.387	20.826 E6	2.6	98	0.00
13	tc 4,4'-DDE	21.781	21.296 E6	2.2	97	0.00
14	tcm Dieldrin	22.843	22.323 E6	2.3	96	0.00
15	tcm Endrin	20.719	20.006 E6	3.4	95	0.00
17	tc beta-Endosul	18.589	17.934 E6	3.5	96	0.00
18	tc 4,4'-DDD	17.994	18.204 E6	-1.2	103	0.00
19	tcm 4,4'-DDT	19.138	20.191 E6	-5.5	103	0.00
20	tc Endrin Aldeh	14.678	14.754 E6	-0.5	100	0.00
21	tc Endosulfan S	16.846	16.754 E6	0.5	100	0.00
22	tc Methoxychlor	9.313	9.354 E6	-0.4	99	0.00
24	tc Endrin Keton	19.363	19.624 E6	-1.3	101	0.00
	Signal #2					
3	tc alpha-BHC	118.675	124.742 E6	-5.1	103	0.00
4	tcm gamma-BHC (L	105.076	112.406 E6	-7.0	105	0.00
5	tcm Heptachlor	100.362	107.691 E6	-7.3	105	0.00
6	tcm Aldrin	91.095	95.996 E6	-5.4	103	0.00
7	tc beta-BHC	45.130	46.802 E6	-3.7	104	0.00
8	tc delta-BHC	103.241	107.314 E6	-3.9	102	0.00
9	tc Heptachlor E	80.396	83.886 E6	-4.3	103	0.00

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:47 am
Operator : M.PEDRO
Sample : pest icv
Misc : initial cal
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:00:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
10 tc	alpha-Endosu	70.973	77.062 E6	-8.6	106	0.00
11 tc	gamma-Chlord	82.026	88.038 E6	-7.3	107	0.00
12 tc	alpha-Chlord	77.670	79.953 E6	-2.9	102	0.00
13 tc	4,4'-DDE	76.653	81.318 E6	-6.1	104	0.00
14 tcm	Dieldrin	78.244	82.867 E6	-5.9	104	0.00
15 tcm	Endrin	67.355	70.925 E6	-5.3	101	0.00
17 tc	beta-Endosul	64.198	66.770 E6	-4.0	103	0.00
18 tc	4,4'-DDD	62.240	66.813 E6	-7.3	106	0.00
19 tcm	4,4'-DDT	65.507	73.501 E6	-12.2	110	0.00
20 tc	Endrin Aldeh	49.048	52.288 E6	-6.6	105	0.00
21 tc	Endosulfan S	57.148	60.068 E6	-5.1	104	0.00
22 tc	Methoxychlor	29.053	31.243 E6	-7.5	106	0.00
24 tc	Endrin Keton	62.732	67.113 E6	-7.0	105	0.00

Evaluate Continuing Calibration Report - Not Founds

1 S	SURR1,Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2 TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
16 tc	KEPONE	7.316	0.000 E6	100.0#	0#	-14.44#
23 tc	FAMPHUR	13.568	0.000 E6	100.0#	0#	-16.26#
25 S	SURR2,Decachlorobiphenyl	17.465	0.000 E6	100.0#	0#	-17.62#
26 L8C	Toxaphene	398.866	0.000 E3	100.0#	0#	-14.80#
27 L8C	Toxaphene{2}	355.770	0.000 E3	100.0#	0#	-14.89#
28 L8C	Toxaphene{3}	673.043	0.000 E3	100.0#	0#	-15.50#
29 L8C	Toxaphene{4}	818.490	0.000 E3	100.0#	0#	-16.35#
30 L8C	Toxaphene{5}	665.615	0.000 E3	100.0#	0#	-16.54#
31 L9C	Chlordane	797.278	0.000 E3	100.0#	0#	-11.60#
32 L9C	Chlordane{2}	1.127	0.000 E6	100.0#	0#	-11.72#
33 L9C	Chlordane{3}	1031.623	0.000 E3	100.0#	0#	-12.40#
34 L9C	Chlordane{4}	2.767	0.000 E6	100.0#	0#	-13.28#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:47 am
Operator : M.PEDRO
Sample : pest icv
Misc : initial cal
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:00:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
3) tc alpha-BHC	10.44	10.40	607.1E6	2494.8E6	19.637	21.023
4) tcm gamma-BHC (L	10.97	10.97	566.1E6	2248.1E6	20.072	21.395
5) tcm Heptachlor	11.72	11.64	551.1E6	2153.8E6	19.723	21.460
6) tcm Aldrin	12.18	12.12	493.1E6	1919.9E6	19.916	21.076
7) tc beta-BHC	11.12	11.12	223.1E6	936.0E6	19.427	20.741
8) tc delta-BHC	11.40	11.56	543.4E6	2146.3E6	19.979	20.789
9) tc Heptachlor E	13.10	12.96	446.8E6	1677.7E6	19.628	20.868
10) tc alpha-Endosu	13.68	13.52	416.7E6	1541.2E6	20.367	21.716
11) tc gamma-Chlord	13.28	13.23	446.2E6	1760.8E6	20.354	21.466
12) tc alpha-Chlord	13.48	13.44	416.5E6	1599.1E6	19.475	20.588
13) tc 4,4'-DDE	13.58	13.68	851.9E6	3252.7E6	39.110	42.434
14) tcm Dieldrin	14.03	13.91	892.9E6	3314.7E6	39.090	42.363
15) tcm Endrin	14.38	14.35	800.2E6	2837.0E6	38.624	42.120
17) tc beta-Endosul	14.72	14.66	717.4E6	2670.8E6	38.591	41.602
18) tc 4,4'-DDD	14.45	14.50	728.2E6	2672.5E6	40.468	42.939
19) tcm 4,4'-DDT	14.87	14.96	807.7E6	2940.0E6	42.203	44.881
20) tc Endrin Aldeh	15.35	15.16	590.2E6	2091.5E6	40.208	42.643
21) tc Endosulfan S	15.99	15.57	670.2E6	2402.7E6	39.781	42.044
22) tc Methoxychlor	15.56	15.93	1870.7E6	6248.5E6	200.875	215.071
24) tc Endrin Keton	16.38	16.32	784.9E6	2684.5E6	40.538	42.794
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

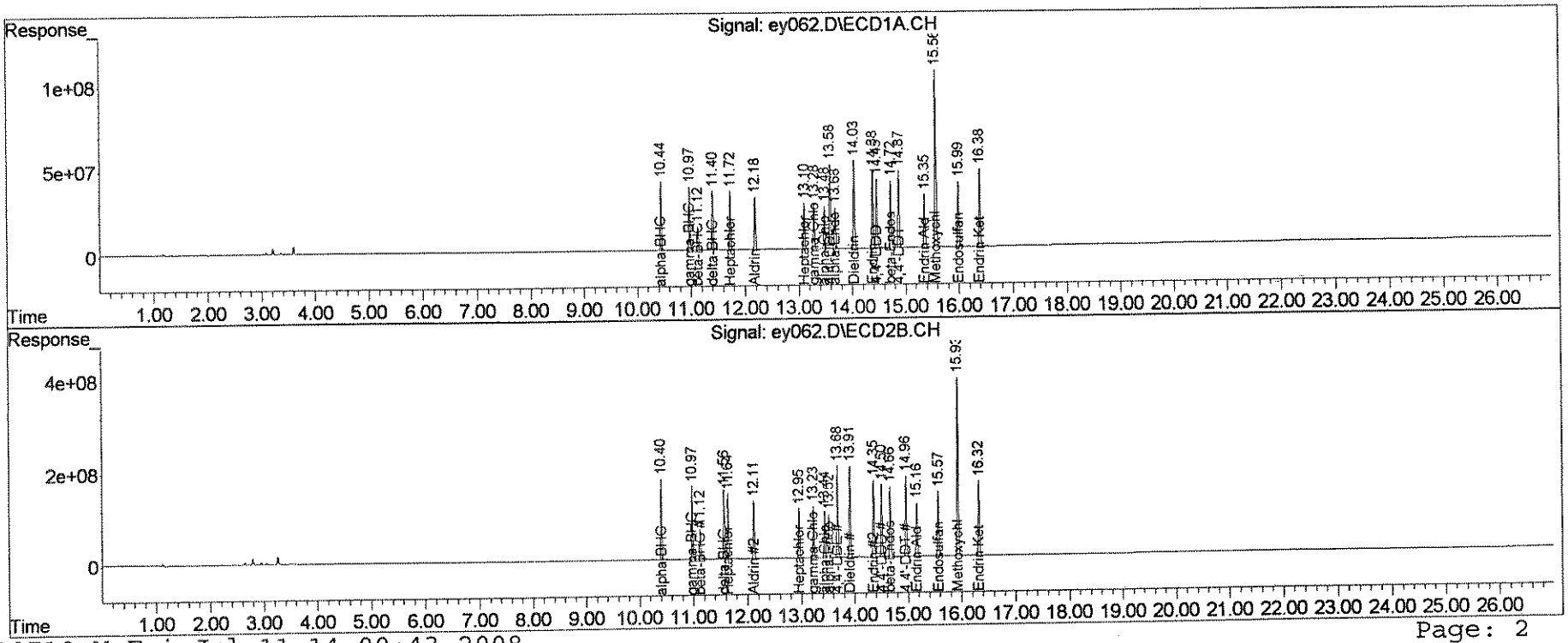
00558

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 7:47 am
Operator : M.PEDRO
Sample : pest icv
Misc : initial cal
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:00:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:22 am
Operator : M.PEDRO
Sample : tox icv
Misc : initial cal
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
26	L8C Toxaphene	398.866	412.850 E3	-3.5	107	0.00
27	L8C Toxaphene{2}	355.770	335.533 E3	5.7	107	0.00
28	L8C Toxaphene{3}	673.043	686.981 E3	-2.1	107	0.00
29	L8C Toxaphene{4}	818.490	777.889 E3	5.0	100	0.00
30	L8C Toxaphene{5}	665.615	682.023 E3	-2.5	107	0.00
	Signal #2					
26	L8C Toxaphene	1.935	2.036 E6	-5.2	113	0.00
27	L8C Toxaphene{2}	902.165	969.151 E3	-7.4	113	0.00
28	L8C Toxaphene{3}	1.869	1.996 E6	-6.8	113	0.00
29	L8C Toxaphene{4}	1.926	2.059 E6	-6.9	114	0.00
30	L8C Toxaphene{5}	2.256	2.438 E6	-8.1	114	0.00

Evaluate Continuing Calibration Report - Not Founds

1	S SURR1,Tetrac	20.181	0.000 E6	100.0#	0#	-9.44#
2	TC HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
3	tc alpha-BHC	30.916	0.000 E6	100.0#	0#	-10.44#
4	tcm gamma-BHC (L	28.206	0.000 E6	100.0#	0#	-10.97#
5	tcm Heptachlor	27.944	0.000 E6	100.0#	0#	-11.73#
6	tcm Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#
7	tc beta-BHC	11.483	0.000 E6	100.0#	0#	-11.12#
8	TC delta-BHC	27.198	0.000 E6	100.0#	0#	-11.40#
9	tc Heptachlor E	22.762	0.000 E6	100.0#	0#	-13.10#
10	tc alpha-Endosu	20.460	0.000 E6	100.0#	0#	-13.68#
11	tc gamma-Chlord	21.924	0.000 E6	100.0#	0#	-13.28#
12	tc alpha-Chlord	21.387	0.000 E6	100.0#	0#	-13.48#
13	tc 4,4'-DDE	21.781	0.000 E6	100.0#	0#	-13.58#
14	tcm Dieldrin	22.843	0.000 E6	100.0#	0#	-14.03#

00560

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:22 am
Operator : M.PEDRO
Sample : tox icv
Misc : initial cal
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
26) L8C Toxaphene	14.80	14.78	206.4E6	1018.2E6	517.530	526.264
27) L8C Toxaphene{2}	14.89	15.06	167.8E6	484.6E6	471.560	537.126
28) L8C Toxaphene{3}	15.50	15.17	343.5E6	997.8E6	510.355	533.783
29) L8C Toxaphene{4}	16.35	16.45	388.9E6	1029.5E6	475.198	534.495
30) L8C Toxaphene{5}	16.54	16.69	341.0E6	1218.9E6	512.325	540.206
Sum Toxaphene			1447.6E6	4749.1E6	2486.968	2671.874
Average Toxaphene					497.394	534.375
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

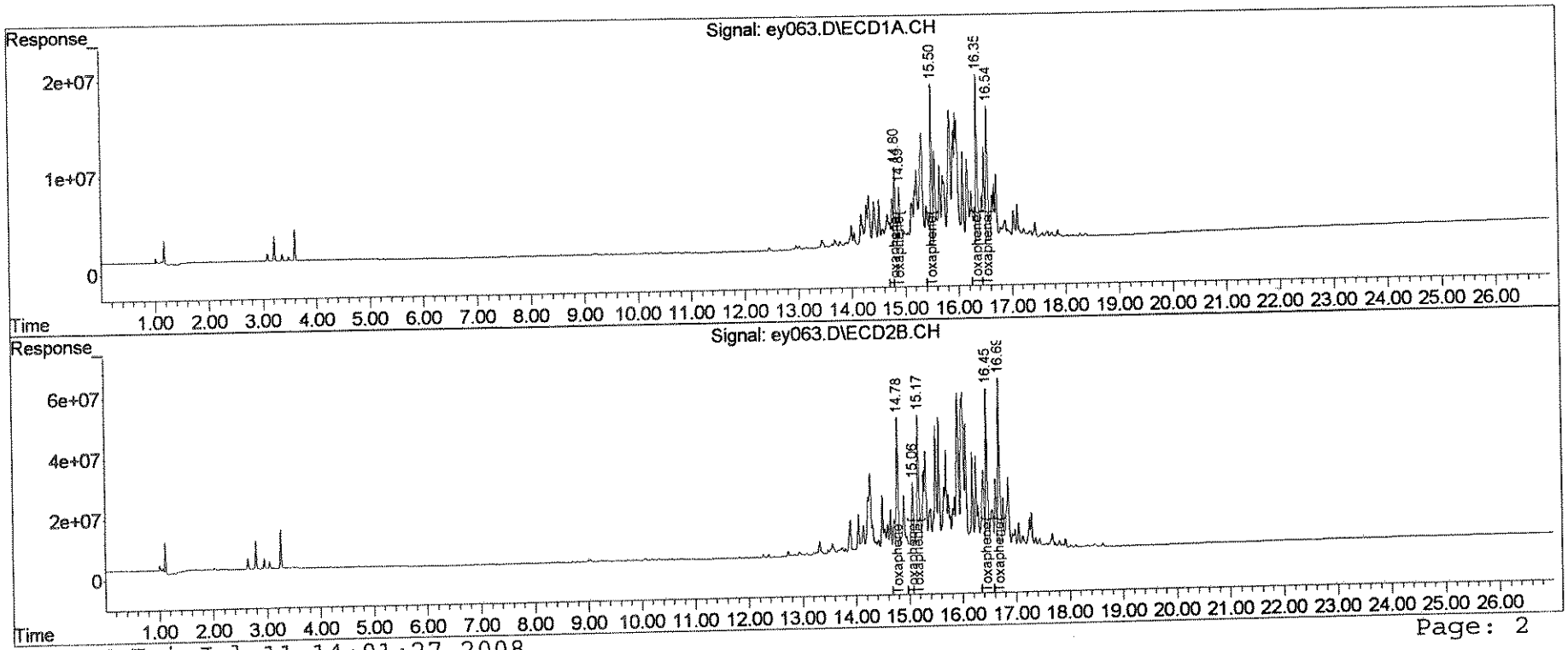
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:22 am
Operator : M.PEDRO
Sample : tox icv
Misc : initial cal
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:11 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:58 am
Operator : M.PEDRO
Sample : chlor icv
Misc : initial cal
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31 L9C Chlordane	797.278	820.303 E3	-2.9	104	0.00
32 L9C Chlordane{2}	1.127	1.172 E6	-4.0	104	0.00
33 L9C Chlordane{3}	1031.623	1067.503 E3	-3.5	104	0.00
34 L9C Chlordane{4}	2.767	2.904 E6	-5.0	104	0.00
35 L9C Chlordane{5}	934.381	931.627 E3	0.3	103	0.00
Signal #2					
31 L9C Chlordane	3.233	3.427 E6	-6.0	105	0.00
32 L9C Chlordane{2}	4.500	4.829 E6	-7.3	105	0.00
33 L9C Chlordane{3}	3.580	3.799 E6	-6.1	105	0.00
34 L9C Chlordane{4}	10.021	10.792 E6	-7.7	105	0.00
35 L9C Chlordane{5}	3.527	3.634 E6	-3.0	105	0.00

Evaluate Continuing Calibration Report - Not Founds

1	S	SURR1,Tetrac	20.181	0.000 E6	100.0#	0# -9.44#
2	TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0# -10.13#
3	tc	alpha-BHC	30.916	0.000 E6	100.0#	0# -10.44#
4	tcm	gamma-BHC (L	28.206	0.000 E6	100.0#	0# -10.97#
5	tcm	Heptachlor	27.944	0.000 E6	100.0#	0# -11.73#
6	tcm	Aldrin	24.759	0.000 E6	100.0#	0# -12.18#
7	tc	beta-BHC	11.483	0.000 E6	100.0#	0# -11.12#
8	TC	delta-BHC	27.198	0.000 E6	100.0#	0# -11.40#
9	tc	Heptachlor E	22.762	0.000 E6	100.0#	0# -13.10#
10	tc	alpha-Endosu	20.460	0.000 E6	100.0#	0# -13.68#
11	tc	gamma-Chlord	21.924	0.000 E6	100.0#	0# -13.28#
12	tc	alpha-Chlord	21.387	0.000 E6	100.0#	0# -13.48#
13	tc	4,4'-DDE	21.781	0.000 E6	100.0#	0# -13.58#
14	tcm	Dieldrin	22.843	0.000 E6	100.0#	0# -14.03#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:58 am
Operator : M.PEDRO
Sample : chlor icv
Misc : initial cal
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
1) L9C Chlordane	11.60	11.42	82030317	342.7E6	102.888	105.999
2) L9C Chlordane{2}	11.72	11.64	117.2E6	482.9E6	104.032	107.322
3) L9C Chlordane{3}	12.40	12.35	106.8E6	379.9E6	103.478	106.122
4) L9C Chlordane{4}	13.28	13.23	290.4E6	1079.2E6	104.970	107.694
5) L9C Chlordane{5}	14.61	14.73	93162722	363.4E6	99.705	103.010
Sum Chlordane			689.5E6	2648.1E6	515.073	530.147
Average Chlordane					103.015	106.029

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

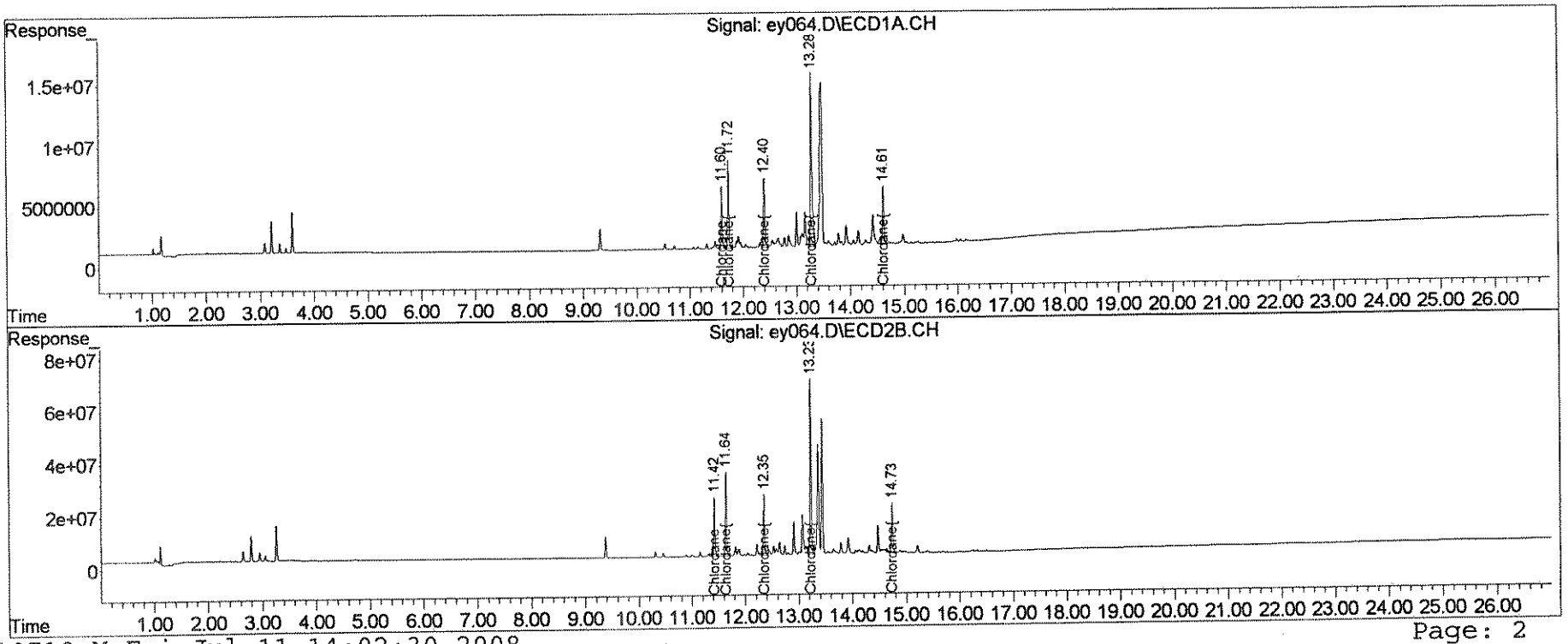
00564

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071008\
Data File : ey064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Jul 2008 8:58 am
Operator : M.PEDRO
Sample : chlor icv
Misc : initial cal
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 11 14:01:55 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services		Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:	
GC Column (1):	STX-CLP	ID: 0.32 (mm)		Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM			Date Analyzed:	07/17/2008
LAB Sample ID. (PEM):	PEM			Time Analyzed:	9:44
4,4'-DDT % Breakdown (1):	0.6%			Endrin % Breakdown (1):	12.0%
Combined % Breakdown (1):	12.6%				

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services		Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:	
GC Column (2):	STX-CLPII	ID: 0.32 (mm)		Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM			Date Analyzed:	07/17/2008
LAB Sample ID. (PEM):	PEM			Time Analyzed:	9:44
4,4'-DDT % Breakdown (1):	1.2%			Endrin % Breakdown (1):	11.9%
Combined % Breakdown (1):	13.1%				

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:56:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	364.8E6	1656.1E6	18.074	20.466
Spiked Amount 100.000	Range 30 - 150		Recovery =		18.07%#	20.47%#
25) S SURR2,Decachloro	17.61	17.85	382.3E6	1246.1E6	21.889	22.625
Spiked Amount 100.000	Range 30 - 150		Recovery =		21.89%#	22.63%#
Target Compounds						
3) tc alpha-BHC	10.44	10.39	266.6E6	1237.1E6	8.622	10.424
4) tcm gamma-BHC (L	10.97	10.97	246.4E6	1123.6E6	8.734	10.693
7) tc beta-BHC	11.13	11.12	118.5E6	500.5E6	10.323	11.091
13) tc 4,4'-DDE	13.59	13.68	12160463	70436106	0.558	0.919 #
15) tcm Endrin	14.38	14.34	906.3E6	3252.6E6	43.743	48.291
18) tc 4,4'-DDD	0.00	14.50	0	20615288	N.D.	0.331m#
19) tcm 4,4'-DDT	14.87	14.95	1991.4E6	7202.3E6	104.056	109.947
20) tc Endrin Aldeh	15.35	15.15	47359735	184.4E6	3.227m	3.759m
22) tc Methoxychlor	15.56	15.92	2412.7E6	8013.5E6	259.073	275.819
24) tc Endrin Keton	16.38	16.31	75738488	253.8E6	3.912	4.047m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

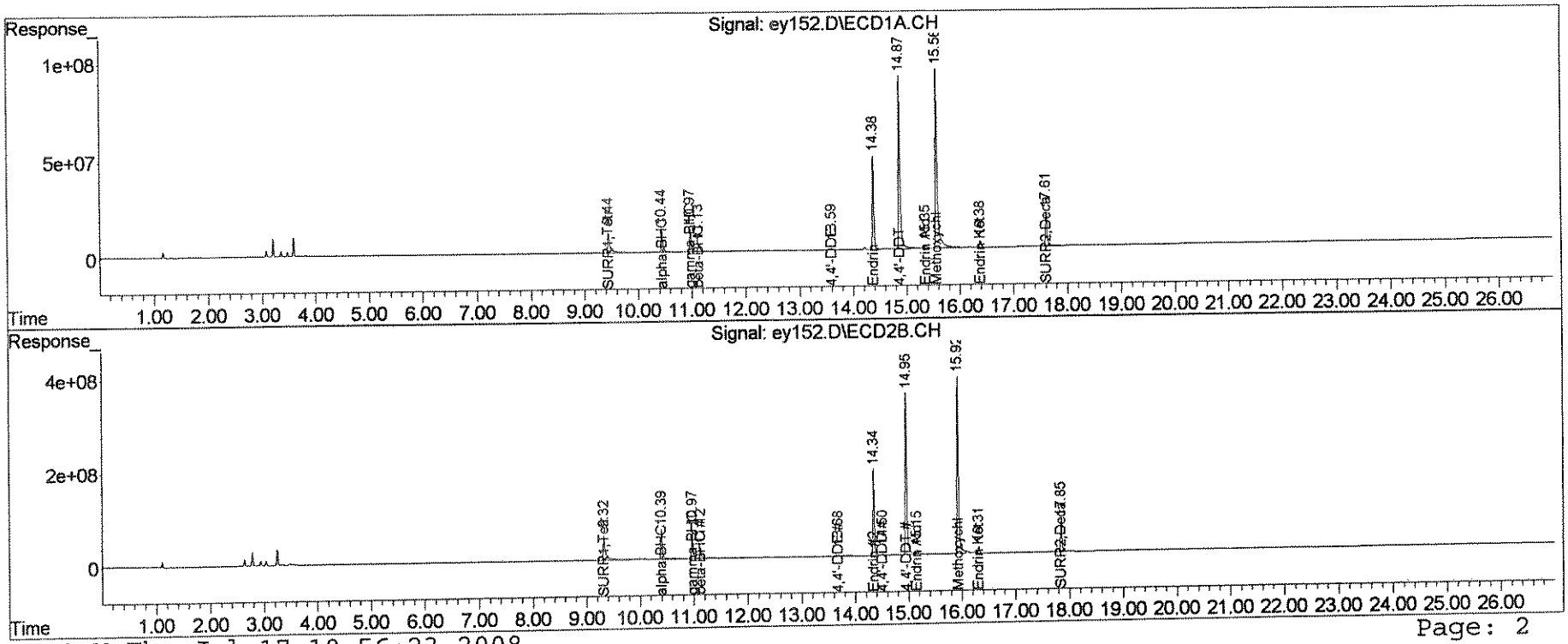
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:56:14 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

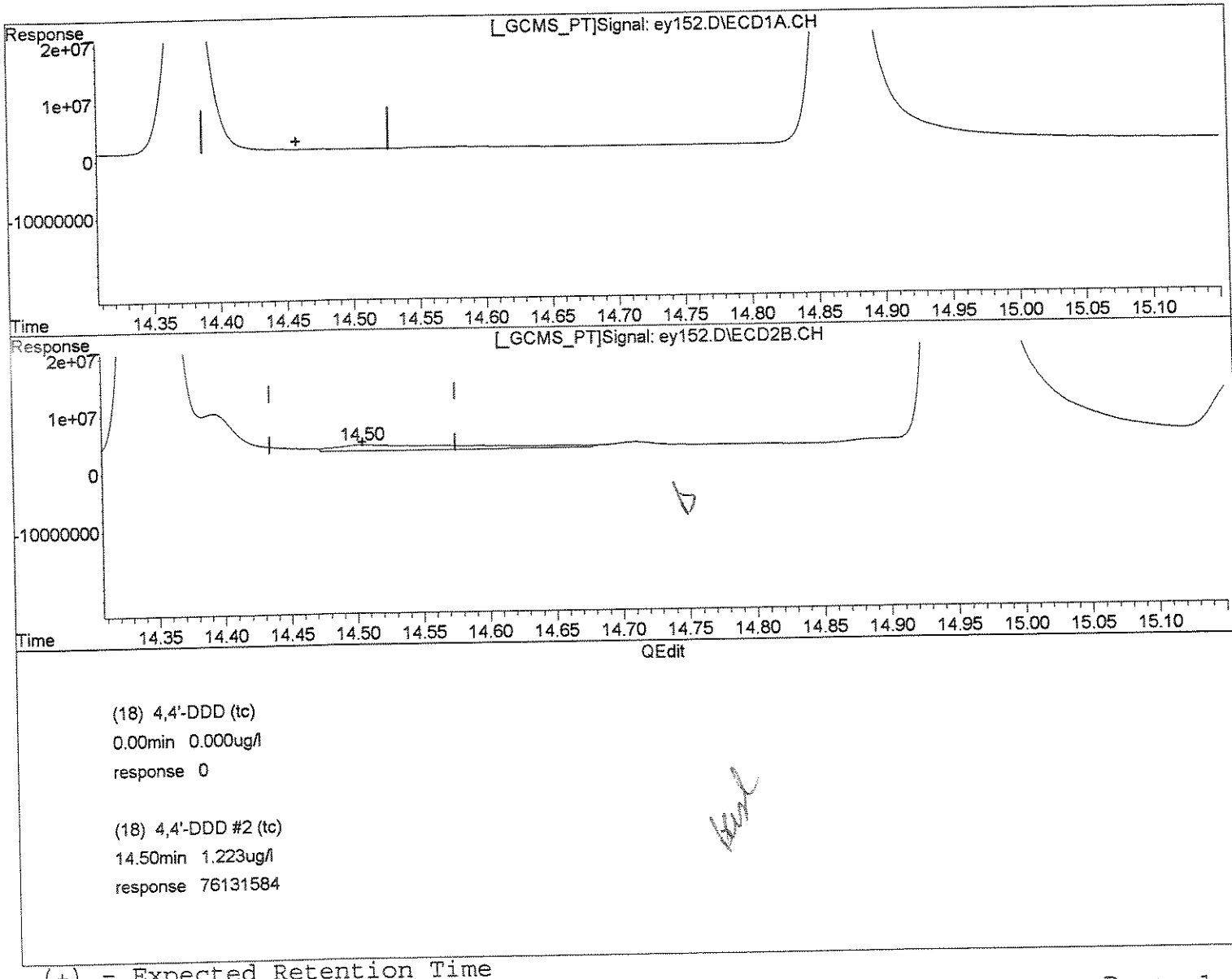


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.50min 1.223ug/l
response 76131584

(+) = Expected Retention Time

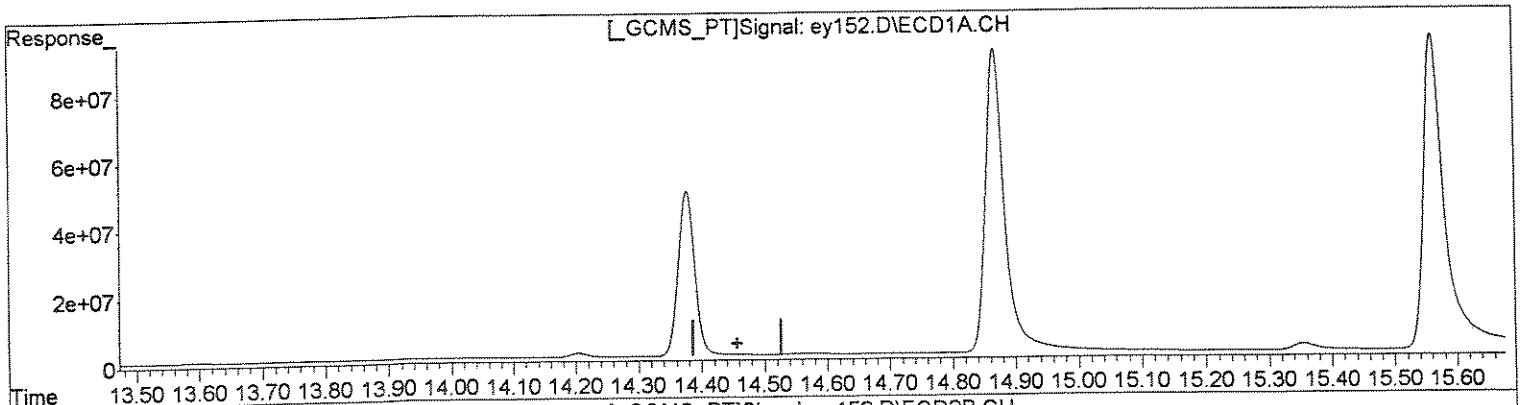
00570

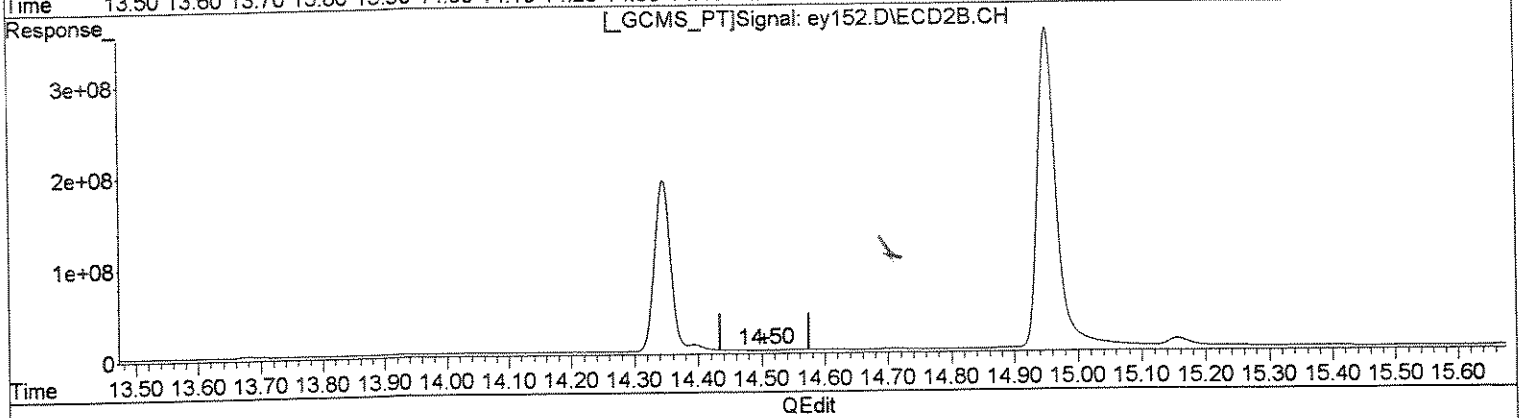
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(18) 4,4'-DDD (tc)
0.00min 0.000ug/l
response 0

(18) 4,4'-DDD #2 (tc)
14.50min 0.331ug/l m
response 20615288

(+) = Expected Retention Time

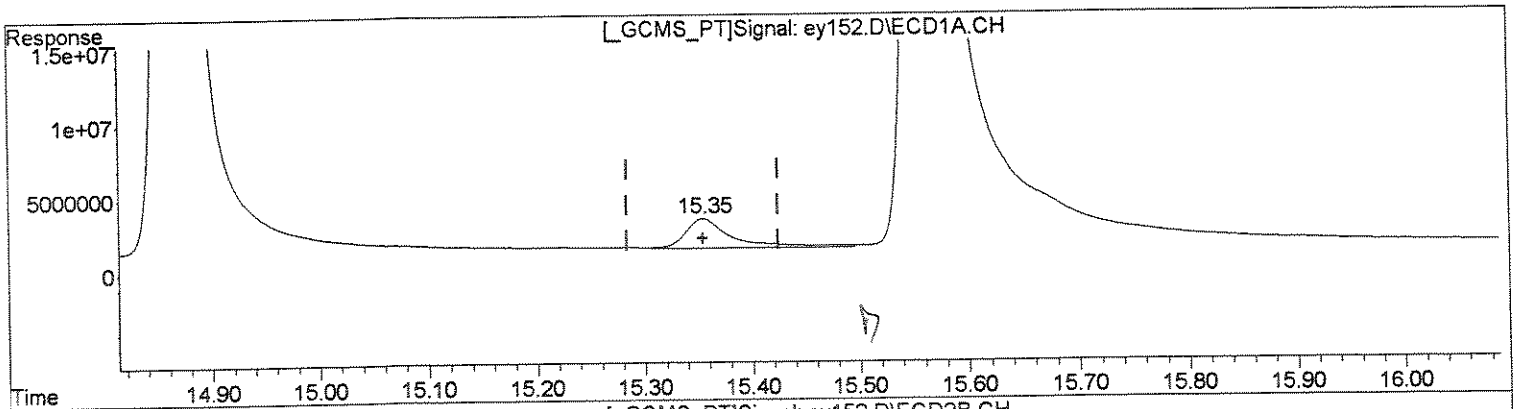
00571

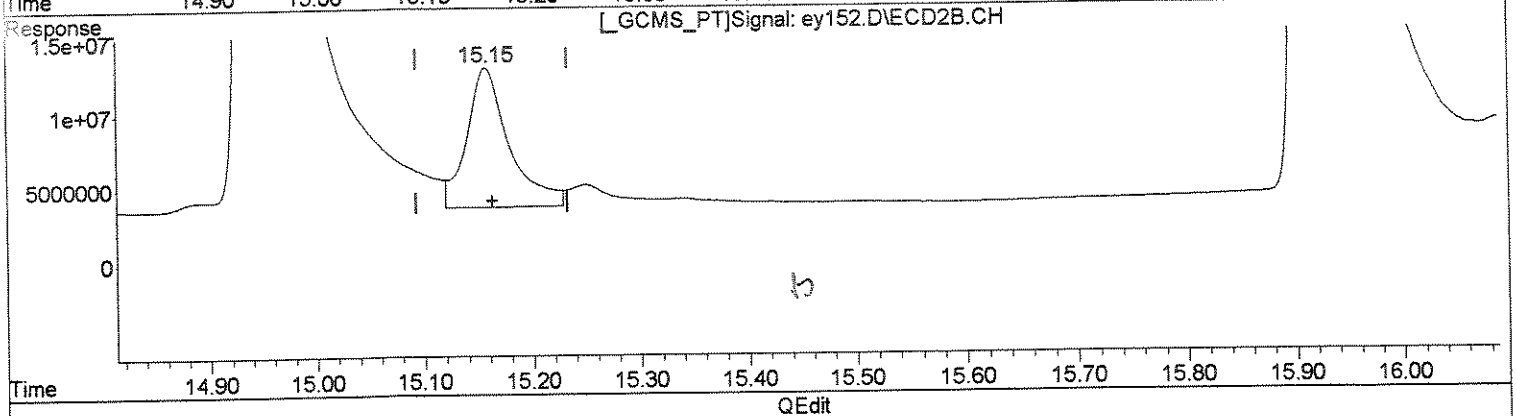
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(20) Endrin Aldeh (tc)
15.35min 4.176ug/l
response 61291116

(20) Endrin Aldeh #2 (tc)
15.16min 5.196ug/l
response 254857933

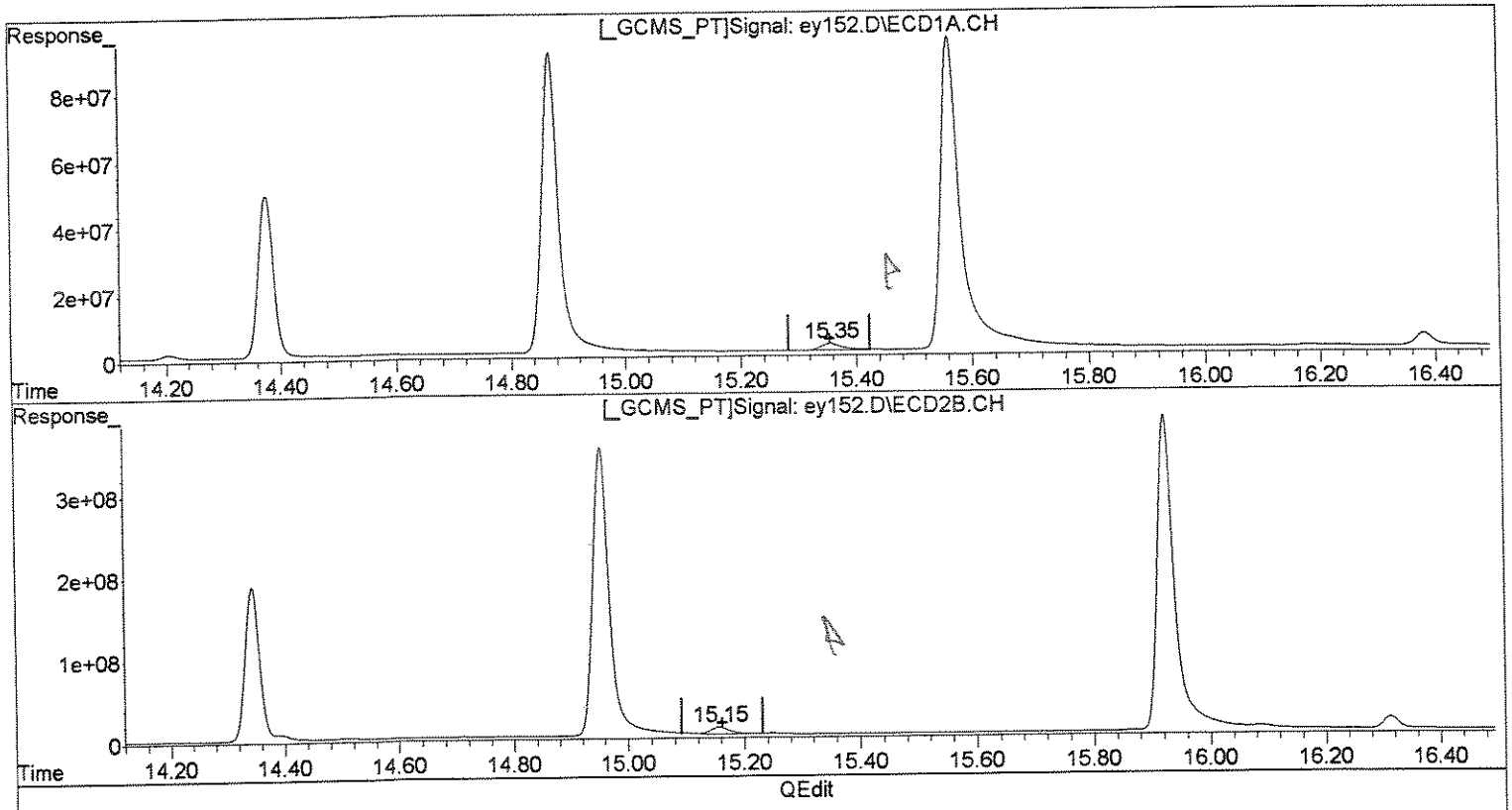
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)
15.35min 3.227ug/l m
response 47359735

(20) Endrin Aldeh #2 (tc)
15.15min 3.759ug/l m
response 184358403

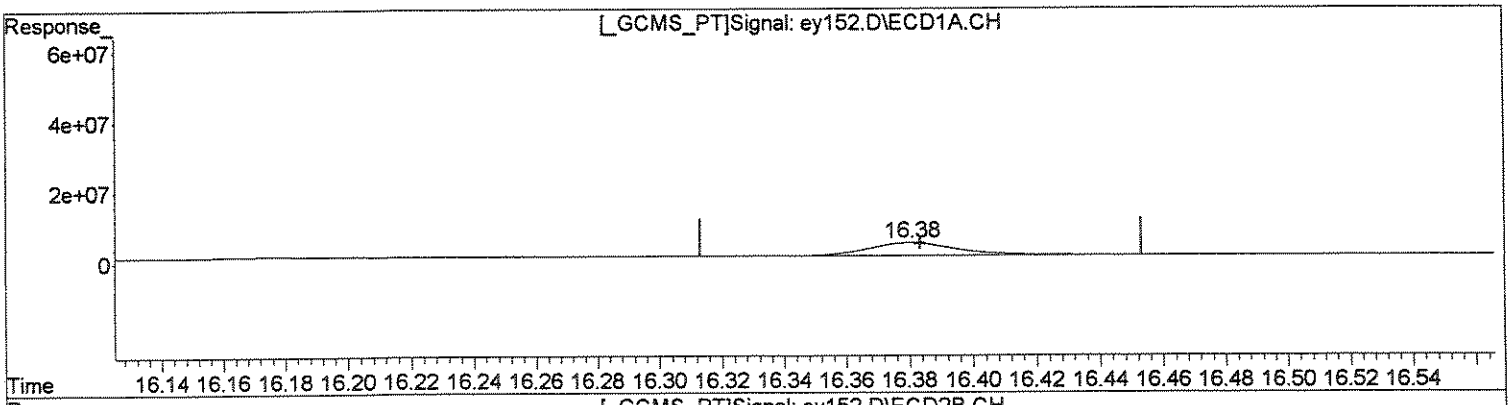
(+) = Expected Retention Time

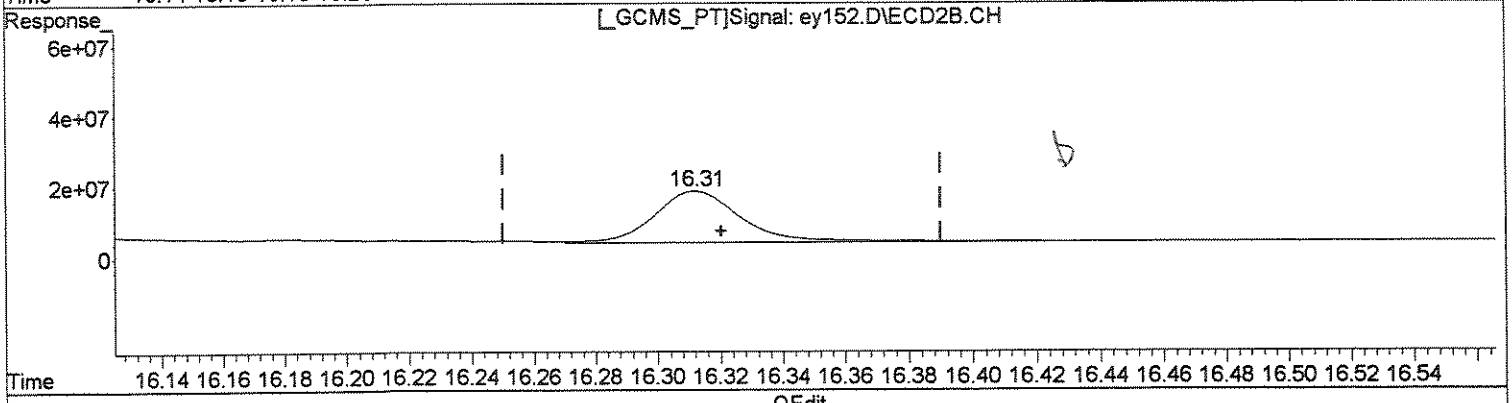
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(24) Endrin Keton (tc)
16.38min 3.912ug/l
response 75738488

(24) Endrin Keton #2 (tc)
16.31min 4.621ug/l
response 289881836

(+) = Expected Retention Time

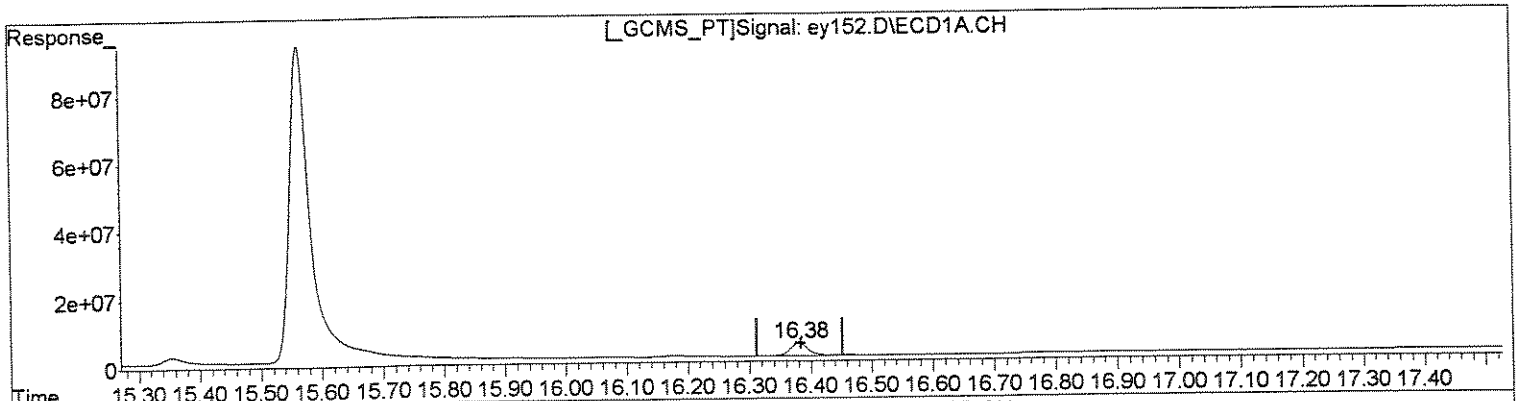
00574

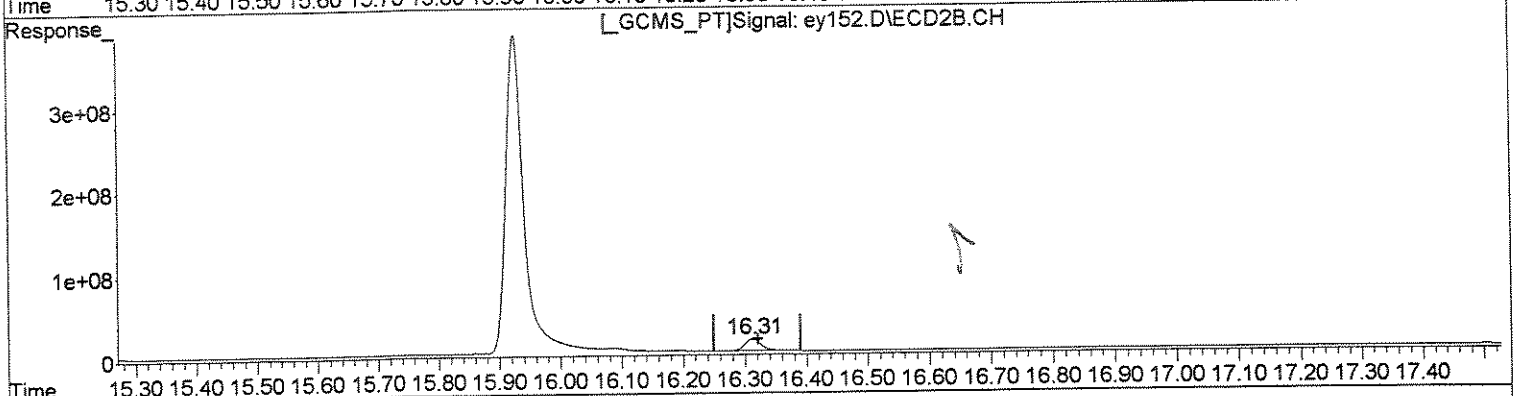
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:44 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:11:46 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(24) Endrin Keton (tc)
16.38min 3.912ug/l
response 75738488

(24) Endrin Keton #2 (tc)
16.31min 4.047ug/l m
response 253848685

(+) = Expected Retention Time

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services		Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:	
GC Column (1):	STX-CLP	ID: 0.32 (mm)		Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM			Date Analyzed:	07/21/2008
LAB Sample ID. (PEM):	PEM			Time Analyzed:	7:22
4,4'-DDT % Breakdown (1):	0.5%			Endrin % Breakdown (1):	2.3%
Combined % Breakdown (1):	2.8%				

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	Columbia Analytical Services		Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:	
GC Column (2):	STX-CLPII	ID: 0.32 (mm)		Initial Calibration Date(s):	07/10/2008
EPA Sample No. (PEM):	PEM			Date Analyzed:	07/21/2008
LAB Sample ID. (PEM):	PEM			Time Analyzed:	7:22
4,4'-DDT % Breakdown (1):	0.5%			Endrin % Breakdown (1):	2.9%
Combined % Breakdown (1):	3.3%				

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:38:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1)	S SURR1,Tetrac	9.44	9.31	431.0E6	1713.9E6	21.359	21.180m
	Spiked Amount 100.000	Range 30 - 150		Recovery =		21.36%#	21.18%#
25)	S SURR2,Decachloro	17.61	17.84	371.5E6	1285.9E6	21.272	23.349m
	Spiked Amount 100.000	Range 30 - 150		Recovery =		21.27%#	23.35%#
	Target Compounds						
3)	tc alpha-BHC	10.44	10.39	315.6E6	1200.6E6	10.208	10.116m
4)	tcm gamma-BHC (L	10.97	10.96	282.7E6	1002.2E6	10.024	9.537m
7)	tc beta-BHC	11.13	11.11	114.3E6	411.4E6	9.955m	9.117m
13)	tc 4,4'-DDE	13.58	13.66	11090423	34421816	0.509m	0.449m
15)	tcm Endrin	14.38	14.34	1024.5E6	3777.0E6	49.445	56.076m
19)	tcm 4,4'-DDT	14.87	14.94	2125.5E6	7205.4E6	111.063	109.995
20)	tc Endrin Aldeh	15.36	15.14	10968268	75851431	0.747	1.546m#
22)	tc Methoxychlor	15.56	15.92	2619.6E6	8558.1E6	281.297	294.567
24)	tc Endrin Keton	16.38	16.30	13165561	35112229	0.680m	0.560m
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

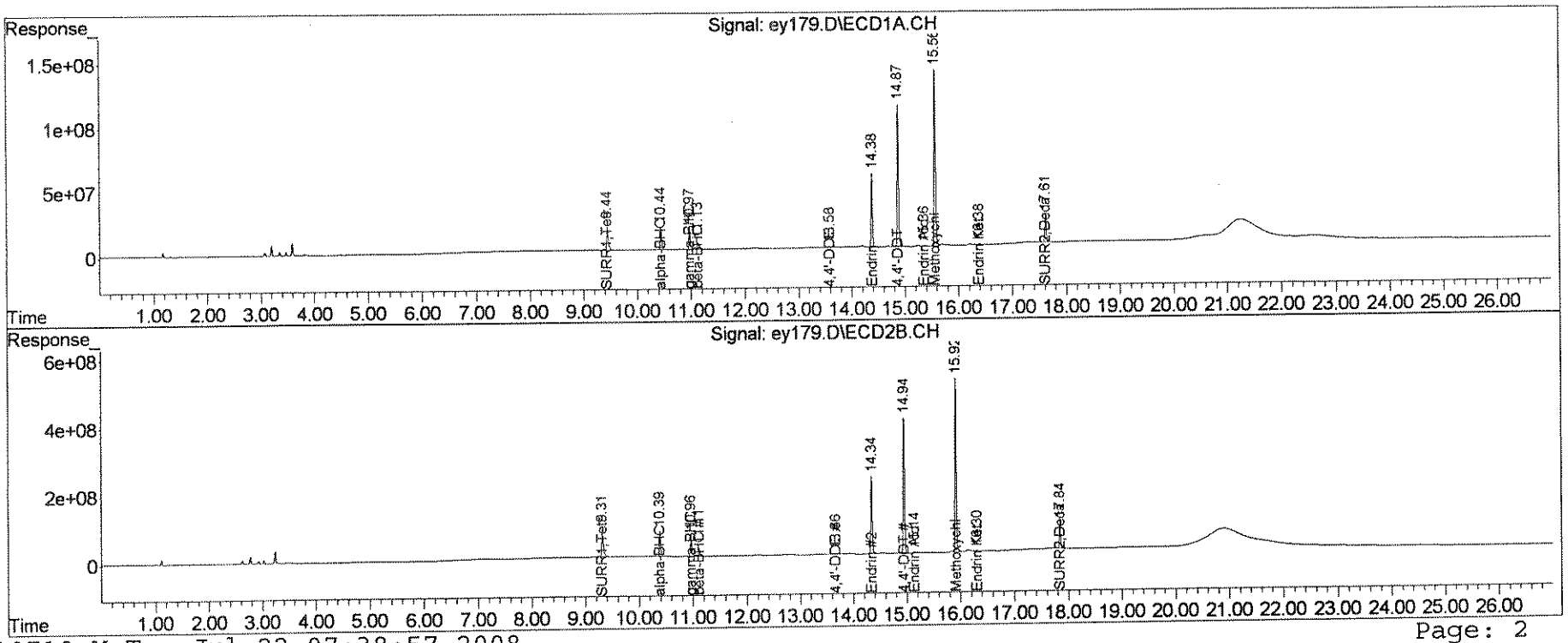
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:38:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

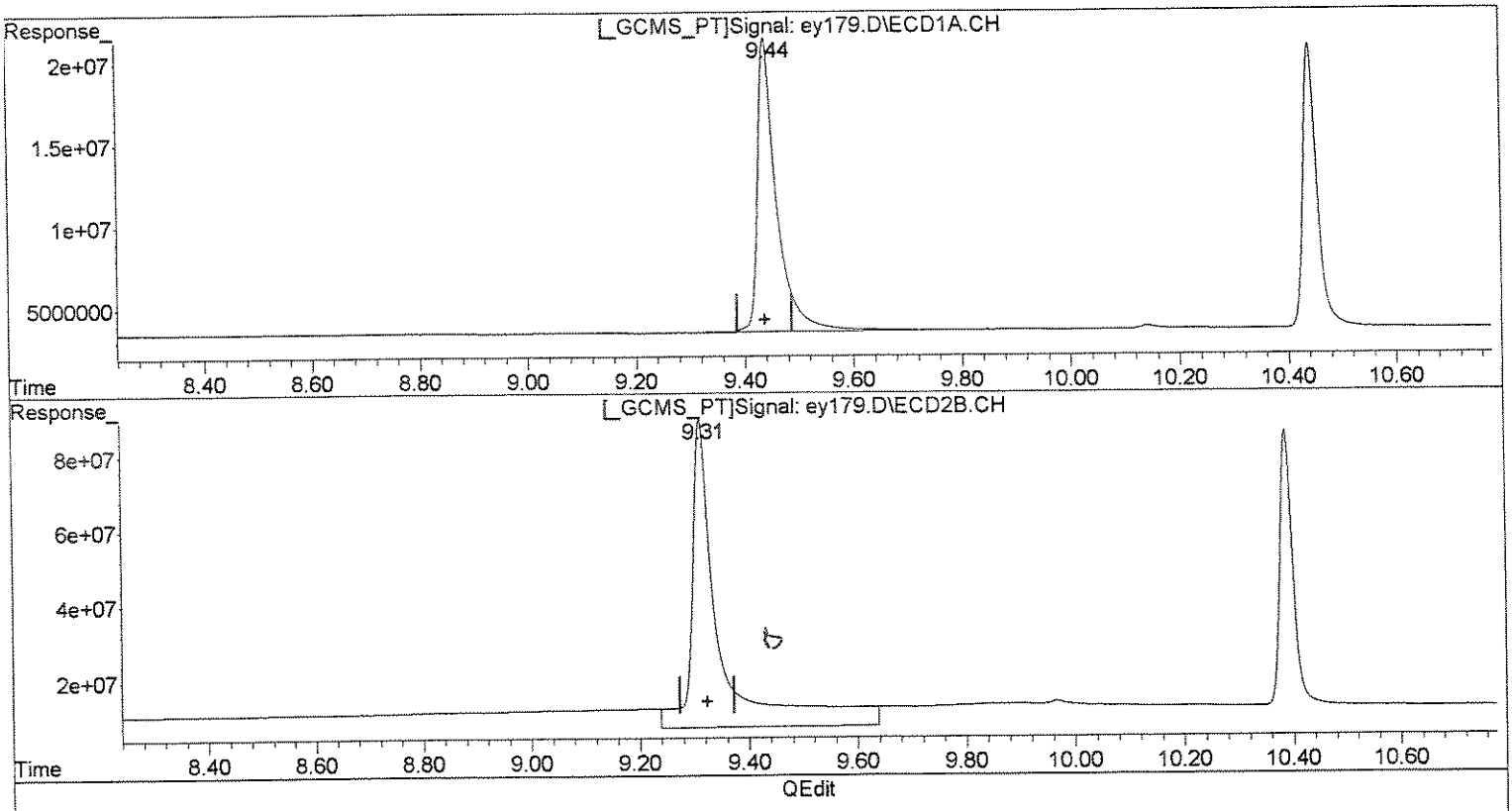


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(1) SURR1,Tetrac (S)
9.44min 21.359ug/l
response 431035816

(1) SURR1,Tetrac #2 (S)
9.31min 36.180ug/l
response 2927660412

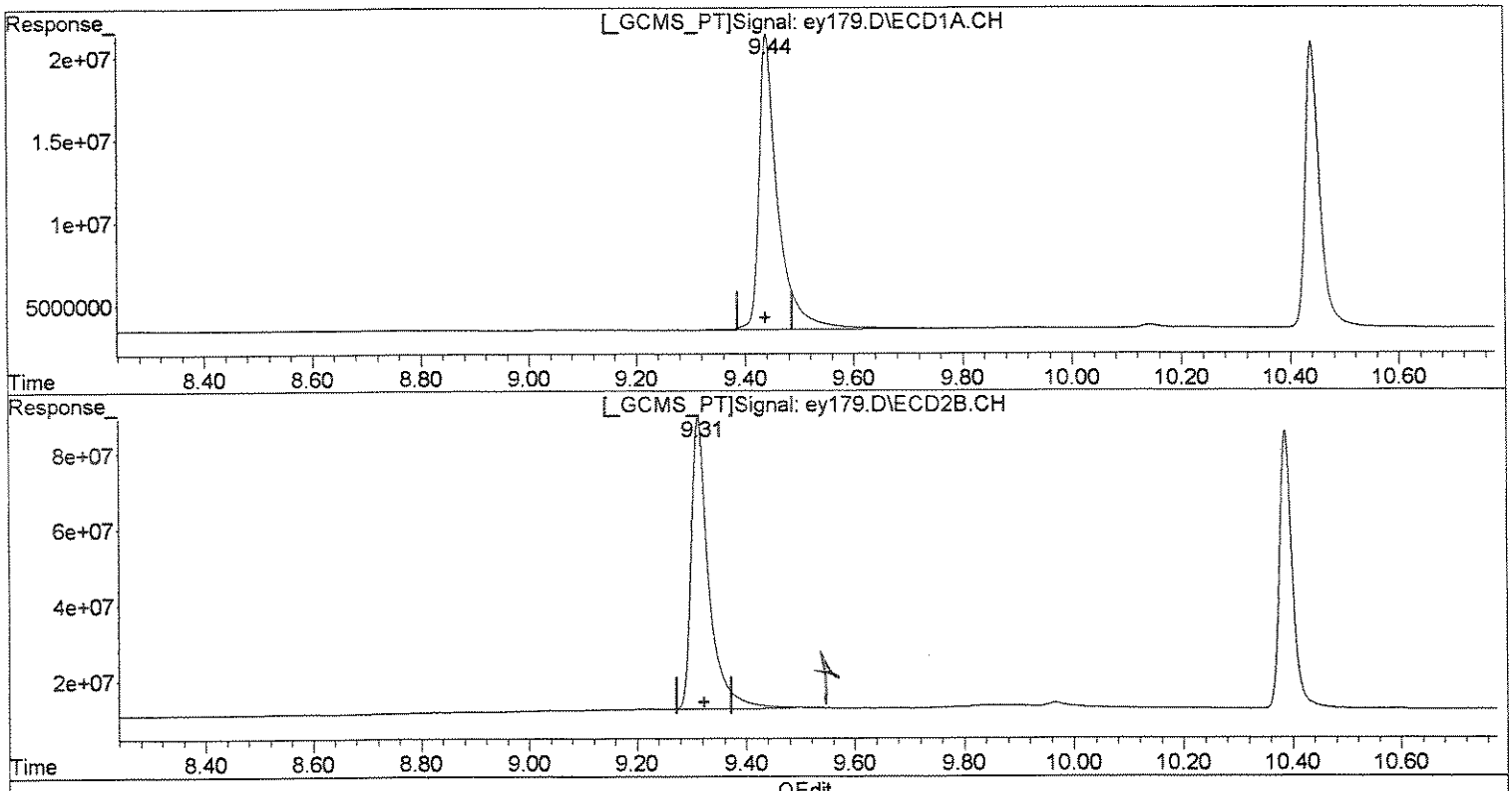
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(1) SURR1,Tetrac (S)
9.44min 21.359ug/l
response 431035816

(1) SURR1,Tetrac #2 (S)
9.31min 21.180ug/l m
response 1713885738

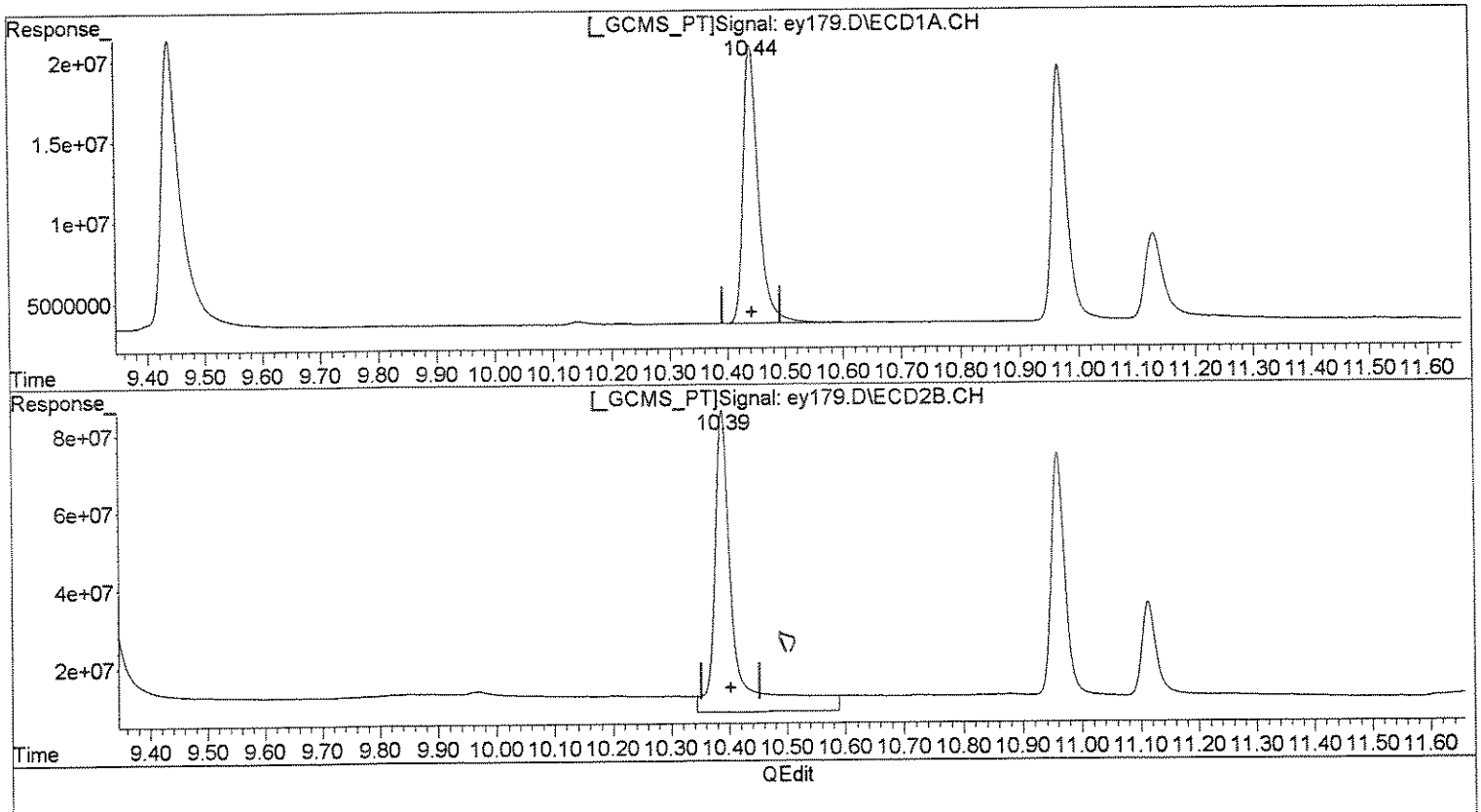
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)
10.44min 10.208ug/l
response 315602964

(3) alpha-BHC #2 (tc)
10.39min 15.033ug/l
response 1784053518

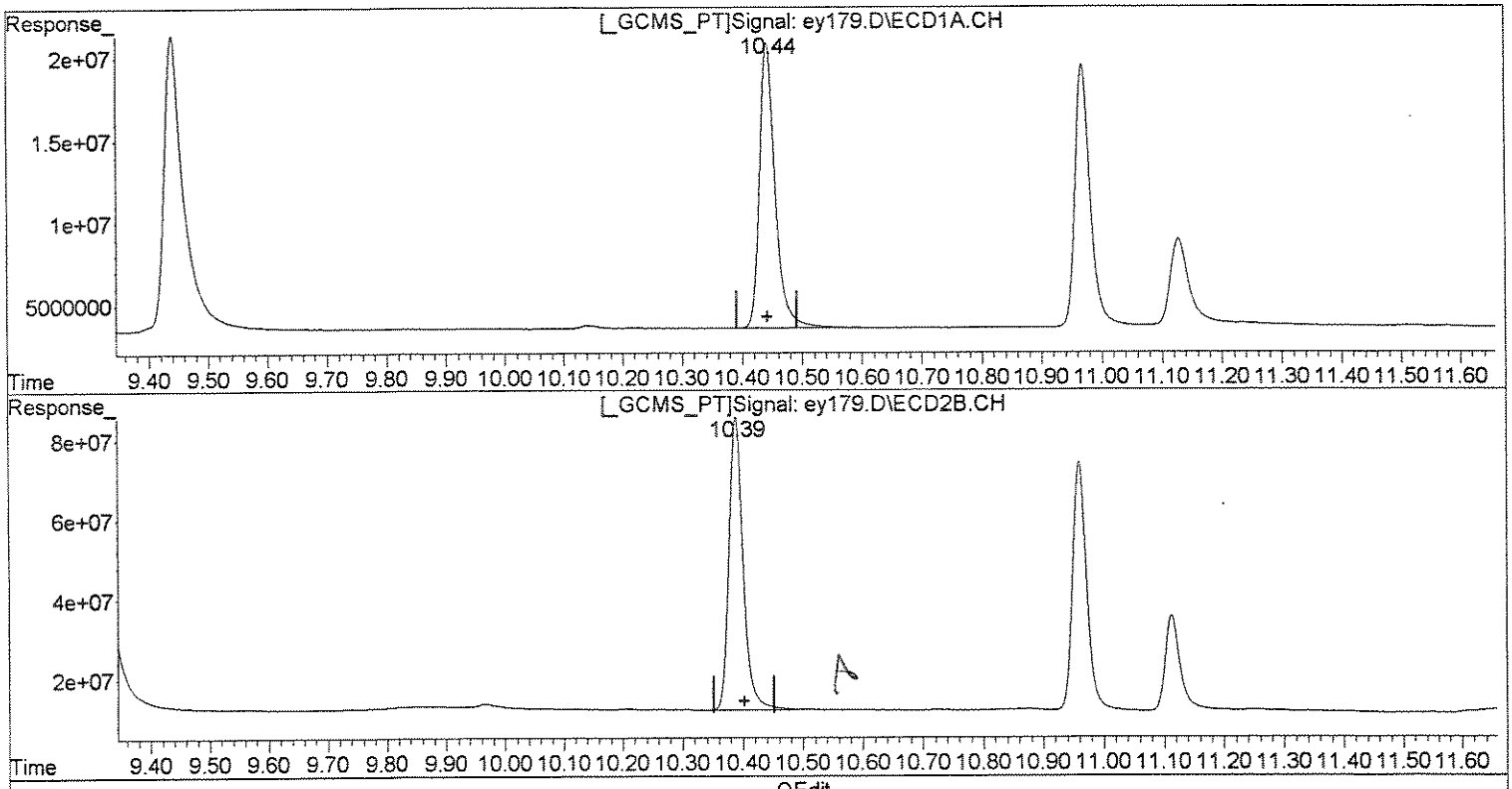
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)
10.44min 10.208ug/l
response 315602964

(3) alpha-BHC #2 (tc)
10.39min 10.116ug/l m
response 1200569678

(+) = Expected Retention Time

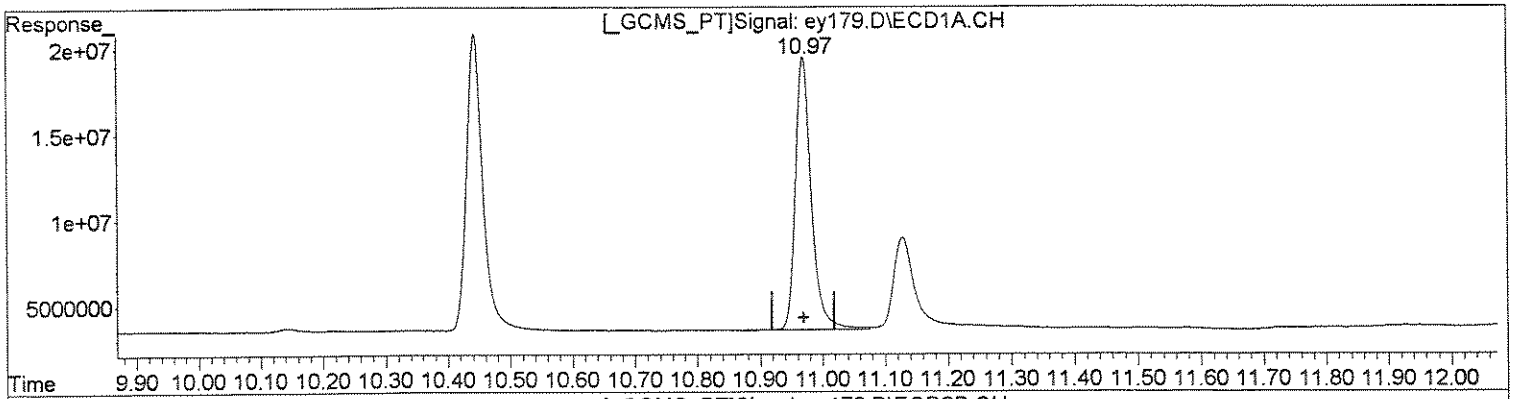
00583

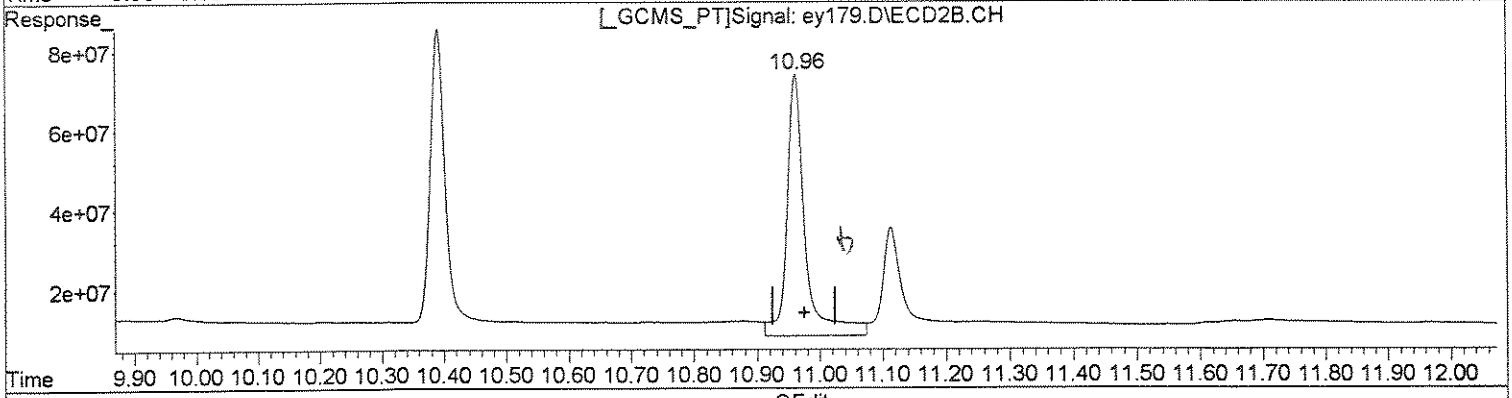
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(4) gamma-BHC (L (tcm)
10.97min 10.024ug/l
response 282727631

(4) gamma-BHC (L #2 (tcm)
10.96min 12.516ug/l
response 1315131719

(+) = Expected Retention Time

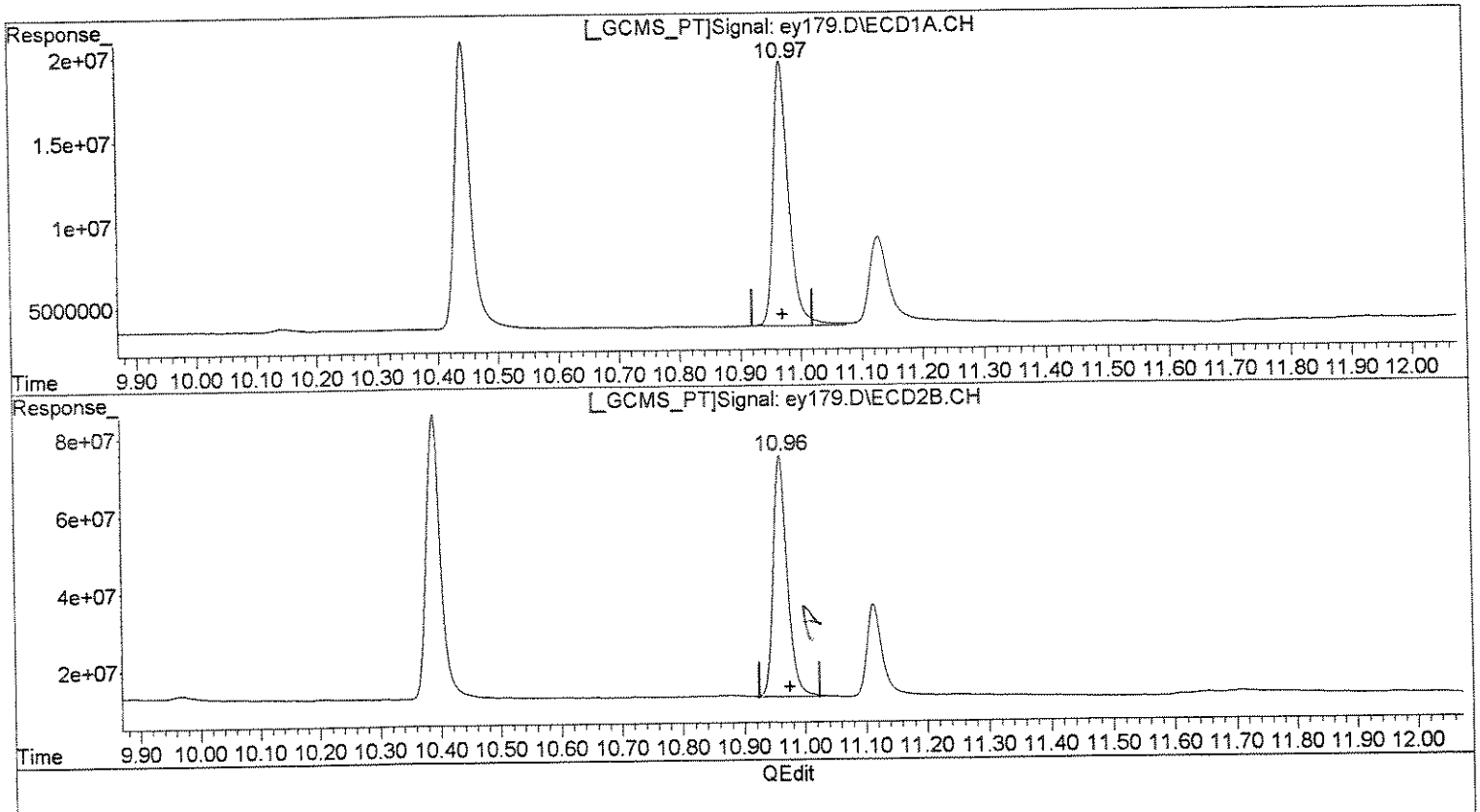
00584

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm)
10.97min 10.024ug/l
response 282727631

(4) gamma-BHC (L #2 (tcm)
10.96min 9.537ug/l m
response 1002152715

(+) = Expected Retention Time

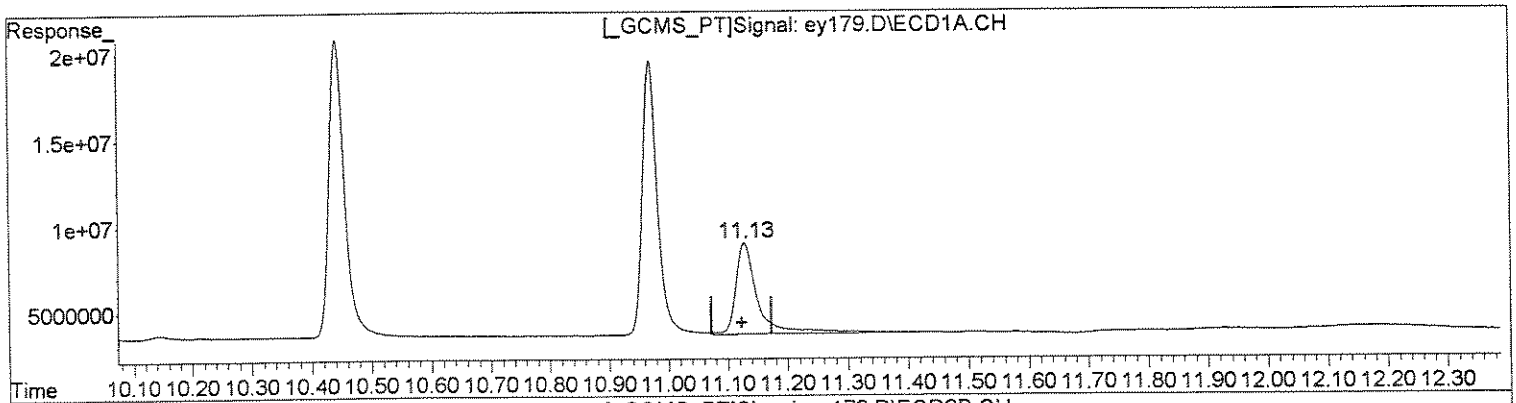
00585

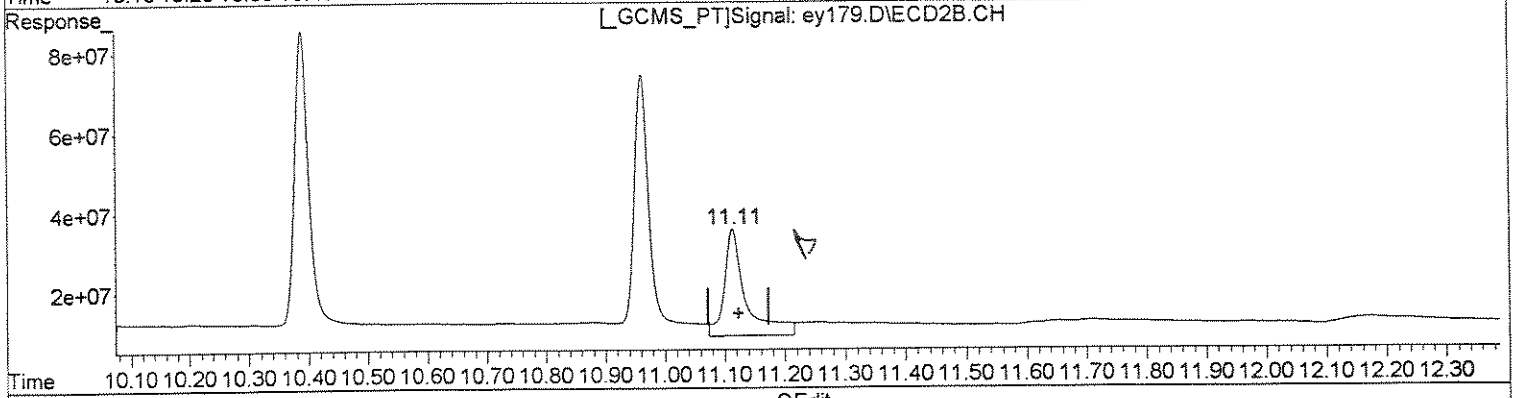
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(7) beta-BHC (tc)
11.13min 11.759ug/l
response 135031426

(7) beta-BHC #2 (tc)
11.11min 14.896ug/l
response 672275703

(+) = Expected Retention Time

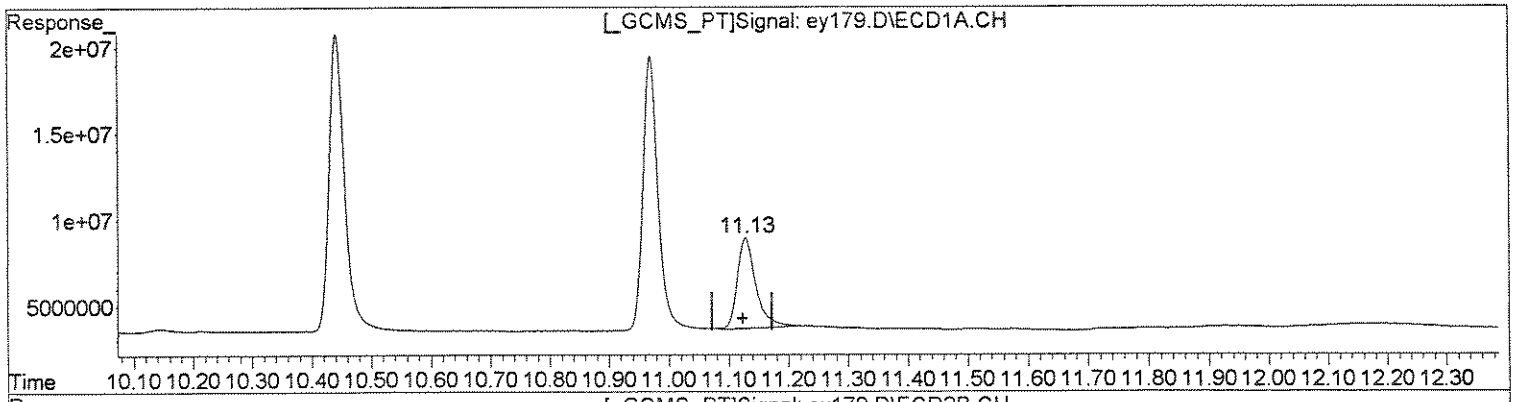
00565

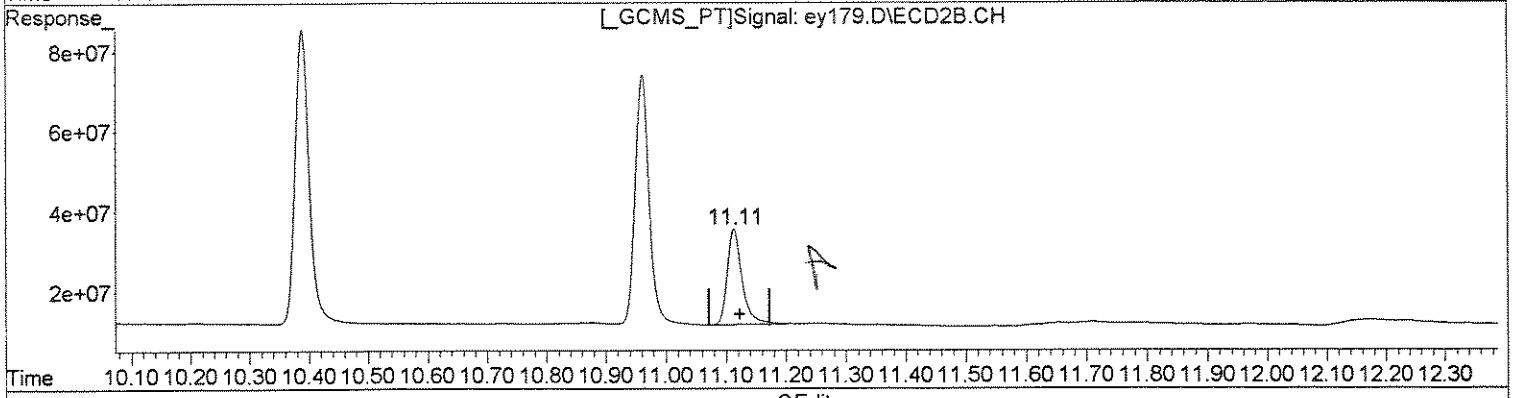
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(7) beta-BHC (tc)
11.13min 9.955ug/l m
response 114308521

(7) beta-BHC #2 (tc)
11.11min 9.117ug/l m
response 411434058

(+) = Expected Retention Time

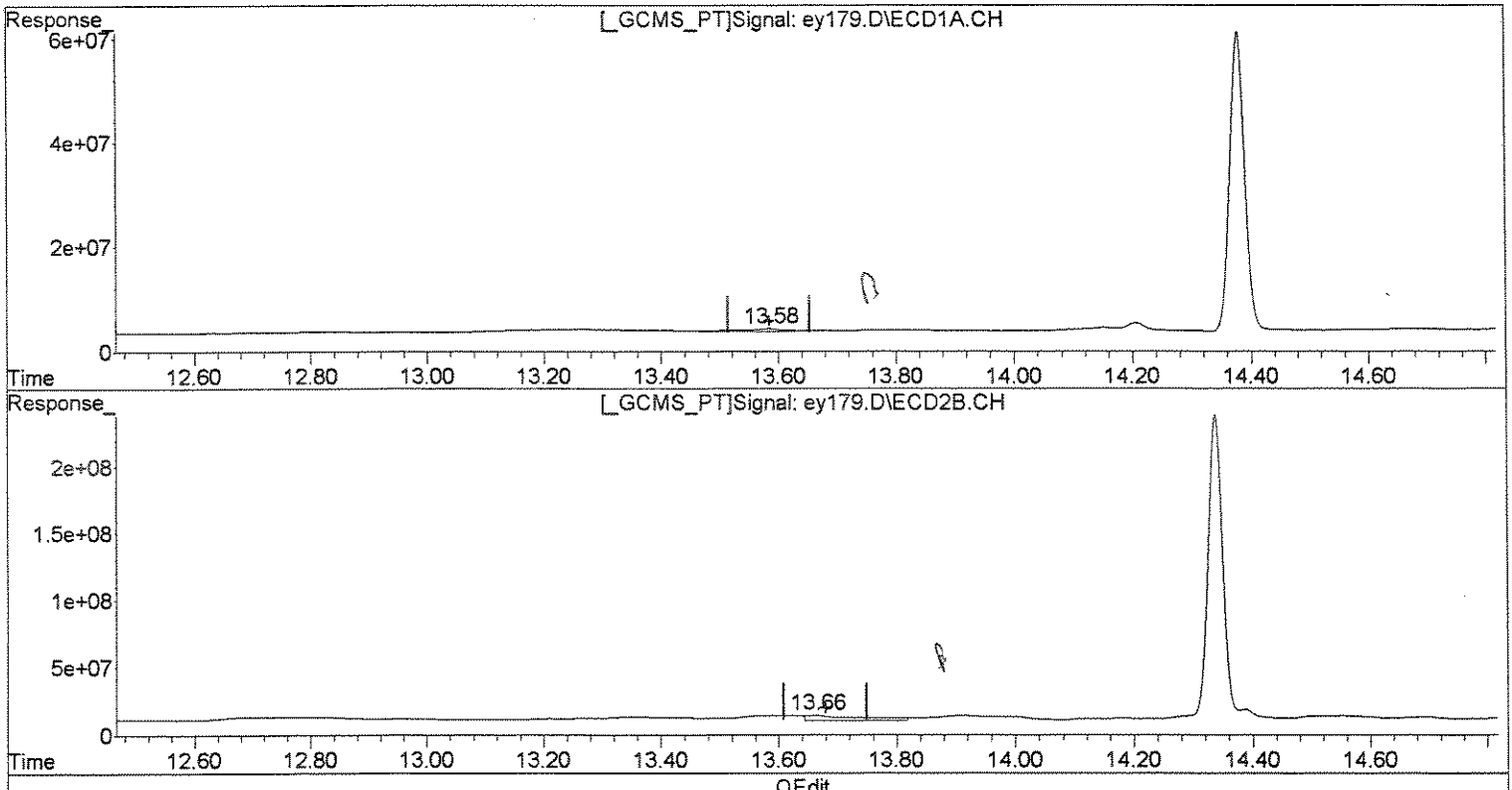
00587

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)
13.58min 1.191ug/l
response 25937527

(13) 4,4'-DDE #2 (tc)
13.66min 3.193ug/l
response 244753324

(+) = Expected Retention Time

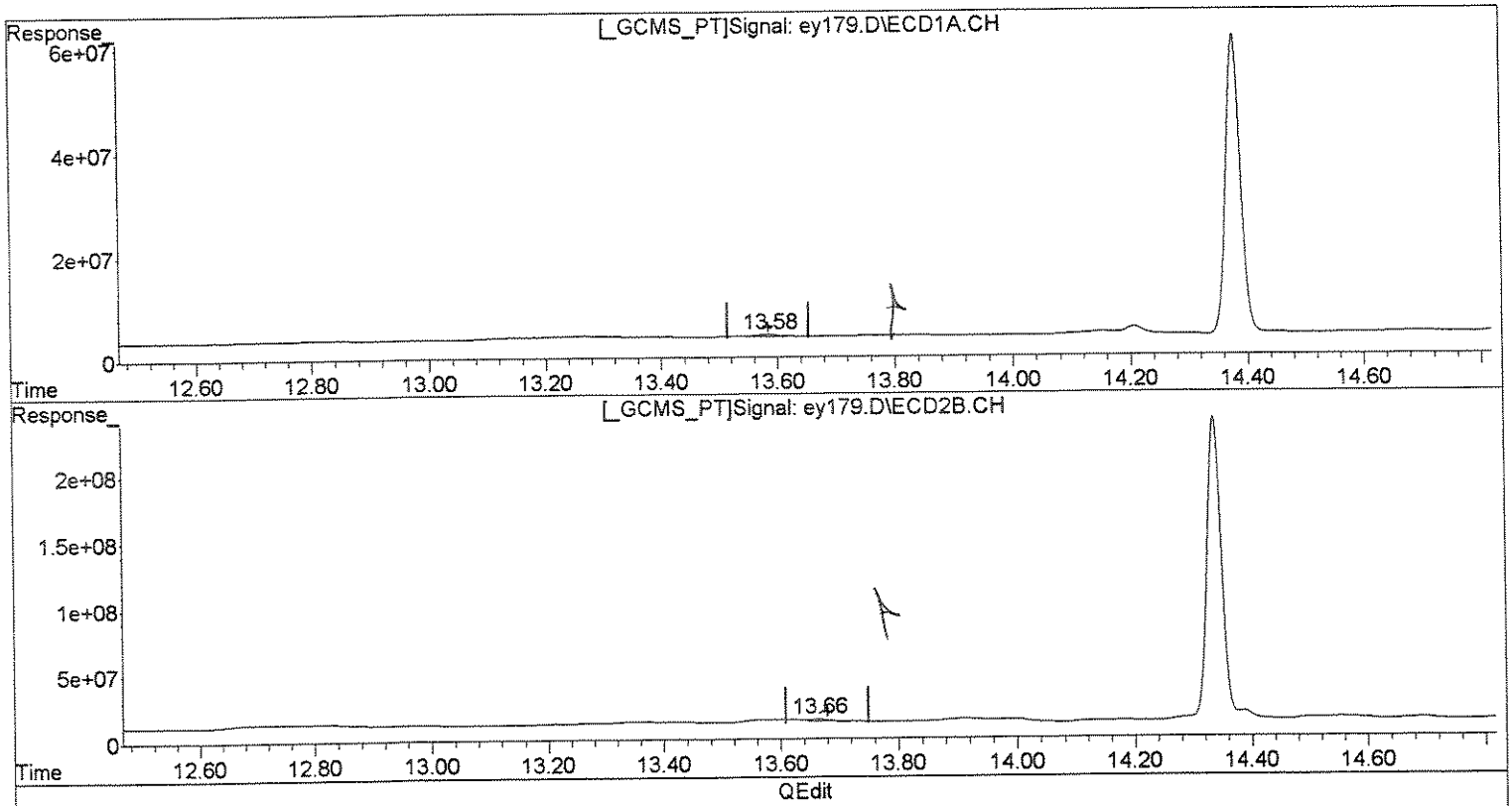
00588

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)
13.58min 0.509ug/l m
response 11090423

(13) 4,4'-DDE #2 (tc)
13.66min 0.449ug/l m
response 34421816

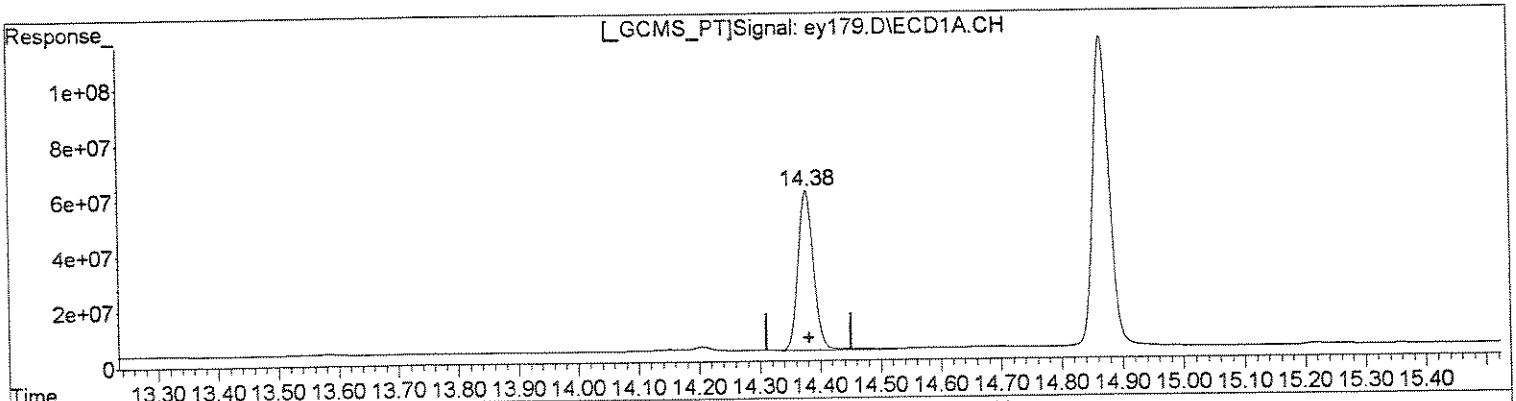
(+) = Expected Retention Time

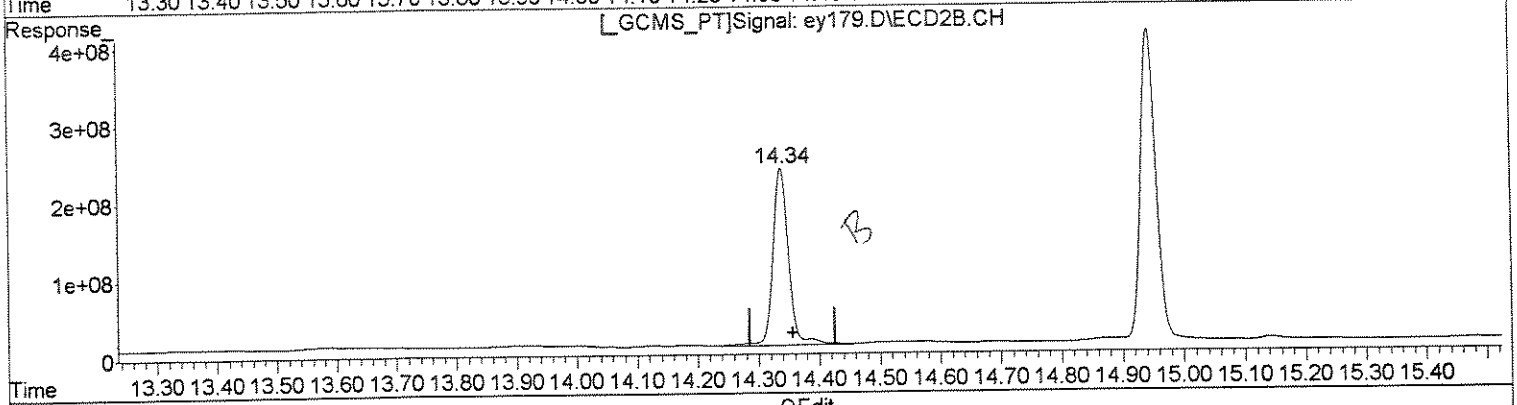
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m





QEdit

(15) Endrin (tcm)
14.38min 49.445ug/l
response 1024456646

(15) Endrin #2 (tcm)
14.34min 61.379ug/l
response 4134236320

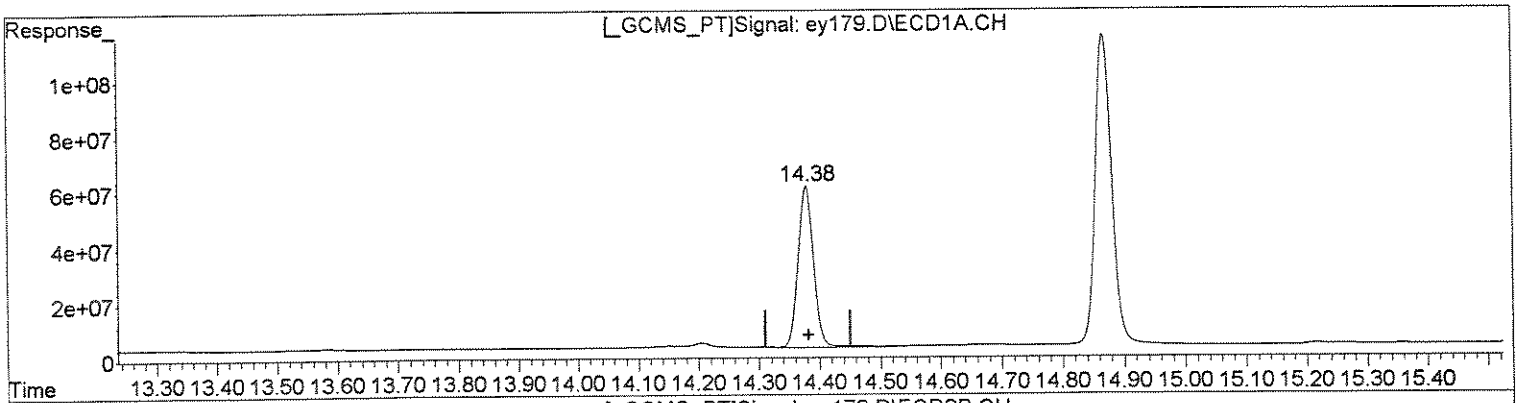
(+) = Expected Retention Time

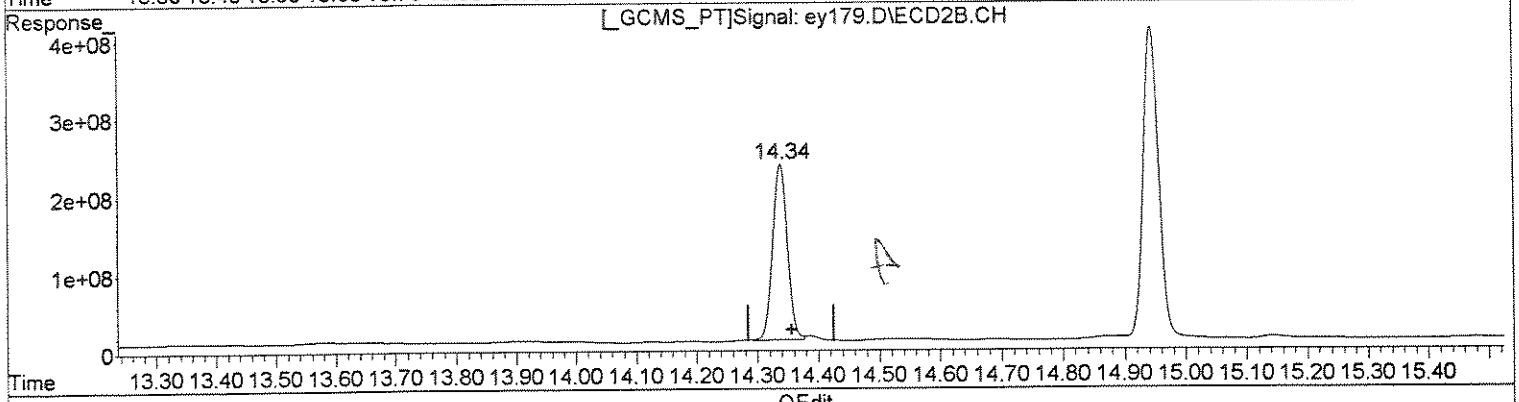
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(15) Endrin (tcm)
14.38min 49.445ug/l
response 1024456646

(15) Endrin #2 (tcm)
14.34min 56.076ug/l m
response 3777022308

(+) = Expected Retention Time

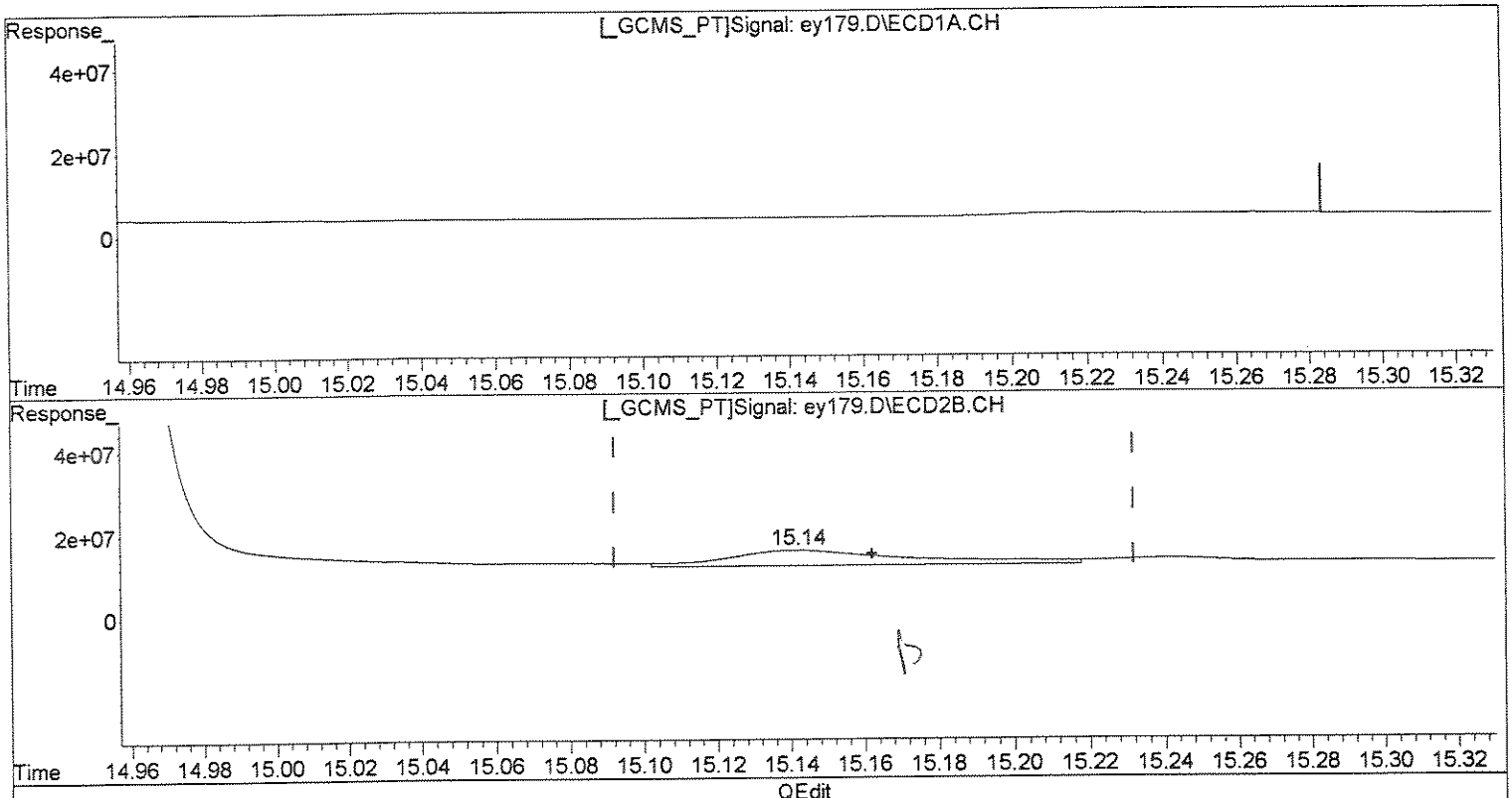
00591

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)
15.36min 0.747ug/l
response 10968268

(20) Endrin Aldeh #2 (tc)
15.14min 2.633ug/l
response 129161064

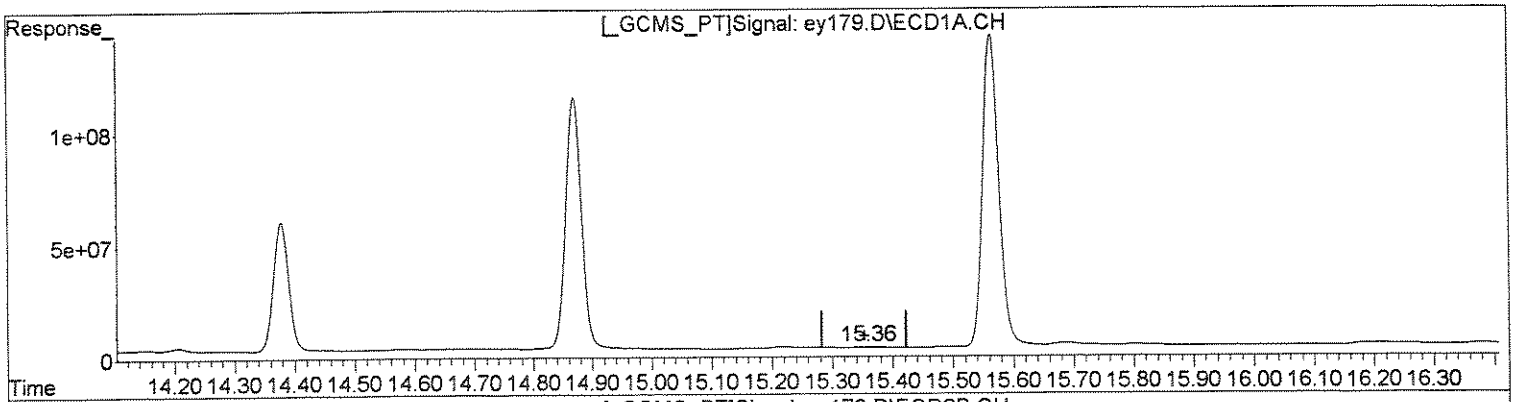
(+) = Expected Retention Time

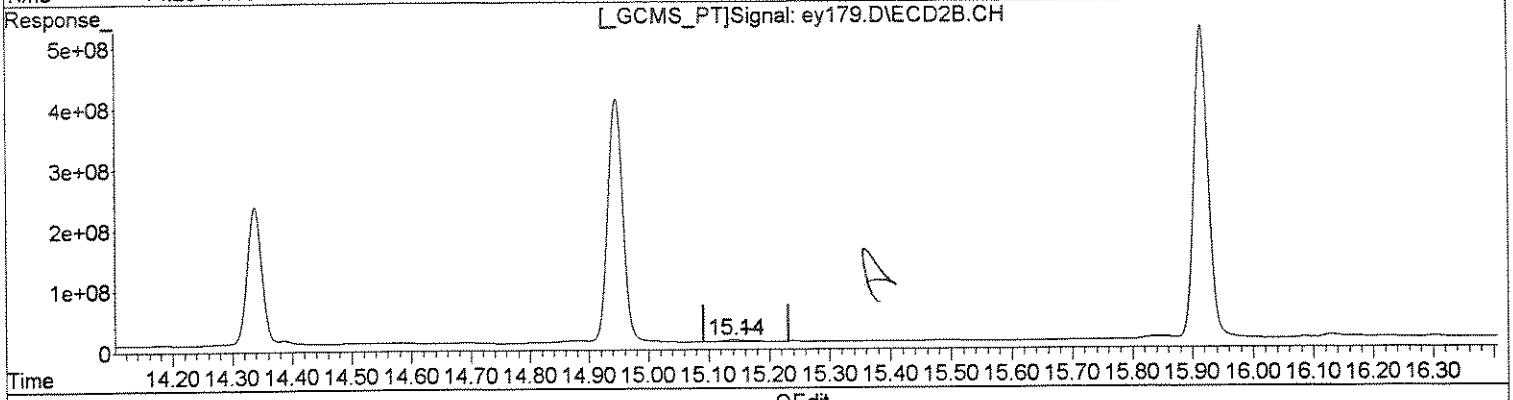
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(20) Endrin Aldeh (tc)
15.36min 0.747ug/l
response 10968268

(20) Endrin Aldeh #2 (tc)
15.14min 1.546ug/l m
response 75851431

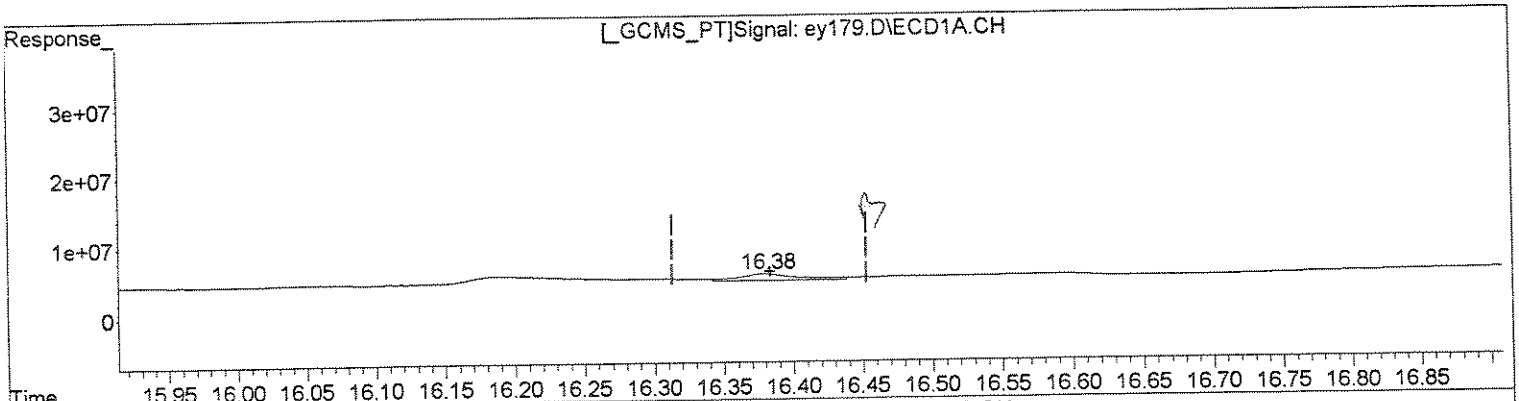
(+) = Expected Retention Time

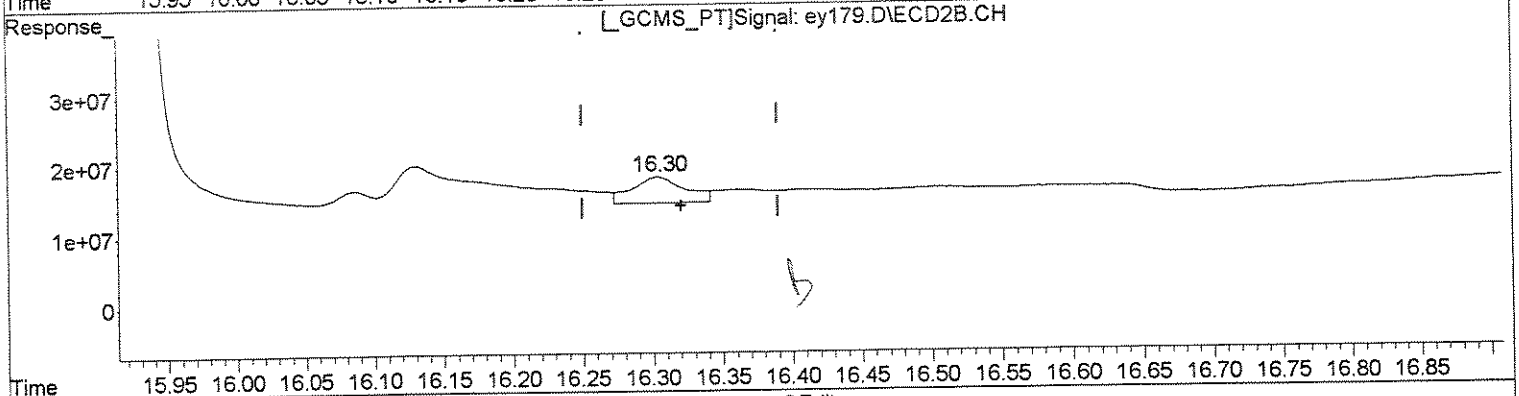
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m





QEdit

(24) Endrin Keton (tc)
16.38min 1.444ug/l
response 27968377

(24) Endrin Keton #2 (tc)
16.30min 1.555ug/l
response 97529105

(+) = Expected Retention Time

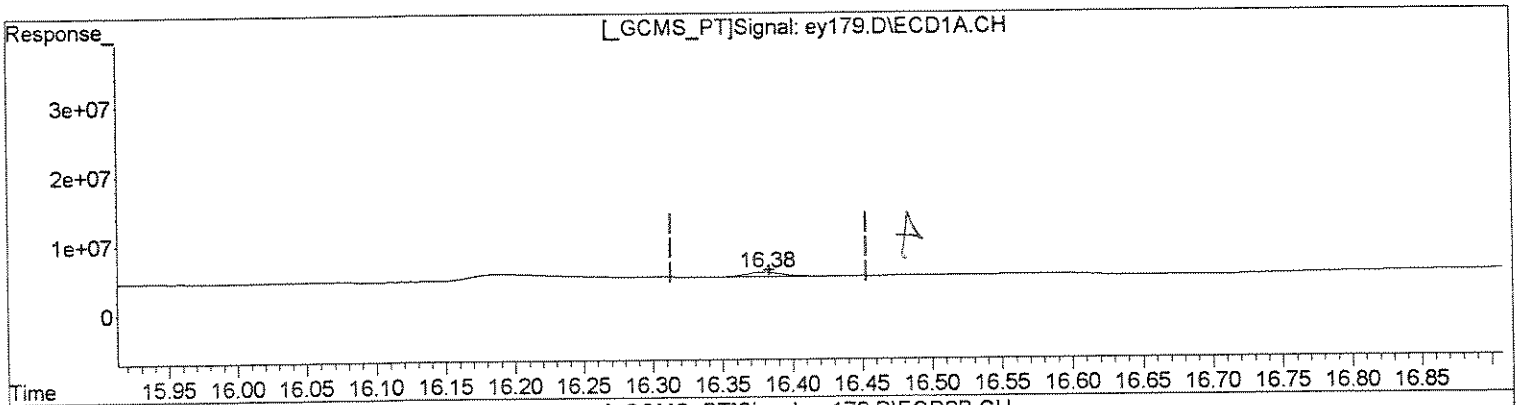
00554

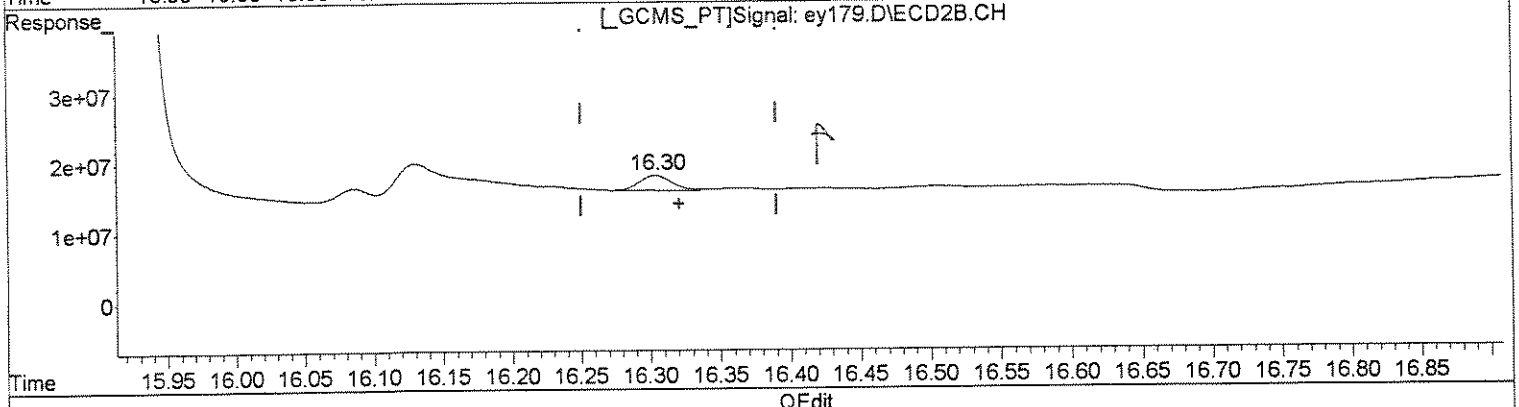
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(24) Endrin Keton (tc)
16.38min 0.680ug/l m
response 13165561

(24) Endrin Keton #2 (tc)
16.30min 0.560ug/l m
response 35112229

(+) = Expected Retention Time

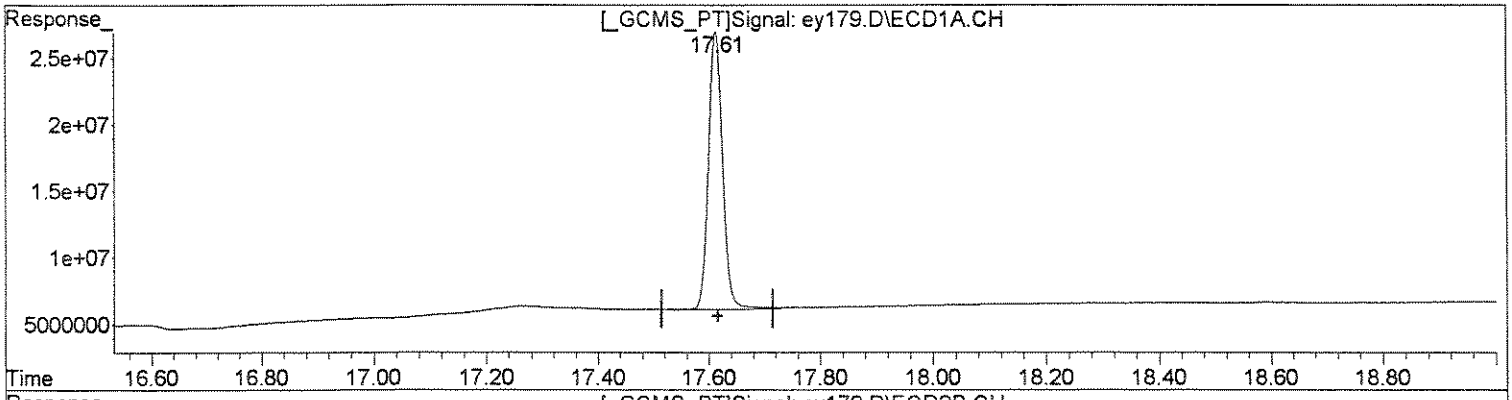
00595

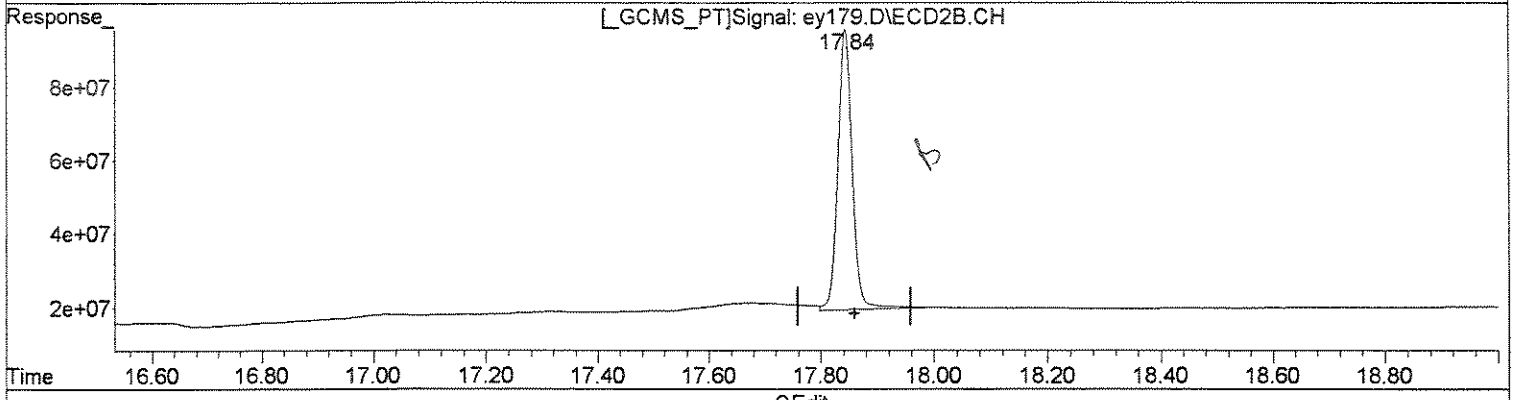
Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





QEdit

(25) SURR2,Decachlorobiphenyl (S)
17.61min 21.272ug/l
response 371526476

(25) SURR2,Decachlorobiphenyl #2 (S)
17.84min 24.670ug/l
response 1358682677

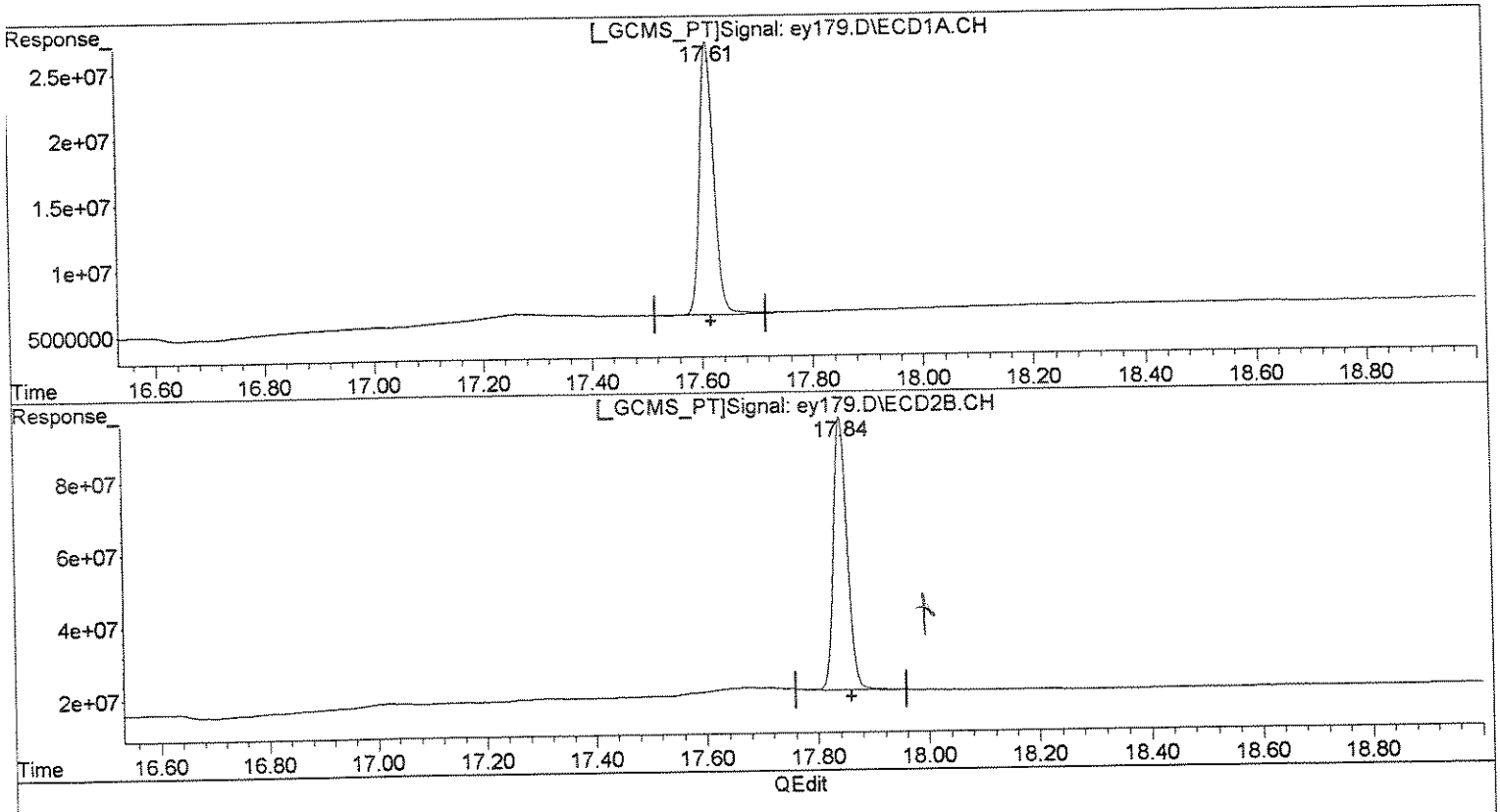
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 7:22 am
Operator : M.PEDRO
Sample : pem
Misc : pest perform check
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:13:18 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



(25) SURR2,Decachlorobiphenyl (S)
17.61min 21.272ug/l
response 371526476

(25) SURR2,Decachlorobiphenyl #2 (S)
17.84min 23.349ug/l m
response 1285934126

(+) = Expected Retention Time

8D

Pesticide Analytical Sequence

Lab Name: **Columbia Analytical** *Client:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLP *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
indal	indal	7/10/2008	16:22	9.44	17.62
indaml	indaml	7/10/2008	16:58	9.44	17.62
indam	indam	7/10/2008	17:33	9.44	17.62
indamh	indamh	7/10/2008	18:09	9.44	17.61
indah	indah	7/10/2008	18:44	9.44	17.62
indbl	indbl	7/10/2008	19:20	9.44	17.61
indbml	indbml	7/10/2008	19:55	9.44	17.61
indbm	indbm	7/10/2008	20:31	9.44	17.61
indbmh	indbmh	7/10/2008	21:07	9.44	17.61
indbh	indbh	7/10/2008	21:43	9.44	17.61
kep/fam l	kep/fam l	7/10/2008	22:18	NA	NA
kep/fam ml	kep/fam ml	7/10/2008	22:54	NA	NA
kep/fam m	kep/fam m	7/10/2008	23:30	NA	NA
kep/fam mh	kep/fam mh	7/11/2008	0:05	NA	NA
kep/fam h	kep/fam h	7/11/2008	0:41	NA	NA
kep/fam icv	kep/fam icv	7/11/2008	1:16	NA	NA
tox l	tox l	7/11/2008	1:52	9.44	17.61
tox ml	tox ml	7/11/2008	2:27	9.44	17.61
tox m	tox m	7/11/2008	3:03	9.44	17.61
tox mh	tox mh	7/11/2008	3:38	9.44	17.61
tox h	tox h	7/11/2008	4:14	9.44	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Client:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLP *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
chlor l	chlor l	7/11/2008	4:49	9.44	17.61
chlor ml	chlor ml	7/11/2008	5:25	9.44	17.61
chlor m	chlor m	7/11/2008	6:00	9.44	17.61
chlor mh	chlor mh	7/11/2008	6:36	9.44	17.61
chlor h	chlor h	7/11/2008	7:11	9.44	17.61
pest icv	pest icv	7/11/2008	7:47	NA	NA
tox icv	tox icv	7/11/2008	8:22	NA	NA
chlor icv	chlor icv	7/11/2008	8:58	NA	NA
pem	pem	7/17/2008	9:44	9.44	17.61
ccv11a	ccv11a	7/17/2008	10:20	9.44	17.61
ccv11b	ccv11b	7/17/2008	10:56	9.44	17.61
ZZZZZ	ZZZZZ	7/17/2008	11:31	9.43	17.60
ZZZZZ	ZZZZZ	7/17/2008	12:07	9.43	17.60
ZZZZZ	ZZZZZ	7/17/2008	12:42	9.43	17.60
ZZZZZ	ZZZZZ	7/17/2008	13:18	9.43	17.60
ZZZZZ	ZZZZZ	7/17/2008	13:53	9.43	17.60
PBLK1MS	1118498 1.0	7/17/2008	14:29	9.43	17.60
PBLK1MSD	1118499 1.0	7/17/2008	15:05	9.43	17.60
PBLK1	1118497 1.0	7/17/2008	15:40	9.43	17.60
CCV12A	CCV12A	7/17/2008	16:03	9.44	17.61
ccv12b	ccv12b	7/17/2008	16:52	9.44	17.61
ZZZZZ	ZZZZZ	7/17/2008	17:27	9.43	17.60

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Client:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLP *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
ZZZZZ	ZZZZZ	7/17/2008	18:03	9.43	17.60
M-55B	1114419 1.0	7/17/2008	18:38	9.43	17.60
M-55DB	1114420 1.0	7/17/2008	19:14	9.43	17.60
M-78B	1114421 1.0	7/17/2008	19:49	9.43	17.60
M-78B MS	1118500 1.0	7/17/2008	20:25	9.43	17.60
M-78B MSD	1118501 1.0	7/17/2008	21:00	9.43	17.60
ZZZZZ	ZZZZZ	7/17/2008	21:36	9.43	17.60
M-65B	1114756 1.0	7/17/2008	22:12	9.43	17.60
EB070208GW1	1114758 1.0	7/17/2008	22:47	9.43	17.60
ccv13a	ccv13a	7/17/2008	23:23	9.44	17.60
ccv13b	ccv13b	7/17/2008	23:58	9.44	17.61
pem	pem	7/21/2008	7:22	9.44	17.61
ccv15a	ccv15a	7/21/2008	8:02	9.43	17.61
ccv15b	ccv15b	7/21/2008	8:37	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	9:13	9.43	17.60
M-65B	1114756 2.0	7/21/2008	9:49	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	10:25	NA	NA
ZZZZZ	ZZZZZ	7/21/2008	11:12	9.43	17.61
ZZZZZ	ZZZZZ	7/21/2008	11:48	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	12:24	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	12:59	9.43	17.60

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Client:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLP *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.44 DCB 17.62

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
ZZZZZ	ZZZZZ	7/21/2008	13:35	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	14:10	9.43	17.60
ZZZZZ	ZZZZZ	7/21/2008	14:46	9.43	17.60
ccv16a	ccv16a	7/21/2008	15:22	9.44	17.60
ccv16b	ccv16b	7/21/2008	15:57	9.44	17.61

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

Form VIII Pest

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLPII *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
indal	indal	7/10/2008	16:22	9.32	17.86
indaml	indaml	7/10/2008	16:58	9.32	17.86
indam	indam	7/10/2008	17:33	9.32	17.86
indamh	indamh	7/10/2008	18:09	9.32	17.86
indah	indah	7/10/2008	18:44	9.32	17.86
indbl	indbl	7/10/2008	19:20	9.32	17.86
indbml	indbml	7/10/2008	19:55	9.32	17.86
indbm	indbm	7/10/2008	20:31	9.32	17.86
indbmh	indbmh	7/10/2008	21:07	9.32	17.86
indbh	indbh	7/10/2008	21:43	9.32	17.86
kep/fam l	kep/fam l	7/10/2008	22:18	NA	NA
kep/fam ml	kep/fam ml	7/10/2008	22:54	NA	NA
kep/fam m	kep/fam m	7/10/2008	23:30	NA	NA
kep/fam mh	kep/fam mh	7/11/2008	0:05	NA	NA
kep/fam h	kep/fam h	7/11/2008	0:41	NA	NA
kep/fam icv	kep/fam icv	7/11/2008	1:16	NA	NA
tox l	tox l	7/11/2008	1:52	9.32	17.86
tox ml	tox ml	7/11/2008	2:27	9.32	17.86
tox m	tox m	7/11/2008	3:03	9.32	17.86
tox mh	tox mh	7/11/2008	3:38	9.32	17.86
tox h	tox h	7/11/2008	4:14	9.32	17.86

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

Form VIII Pest

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLPII *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
chlor l	chlor l	7/11/2008	4:49	9.32	17.86
chlor ml	chlor ml	7/11/2008	5:25	9.32	17.86
chlor m	chlor m	7/11/2008	6:00	9.32	17.86
chlor mh	chlor mh	7/11/2008	6:36	9.32	17.86
chlor h	chlor h	7/11/2008	7:11	9.32	17.86
pest icv	pest icv	7/11/2008	7:47	NA	NA
tox icv	tox icv	7/11/2008	8:22	NA	NA
chlor icv	chlor icv	7/11/2008	8:58	NA	NA
pem	pem	7/17/2008	9:44	9.32	17.85
ccv11a	ccv11a	7/17/2008	10:20	9.32	17.85
ccv11b	ccv11b	7/17/2008	10:56	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	11:31	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	12:07	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	12:42	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	13:18	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	13:53	9.32	17.85
PBLK1MS	1118498 1.0	7/17/2008	14:29	9.32	17.85
PBLK1MSD	1118499 1.0	7/17/2008	15:05	9.32	17.85
PBLK1	1118497 1.0	7/17/2008	15:40	9.31	17.85
CCV12A	CCV12A	7/17/2008	16:16	9.32	17.85
ccv12b	ccv12b	7/17/2008	16:52	9.32	17.85
ZZZZZ	ZZZZZ	7/17/2008	17:27	9.31	17.85

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)
DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an
* Values outside of QC

Form VIII Pest

8D

Pesticide Analytical Sequence

Lab Name: **Columbia Analytical** *Contract:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLPII *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
ZZZZZ	ZZZZZ	7/17/2008	18:03	9.31	17.85
M-55B	1114419 1.0	7/17/2008	18:38	9.31	17.85
M-55DB	1114420 1.0	7/17/2008	19:14	9.31	17.85
M-78B	1114421 1.0	7/17/2008	19:49	9.31	17.85
M-78B MS	1118500 1.0	7/17/2008	20:25	9.31	17.85
M-78B MSD	1118501 1.0	7/17/2008	21:00	9.31	17.84
ZZZZZ	ZZZZZ	7/17/2008	21:36	9.31	17.84
M-65B	1114756 1.0	7/17/2008	22:12	9.31	17.84
EB070208GW1	1114758 1.0	7/17/2008	22:47	9.31	17.84
ccv13a	ccv13a	7/17/2008	23:23	9.32	17.84
ccv13b	ccv13b	7/17/2008	23:58	9.32	17.85
pem	pem	7/21/2008	7:22	9.31	17.84
ccv15a	ccv15a	7/21/2008	8:02	9.31	17.84
ccv15b	ccv15b	7/21/2008	8:37	9.32	17.84
ZZZZZ	ZZZZZ	7/21/2008	9:13	9.31	17.84
M-65B DL	1114756 2.0	7/21/2008	9:49	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	10:25	NA	NA
ZZZZZ	ZZZZZ	7/21/2008	11:12	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	11:48	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	12:24	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	12:59	9.31	17.84

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

8D

Pesticide Analytical Sequence

Lab Name: Columbia Analytical *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG* M-55B

GC Column(1) STx-CLPII *(ID):* 0.32mm

Instrument ID: 6890D

The analytical sequence of Performance Evaluation Mixtures, Blanks, Samples, and Standards is given below:

Mean Surrogate RT from Initial Calibration

TCX 9.32 DCB 17.86

EPA Sample No.	*Lab Sample ID*	*Date Anlyzed*	*Time Anlyzed*	*TCX rt_time*	*DCB rt_time*
ZZZZZ	ZZZZZ	7/21/2008	13:35	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	14:10	9.31	17.84
ZZZZZ	ZZZZZ	7/21/2008	14:46	9.31	17.84
ccv16a	ccv16a	7/21/2008	15:22	9.32	17.84
ccv16b	ccv16b	7/21/2008	15:57	9.32	17.84

QC Limits

TCX = Tetrachloro-m-xylene (+/- 0.05 Minutes)

DCB = Decachlorobiphenyl (+/- 0.10 Minutes)

Column used to flag retention time values with an

* Values outside of QC

Form VIII Pest

Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:20 am
Operator : M.PEDRO
Sample : ccv11a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:57:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	20.181	18.389 E6	8.9	89	0.00
3 tc	alpha-BHC	30.916	29.449 E6	4.7	90	0.00
4 tcm	gamma-BHC (L	28.206	27.069 E6	4.0	92	0.00
5 tcm	Heptachlor	27.944	27.613 E6	1.2	96	0.00
10 tc	alpha-Endosu	20.460	20.609 E6	-0.7	98	0.00
14 tcm	Dieldrin	22.843	23.291 E6	-2.0	98	0.00
15 tcm	Endrin	20.719	17.433 E6	15.9#	81	-0.01
18 tc	4,4'-DDD	17.994	16.894 E6	6.1	91	0.00
19 tcm	4,4'-DDT	19.138	20.122 E6	-5.1	100	0.00
22 tc	Methoxychlor	9.313	8.927 E6	4.1	95	0.00
25 S	SURR2,Decachlorobiphenyl	17.465	17.284 E6	1.0	100	0.00
Signal #2						
1 S	SURR1,Tetrac	80.920	82.017 E6	-1.4	102	0.00
3 tc	alpha-BHC	118.675	121.692 E6	-2.5	101	0.00
4 tcm	gamma-BHC (L	105.076	110.097 E6	-4.8	103	0.00
5 tcm	Heptachlor	100.362	103.719 E6	-3.3	105	0.00
10 tc	alpha-Endosu	70.973	75.354 E6	-6.2	106	-0.01
14 tcm	Dieldrin	78.244	82.786 E6	-5.8	106	-0.01
15 tcm	Endrin	67.355	61.007 E6	9.4	90	-0.01
18 tc	4,4'-DDD	62.240	60.613 E6	2.6	97	0.00
19 tcm	4,4'-DDT	65.507	68.680 E6	-4.8	103	-0.01
22 tc	Methoxychlor	29.053	28.844 E6	0.7	101	0.00
25 S	SURR2,Decachlorobiphenyl	55.075	57.673 E6	-4.7	106	-0.01

Evaluate Continuing Calibration Report - Not Founds

2 TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm	Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:20 am
Operator : M.PEDRO
Sample : ccv11a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:57:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	735.6E6	3280.7E6	36.450	40.542
Spiked Amount 100.000	Range 30 - 150		Recovery =		36.45%	40.54%
25) S SURR2,Decachloro	17.61	17.85	1382.8E6	4613.8E6	79.171	83.773
Spiked Amount 100.000	Range 30 - 150		Recovery =		79.17%	83.77%
Target Compounds						
3) tc alpha-BHC	10.44	10.39	1178.0E6	4867.7E6	38.102	41.017
4) tcm gamma-BHC (L	10.96	10.97	1082.8E6	4403.9E6	38.388	41.911
5) tcm Heptachlor	11.72	11.63	1104.5E6	4148.8E6	39.526	41.338
10) tc alpha-Endosu	13.67	13.51	824.4E6	3014.1E6	40.292	42.469
14) tcm Dieldrin	14.02	13.90	1863.3E6	6622.9E6	81.570	84.644
15) tcm Endrin	14.37	14.34	1394.6E6	4880.5E6	67.312	72.460
18) tc 4,4'-DDD	14.45	14.50	1351.5E6	4849.0E6	75.112	77.909
19) tcm 4,4'-DDT	14.86	14.95	1609.8E6	5494.4E6	84.117	83.875
22) tc Methoxychlor	15.56	15.92	3570.7E6	11537.5E6	383.417	397.116
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

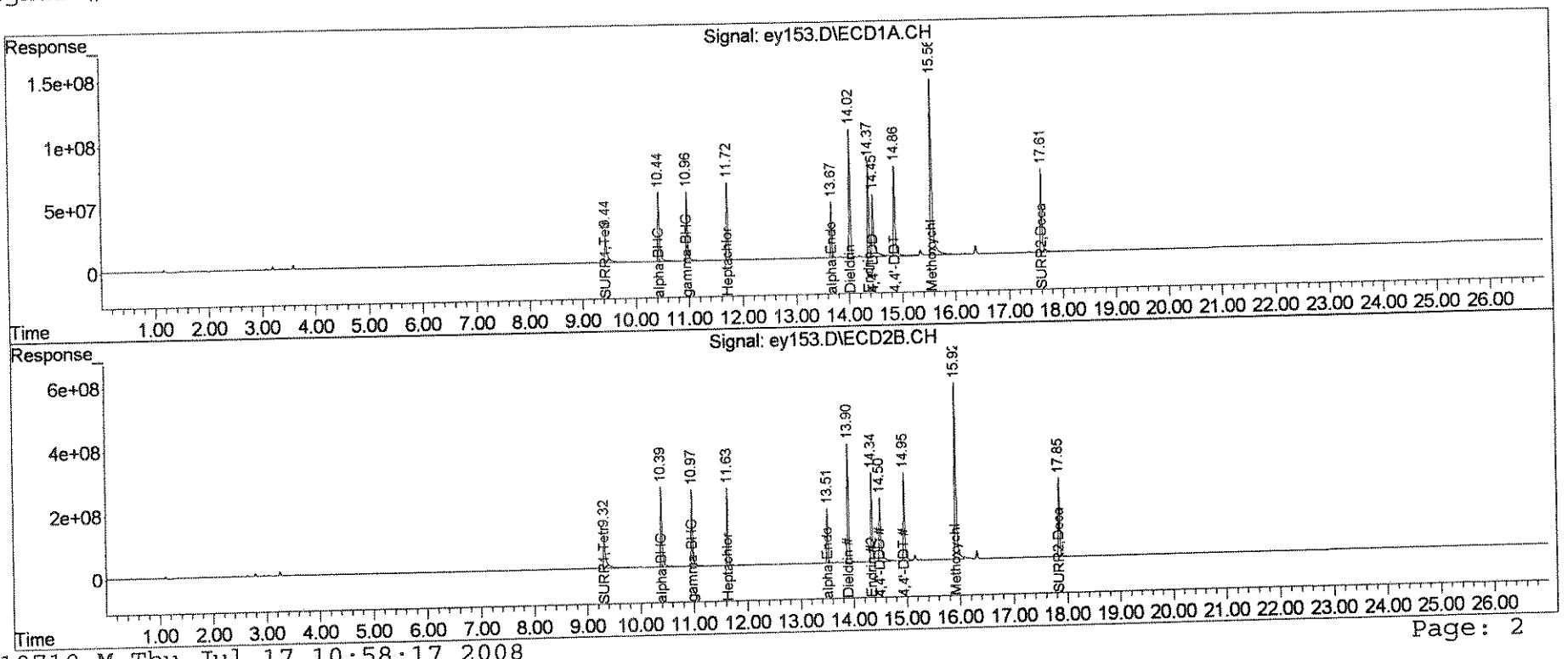
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:20 am
Operator : M.PEDRO
Sample : ccv11a
Misc : indam
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 10:57:03 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:56 am
Operator : M.PEDRO
Sample : ccv11b
Misc : indbm
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 11:51:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	18.273 E6	9.5	88	0.00
6	tcm	Aldrin	24.759	24.663 E6	0.4	96	0.00
7	tc	beta-BHC	11.483	10.539 E6	8.2	92	0.00
8	TC	delta-BHC	27.198	24.944 E6	8.3	88	0.00
9	tc	Heptachlor E	22.762	22.368 E6	1.7	97	0.00
11	tc	gamma-Chlord	21.924	22.008 E6	-0.4	98	0.00
12	tc	alpha-Chlord	21.387	21.448 E6	-0.3	99	0.00
13	tc	4,4'-DDE	21.781	19.875 E6	8.8	88	0.00
17	tc	beta-Endosul	18.589	19.050 E6	-2.5	100	0.00
20	tc	Endrin Aldeh	14.678	14.267 E6	2.8	96	0.00
21	tc	Endosulfan S	16.846	16.924 E6	-0.5	99	0.00
24	tc	Endrin Keton	19.363	19.643 E6	-1.4	99	0.00
25	S	SURR2,Decachlorobiphenyl	17.465	17.306 E6	0.9	100	0.00

Signal #2

1	S	SURR1,Tetrac	80.920	82.499 E6	-2.0	103	0.00
6	tcm	Aldrin	91.095	95.150 E6	-4.5	104	0.00
7	tc	beta-BHC	45.130	44.846 E6	0.6	101	0.00
8	tc	delta-BHC	103.241	97.308 E6	5.7	93	0.00
9	tc	Heptachlor E	80.396	82.403 E6	-2.5	104	-0.01
11	tc	gamma-Chlord	82.026	84.441 E6	-2.9	103	0.00
12	tc	alpha-Chlord	77.670	80.882 E6	-4.1	104	-0.01
13	tc	4,4'-DDE	76.653	78.158 E6	-2.0	102	0.00
17	tc	beta-Endosul	64.198	66.052 E6	-2.9	104	-0.01
20	tc	Endrin Aldeh	49.048	48.873 E6	0.4	101	-0.01
21	tc	Endosulfan S	57.148	58.801 E6	-2.9	103	-0.01
24	tc	Endrin Keton	62.732	65.898 E6	-5.0	105	-0.01
25	S	SURR2,Decachlorobiphenyl	55.075	56.839 E6	-3.2	104	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:56 am
Operator : M.PEDRO
Sample : ccv11b
Misc : indbm
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 11:51:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	SURR1,Tetrac	9.44	9.32	730.9E6	3299.9E6	36.219	40.780
	Spiked Amount 100.000	Range 30 - 150		Recovery =		36.22%	40.78%
25) S	SURR2,Decachloro	17.61	17.85	1384.5E6	4547.2E6	79.272	82.563
	Spiked Amount 100.000	Range 30 - 150		Recovery =		79.27%	82.56%
	Target Compounds						
6) tcm	Aldrin	12.18	12.11	986.5E6	3806.0E6	39.846	41.781
7) tc	beta-BHC	11.12	11.12	421.6E6	1793.9E6	36.711	39.749
8) tc	delta-BHC	11.40	11.56	997.8E6	3892.3E6	36.685	37.701
9) tc	Heptachlor E	13.09	12.95	894.7E6	3296.1E6	39.308	40.999
11) tc	gamma-Chlord	13.27	13.22	880.3E6	3377.7E6	40.153	41.178
12) tc	alpha-Chlord	13.47	13.43	857.9E6	3235.3E6	40.113	41.654
13) tc	4,4'-DDE	13.58	13.67	1590.0E6	6252.6E6	72.998	81.570
17) tc	beta-Endosul	14.71	14.65	1524.0E6	5284.1E6	81.984	82.310
20) tc	Endrin Aldeh	15.34	15.15	1141.4E6	3909.8E6	77.761	79.715
21) tc	Endosulfan S	15.98	15.56	1353.9E6	4704.1E6	80.369	82.315
24) tc	Endrin Keton	16.37	16.31	1571.4E6	5271.9E6	81.155	84.038
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

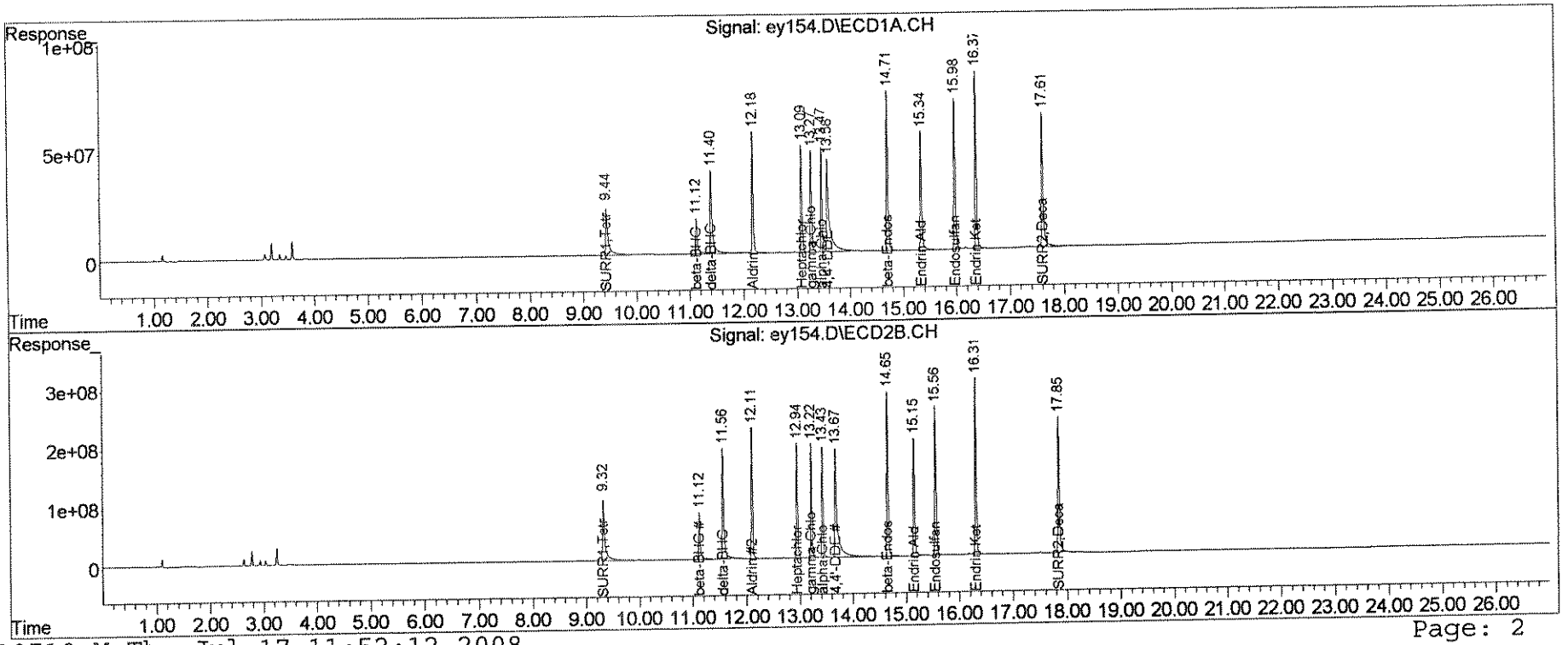
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 10:56 am
Operator : M.PEDRO
Sample : ccv11b
Misc : indbm
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 17 11:51:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey163.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:16 pm
Operator : M.PEDRO
Sample : ccv12a
Misc : indamh
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:48:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	20.181	18.709 E6	7.3	91	0.00
3 tc	alpha-BHC	30.916	30.271 E6	2.1	93	0.00
4 tcm	gamma-BHC (L	28.206	27.590 E6	2.2	94	0.00
5 tcm	Heptachlor	27.944	27.745 E6	0.7	96	0.00
10 tc	alpha-Endosu	20.460	20.682 E6	-1.1	98	-0.01
14 tcm	Dieldrin	22.843	23.487 E6	-2.8	99	-0.01
15 tcm	Endrin	20.719	17.665 E6	14.7	82	-0.01
18 tc	4,4'-DDD	17.994	17.681 E6	1.7	95	0.00
19 tcm	4,4'-DDT	19.138	19.978 E6	-4.4	100	0.00
22 tc	Methoxychlor	9.313	9.183 E6	1.4	98	0.00
25 S	SURR2,Decachlorobiphenyl	17.465	17.316 E6	0.9	100	0.00
Signal #2						
1 S	SURR1,Tetrac	80.920	80.590 E6	0.4	100	0.00
3 tc	alpha-BHC	118.675	124.873 E6	-5.2	104	0.00
4 tcm	gamma-BHC (L	105.076	112.118 E6	-6.7	105	0.00
5 tcm	Heptachlor	100.362	104.981 E6	-4.6	107	0.00
10 tc	alpha-Endosu	70.973	75.800 E6	-6.8	107	-0.01
14 tcm	Dieldrin	78.244	82.453 E6	-5.4	106	-0.01
15 tcm	Endrin	67.355	61.339 E6	8.9	90	-0.01
18 tc	4,4'-DDD	62.240	62.391 E6	-0.2	99	0.00
19 tcm	4,4'-DDT	65.507	70.162 E6	-7.1	105	-0.01
22 tc	Methoxychlor	29.053	30.274 E6	-4.2	105	-0.01
25 S	SURR2,Decachlorobiphenyl	55.075	59.015 E6	-7.2	108	-0.01

Evaluate Continuing Calibration Report - Not Founds

2 TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6 tcm	Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey163.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:16 pm
Operator : M.PEDRO
Sample : ccv12a
Misc : indamh
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:48:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	748.4E6	3223.6E6	37.083	39.837
Spiked Amount 100.000	Range 30 - 150		Recovery =		37.08%	39.84%
25) S SURR2,Decachloro	17.61	17.85	1385.3E6	4721.2E6	79.317	85.723
Spiked Amount 100.000	Range 30 - 150		Recovery =		79.32%	85.72%
Target Compounds						
3) tc alpha-BHC	10.44	10.40	1210.8E6	4994.9E6	39.165	42.089
4) tcm gamma-BHC (L	10.96	10.97	1103.6E6	4484.7E6	39.126	42.681
5) tcm Heptachlor	11.72	11.63	1109.8E6	4199.2E6	39.715	41.841
10) tc alpha-Endosu	13.67	13.51	827.3E6	3032.0E6	40.435	42.720
14) tcm Dieldrin	14.02	13.90	1878.9E6	6596.2E6	82.255	84.303
15) tcm Endrin	14.37	14.34	1413.2E6	4907.1E6	68.208	72.854
18) tc 4,4'-DDD	14.45	14.50	1414.5E6	4991.3E6	78.609	80.195
19) tcm 4,4'-DDT	14.86	14.95	1598.3E6	5613.0E6	83.515	85.685
22) tc Methoxychlor	15.56	15.92	3673.1E6	12109.8E6	394.418	416.813
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

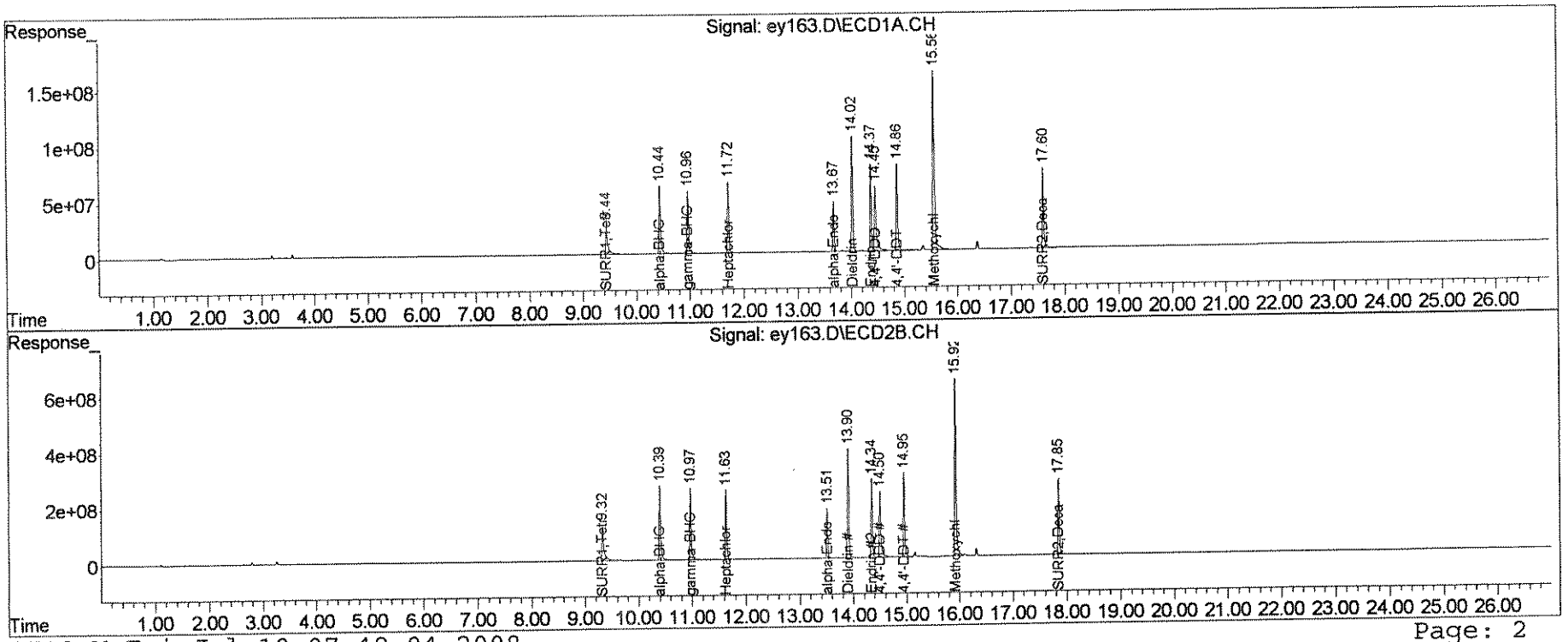
00613

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey163.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:16 pm
Operator : M.PEDRO
Sample : ccv12a
Misc : indamh
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:48:35 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey164.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:52 pm
Operator : M.PEDRO
Sample : ccv12b
Misc : indbmh
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:49:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	18.724 E6	7.2	91	0.00
6	tcm	Aldrin	24.759	24.916 E6	-0.6	97	0.00
7	tc	beta-BHC	11.483	10.790 E6	6.0	94	0.00
8	TC	delta-BHC	27.198	26.108 E6	4.0	92	0.00
9	tc	Heptachlor E	22.762	22.668 E6	0.4	98	0.00
11	tc	gamma-Chlord	21.924	22.262 E6	-1.5	99	0.00
12	tc	alpha-Chlord	21.387	21.711 E6	-1.5	100	0.00
13	tc	4,4'-DDE	21.781	20.391 E6	6.4	91	0.00
17	tc	beta-Endosul	18.589	19.204 E6	-3.3	101	0.00
20	tc	Endrin Aldeh	14.678	14.425 E6	1.7	97	0.00
21	tc	Endosulfan S	16.846	17.208 E6	-2.1	100	-0.01
24	tc	Endrin Keton	19.363	19.895 E6	-2.7	100	-0.01
25	S	SURR2,Decachlorobiphenyl	17.465	17.386 E6	0.5	100	0.00
Signal #2							
1	S	SURR1,Tetrac	80.920	84.396 E6	-4.3	105	0.00
6	tcm	Aldrin	91.095	96.777 E6	-6.2	106	-0.01
7	tc	beta-BHC	45.130	46.291 E6	-2.6	104	0.00
8	tc	delta-BHC	103.241	101.455 E6	1.7	97	0.00
9	tc	Heptachlor E	80.396	84.020 E6	-4.5	106	-0.01
11	tc	gamma-Chlord	82.026	86.230 E6	-5.1	105	-0.01
12	tc	alpha-Chlord	77.670	82.737 E6	-6.5	106	-0.01
13	tc	4,4'-DDE	76.653	79.311 E6	-3.5	103	0.00
17	tc	beta-Endosul	64.198	67.194 E6	-4.7	106	-0.01
20	tc	Endrin Aldeh	49.048	49.591 E6	-1.1	102	-0.01
21	tc	Endosulfan S	57.148	60.228 E6	-5.4	106	-0.01
24	tc	Endrin Keton	62.732	67.346 E6	-7.4	107	-0.01
25	S	SURR2,Decachlorobiphenyl	55.075	58.941 E6	-7.0	108	-0.01

MY 7/18

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey164.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:52 pm
Operator : M.PEDRO
Sample : ccv12b
Misc : indbmh
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:49:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	748.9E6	3375.8E6	37.112	41.718
Spiked Amount 100.000	Range 30 - 150		Recovery =		37.11%	41.72%
25) S SURR2,Decachloro	17.61	17.85	1390.9E6	4715.3E6	79.638	85.616
Spiked Amount 100.000	Range 30 - 150		Recovery =		79.64%	85.62%
Target Compounds						
6) tcm Aldrin	12.18	12.11	996.7E6	3871.1E6	40.254	42.495
7) tc beta-BHC	11.12	11.12	431.6E6	1851.7E6	37.586	41.029
8) tc delta-BHC	11.40	11.56	1044.3E6	4058.2E6	38.396	39.308
9) tc Heptachlor E	13.09	12.94	906.7E6	3360.8E6	39.836	41.803
11) tc gamma-Chlord	13.27	13.22	890.5E6	3449.2E6	40.617	42.050
12) tc alpha-Chlord	13.47	13.43	868.4E6	3309.5E6	40.605	42.609
13) tc 4,4'-DDE	13.58	13.67	1631.3E6	6344.9E6	74.893	82.774
17) tc beta-Endosul	14.71	14.65	1536.3E6	5375.5E6	82.647	83.734
20) tc Endrin Aldeh	15.34	15.15	1154.0E6	3967.3E6	78.620	80.886
21) tc Endosulfan S	15.98	15.55	1376.6E6	4818.3E6	81.716	84.313
24) tc Endrin Keton	16.37	16.31	1591.6E6	5387.7E6	82.197	85.884
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

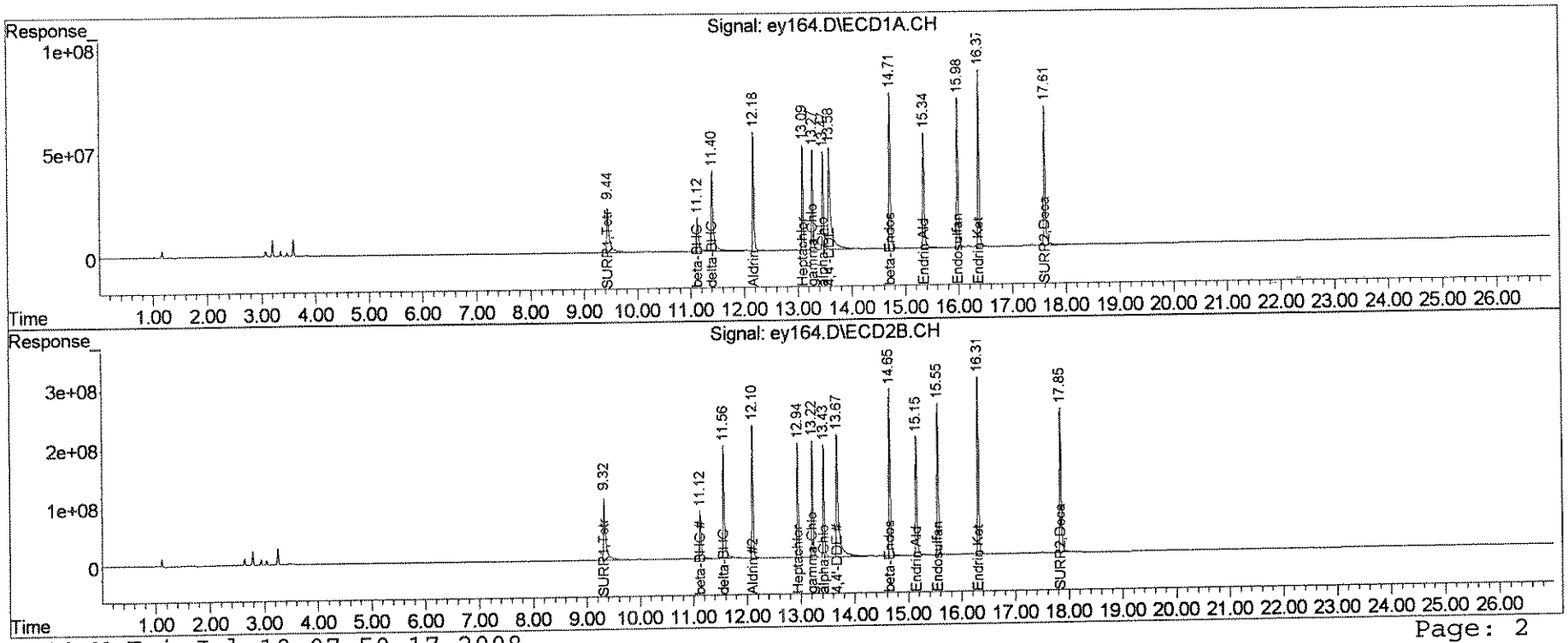
00516

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey164.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 4:52 pm
Operator : M.PEDRO
Sample : ccv12b
Misc : indbmh
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:49:56 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:23 pm
Operator : M.PEDRO
Sample : ccv13a
Misc : indamh
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:11:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	19.055 E6	5.6	92	0.00
3	tc	alpha-BHC	30.916	30.367 E6	1.8	93	0.00
4	tcm	gamma-BHC (L	28.206	27.527 E6	2.4	94	0.00
5	tcm	Heptachlor	27.944	27.239 E6	2.5	95	0.00
10	tc	alpha-Endosu	20.460	20.354 E6	0.5	97	-0.01
14	tcm	Dieldrin	22.843	23.057 E6	-0.9	97	-0.01
15	tcm	Endrin	20.719	16.741 E6	19.2#	77	-0.01
18	tc	4,4'-DDD	17.994	17.760 E6	1.3	95	0.00
19	tcm	4,4'-DDT	19.138	19.404 E6	-1.4	97	0.00
22	tc	Methoxychlor	9.313	8.665 E6	7.0	92	0.00
25	S	SURR2,Decachlorobiphenyl	17.465	16.959 E6	2.9	98	-0.01

Signal #2

1	S	SURR1,Tetrac	80.920	79.402 E6	1.9	99	0.00
3	tc	alpha-BHC	118.675	119.780 E6	-0.9	100	0.00
4	tcm	gamma-BHC (L	105.076	106.670 E6	-1.5	100	0.00
5	tcm	Heptachlor	100.362	99.587 E6	0.8	101	-0.01
10	tc	alpha-Endosu	70.973	71.982 E6	-1.4	101	-0.01
14	tcm	Dieldrin	78.244	78.785 E6	-0.7	101	-0.01
15	tcm	Endrin	67.355	57.185 E6	15.1#	84	-0.02
18	tc	4,4'-DDD	62.240	60.445 E6	2.9	96	-0.01
19	tcm	4,4'-DDT	65.507	65.077 E6	0.7	98	-0.01
22	tc	Methoxychlor	29.053	29.388 E6	-1.2	102	-0.01
25	S	SURR2,Decachlorobiphenyl	55.075	57.084 E6	-3.6	105	-0.01

Evaluate Continuing Calibration Report - Not Founds

2	TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6	tcm	Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:23 pm
Operator : M.PEDRO
Sample : ccv13a
Misc : indamh
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:11:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.44	9.32	762.2E6	3176.1E6	37.769	39.249
Spiked Amount 100.000	Range 30 - 150		Recovery =		37.77%	39.25%
25) S SURR2,Decachloro	17.60	17.84	1356.7E6	4566.7E6	77.682	82.917
Spiked Amount 100.000	Range 30 - 150		Recovery =		77.68%	82.92%
Target Compounds						
3) tc alpha-BHC	10.44	10.39	1214.7E6	4791.2E6	39.290	40.373
4) tcm gamma-BHC (L	10.96	10.97	1101.1E6	4266.8E6	39.036	40.607
5) tcm Heptachlor	11.72	11.63	1089.6E6	3983.5E6	38.991	39.691
10) tc alpha-Endosu	13.67	13.50	814.2E6	2879.3E6	39.793	40.569
14) tcm Dieldrin	14.02	13.90	1844.5E6	6302.8E6	80.748	80.553
15) tcm Endrin	14.37	14.34	1339.3E6	4574.8E6	64.639	67.920
18) tc 4,4'-DDD	14.45	14.49	1420.8E6	4835.6E6	78.962	77.693
19) tcm 4,4'-DDT	14.86	14.95	1552.3E6	5206.2E6	81.115	79.475
22) tc Methoxychlor	15.56	15.92	3465.9E6	11755.0E6	372.163	404.602
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

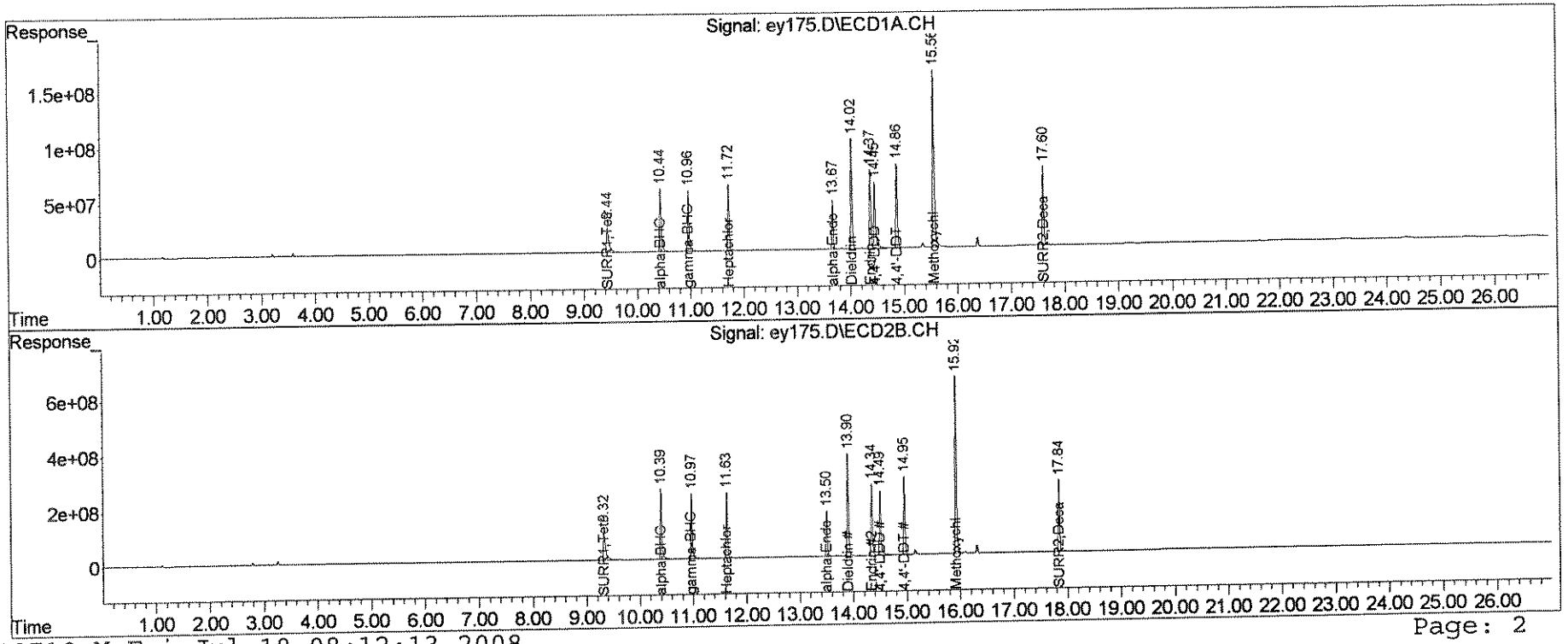
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:23 pm
Operator : M.PEDRO
Sample : ccv13a
Misc : indamh
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:11:47 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey176.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:58 pm
Operator : M.PEDRO
Sample : ccv13b
Misc : indbmh
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:13:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	19.182 E6	5.0	93	0.00
6	tcm	Aldrin	24.759	24.696 E6	0.3	96	0.00
7	tc	beta-BHC	11.483	10.960 E6	4.6	95	0.00
8	TC	delta-BHC	27.198	25.909 E6	4.7	91	0.00
9	tc	Heptachlor E	22.762	22.436 E6	1.4	97	0.00
11	tc	gamma-Chlord	21.924	22.060 E6	-0.6	98	0.00
12	tc	alpha-Chlord	21.387	21.353 E6	0.2	98	0.00
13	tc	4,4'-DDE	21.781	20.791 E6	4.5	92	0.00
17	tc	beta-Endosul	18.589	18.922 E6	-1.8	100	0.00
20	tc	Endrin Aldeh	14.678	13.975 E6	4.8	94	0.00
21	tc	Endosulfan S	16.846	16.897 E6	-0.3	99	-0.01
24	tc	Endrin Keton	19.363	19.500 E6	-0.7	99	0.00
25	S	SURR2,Decachlorobiphenyl	17.465	17.244 E6	1.3	99	0.00
Signal #2							
1	S	SURR1,Tetrac	80.920	83.853 E6	-3.6	105	0.00
6	tcm	Aldrin	91.095	91.551 E6	-0.5	100	-0.01
7	tc	beta-BHC	45.130	44.913 E6	0.5	101	0.00
8	tc	delta-BHC	103.241	98.800 E6	4.3	94	0.00
9	tc	Heptachlor E	80.396	80.353 E6	0.1	101	-0.01
11	tc	gamma-Chlord	82.026	81.611 E6	0.5	99	-0.01
12	tc	alpha-Chlord	77.670	77.682 E6	-0.0	100	-0.01
13	tc	4,4'-DDE	76.653	73.223 E6	4.5	95	0.00
17	tc	beta-Endosul	64.198	64.181 E6	0.0	101	-0.01
20	tc	Endrin Aldeh	49.048	46.401 E6	5.4	95	-0.01
21	tc	Endosulfan S	57.148	57.359 E6	-0.4	101	-0.01
24	tc	Endrin Keton	62.732	64.234 E6	-2.4	102	-0.01
25	S	SURR2,Decachlorobiphenyl	55.075	57.354 E6	-4.1	105	-0.01

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey176.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:58 pm
Operator : M.PEDRO
Sample : ccv13b
Misc : indbmh
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:13:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	SURR1,Tetrac	9.44	9.32	767.3E6	3354.1E6	38.020	41.450
	Spiked Amount 100.000	Range 30 - 150		Recovery =		38.02%	41.45%
25) S	SURR2,Decachloro	17.61	17.85	1379.5E6	4588.3E6	78.984	83.309
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.98%	83.31%
	Target Compounds						
6) tcm	Aldrin	12.18	12.10	987.9E6	3662.0E6	39.899	40.200
7) tc	beta-BHC	11.13	11.12	438.4E6	1796.5E6	38.179	39.807
8) tc	delta-BHC	11.40	11.56	1036.4E6	3952.0E6	38.104	38.280
9) tc	Heptachlor E	13.09	12.94	897.4E6	3214.1E6	39.427	39.978
11) tc	gamma-Chlord	13.27	13.22	882.4E6	3264.4E6	40.249	39.798
12) tc	alpha-Chlord	13.47	13.43	854.1E6	3107.3E6	39.935	40.006
13) tc	4,4'-DDE	13.58	13.67	1663.3E6	5857.8E6	76.364	76.420
17) tc	beta-Endosul	14.71	14.65	1513.8E6	5134.5E6	81.436	79.980
20) tc	Endrin Aldeh	15.34	15.15	1118.0E6	3712.1E6	76.167	75.683
21) tc	Endosulfan S	15.98	15.55	1351.8E6	4588.7E6	80.241	80.296
24) tc	Endrin Keton	16.37	16.31	1560.0E6	5138.7E6	80.566	81.916
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

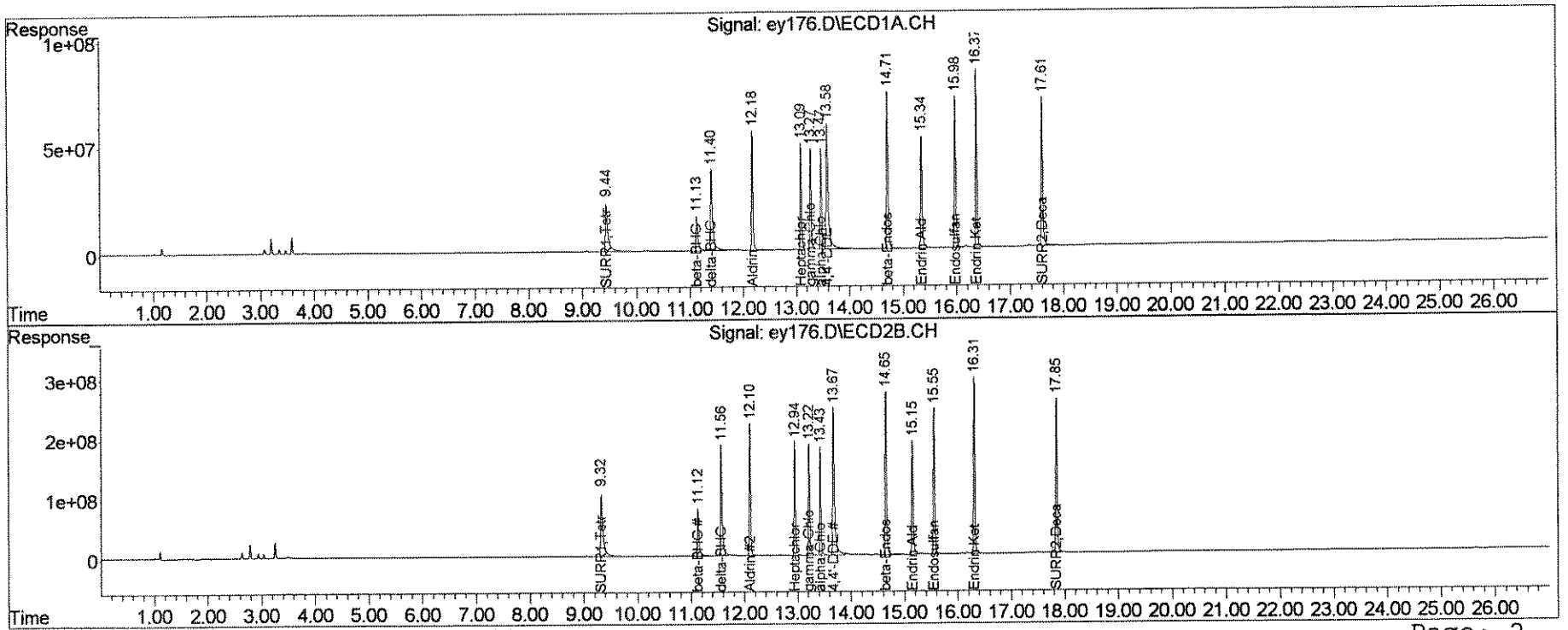
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey176.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 11:58 pm
Operator : M.PEDRO
Sample : ccv13b
Misc : indbmh
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:13:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: STx-CLPII
Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey180.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:02 am
Operator : M.PEDRO
Sample : ccv15a
Misc : indamh
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:40:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	21.339 E6	-5.7	103	0.00
3	tc	alpha-BHC	30.916	33.665 E6	-8.9	103	0.00
4	tcm	gamma-BHC (L	28.206	30.149 E6	-6.9	103	0.00
5	tcm	Heptachlor	27.944	29.615 E6	-6.0	103	0.00
10	tc	alpha-Endosu	20.460	21.929 E6	-7.2	104	0.00
14	tcm	Dieldrin	22.843	24.812 E6	-8.6	104	-0.01
15	tcm	Endrin	20.719	22.342 E6	-7.8	103	-0.01
18	tc	4,4'-DDD	17.994	19.735 E6	-9.7	106	0.00
19	tcm	4,4'-DDT	19.138	21.128 E6	-10.4	105	0.00
22	tc	Methoxychlor	9.313	9.616 E6	-3.3	102	0.00
25	S	SURR2,Decachlorobiphenyl	17.465	18.020 E6	-3.2	104	0.00

Signal #2

1	S	SURR1,Tetrac	80.920	87.348 E6	-7.9	109	-0.01
3	tc	alpha-BHC	118.675	127.447 E6	-7.4	106	-0.01
4	tcm	gamma-BHC (L	105.076	111.418 E6	-6.0	104	-0.01
5	tcm	Heptachlor	100.362	105.685 E6	-5.3	107	-0.01
10	tc	alpha-Endosu	70.973	76.816 E6	-8.2	108	-0.02
14	tcm	Dieldrin	78.244	85.363 E6	-9.1	109	-0.02
15	tcm	Endrin	67.355	76.471 E6	-13.5	113	-0.02
18	tc	4,4'-DDD	62.240	66.535 E6	-6.9	106	-0.01
19	tcm	4,4'-DDT	65.507	71.002 E6	-8.4	106	-0.02
22	tc	Methoxychlor	29.053	31.225 E6	-7.5	109	-0.02
25	S	SURR2,Decachlorobiphenyl	55.075	60.218 E6	-9.3	111	-0.02

Evaluate Continuing Calibration Report - Not Founds

2	TC	HEXACHLOROBENZENE	29.386	0.000 E6	100.0#	0#	-10.13#
6	tcm	Aldrin	24.759	0.000 E6	100.0#	0#	-12.18#

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey180.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:02 am
Operator : M.PEDRO
Sample : ccv15a
Misc : indamh
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:40:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.31	853.6E6	3493.9E6	42.296	43.178
Spiked Amount 100.000	Range 30 - 150		Recovery =		42.30%	43.18%
25) S SURR2,Decachloro	17.61	17.84	1441.6E6	4817.5E6	82.540	87.470
Spiked Amount 100.000	Range 30 - 150		Recovery =		82.54%	87.47%
Target Compounds						
3) tc alpha-BHC	10.44	10.39	1346.6E6	5097.9E6	43.557	42.957
4) tcm gamma-BHC (L	10.96	10.96	1205.9E6	4456.7E6	42.755	42.414
5) tcm Heptachlor	11.72	11.63	1184.6E6	4227.4E6	42.392	42.122
10) tc alpha-Endosu	13.67	13.50	877.2E6	3072.7E6	42.873	43.293
14) tcm Dieldrin	14.02	13.90	1985.0E6	6829.0E6	86.896	87.278
15) tcm Endrin	14.37	14.34	1787.4E6	6117.7E6	86.268	90.826
18) tc 4,4'-DDD	14.45	14.49	1578.8E6	5322.8E6	87.744	85.522
19) tcm 4,4'-DDT	14.86	14.94	1690.3E6	5680.1E6	88.322	86.710
22) tc Methoxychlor	15.56	15.92	3846.3E6	12490.0E6	413.016	429.898
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

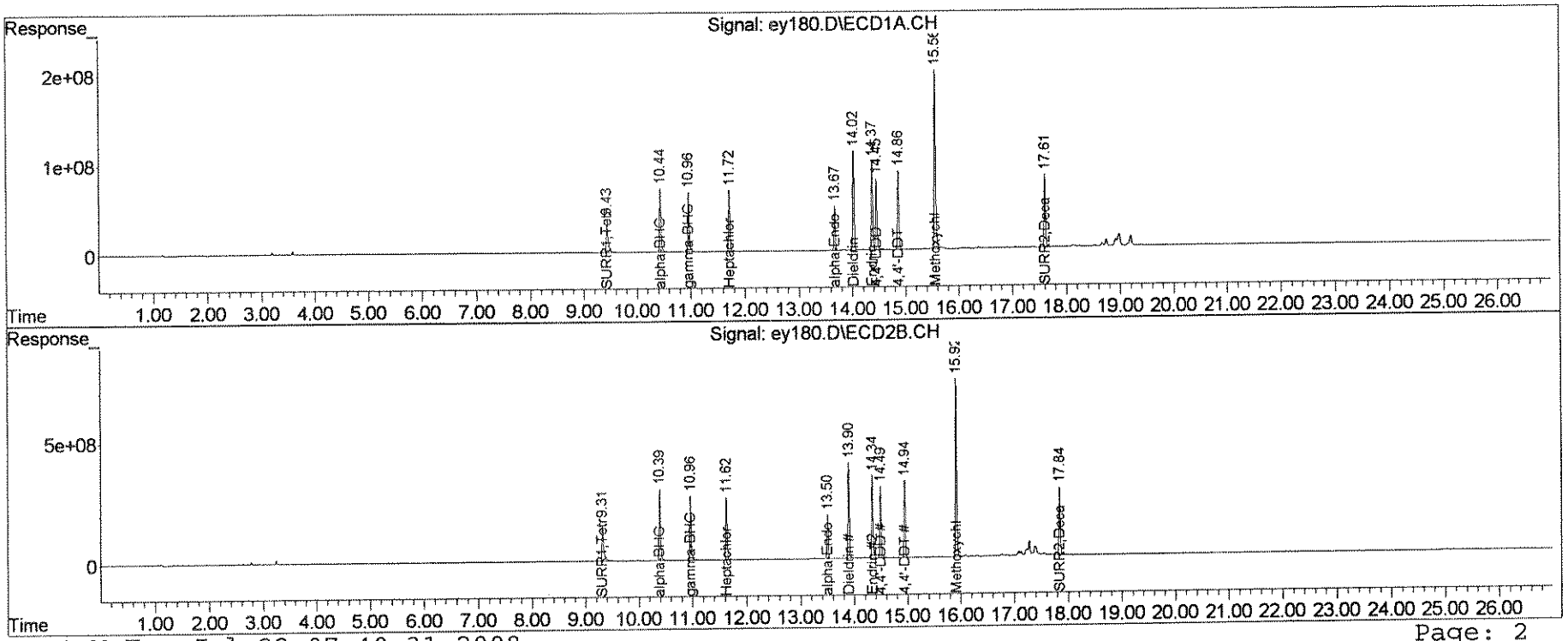
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey180.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:02 am
Operator : M.PEDRO
Sample : ccv15a
Misc : indamh
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:40:06 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Evaluate Continuing Calibration Report

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey181.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:37 am
Operator : M.PEDRO
Sample : ccv15b
Misc : indbmh
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:41:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	SURR1,Tetrac	20.181	21.715 E6	-7.6	105	0.00
6	tcm	Aldrin	24.759	27.234 E6	-10.0	106	-0.01
7	tc	beta-BHC	11.483	12.183 E6	-6.1	106	0.00
8	TC	delta-BHC	27.198	29.498 E6	-8.5	103	0.00
9	tc	Heptachlor E	22.762	24.430 E6	-7.3	106	-0.01
11	tc	gamma-Chlord	21.924	23.835 E6	-8.7	106	-0.01
12	tc	alpha-Chlord	21.387	23.263 E6	-8.8	107	-0.01
13	tc	4,4'-DDE	21.781	23.538 E6	-8.1	105	0.00
17	tc	beta-Endosul	18.589	20.408 E6	-9.8	107	-0.01
20	tc	Endrin Aldeh	14.678	15.682 E6	-6.8	105	-0.01
21	tc	Endosulfan S	16.846	18.338 E6	-8.9	107	-0.01
24	tc	Endrin Keton	19.363	21.297 E6	-10.0	108	-0.01
25	S	SURR2,Decachlorobiphenyl	17.465	18.525 E6	-6.1	107	-0.01
Signal #2							
1	S	SURR1,Tetrac	80.920	90.429 E6	-11.8	113	0.00
6	tcm	Aldrin	91.095	98.495 E6	-8.1	108	-0.01
7	tc	beta-BHC	45.130	47.333 E6	-4.9	107	0.00
8	tc	delta-BHC	103.241	109.379 E6	-5.9	104	0.00
9	tc	Heptachlor E	80.396	86.022 E6	-7.0	109	-0.02
11	tc	gamma-Chlord	82.026	88.285 E6	-7.6	107	-0.01
12	tc	alpha-Chlord	77.670	84.329 E6	-8.6	108	-0.02
13	tc	4,4'-DDE	76.653	82.861 E6	-8.1	108	-0.01
17	tc	beta-Endosul	64.198	68.216 E6	-6.3	108	-0.02
20	tc	Endrin Aldeh	49.048	51.493 E6	-5.0	106	-0.02
21	tc	Endosulfan S	57.148	61.539 E6	-7.7	108	-0.02
24	tc	Endrin Keton	62.732	68.794 E6	-9.7	109	-0.02
25	S	SURR2,Decachlorobiphenyl	55.075	60.871 E6	-10.5	112	-0.02

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey181.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:37 am
Operator : M.PEDRO
Sample : ccv15b
Misc : indbmh
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:41:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tetrac	9.43	9.32	868.6E6	3617.2E6	43.040	44.701
Spiked Amount 100.000	Range 30 - 150		Recovery =		43.04%	44.70%
25) S SURR2,Decachloro	17.60	17.84	1482.0E6	4869.6E6	84.852	88.418
Spiked Amount 100.000	Range 30 - 150		Recovery =		84.85%	88.42%
Target Compounds						
6) tcm Aldrin	12.17	12.10	1089.4E6	3939.8E6	43.999	43.249
7) tc beta-BHC	11.12	11.11	487.3E6	1893.3E6	42.440	41.953
8) tc delta-BHC	11.40	11.56	1179.9E6	4375.2E6	43.381	42.378
9) tc Heptachlor E	13.09	12.94	977.2E6	3440.9E6	42.932	42.799
11) tc gamma-Chlord	13.27	13.21	953.4E6	3531.4E6	43.486	43.052
12) tc alpha-Chlord	13.47	13.42	930.5E6	3373.2E6	43.508	43.429
13) tc 4,4'-DDE	13.58	13.67	1883.1E6	6628.8E6	86.454	86.479
17) tc beta-Endosul	14.71	14.65	1632.7E6	5457.3E6	87.831	85.008
20) tc Endrin Aldeh	15.34	15.14	1254.5E6	4119.4E6	85.470	83.988
21) tc Endosulfan S	15.98	15.55	1467.0E6	4923.1E6	87.082	86.148
24) tc Endrin Keton	16.37	16.30	1703.7E6	5503.6E6	87.989	87.731
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

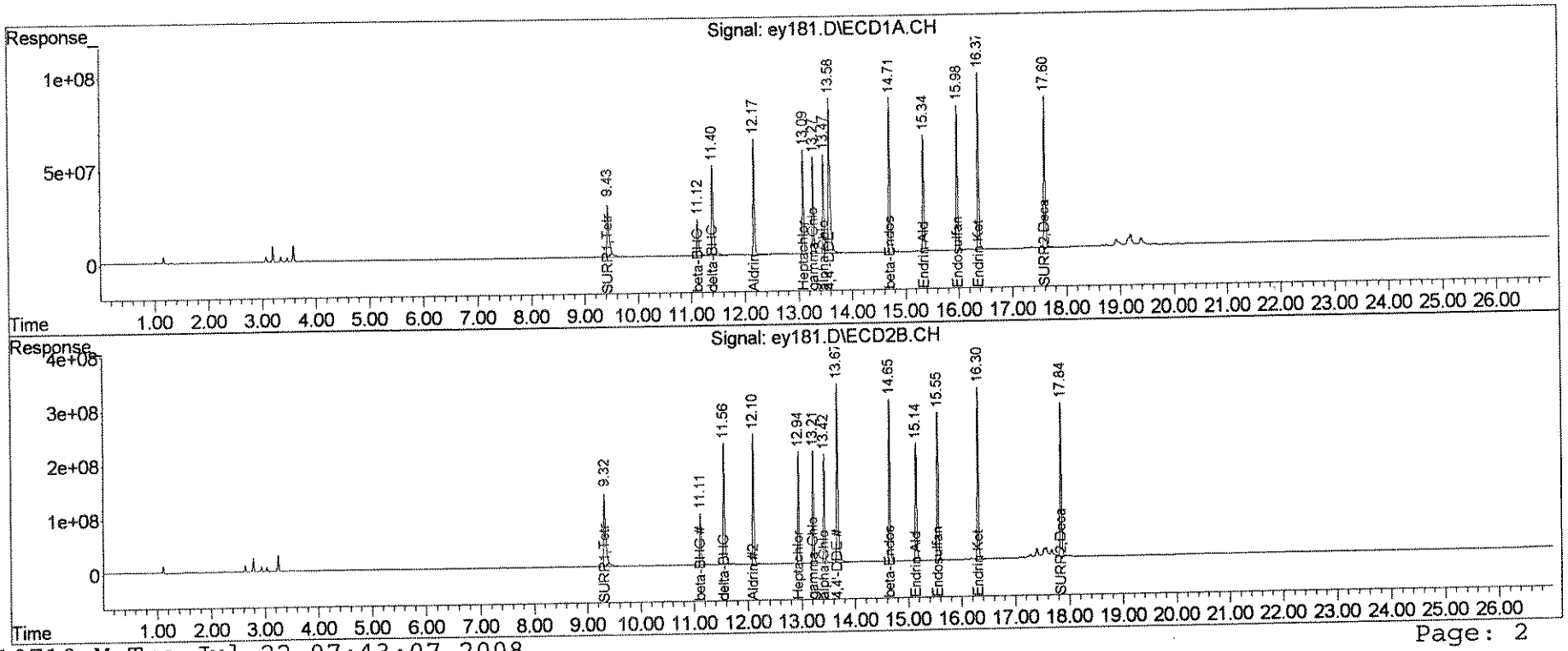
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\072108\
Data File : ey181.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Jul 2008 8:37 am
Operator : M.PEDRO
Sample : ccv15b
Misc : indbmh
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 22 07:41:12 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



10A

Pesticide Identification Summary
For Single Component Analytes

NYSDEC Sample No.
M-55B

Lab Name: **Columbia Analytical Services** *Contract:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114419 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Heptachlor E	*1*	13.07	13.03	13.17	0.15	
	2	12.98	12.89	13.03	0.18	22.54

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-55DB

Lab Name: **Columbia Analytical Services** *Contract:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114420 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

Analyte	*Column*	*RT*	*RT Window From*	*RT Window To*	*Concentration*	*%RPD*
Heptachlor E	*1*	13.07	13.03	13.17	0.05	
	2	12.98	12.89	13.03	0.07	23.90

10A

Pesticide Identification Summary
For Single Component Analytes

NYSDEC Sample No.

M-78B

Lab Name: **Columbia Analytical Services** *Contract:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114421 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Heptachlor E	*1*	13.07	13.03	13.17	0.08	
	2	12.98	12.89	13.03	0.10	25.26

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-65B

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114756 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
alpha-BHC	*1*	10.43	10.39	10.49	0.13	
	2	10.39	10.35	10.45	0.13	3.47
Heptachlor E	*1*	13.07	13.03	13.17	0.33	
	2	12.98	12.89	13.03	0.38	13.43

10A

Pesticide Identification Summary
For Single Component Analytes

NYSDEC Sample No.

M-65B

Lab Name: **Columbia Analytical Services** *Contract:* ENSR

Lab Code: **10145** *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114756 2.0 *Date anlyzed:* 7/21/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
alpha-BHC	*1*	10.43	10.39	10.49	0.18	
	2	10.39	10.35	10.45	0.17	4.23
Heptachlor E	*1*	13.07	13.03	13.17	0.47	
	2	12.98	12.89	13.03	0.54	13.31

10A

Pesticide Identification Summary
For Single Component Analytes

NYSDEC Sample No.

EB070208GW1

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1114758 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

Analyte	Column	RT	RT Window From	RT Window To	Concentration	%RPD
alpha-Endosu	1	13.68	13.61	13.75	0.10	
	2	13.52	13.45	13.59	0.10	0.20
delta-BHC	1	11.41	11.35	11.45	0.09	
	2	11.54	11.51	11.61	0.07	30.18
Heptachlor E	1	13.07	13.03	13.17	0.22	
	2	12.98	12.89	13.03	0.28	20.56

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

PBLK1MS

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118498 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
4,4'-DDD	*1*	14.45	14.39	14.53	0.18	
	2	14.49	14.43	14.57	0.20	13.09
4,4'-DDE	*1*	13.57	13.51	13.65	0.17	
	2	13.67	13.61	13.75	0.19	12.47
4,4'-DDT	*1*	14.86	14.80	14.94	0.18	
	2	14.95	14.89	15.03	0.20	8.79
Aldrin	*1*	12.17	12.13	12.23	0.15	
	2	12.10	12.07	12.17	0.16	5.39
alpha-BHC	*1*	10.43	10.39	10.49	0.18	
	2	10.39	10.35	10.45	0.19	5.98
alpha-Chlord	*1*	13.47	13.41	13.55	0.18	
	2	13.42	13.37	13.51	0.19	2.71
alpha-Endosu	*1*	13.67	13.61	13.75	0.18	
	2	13.50	13.45	13.59	0.20	8.75
beta-BHC	*1*	11.12	11.07	11.17	0.21	
	2	11.12	11.07	11.17	0.21	3.34
beta-Endosul	*1*	14.71	14.65	14.79	0.18	
	2	14.65	14.59	14.73	0.21	15.30
delta-BHC	*1*	11.40	11.35	11.45	0.19	
	2	11.56	11.51	11.61	0.18	5.17
Dieldrin	*1*	14.02	13.96	14.10	0.18	
	2	13.90	13.84	13.98	0.21	13.90

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

PBLK1MS

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118498 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Endosulfan S	*1*	15.98	15.92	16.06	0.18	
	2	15.55	15.50	15.64	0.20	8.65
Endrin	*1*	14.37	14.31	14.45	0.18	
	2	14.34	14.29	14.43	0.20	9.83
Endrin Aldeh	*1*	15.34	15.28	15.42	0.15	
	2	15.15	15.09	15.23	0.19	21.70
Endrin Keton	*1*	16.37	16.31	16.45	0.19	
	2	16.31	16.25	16.39	0.20	6.61
gamma-BHC (L	*1*	10.96	10.92	11.02	0.18	
	2	10.96	10.92	11.02	0.20	9.26
gamma-Chlord	*1*	13.27	13.21	13.35	0.18	
	2	13.22	13.16	13.30	0.20	5.80
Heptachlor	*1*	11.72	11.68	11.78	0.17	
	2	11.63	11.59	11.69	0.18	7.06
Heptachlor E	*1*	13.09	13.03	13.17	0.18	
	2	12.94	12.89	13.03	0.19	5.45
HEXACHLOROBE	*1*	10.13	10.06	10.20	0.39	
	2	10.14	10.07	10.21	0.39	2.10
Methoxychlor	*1*	15.55	15.50	15.64	1.06	
	2	15.92	15.86	16.00	1.17	10.19

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118499 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
4,4'-DDD	*1*	14.45	14.39	14.53	0.18	
	2	14.49	14.43	14.57	0.21	14.99
4,4'-DDE	*1*	13.58	13.51	13.65	0.17	
	2	13.67	13.61	13.75	0.20	16.09
4,4'-DDT	*1*	14.86	14.80	14.94	0.18	
	2	14.95	14.89	15.03	0.20	9.75
Aldrin	*1*	12.17	12.13	12.23	0.15	
	2	12.10	12.07	12.17	0.17	10.17
alpha-BHC	*1*	10.43	10.39	10.49	0.18	
	2	10.39	10.35	10.45	0.19	9.69
alpha-Chlord	*1*	13.47	13.41	13.55	0.18	
	2	13.43	13.37	13.51	0.20	6.51
alpha-Endosu	*1*	13.67	13.61	13.75	0.19	
	2	13.50	13.45	13.59	0.21	11.42
beta-BHC	*1*	11.12	11.07	11.17	0.19	
	2	11.12	11.07	11.17	0.21	7.70
beta-Endosul	*1*	14.71	14.65	14.79	0.18	
	2	14.65	14.59	14.73	0.22	15.29
delta-BHC	*1*	11.40	11.35	11.45	0.18	
	2	11.56	11.51	11.61	0.19	2.73
Dieldrin	*1*	14.02	13.96	14.10	0.19	
	2	13.90	13.84	13.98	0.22	15.57

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

PBLK1MSD

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118499 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Endosulfan S	*1*	15.98	15.92	16.06	0.19	
	2	15.55	15.50	15.64	0.21	8.73
Endrin	*1*	14.37	14.31	14.45	0.19	
	2	14.34	14.29	14.43	0.21	11.95
Endrin Aldeh	*1*	15.34	15.28	15.42	0.15	
	2	15.15	15.09	15.23	0.17	13.83
Endrin Keton	*1*	16.37	16.31	16.45	0.20	
	2	16.31	16.25	16.39	0.21	7.44
gamma-BHC (L	*1*	10.96	10.92	11.02	0.18	
	2	10.96	10.92	11.02	0.21	15.00
gamma-Chlord	*1*	13.27	13.21	13.35	0.19	
	2	13.22	13.16	13.30	0.20	9.25
Heptachlor	*1*	11.72	11.68	11.78	0.16	
	2	11.63	11.59	11.69	0.19	14.31
Heptachlor E	*1*	13.09	13.03	13.17	0.18	
	2	12.94	12.89	13.03	0.22	17.87
HEXACHLOROBE	*1*	10.13	10.06	10.20	0.39	
	2	10.14	10.07	10.21	0.41	4.18
Methoxychlor	*1*	15.56	15.50	15.64	1.09	
	2	15.92	15.86	16.00	1.21	10.63

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-78B MS

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118500 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
4,4'-DDD	*1*	14.44	14.39	14.53	0.09	
	2	14.49	14.43	14.57	0.09	6.70
4,4'-DDE	*1*	13.57	13.51	13.65	0.08	
	2	13.67	13.61	13.75	0.09	9.26
4,4'-DDT	*1*	14.86	14.80	14.94	0.09	
	2	14.95	14.89	15.03	0.09	4.14
Aldrin	*1*	12.17	12.13	12.23	0.07	
	2	12.10	12.07	12.17	0.07	7.56
alpha-BHC	*1*	10.43	10.39	10.49	0.09	
	2	10.39	10.35	10.45	0.09	0.90
alpha-Chlord	*1*	13.46	13.41	13.55	0.08	
	2	13.42	13.37	13.51	0.09	2.22
alpha-Endosu	*1*	13.67	13.61	13.75	0.08	
	2	13.50	13.45	13.59	0.09	8.28
beta-BHC	*1*	11.12	11.07	11.17	0.09	
	2	11.11	11.07	11.17	0.09	0.22
beta-Endosul	*1*	14.70	14.65	14.79	0.09	
	2	14.65	14.59	14.73	0.10	14.03
delta-BHC	*1*	11.39	11.35	11.45	0.09	
	2	11.55	11.51	11.61	0.09	5.42
Dieldrin	*1*	14.02	13.96	14.10	0.09	
	2	13.90	13.84	13.98	0.10	13.10

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-78B MS

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118500 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Endosulfan S	*1*	15.98	15.92	16.06	0.09	
	2	15.55	15.50	15.64	0.09	8.16
Endrin	*1*	14.37	14.31	14.45	0.09	
	2	14.34	14.29	14.43	0.10	8.93
Endrin Aldeh	*1*	15.34	15.28	15.42	0.04	
	2	15.14	15.09	15.23	0.05	23.66
Endrin Keton	*1*	16.37	16.31	16.45	0.09	
	2	16.31	16.25	16.39	0.10	7.25
gamma-BHC (L	*1*	10.96	10.92	11.02	0.08	
	2	10.96	10.92	11.02	0.09	0.74
gamma-Chlord	*1*	13.27	13.21	13.35	0.09	
	2	13.21	13.16	13.30	0.09	6.14
Heptachlor	*1*	11.71	11.68	11.78	0.07	
	2	11.63	11.59	11.69	0.08	6.97
Heptachlor E	*1*	13.08	13.03	13.17	0.11	
	2	12.94	12.89	13.03	0.09	17.44
HEXACHLOROBE	*1*	10.12	10.06	10.20	0.18	
	2	10.13	10.07	10.21	0.17	7.70
Methoxychlor	*1*	15.55	15.50	15.64	0.52	
	2	15.92	15.86	16.00	0.56	6.90

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-78B MSD

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118501 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

			RT Window			
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
4,4'-DDD	*1*	14.44	14.39	14.53	0.09	
	2	14.49	14.43	14.57	0.10	5.00
4,4'-DDE	*1*	13.57	13.51	13.65	0.08	
	2	13.67	13.61	13.75	0.09	9.39
4,4'-DDT	*1*	14.86	14.80	14.94	0.09	
	2	14.95	14.89	15.03	0.10	9.10
Aldrin	*1*	12.17	12.13	12.23	0.07	
	2	12.10	12.07	12.17	0.08	8.17
alpha-BHC	*1*	10.43	10.39	10.49	0.09	
	2	10.39	10.35	10.45	0.09	1.02
alpha-Chlord	*1*	13.46	13.41	13.55	0.09	
	2	13.42	13.37	13.51	0.09	2.28
alpha-Endosu	*1*	13.67	13.61	13.75	0.09	
	2	13.50	13.45	13.59	0.10	6.67
beta-BHC	*1*	11.12	11.07	11.17	0.09	
	2	11.11	11.07	11.17	0.09	2.28
beta-Endosul	*1*	14.70	14.65	14.79	0.09	
	2	14.65	14.59	14.73	0.10	15.29
delta-BHC	*1*	11.39	11.35	11.45	0.09	
	2	11.56	11.51	11.61	0.09	5.26
Dieldrin	*1*	14.02	13.96	14.10	0.09	
	2	13.90	13.84	13.98	0.11	15.82

10A

Pesticide Identification Summary For Single Component Analytes

NYSDEC Sample No.

M-78B MSD

Lab Name: Columbia Analytical Services *Contract:* ENSR

Lab Code: 10145 *Case.No.:* R2844803 *SAS No.:* _____ *SDG No.:* M-55B

Lab Sample ID 1118501 1.0 *Date anlyzed:* 7/17/2008

Instrument ID: 6890D *Instrument ID:* 6890D

GC Column(1) STx-CLP *(ID)* 0.32mm 30m *GC Column(2)* STx-CLPII *(ID)* 0.32mm 30m

		RT Window				
Analyte	*Column*	*RT*	*From*	*To*	*Concentration*	*%RPD*
Endosulfan S	*1*	15.98	15.92	16.06	0.09	
	2	15.55	15.50	15.64	0.10	7.21
Endrin	*1*	14.37	14.31	14.45	0.09	
	2	14.34	14.29	14.43	0.09	1.07
Endrin Aldeh	*1*	15.34	15.28	15.42	0.05	
	2	15.14	15.09	15.23	0.05	15.33
Endrin Keton	*1*	16.37	16.31	16.45	0.09	
	2	16.31	16.25	16.39	0.11	10.87
gamma-BHC (L	*1*	10.96	10.92	11.02	0.09	
	2	10.96	10.92	11.02	0.09	1.14
gamma-Chlord	*1*	13.27	13.21	13.35	0.09	
	2	13.22	13.16	13.30	0.10	6.41
Heptachlor	*1*	11.71	11.68	11.78	0.08	
	2	11.63	11.59	11.69	0.08	6.15
Heptachlor E	*1*	13.08	13.03	13.17	0.17	
	2	12.94	12.89	13.03	0.09	57.83
HEXACHLOROBE	*1*	10.12	10.06	10.20	0.19	
	2	10.13	10.07	10.21	0.18	8.42
Methoxychlor	*1*	15.55	15.50	15.64	0.54	
	2	15.92	15.86	16.00	0.59	9.19

PESTICIDES

RAW QC DATA

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 08/07/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1118497 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.050	0.050 U	UG/L
ALPHA-BHC	0.050	0.050 U	UG/L
BETA-BHC	0.050	0.050 U	UG/L
GAMMA-BHC	0.050	0.050 U	UG/L
DELTA-BHC	0.050	0.050 U	UG/L
ALPHA-CHLORDANE	0.050	0.050 U	UG/L
GAMMA-CHLORDANE	0.050	0.050 U	UG/L
CHLORDANE	0.25	0.25 U	UG/L
4,4'-DDE	0.050	0.050 U	UG/L
4,4'-DDT	0.050	0.050 U	UG/L
DIELDRIN	0.10	0.10 U	UG/L
ALPHA-ENDOSULFAN	0.050	0.050 U	UG/L
BETA-ENDOSULFAN	0.10	0.10 U	UG/L
ENDOSULFAN SULFATE	0.10	0.10 U	UG/L
ENDRIN	0.050	0.050 U	UG/L
ENDRIN ALDEHYDE	0.10	0.10 U	UG/L
ENDRIN KETONE	0.10	0.10 U	UG/L
HEPTACHLOR	0.050	0.050 U	UG/L
HEPTACHLOR EPOXIDE	0.050	0.050 U	UG/L
HEXACHLOROBENZENE	0.050	0.050 U	UG/L
METHOXYCHLOR	0.50	0.50 U	UG/L
4,4'-TDE (DDD)	0.050	0.050 U	UG/L
TOXAPHENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	81	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	76	%

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY162.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:40 pm
Operator : M.PEDRO
Sample : 1118497 1.0
Misc : 07/03/08 200 8081 blk
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1528.5E6	5706.4E6	75.742	70.519	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		75.74%	70.52%	
25)	S SURR2,Decachloro	17.60	17.85	1297.9E6	4478.4E6	74.312	81.314	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		74.31%	81.31%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	0.00	53759277	0	1.829	N.D.	#
3)	tc alpha-BHC	0.00	10.40	0	152.0E6	N.D.	1.280	#
5)	tcm Heptachlor	11.71	0.00	49319755	0	1.765	N.D.	#
7)	tc beta-BHC	11.10	0.00	38003459	0	3.310	N.D.	#
8)	tc delta-BHC	11.40	11.56	54527376	162.0E6	2.005	1.570	
9)	tc Heptachlor E	13.08	12.95	53558496	214.3E6	2.353	2.666	
10)	tc alpha-Endosu	0.00	13.52	0	123.5E6	N.D.	1.740	#
11)	tc gamma-Chlord	0.00	13.21	0	195.7E6	N.D.	2.385	#
12)	tc alpha-Chlord	13.50	0.00	51943717	0	2.429	N.D.	#
13)	tc 4,4'-DDE	13.56	13.70	51293083	197.3E6	2.355	2.573	
14)	tcm Dieldrin	0.00	13.91	0	113.0E6	N.D.	1.444	#
15)	tcm Endrin	14.40	14.34	59632014	63671282	2.878	0.945	#
17)	tc beta-Endosul	14.74	14.66	12436804	123.8E6	0.669	1.928	#
18)	tc 4,4'-DDD	14.47	0.00	7732346	0	0.430	N.D.	#
19)	tcm 4,4'-DDT	0.00	14.95	0	211.8E6	N.D.	3.234	#
20)	tc Endrin Aldeh	15.36	0.00	32651016	0	2.224	N.D.	#
21)	tc Endosulfan S	0.00	15.58	0	6249208	N.D.	0.109	#
26)	L8C Toxaphene	14.82	14.79	55990188	81759961	140.374	42.256	#
27)	L8C Toxaphene{2}	0.00	15.08	0	35186036	N.D.	39.002	#
29)	L8C Toxaphene{4}	0.00	16.44	0	8631571	N.D.	4.481	#
30)	L8C Toxaphene{5}	16.55	16.68	17386400	15731027	26.121	6.972	#
	Sum Toxaphene			73376588	141.3E6	166.494	92.711	
Average	Toxaphene					83.247	23.178	
31)	L9C Chlordane	11.58	11.40	18605323	177.5E6	23.336	54.884	#
32)	L9C Chlordane{2}	11.71	0.00	49319755	0	43.780	N.D.	#

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY162.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:40 pm
Operator : M.PEDRO
Sample : 1118497 1.0
Misc : 07/03/08 200 8081 blk
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) L9C Chlordane{3}	0.00	12.36	0	183.9E6	N.D.	51.385 #
34) L9C Chlordane{4}	0.00	13.21	0	195.7E6	N.D.	19.526 #
Sum Chlordane			67925079	557.1E6	67.116	125.795
Average Chlordane					33.558	41.932

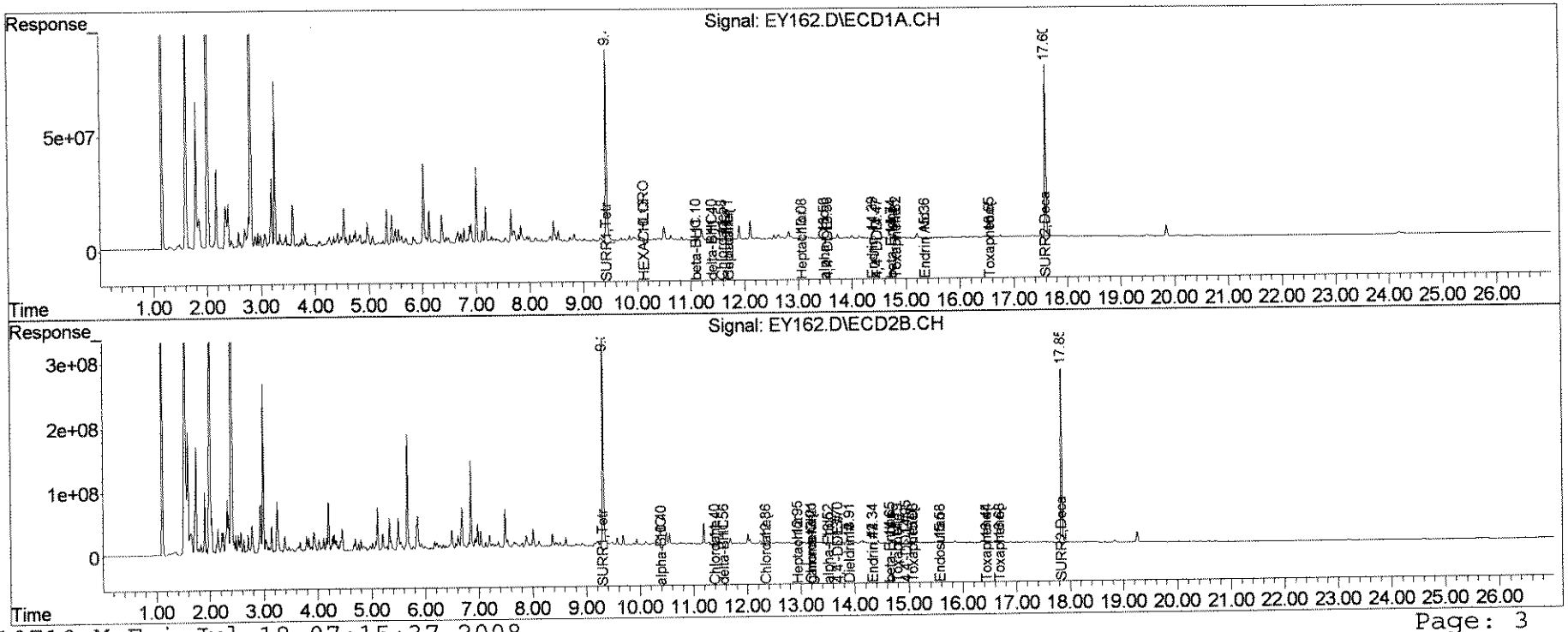
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY162.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:40 pm
Operator : M.PEDRO
Sample : 1118497 1.0
Misc : 07/03/08 200 8081 blk
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : BLANK SPIKE

Date Sampled : **Order #:** 1118498 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.16	UG/L
ALPHA-BHC	0.10	0.19	UG/L
BETA-BHC	0.10	0.21	UG/L
GAMMA-BHC	0.10	0.20	UG/L
DELTA-BHC	0.10	0.19	UG/L
ALPHA-CHLORDANE	0.10	0.19	UG/L
GAMMA-CHLORDANE	0.10	0.20	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.19	UG/L
4,4'-DDT	0.10	0.20	UG/L
DIELDRIN	0.20	0.21	UG/L
ALPHA-ENDOSULFAN	0.10	0.20	UG/L
BETA-ENDOSULFAN	0.20	0.21	UG/L
ENDOSULFAN SULFATE	0.20	0.20	UG/L
ENDRIN	0.10	0.20	UG/L
ENDRIN ALDEHYDE	0.20	0.19 J	UG/L
ENDRIN KETONE	0.20	0.20	UG/L
HEPTACHLOR	0.10	0.18	UG/L
HEPTACHLOR EPOXIDE	0.10	0.19	UG/L
HEXACHLOROBENZENE	0.10	0.39	UG/L
METHOXYCHLOR	1.0	1.2	UG/L
4,4'-TDE (DDD)	0.10	0.20	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	84	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	77	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:45:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1)	S SURR1,Tetrac	9.43	9.32	1545.0E6	6139.5E6	76.561	75.871
	Spiked Amount 100.000	Range 30 - 150		Recovery =		76.56%	75.87%
25)	S SURR2,Decachloro	17.60	17.85	1327.8E6	4605.7E6	76.026	83.626
	Spiked Amount 100.000	Range 30 - 150		Recovery =		76.03%	83.63%
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	1134.8E6	4793.3E6	38.617	39.439
3)	tc alpha-BHC	10.43	10.39	542.1E6	2208.2E6	17.534	18.607
4)	tcm gamma-BHC (L	10.96	10.96	511.5E6	2089.8E6	18.135	19.888
5)	tcm Heptachlor	11.72	11.63	461.8E6	1780.2E6	16.527	17.738
6)	tcm Aldrin	12.17	12.10	375.2E6	1456.7E6	15.154	15.991
7)	tc beta-BHC	11.12	11.12	245.0E6	931.1E6	21.334	20.633
8)	tc delta-BHC	11.40	11.56	512.3E6	1846.5E6	18.837	17.886
9)	tc Heptachlor E	13.09	12.94	410.2E6	1530.0E6	18.023	19.031m
10)	tc alpha-Endosu	13.67	13.50	373.1E6	1413.3E6	18.236	19.914
11)	tc gamma-Chlord	13.27	13.22	403.4E6	1599.9E6	18.399	19.505
12)	tc alpha-Chlord	13.47	13.42	388.9E6	1451.3E6	18.186	18.685
13)	tc 4,4'-DDE	13.57	13.67	373.5E6	1489.4E6	17.147	19.430
14)	tcm Dieldrin	14.02	13.90	422.0E6	1660.9E6	18.473	21.227
15)	tcm Endrin	14.37	14.34	380.9E6	1365.8E6	18.383	20.278
17)	tc beta-Endosul	14.71	14.65	337.7E6	1360.0E6	18.169	21.184
18)	tc 4,4'-DDD	14.45	14.49	318.7E6	1256.6E6	17.712	20.189
19)	tcm 4,4'-DDT	14.86	14.95	345.6E6	1291.6E6	18.061	19.716
20)	tc Endrin Aldeh	15.34	15.15	221.3E6	919.7E6	15.076	18.750
21)	tc Endosulfan S	15.98	15.55	307.6E6	1137.6E6	18.259	19.906
22)	tc Methoxychlor	15.55	15.92	984.4E6	3401.1E6	105.709	117.065
24)	tc Endrin Keton	16.37	16.31	365.1E6	1264.3E6	18.856	20.154
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:45:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

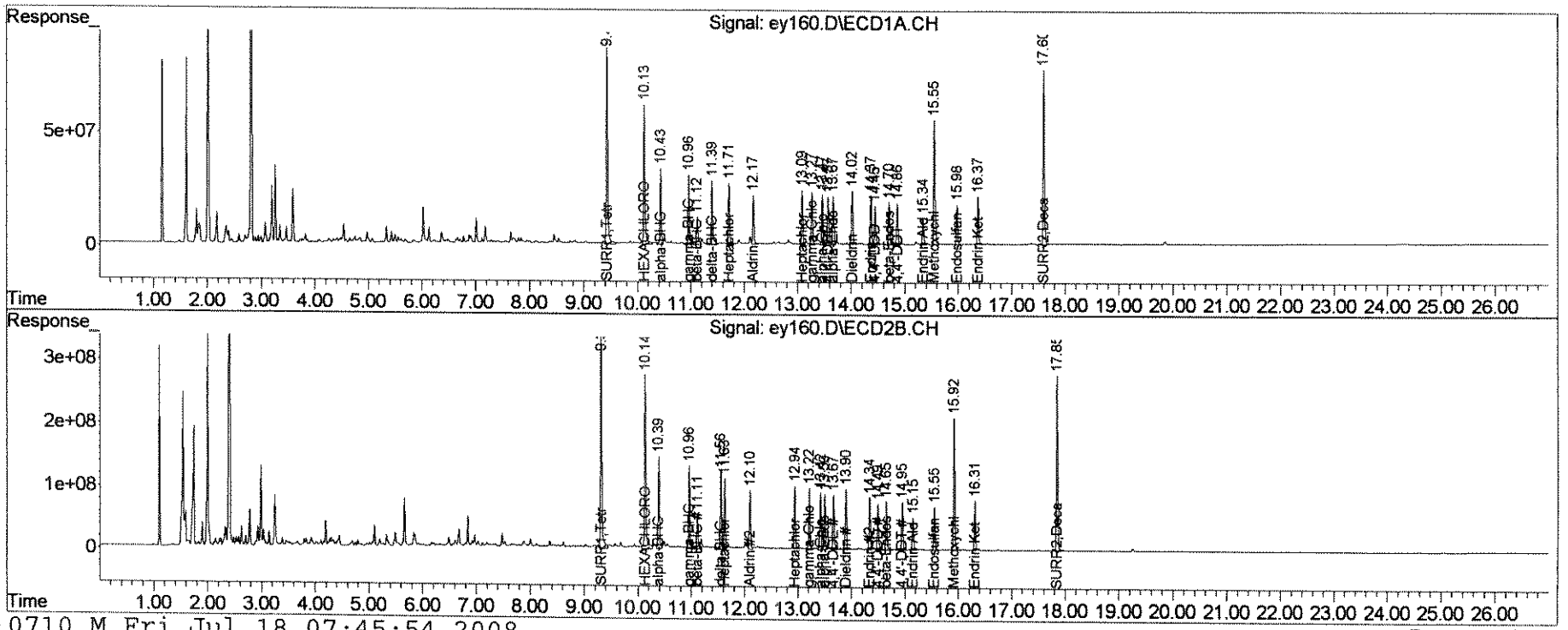
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:45:45 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

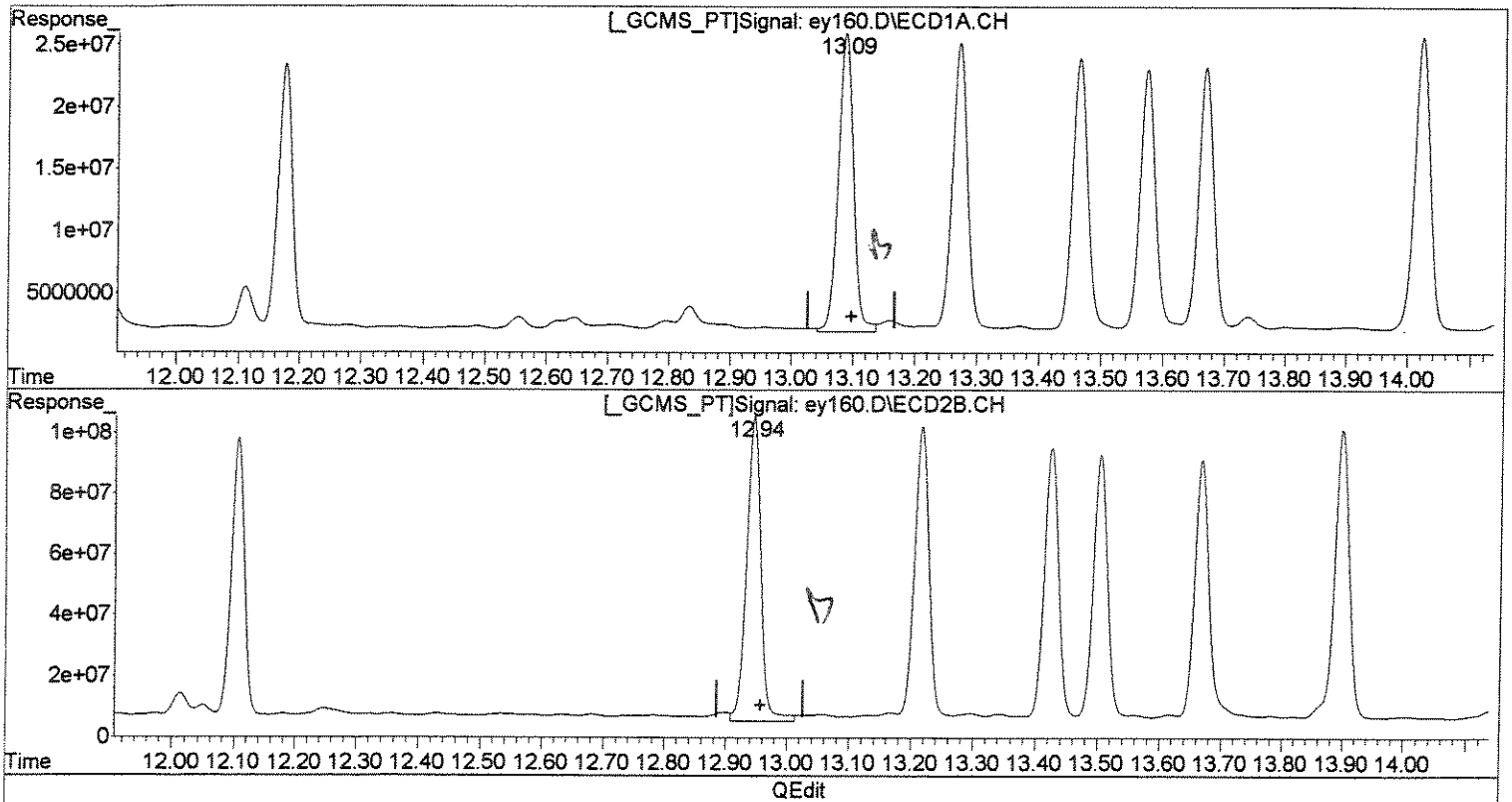


Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.09min 18.023ug/l
response 410220293

(9) Heptachlor E #2 (tc)
12.94min 20.166ug/l
response 1621237909

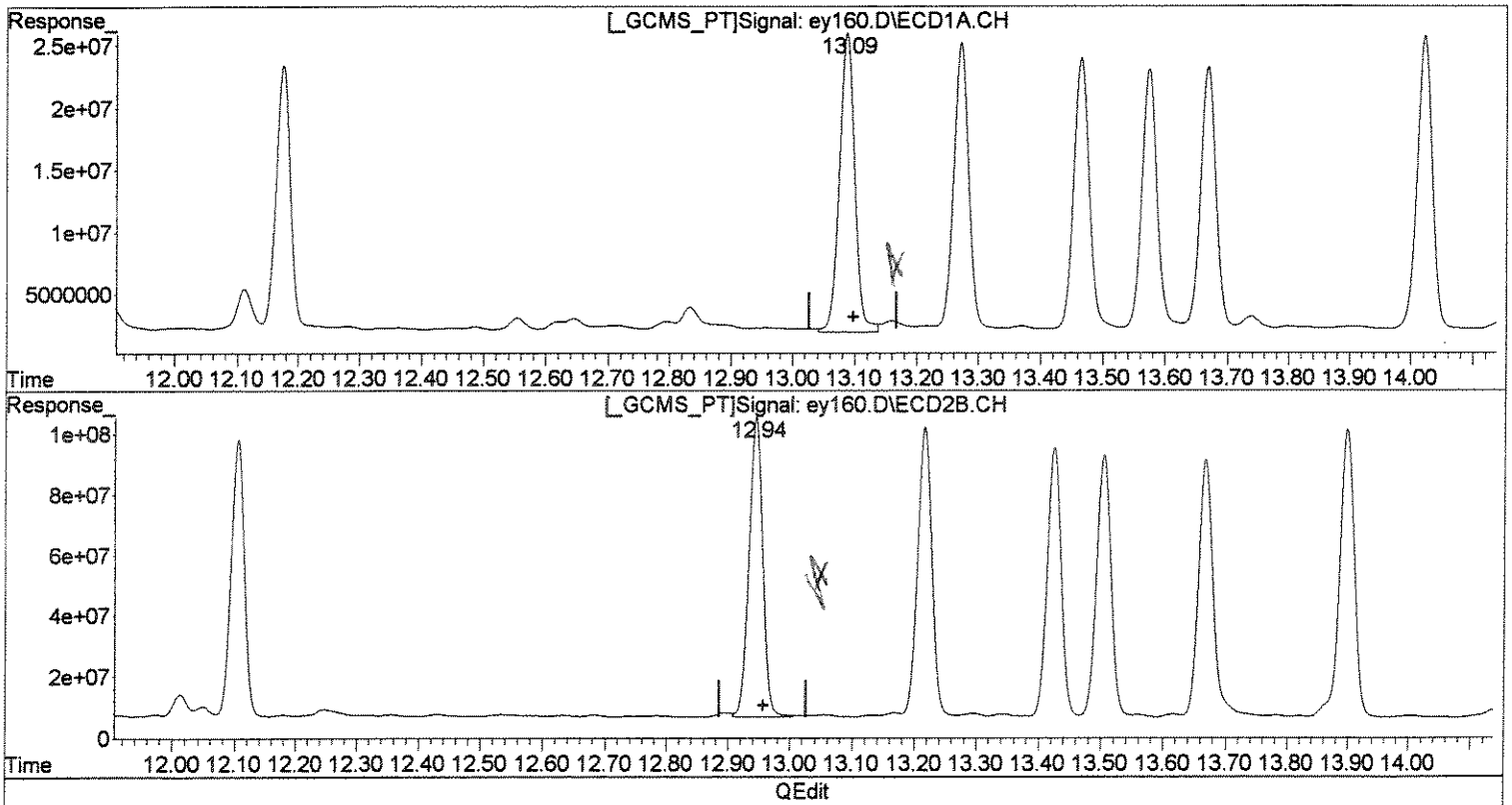
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(9) Heptachlor E (tc)
13.09min 18.023ug/l
response 410220293

(9) Heptachlor E #2 (tc)
12.94min 19.031ug/l m
response 1530043008

(+) = Expected Retention Time

00554

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.32	1545.0E6	6139.5E6	76.561	75.871	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		76.56%	75.87%	
25)	S SURR2,Decachloro	17.60	17.85	1327.8E6	4605.7E6	76.026	83.626	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		76.03%	83.63%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	10.14	1134.8E6	4793.3E6	38.617	39.439	
3)	tc alpha-BHC	10.43	10.39	542.1E6	2208.2E6	17.534	18.607	
4)	tcm gamma-BHC (L	10.96	10.96	511.5E6	2089.8E6	18.135	19.888	
5)	tcm Heptachlor	11.72	11.63	461.8E6	1780.2E6	16.527	17.738	
6)	tcm Aldrin	12.17	12.10	375.2E6	1456.7E6	15.154	15.991	
7)	tc beta-BHC	11.12	11.12	245.0E6	931.1E6	21.334	20.633	
8)	tc delta-BHC	11.40	11.56	512.3E6	1846.5E6	18.837	17.886	
9)	tc Heptachlor E	13.09	12.94	410.2E6	1621.2E6	18.023	20.166	
10)	tc alpha-Endosu	13.67	13.50	373.1E6	1413.3E6	18.236	19.914	
11)	tc gamma-Chlord	13.27	13.22	403.4E6	1599.9E6	18.399	19.505	
12)	tc alpha-Chlord	13.47	13.42	388.9E6	1451.3E6	18.186	18.685	
13)	tc 4,4'-DDE	13.57	13.67	373.5E6	1489.4E6	17.147	19.430	
14)	tcm Dieldrin	14.02	13.90	422.0E6	1660.9E6	18.473	21.227	
15)	tcm Endrin	14.37	14.34	380.9E6	1365.8E6	18.383	20.278	
16)	tc KEPONE	14.45	0.00	318.7E6	0	43.564	N.D.	#
17)	tc beta-Endosul	14.71	14.65	337.7E6	1360.0E6	18.169	21.184	
18)	tc 4,4'-DDD	14.45	14.49	318.7E6	1256.6E6	17.712	20.189	
19)	tcm 4,4'-DDT	14.86	14.95	345.6E6	1291.6E6	18.061	19.716	
20)	tc Endrin Aldeh	15.34	15.15	221.3E6	919.7E6	15.076	18.750	
21)	tc Endosulfan S	15.98	15.55	307.6E6	1137.6E6	18.259	19.906	
22)	tc Methoxychlor	15.55	15.92	984.4E6	3401.1E6	105.709	117.065	
23)	tc FAMPHUR	0.00	15.67	0	615189	N.D.	0.015	#
24)	tc Endrin Keton	16.37	16.31	365.1E6	1264.3E6	18.856	20.154	
26)	L8C Toxaphene	0.00	14.79	0	35760455	N.D.	18.482	#
27)	L8C Toxaphene{2}	0.00	15.08	0	17189498	N.D.	19.054	#
28)	L8C Toxaphene{3}	0.00	15.15	0	919.7E6	N.D.	491.961	#

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
29) L8C Toxaphene{4}	16.37	0.00	365.1E6	0	446.066	N.D.	#
30) L8C Toxaphene{5}	16.55	16.68	8636069	16146577	12.975	7.156	#
Sum Toxaphene			373.7E6	988.8E6	459.040	536.653	
Average Toxaphene					229.520	134.163	
31) L9C Chlordane	0.00	11.41	0	103.1E6	N.D.	31.873	#
32) L9C Chlordane{2}	11.72	11.63	461.8E6	1780.2E6	409.950	395.652	
33) L9C Chlordane{3}	0.00	12.36	0	57868765	N.D.	16.165	#
34) L9C Chlordane{4}	13.27	13.22	403.4E6	1599.9E6	145.805	159.654	
Sum Chlordane			865.2E6	3541.1E6	555.754	603.345	
Average Chlordane					277.877	150.836	

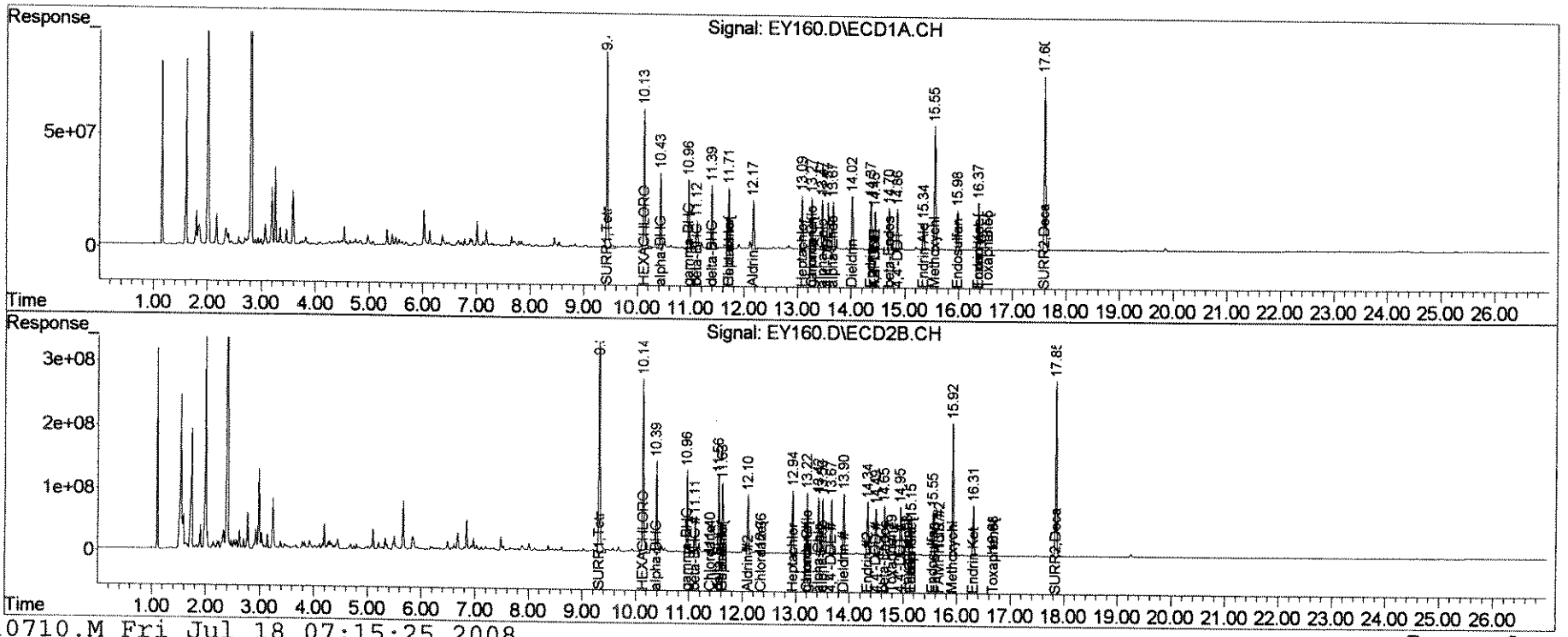
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY160.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 2:29 pm
Operator : M.PEDRO
Sample : 1118498 1.0
Misc : 07/03/08 100 608/8081 lcs
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : BLANK SPIKE DUPLICATE

Date Sampled : **Order #:** 1118499 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.10	0.17	UG/L
ALPHA-BHC	0.10	0.19	UG/L
BETA-BHC	0.10	0.21	UG/L
GAMMA-BHC	0.10	0.21	UG/L
DELTA-BHC	0.10	0.18	UG/L
ALPHA-CHLORDANE	0.10	0.20	UG/L
GAMMA-CHLORDANE	0.10	0.20	UG/L
CHLORDANE	0.50	0.50 U	UG/L
4,4'-DDE	0.10	0.20	UG/L
4,4'-DDT	0.10	0.20	UG/L
DIELDRIN	0.20	0.22	UG/L
ALPHA-ENDOSULFAN	0.10	0.21	UG/L
BETA-ENDOSULFAN	0.20	0.22	UG/L
ENDOSULFAN SULFATE	0.20	0.20	UG/L
ENDRIN	0.10	0.21	UG/L
ENDRIN ALDEHYDE	0.20	0.17 J	UG/L
ENDRIN KETONE	0.20	0.21	UG/L
HEPTACHLOR	0.10	0.19	UG/L
HEPTACHLOR EPOXIDE	0.10	0.22	UG/L
HEXACHLOROBENZENE	0.10	0.41	UG/L
METHOXYCHLOR	1.0	1.2	UG/L
4,4'-TDE (DDD)	0.10	0.20	UG/L
TOXAPHENE	2.0	2.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	85	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	80	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:46:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1)	S SURR1,Tetrac	9.43	9.32	1585.1E6	6451.8E6	78.547	79.730
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.55%	79.73%
25)	S SURR2,Decachloro	17.60	17.85	1370.9E6	4703.9E6	78.493	85.408
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.49%	85.41%
	Target Compounds						
2)	TC HEXACHLOROBENZEN	10.13	10.14	1155.9E6	4983.9E6	39.333	41.008
3)	tc alpha-BHC	10.43	10.39	546.7E6	2311.4E6	17.683	19.476
4)	tcm gamma-BHC (L	10.96	10.96	502.5E6	2176.6E6	17.815	20.715
5)	tcm Heptachlor	11.72	11.63	451.5E6	1871.4E6	16.156	18.646
6)	tcm Aldrin	12.17	12.10	379.1E6	1544.5E6	15.310	16.955
7)	tc beta-BHC	11.12	11.12	220.9E6	937.4E6	19.235	20.772
8)	tc delta-BHC	11.40	11.56	491.0E6	1915.0E6	18.052	18.549
9)	tc Heptachlor E	13.09	12.94	418.9E6	1769.5E6	18.402	22.010
10)	tc alpha-Endosu	13.67	13.50	390.1E6	1517.3E6	19.067	21.378
11)	tc gamma-Chlord	13.27	13.22	406.8E6	1669.5E6	18.553	20.353
12)	tc alpha-Chlord	13.47	13.43	391.2E6	1515.9E6	18.292	19.517
13)	tc 4,4'-DDE	13.58	13.67	367.2E6	1518.7E6	16.858	19.812
14)	tcm Dieldrin	14.02	13.90	426.2E6	1706.6E6	18.659	21.811
15)	tcm Endrin	14.37	14.34	389.7E6	1427.7E6	18.811	21.197
17)	tc beta-Endosul	14.71	14.65	343.6E6	1383.0E6	18.483	21.543
18)	tc 4,4'-DDD	14.45	14.49	317.5E6	1276.3E6	17.648	20.506
19)	tcm 4,4'-DDT	14.86	14.95	343.4E6	1296.3E6	17.946	19.788
20)	tc Endrin Aldeh	15.34	15.15	219.3E6	841.5E6	14.944	17.156
21)	tc Endosulfan S	15.98	15.55	317.4E6	1174.8E6	18.842	20.558
22)	tc Methoxychlor	15.56	15.92	1014.2E6	3519.0E6	108.902	121.123
24)	tc Endrin Keton	16.37	16.31	378.6E6	1321.3E6	19.552	21.063
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:46:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

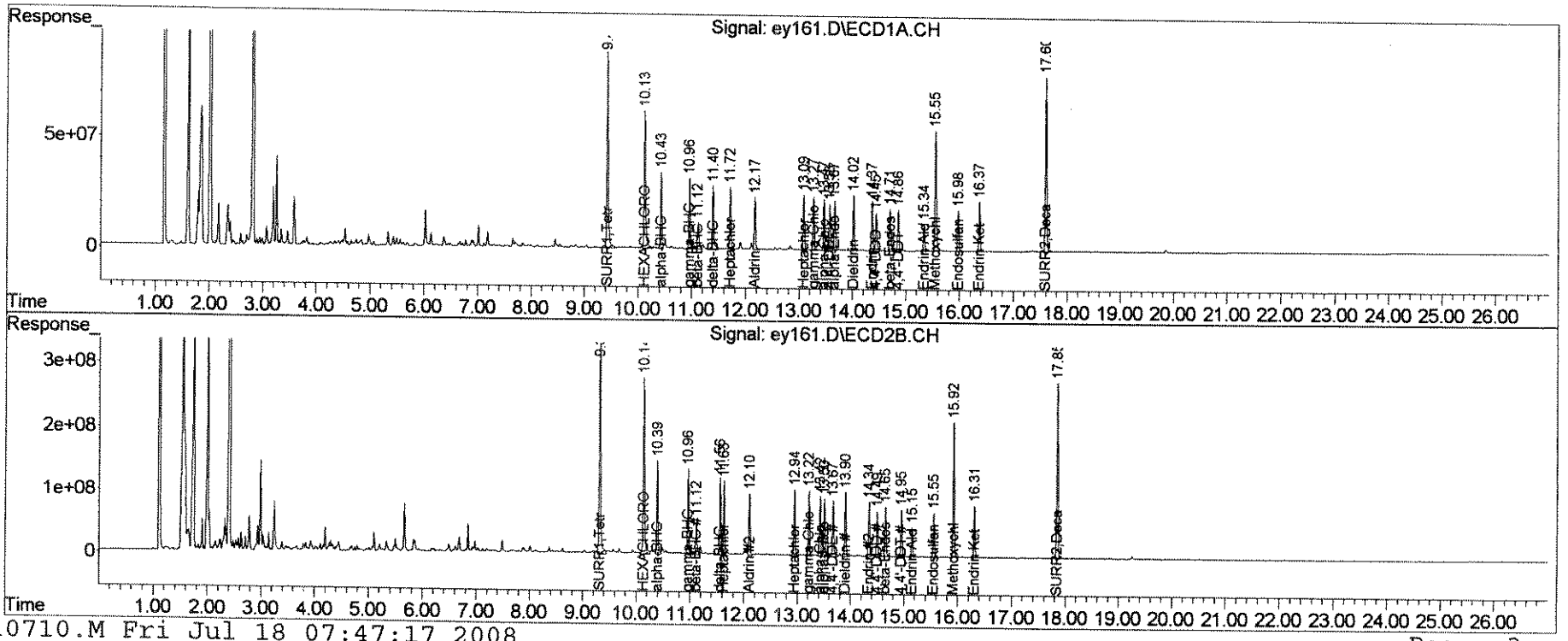
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:46:59 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:28 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.32	1585.1E6	6451.8E6	78.547	79.730	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.55%	79.73%	
25)	S SURR2,Decachloro	17.60	17.85	1370.9E6	4703.9E6	78.493	85.408	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.49%	85.41%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.13	10.14	1155.9E6	4983.9E6	39.333	41.008	
3)	tc alpha-BHC	10.43	10.39	546.7E6	2311.4E6	17.683	19.476	
4)	tcm gamma-BHC (L	10.96	10.96	502.5E6	2176.6E6	17.815	20.715	
5)	tcm Heptachlor	11.72	11.63	451.5E6	1871.4E6	16.156	18.646	
6)	tcm Aldrin	12.17	12.10	379.1E6	1544.5E6	15.310	16.955	
7)	tc beta-BHC	11.12	11.12	220.9E6	937.4E6	19.235	20.772	
8)	tc delta-BHC	11.40	11.56	491.0E6	1915.0E6	18.052	18.549	
9)	tc Heptachlor E	13.09	12.94	418.9E6	1769.5E6	18.402	22.010	
10)	tc alpha-Endosu	13.67	13.50	390.1E6	1517.3E6	19.067	21.378	
11)	tc gamma-Chlord	13.27	13.22	406.8E6	1669.5E6	18.553	20.353	
12)	tc alpha-Chlord	13.47	13.43	391.2E6	1515.9E6	18.292	19.517	
13)	tc 4,4'-DDE	13.58	13.67	367.2E6	1518.7E6	16.858	19.812	
14)	tcm Dieldrin	14.02	13.90	426.2E6	1706.6E6	18.659	21.811	
15)	tcm Endrin	14.37	14.34	389.7E6	1427.7E6	18.811	21.197	
16)	tc KEPONE	14.45	0.00	317.5E6	0	43.405	N.D.	#
17)	tc beta-Endosul	14.71	14.65	343.6E6	1383.0E6	18.483	21.543	
18)	tc 4,4'-DDD	14.45	14.49	317.5E6	1276.3E6	17.648	20.506	
19)	tcm 4,4'-DDT	14.86	14.95	343.4E6	1296.3E6	17.946	19.788	
20)	tc Endrin Aldeh	15.34	15.15	219.3E6	841.5E6	14.944	17.156	
21)	tc Endosulfan S	15.98	15.55	317.4E6	1174.8E6	18.842	20.558	
22)	tc Methoxychlor	15.56	15.92	1014.2E6	3519.0E6	108.902	121.123	
24)	tc Endrin Keton	16.37	16.31	378.6E6	1321.3E6	19.552	21.063	
26)	L8C Toxaphene	0.00	14.79	0	27434809	N.D.	14.179	#
27)	L8C Toxaphene{2}	0.00	15.08	0	12183575	N.D.	13.505	#
28)	L8C Toxaphene{3}	0.00	15.15	0	841.5E6	N.D.	450.136	#
29)	L8C Toxaphene{4}	16.37	0.00	378.6E6	0	462.551	N.D.	#

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:28 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
30) L8C Toxaphene{5}	16.55	16.68	8276860	7667581	12.435	3.398	#
Sum Toxaphene			386.9E6	888.8E6	474.986	481.218	
Average Toxaphene					237.493	120.305	
31) L9C Chlordane	0.00	11.41	0	94027957	N.D.	29.079	#
32) L9C Chlordane{2}	11.72	11.63	451.5E6	1871.4E6	400.762	415.902	
33) L9C Chlordane{3}	0.00	12.36	0	73920506	N.D.	20.650	#
34) L9C Chlordane{4}	13.27	13.22	406.8E6	1669.5E6	147.024	166.602	
Sum Chlordane			858.2E6	3708.8E6	547.787	632.233	
Average Chlordane					273.893	158.058	

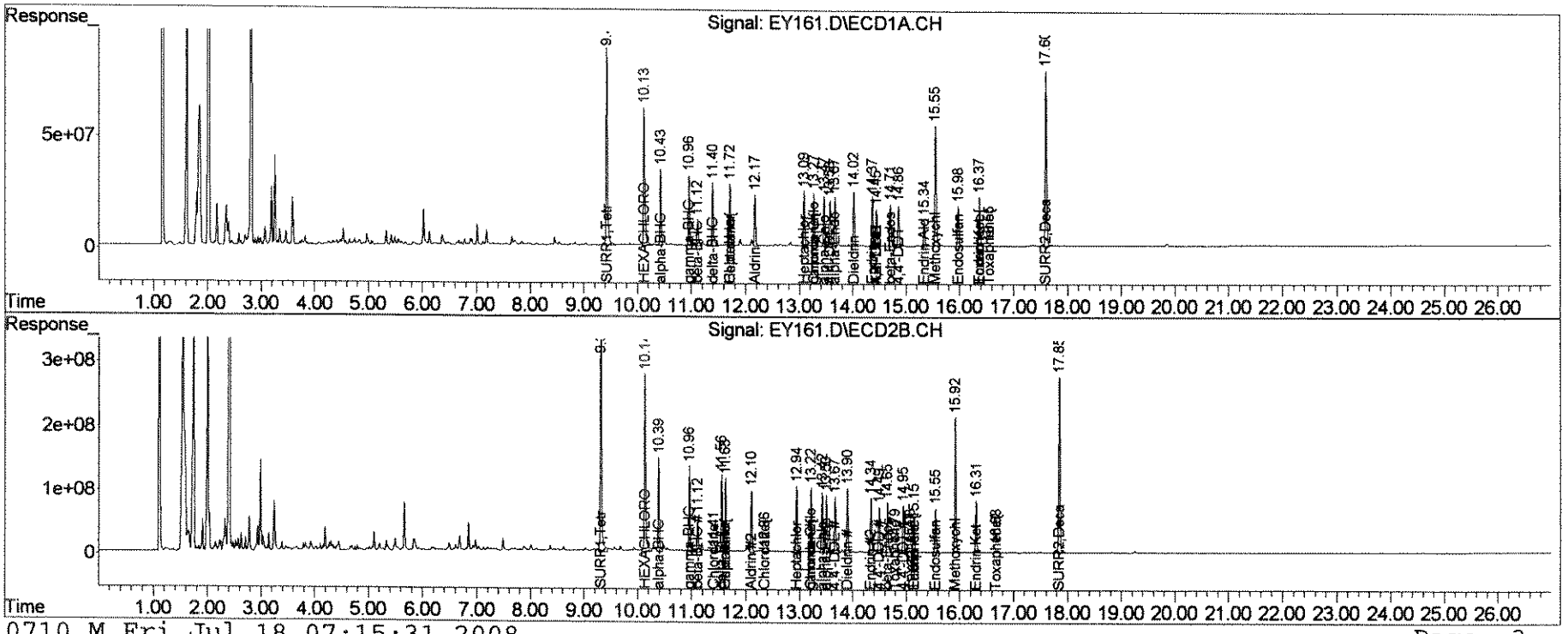
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY161.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 3:05 pm
Operator : M.PEDRO
Sample : 1118499 1.0
Misc : 07/03/08 100 608/8081 lcsd
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:15:28 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : **Order #:** 1118500 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.048	0.072	UG/L
ALPHA-BHC	0.048	0.091	UG/L
BETA-BHC	0.048	0.089	UG/L
GAMMA-BHC	0.048	0.085	UG/L
DELTA-BHC	0.048	0.090	UG/L
ALPHA-CHLORDANE	0.048	0.085	UG/L
GAMMA-CHLORDANE	0.048	0.094	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.048	0.091	UG/L
4,4'-DDT	0.048	0.094	UG/L
DIELDRIN	0.096	0.10	UG/L
ALPHA-ENDOSULFAN	0.048	0.092	UG/L
BETA-ENDOSULFAN	0.096	0.099	UG/L
ENDOSULFAN SULFATE	0.096	0.094 J	UG/L
ENDRIN	0.048	0.098	UG/L
ENDRIN ALDEHYDE	0.096	0.052 J	UG/L
ENDRIN KETONE	0.096	0.096	UG/L
HEPTACHLOR	0.048	0.079	UG/L
HEPTACHLOR EPOXIDE	0.048	0.10	UG/L
HEXACHLOROBENZENE	0.048	0.18	UG/L
METHOXYCHLOR	0.48	0.56	UG/L
4,4'-TDE (DDD)	0.048	0.093	UG/L
TOXAPHENE	0.96	0.96 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	97	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	79	%

9/2/08

605

000672

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:01:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
System Monitoring Compounds							
1) S SURR1,Tetrac	9.43	9.31	1588.0E6	6081.3E6	78.688	75.151	
Spiked Amount 100.000	Range 30 - 150			Recovery =	78.69%	75.15%	
25) S SURR2,Decachloro	17.60	17.85	1601.8E6	5320.5E6	91.712	96.605	
Spiked Amount 100.000	Range 30 - 150			Recovery =	91.71%	96.61%	
Target Compounds							
2) TC HEXACHLOROBENZEN	10.12	10.13	1121.6E6	4295.1E6	38.167	35.340	
3) tc alpha-BHC	10.43	10.39	580.3E6	2247.8E6	18.769	18.941	
4) tcm gamma-BHC (L	10.96	10.96	495.1E6	1858.1E6	17.552	17.683	
5) tcm Heptachlor	11.71	11.63	429.7E6	1655.1E6	15.376	16.492	
6) tcm Aldrin	12.17	12.10	346.6E6	1375.9E6	14.001	15.104	
7) tc beta-BHC	11.12	11.11	211.1E6	831.7E6	18.387	18.429	
8) tc delta-BHC	11.39	11.55	510.2E6	1834.5E6	18.759	17.770	
9) tc Heptachlor E	13.08	12.94	501.1E6	1485.8E6	22.015	18.480	
10) tc alpha-Endosu	13.67	13.50	360.1E6	1357.3E6	17.602	19.124	
11) tc gamma-Chlord	13.27	13.21	404.8E6	1610.1E6	18.465	19.629	
12) tc alpha-Chlord	13.46	13.42	371.6E6	1380.2E6	17.376	17.770	
13) tc 4,4'-DDE	13.57	13.67	374.7E6	1446.4E6	17.203	18.869	
14) tcm Dieldrin	14.02	13.90	420.6E6	1642.7E6	18.415	20.994	
15) tcm Endrin	14.37	14.34	387.8E6	1378.4E6	18.716	20.465	
17) tc beta-Endosul	14.70	14.65	332.6E6	1322.1E6	17.891	20.594	
18) tc 4,4'-DDD	14.44	14.49	327.1E6	1209.8E6	18.180	19.437	
19) tcm 4,4'-DDT	14.86	14.95	357.8E6	1276.5E6	18.699	19.486	
20) tc Endrin Aldeh	15.34	15.14	124.2E6	526.1E6	8.460	10.727	#
21) tc Endosulfan S	15.98	15.55	304.9E6	1122.5E6	18.101	19.642	
22) tc Methoxychlor	15.55	15.92	1014.5E6	3391.1E6	108.935	116.720	
24) tc Endrin Keton	16.37	16.31	360.1E6	1254.5E6	18.597	19.997	
Sum Toxaphene			0	0	N.D.	N.D.	
Average Toxaphene					0.000	0.000	
Sum Chlordane			0	0	N.D.	N.D.	
Average Chlordane					0.000	0.000	

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:01:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

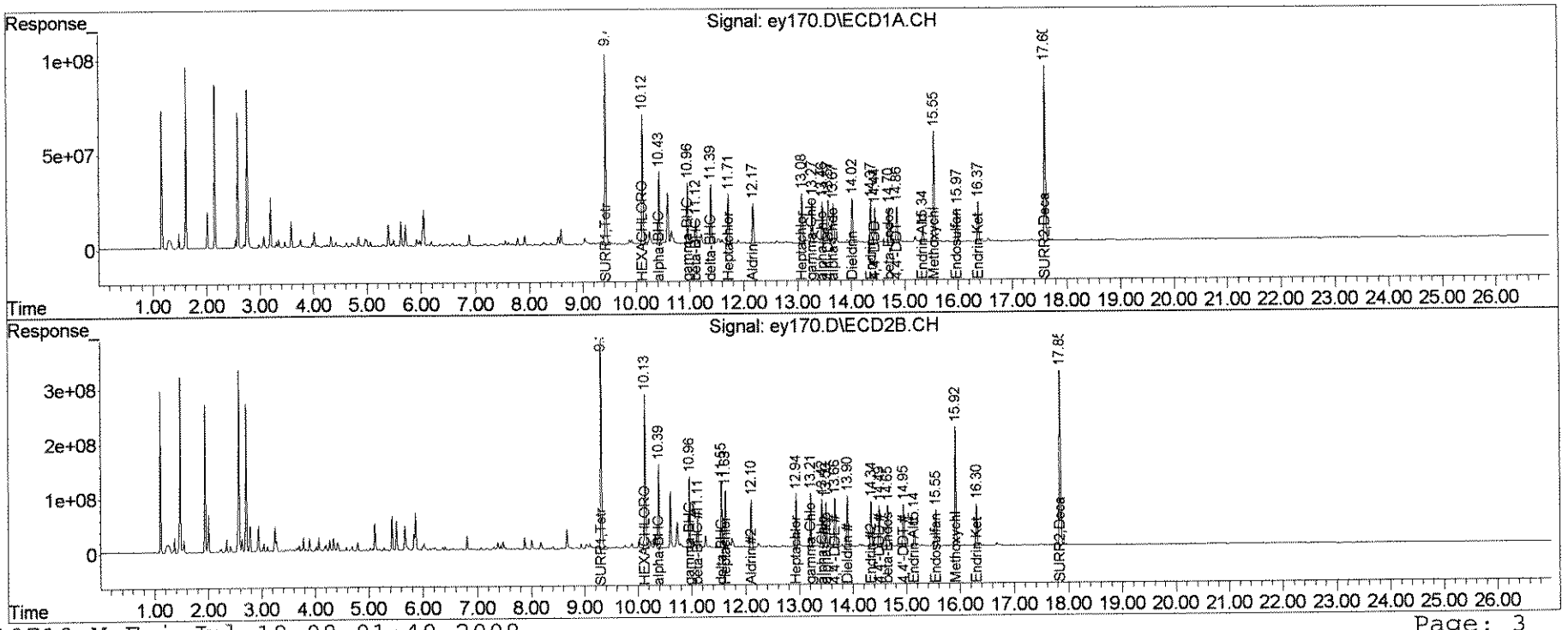
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:01:13 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1588.0E6	6081.3E6	78.688	75.151	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		78.69%	75.15%	
25)	S SURR2,Decachloro	17.60	17.85	1601.8E6	5320.5E6	91.712	96.605	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		91.71%	96.61%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.12	10.13	1121.6E6	4295.1E6	38.167	35.340	
3)	tc alpha-BHC	10.43	10.39	580.3E6	2247.8E6	18.769	18.941	
4)	tcm gamma-BHC (L	10.96	10.96	495.1E6	1858.1E6	17.552	17.683	
5)	tcm Heptachlor	11.71	11.63	429.7E6	1655.1E6	15.376	16.492	
6)	tcm Aldrin	12.17	12.10	346.6E6	1375.9E6	14.001	15.104	
7)	tc beta-BHC	11.12	11.11	211.1E6	831.7E6	18.387	18.429	
8)	tc delta-BHC	11.39	11.55	510.2E6	1834.5E6	18.759	17.770	
9)	tc Heptachlor E	13.08	12.94	501.1E6	1485.8E6	22.015	18.480	
10)	tc alpha-Endosu	13.67	13.50	360.1E6	1357.3E6	17.602	19.124	
11)	tc gamma-Chlord	13.27	13.21	404.8E6	1610.1E6	18.465	19.629	
12)	tc alpha-Chlord	13.46	13.42	371.6E6	1380.2E6	17.376	17.770	
13)	tc 4,4'-DDE	13.57	13.67	374.7E6	1446.4E6	17.203	18.869	
14)	tcm Dieldrin	14.02	13.90	420.6E6	1642.7E6	18.415	20.994	
15)	tcm Endrin	14.37	14.34	387.8E6	1378.4E6	18.716	20.465	
16)	tc KEPONE	14.44	0.00	327.1E6	0	44.716	N.D.	#
17)	tc beta-Endosul	14.70	14.65	332.6E6	1322.1E6	17.891	20.594	
18)	tc 4,4'-DDD	14.44	14.49	327.1E6	1209.8E6	18.180	19.437	
19)	tcm 4,4'-DDT	14.86	14.95	357.8E6	1276.5E6	18.699	19.486	
20)	tc Endrin Aldeh	15.34	15.14	124.2E6	526.1E6	8.460	10.727	#
21)	tc Endosulfan S	15.98	15.55	304.9E6	1122.5E6	18.101	19.642	
22)	tc Methoxychlor	15.55	15.92	1014.5E6	3391.1E6	108.935	116.720	
24)	tc Endrin Keton	16.37	16.31	360.1E6	1254.5E6	18.597	19.997	
26)	L8C Toxaphene	0.00	14.80	0	31904691	N.D.	16.489	#
27)	L8C Toxaphene{2}	0.00	15.08	0	28599634	N.D.	31.701	#
28)	L8C Toxaphene{3}	0.00	15.14	0	526.1E6	N.D.	281.452	#
29)	L8C Toxaphene{4}	16.37	16.44	360.1E6	31293032	439.948	16.247	#

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
30) L8C Toxaphene{5}	16.55	16.68	43623310	107.6E6	65.538	47.696	#
Sum Toxaphene			403.7E6	725.6E6	505.486	393.586	
Average Toxaphene					252.743	78.717	
31) L9C Chlordane	11.60	11.41	47820686	29873898	59.980	9.239	#
32) L9C Chlordane{2}	11.71	11.63	429.7E6	1655.1E6	381.408	367.846	
33) L9C Chlordane{3}	12.42	12.35	10562221	67104419	10.238	18.745	#
34) L9C Chlordane{4}	13.27	13.21	404.8E6	1610.1E6	146.325	160.673	
35) L9C Chlordane{5}	14.60	0.00	29477993	0	31.548	N.D.	#
Sum Chlordane			922.4E6	3362.2E6	629.500	556.503	
Average Chlordane					125.900	139.126	

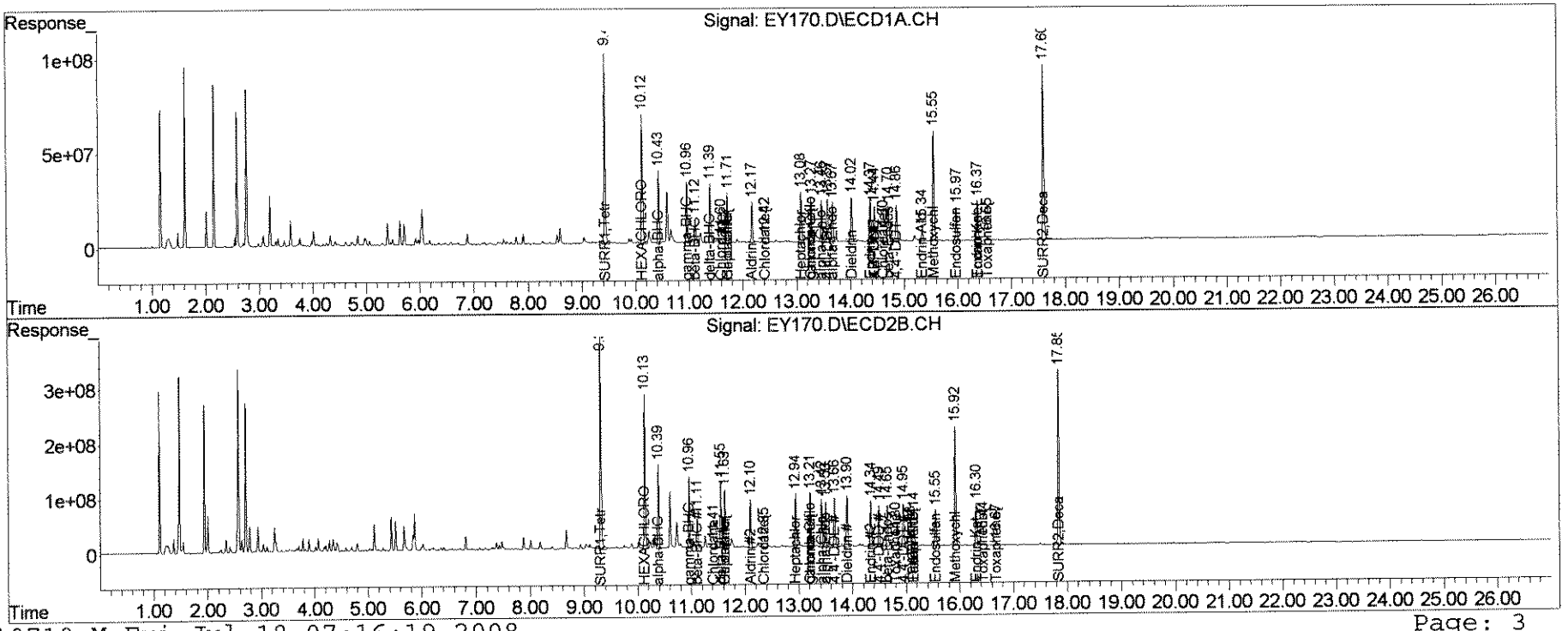
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY170.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 8:25 pm
Operator : M.PEDRO
Sample : 1118500 1.0
Misc : 07/03/08 208 ensr r44803 8081 ms
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:16 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A.NEVA
Reported: 09/02/08

Project Reference:
Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled : **Order #:** 1118501 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 164129

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/03/08			
DATE ANALYZED : 07/17/08			
ANALYTICAL DILUTION: 1.00			
ALDRIN	0.048	0.077	UG/L
ALPHA-BHC	0.048	0.095	UG/L
BETA-BHC	0.048	0.092	UG/L
GAMMA-BHC	0.048	0.089	UG/L
DELTA-BHC	0.048	0.095	UG/L
ALPHA-CHLORDANE	0.048	0.089	UG/L
GAMMA-CHLORDANE	0.048	0.10	UG/L
CHLORDANE	0.24	0.24 U	UG/L
4,4'-DDE	0.048	0.093	UG/L
4,4'-DDT	0.048	0.097	UG/L
DIELDRIN	0.096	0.10	UG/L
ALPHA-ENDOSULFAN	0.048	0.096	UG/L
BETA-ENDOSULFAN	0.096	0.10	UG/L
ENDOSULFAN SULFATE	0.096	0.099	UG/L
ENDRIN	0.048	0.095	UG/L
ENDRIN ALDEHYDE	0.096	0.054 J	UG/L
ENDRIN KETONE	0.096	0.10	UG/L
HEPTACHLOR	0.048	0.083	UG/L
HEPTACHLOR EPOXIDE	0.048	0.17	UG/L
HEXACHLOROBENZENE	0.048	0.19	UG/L
METHOXYCHLOR	0.48	0.59	UG/L
4,4'-TDE (DDD)	0.048	0.096	UG/L
TOXAPHENE	0.96	0.96 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(40 - 140 %)	98	%
TETRACHLORO-META-XYLENE	(40 - 140 %)	79	%

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:03:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1601.2E6	6112.6E6	79.343	75.538	
	Spiked Amount 100.000	Range 30 - 150			Recovery =	79.34%	75.54%	
25)	S SURR2,Decachloro	17.60	17.84	1602.5E6	5375.2E6	91.755	97.597	
	Spiked Amount 100.000	Range 30 - 150			Recovery =	91.75%	97.60%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.12	10.13	1170.9E6	4451.7E6	39.847	36.629	
3)	tc alpha-BHC	10.43	10.39	610.6E6	2320.3E6	19.750	19.552	
4)	tcm gamma-BHC (L	10.96	10.96	514.6E6	1938.7E6	18.244	18.451	
5)	tcm Heptachlor	11.71	11.63	453.4E6	1732.0E6	16.226	17.257	
6)	tcm Aldrin	12.17	12.10	366.4E6	1463.4E6	14.800	16.065	
7)	tc beta-BHC	11.12	11.11	218.9E6	841.4E6	19.066	18.643	
8)	tc delta-BHC	11.39	11.56	536.1E6	1930.5E6	19.712	18.699	
9)	tc Heptachlor E	13.08	12.94	794.5E6	1547.4E6	34.907	19.247	#
10)	tc alpha-Endosu	13.67	13.50	382.4E6	1418.3E6	18.692	19.984	
11)	tc gamma-Chlord	13.27	13.22	427.2E6	1704.1E6	19.488	20.775	
12)	tc alpha-Chlord	13.46	13.42	388.9E6	1444.6E6	18.183	18.600	
13)	tc 4,4'-DDE	13.57	13.67	384.7E6	1487.4E6	17.661	19.405	
14)	tcm Dieldrin	14.02	13.90	429.4E6	1723.8E6	18.799	22.030	
15)	tcm Endrin	14.37	14.34	403.7E6	1326.3E6	19.484	19.690	
17)	tc beta-Endosul	14.70	14.65	342.4E6	1378.4E6	18.418	21.472	
18)	tc 4,4'-DDD	14.44	14.49	340.7E6	1238.8E6	18.933	19.904	
19)	tcm 4,4'-DDT	14.86	14.95	351.2E6	1316.4E6	18.350	20.095	
20)	tc Endrin Aldeh	15.34	15.14	142.3E6	554.6E6	9.697	11.308	
21)	tc Endosulfan S	15.98	15.55	322.2E6	1175.0E6	19.125	20.560	
22)	tc Methoxychlor	15.55	15.92	1038.8E6	3552.8E6	111.550	122.286	
24)	tc Endrin Keton	16.37	16.31	380.7E6	1374.9E6	19.660	21.917	
	Sum Toxaphene			0	0	N.D.	N.D.	
	Average Toxaphene					0.000	0.000	
	Sum Chlordane			0	0	N.D.	N.D.	
	Average Chlordane					0.000	0.000	

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:03:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

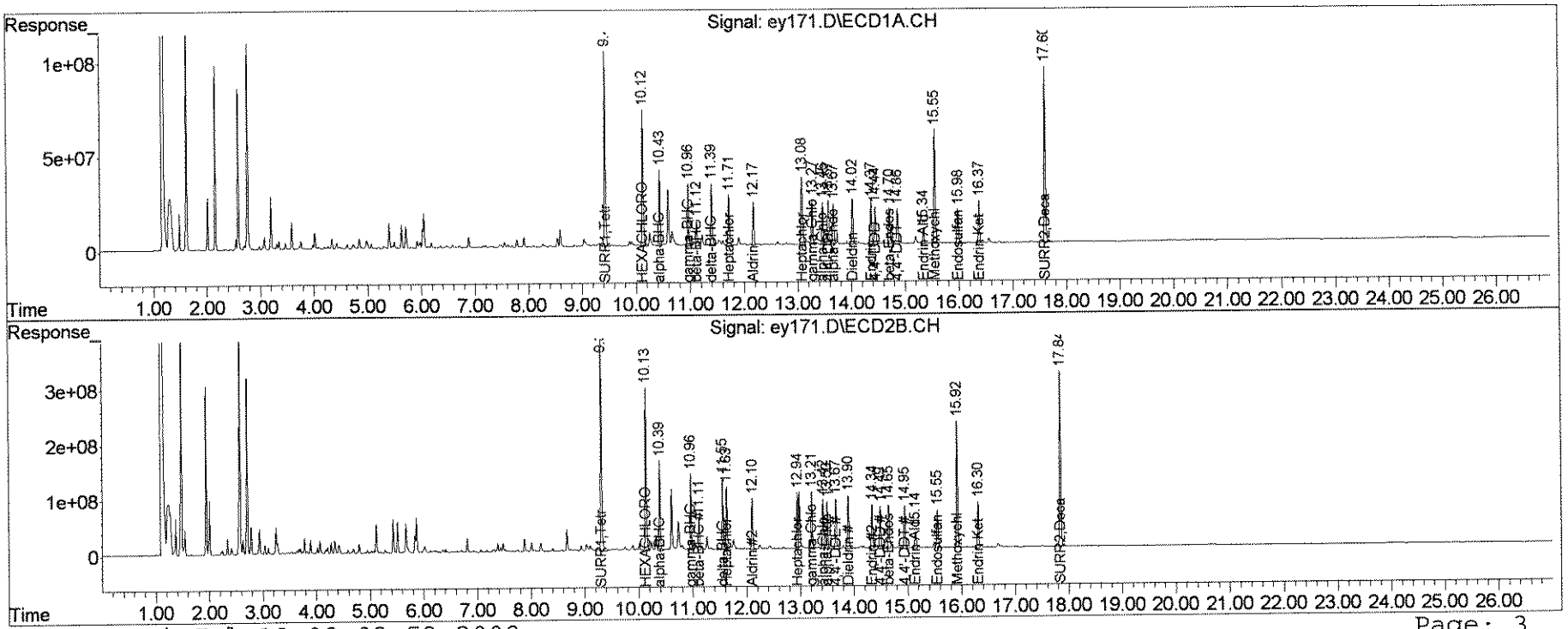
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : ey171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 08:03:34 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	System Monitoring Compounds							
1)	S SURR1,Tetrac	9.43	9.31	1601.2E6	6112.6E6	79.343	75.538	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		79.34%	75.54%	
25)	S SURR2,Decachloro	17.60	17.84	1602.5E6	5375.2E6	91.755	97.597	
	Spiked Amount 100.000	Range 30 - 150		Recovery =		91.75%	97.60%	
	Target Compounds							
2)	TC HEXACHLOROBENZEN	10.12	10.13	1170.9E6	4451.7E6	39.847	36.629	
3)	tc alpha-BHC	10.43	10.39	610.6E6	2320.3E6	19.750	19.552	
4)	tcm gamma-BHC (L	10.96	10.96	514.6E6	1938.7E6	18.244	18.451	
5)	tcm Heptachlor	11.71	11.63	453.4E6	1732.0E6	16.226	17.257	
6)	tcm Aldrin	12.17	12.10	366.4E6	1463.4E6	14.800	16.065	
7)	tc beta-BHC	11.12	11.11	218.9E6	841.4E6	19.066	18.643	
8)	tc delta-BHC	11.39	11.56	536.1E6	1930.5E6	19.712	18.699	
9)	tc Heptachlor E	13.08	12.94	794.5E6	1547.4E6	34.907	19.247	#
10)	tc alpha-Endosu	13.67	13.50	382.4E6	1418.3E6	18.692	19.984	
11)	tc gamma-Chlord	13.27	13.22	427.2E6	1704.1E6	19.488	20.775	
12)	tc alpha-Chlord	13.46	13.42	388.9E6	1444.6E6	18.183	18.600	
13)	tc 4,4'-DDE	13.57	13.67	384.7E6	1487.4E6	17.661	19.405	
14)	tcm Dieldrin	14.02	13.90	429.4E6	1723.8E6	18.799	22.030	
15)	tcm Endrin	14.37	14.34	403.7E6	1326.3E6	19.484	19.690	
16)	tc KEPONE	14.44	0.00	340.7E6	0	46.568	N.D.	#
17)	tc beta-Endosul	14.70	14.65	342.4E6	1378.4E6	18.418	21.472	
18)	tc 4,4'-DDD	14.44	14.49	340.7E6	1238.8E6	18.933	19.904	
19)	tcm 4,4'-DDT	14.86	14.95	351.2E6	1316.4E6	18.350	20.095	
20)	tc Endrin Aldeh	15.34	15.14	142.3E6	554.6E6	9.697	11.308	
21)	tc Endosulfan S	15.98	15.55	322.2E6	1175.0E6	19.125	20.560	
22)	tc Methoxychlor	15.55	15.92	1038.8E6	3552.8E6	111.550	122.286	
24)	tc Endrin Keton	16.37	16.31	380.7E6	1374.9E6	19.660	21.917	
26)	L8C Toxaphene	0.00	14.80	0	28082752	N.D.	14.514	#
27)	L8C Toxaphene{2}	0.00	15.08	0	23651800	N.D.	26.217	#
28)	L8C Toxaphene{3}	15.50	15.14	13036682	554.6E6	19.370	296.687	#
29)	L8C Toxaphene{4}	16.37	0.00	380.7E6	0	465.094	N.D.	#

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
30) L8C Toxaphene{5}	16.55	16.68	61095123	179.9E6	91.787	79.741	
Sum Toxaphene			454.8E6	786.3E6	576.251	417.159	
Average Toxaphene					192.084	104.290	
31) L9C Chlordane	11.60	0.00	51619677	0	64.745	N.D.	#
32) L9C Chlordane{2}	11.71	11.63	453.4E6	1732.0E6	402.479	384.922	
33) L9C Chlordane{3}	0.00	12.35	0	72185897	N.D.	20.165	#
34) L9C Chlordane{4}	13.27	13.22	427.2E6	1704.1E6	154.430	170.055	
35) L9C Chlordane{5}	14.61	0.00	41586647	0	44.507	N.D.	#
Sum Chlordane			973.9E6	3508.3E6	666.161	575.142	
Average Chlordane					166.540	191.714	

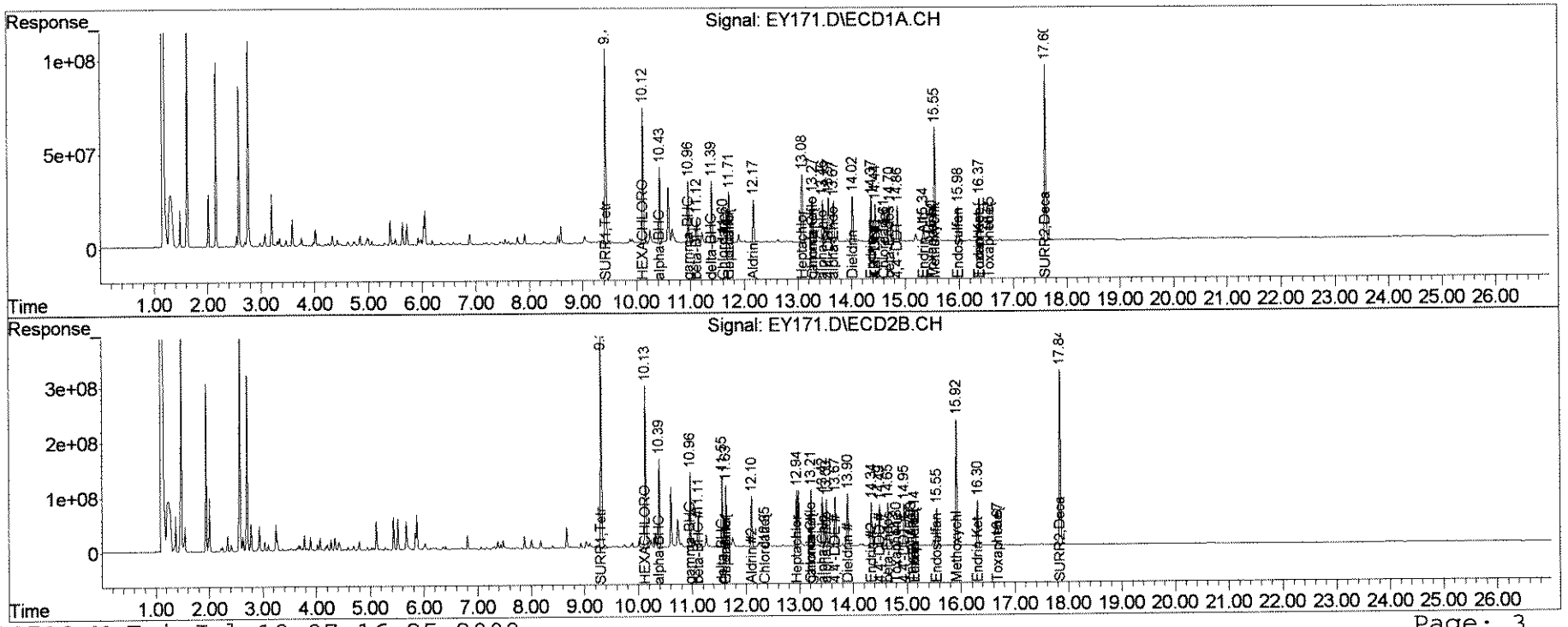
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\ACQUDATA\6890D\DATA\071708\
Data File : EY171.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Jul 2008 9:00 pm
Operator : M.PEDRO
Sample : 1118501 1.0
Misc : 07/03/08 208 ensr r44803 8081 msd
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jul 18 07:16:22 2008
Quant Method : J:\ACQUDATA\6890D\METHODS\80810710.M
Quant Title : 608/8081A PESTICIDES
QLast Update : Fri Jul 11 13:38:39 2008
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Run 164129 (8081)

Extraction Tech:	[illegible]	Spiked By: [illegible]	Prep Method:	Key: COLUMBIA ANALYTICAL SERVICES - ROCHESTER, NY	Batch ID: E070308A
Extraction Date:	7/3/2008		☐ 3540C ☐ 3550B	Color: C = Colorless; Y = Yellow; B = Brown; BL = Black; G = Grey	
Concentration Tech:	LED	Spk Witness: LED	☒ 3510C ☐ 3520C	Clarity: CLR = Clear; CDY = Cloudy; OP = Opaque	Prep ID:
40 Day HT:	8/12/2008		☐ 3580A	Soils: F = Fine/Sand; M = Medium/Soil; C = Coarse/Rocks	

Client / Sub. #	Order #	Initial Wt. (g) / Initial Vol. (ml)	Appearance (see Key)	Analysis (Test) Requested	pH (Water) rec'd	pH adjusted	Conc. Date	Final Vol (ml)	Date Complete	Comments/ Emulsions
S	BLK	1000ml	C-CLR	608/8081	7		7/7	10mL	7/7	
	LCS	1000ml		608PCB	7					
	LCSD	1000ml		608PCB	7					
[redacted] R44729 S	1112950	1040ml	BL-OP	608PCB/PPL	8					1
S	1112950	1040ml		608PCB/PPL	8					2
1118498	LCS	1000ml	C-CLR	608PPL/8081	7					
1118499	LCSD	1000ml		608PPL/8081	7					
[redacted] R44803	1114419	1000ml	Y-CLR	8081A.NEVA	7			5ml		1/2ml surr + spike
	1114420	1000ml		8081A.NEVA	7					
	1114421	1060ml		8081A.NEVA	6					
1118500	1114421 MS	1040ml		8081A.NEVA	6					
1118501	1114421 MSD	1060ml		8081A.NEVA	6					
8 1118497	BLK2	1000ml	C-CLR	8081A.NEVA	7					
S [redacted] R-44822	1114726	1060ml	Y-CLR	608PPL/PCBS	7			10ml		
[redacted] R44803	1114756	1060ml	Green-CLR	8081 NevA	5			5ml		M-65-M 1/2ml surrogate
	1114758	1040ml	C-CLR	8081 NevA	6			5ml		E070208GWI

Jn 7/3/08

Spikes:			Amt.	Conc.	Lot#
(All samples had Surrogate added; LCS/LCSD, MS/MSD had Spike added)	☒	8081/8082	1 ml	1 ppm	0-559-198-D
	☐	PCB oil Surrogate	ml	ppm	
	☐	8151 water/soil Surr	ml	ppm	
	☐	95-3 Surrogate	ml	ppm	
	☒	PCB Spike	1 ml	5 ppm	0-559-161-D
	☒	608 Spike	1 ml	20/200 ppm	0-559-197-B
	☐	8081TCLP Spike	ml	ppm	
	☐	8151 water/soil Spike	ml	ppm	
	☐	95-3 Spike	ml	ppm	
	☐	Other:	ml	ppm	

Clean-Ups:

	Method	By/Date	Lot#
☐	8081 Florisil(3620B)		
☒	8081 / 8082 Hg(3660B)	LED 7/7/08	0-344-38-I
☒	8081 / 8082 Cu/TBA(3660B)	LED 7/7/08	0-345-92-P
☒	8082 Acid(3665A)	LED 7/7/08	0-344-37-J
☐	8081 / 8082 GPC(3640A)		

Method Summary:
1000 mls sample extracted with 60mls MeCl2 3x at neutral pH for 2 min.

Solvents:

☐ 50:50 Ace:MeCl2 Lot #	☒ Hexane Lot# 0-344-37-P 0-344-37-O	☐ Sulfuric Acid Lot#
☒ MeCl2 Lot # 0-344-37-X	☐ Ether Lot#	☐ Sodium Hydroxide Lot#
☐ Acetone Lot #	☒ Sodium Sulfate Lot# 0-345-86-K	☐ Other: Lot#

00679

7/17 608/808 6890 Meghan Rea

Pem	0-559-796F	8081071O.M	EY152 yPE
CCV11a	↓ 209F		End >15% Fc 153 yCC
CCV11b	203B		154 yCC
[redacted] R-44666	1117898 LCS		155 yQ
↓	1117899 LCSD		156 yQ
	111324 10.0		157 y
	1113696 10.0		158 y
	1118494 BLK		159 y MS
	~~1118497 TB~~ 1118498 LCS		160 yQ
	~~1118498~~ LCS 1118499 LCSD		161 yQ
	~~1118499 LCSD~~ 1118497		162 yQ
CCV12a	0-559-209F		163 yCC
CCV12b	↓ 203B		164 yCC
[redacted] R-44129	1112950		165 y DCB+
↓	1112950 RE		166 y ↓
[redacted] R-44805	1114419		167 y
↓	1114420		168 y
	1114421		169 y
	1118500 MS		170 yQ
	1118501 MSD		171 yQ
[redacted] R-44822	1114726		172 y
[redacted] R-44803	1114730		173 y Rptl2
↓	1114258		174 ~~Rptl2~~ rr 1:10
CCV13a	0-559-209F		175 y end >15%
CCV13b	↓ 203B	↓	176 yCC

7/21

8081 68100 Mesh Pcn

Perm 0-559-196F
CCW15a ↓ 209F
CCW15b ↓ 2033
[redacted] R-44666 1113954 1.0
[redacted] C-44553 1114756 2.0
[redacted] R-44666 1113256 20.
[redacted] R-44797 1119365 BIK
1119366 LCS
1119367 LCSP
1114366 1.0
1114382 1.0
1114714 1.0
1114718 1.0
CCW16a 0-559 2096
CCW16b ↓ 203C
[redacted]-44555 1119466 BIK
1119468 LCS
1119470 LCSO
1116254 1.0
1116255 1.0
~~1116265~~ 1119471 MS 1.0
1119472 MSO 1.0
1116265 1.0
1116274 1.0
1116275 1.0
1116279 1.0
CCW17a 0-559-2096
CCW17b ↓ 203C

8081 0110 M EM 179 YPE
180 YCC
181 YCC
DGT F.C. 182 Y Rpt 1/20
183 Y
184 Y
185 Y MB
186 YQ
187 YQ
188 Rpt 1/50
189 Y
190 Y
191 Y
192 YCC
193 YCC
194 YMB
195 YQ
196 YQ
197 Y
198 Rpt 1/2
199 YQ
200 YQ
201 Y
202 Y
203 Y
204 Y
205 Ycc
206 YCC

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55B

Date Sampled : 07/01/08 07:44 **Order #:** 1114419 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	1.88	MG/L	07/03/08	09:33	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	153	MG/L	07/07/08	08:25	1.0
BROMIDE	9056	0.100	2880	MG/L	07/24/08	15:39	2000.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
CHLORIDE	9056	0.200	1810	MG/L	07/03/08	11:18	1000.0
CONDUCTIVITY	120.1		10700	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	11.7	MG/L	07/17/08	10:06	100.0
NITRATE NITROGEN	9056	0.0500	27.1	MG/L	07/02/08	17:29	40.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	07/02/08	18:40	100.0
PH	9040	1.00	7.11	S.U.	07/02/08	13:30	1.0
SULFATE	9056	0.200	1210	MG/L	07/03/08	11:18	1000.0
SURFACTANTS	SM5540C	0.0200	1.71	MG/L	07/02/08	10:45	5.0
TOTAL ALKALINITY	SM2320B	2.00	153	MG/L	07/07/08	08:25	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0500 U	MG/L	07/10/08	10:41	5.0
TOTAL CYANIDE	9012.TOT	0.0100	2.64	MG/L	07/10/08	10:41	100.0
TOTAL CYANIDE	9012.TOT	0.0100	0.466	MG/L	07/10/08	10:41	25.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	9520	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.71	MG/L	07/31/08	19:12	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.06	MG/L	07/31/08	19:19	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.84	MG/L	07/31/08	19:27	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.81	MG/L	07/31/08	19:37	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.86	MG/L	07/31/08	19:37	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/07/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-55DB

Date Sampled : 07/01/08 **Order #:** 1114420 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	1.95	MG/L	07/03/08	09:33	2.0
BICARBONATE ALKALINITY	SM2320B	2.00	152	MG/L	07/07/08	08:25	1.0
BROMIDE	9056	0.100	2780	MG/L	07/25/08	12:20	2000.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
CHLORIDE	9056	0.200	1710	MG/L	07/03/08	12:00	1000.0
CONDUCTIVITY	120.1		10300	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	12.6	MG/L	07/17/08	10:16	100.0
NITRATE NITROGEN	9056	0.0500	27.5	MG/L	07/02/08	17:43	40.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	07/02/08	18:54	100.0
PH	9040	1.00	7.14	S.U.	07/02/08	13:30	1.0
SULFATE	9056	0.200	1160	MG/L	07/03/08	12:00	1000.0
SURFACTANTS	SM5540C	0.0200	1.56	MG/L	07/02/08	10:45	5.0
TOTAL ALKALINITY	SM2320B	2.00	152	MG/L	07/07/08	08:25	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0500 U	MG/L	07/10/08	10:41	5.0
TOTAL CYANIDE	9012.TOT	0.0100	3.14	MG/L	07/10/08	10:41	100.0
TOTAL CYANIDE	9012.TOT	0.0100	0.459	MG/L	07/10/08	10:41	25.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	9410	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	08/01/08	20:10	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.10	MG/L	08/01/08	20:18	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	08/01/08	20:26	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	08/01/08	20:35	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.00 U	MG/L	08/01/08	20:35	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/07/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-78B

Date Sampled : 07/01/08 08:40 **Order #:** 1114421 **Sample Matrix:** WATER
Date Received: 07/02/08 **Submission #:** R2844803

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	8.77	MG/L	07/03/08	09:33	10.0
BICARBONATE ALKALINITY	SM2320B	2.00	168	MG/L	07/07/08	08:25	1.0
BROMIDE	9056	0.100	3270	MG/L	07/24/08	16:35	2000.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
CHLORIDE	9056	0.200	1720	MG/L	07/03/08	12:14	1000.0
CONDUCTIVITY	120.1		11300	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	13.4	MG/L	07/17/08	10:27	100.0
NITRATE NITROGEN	9056	0.0500	47.6	MG/L	07/02/08	17:57	40.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	07/02/08	19:08	100.0
PH	9040	1.00	7.01	S.U.	07/02/08	13:30	1.0
SULFATE	9056	0.200	1170	MG/L	07/03/08	12:14	1000.0
SURFACTANTS	SM5540C	0.0200	1.98	MG/L	07/02/08	10:45	10.0
TOTAL ALKALINITY	SM2320B	2.00	168	MG/L	07/07/08	08:25	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0500 U	MG/L	07/10/08	10:41	5.0
TOTAL CYANIDE	9012.TOT	0.0100	2.61	MG/L	07/10/08	10:41	100.0
TOTAL CYANIDE	9012.TOT	0.0100	0.445	MG/L	07/10/08	10:41	25.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10800	MG/L	07/03/08	10:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.65	MG/L	07/31/08	20:19	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.36	MG/L	07/31/08	20:26	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.10	MG/L	07/31/08	20:34	1.0
TOTAL ORGANIC CARBON	9060	1.00	2.11	MG/L	07/31/08	20:44	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	2.05	MG/L	07/31/08	20:44	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/09/08	08:43	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/07/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : M-65B

Date Sampled : 07/02/08 07:45 **Order #:** 1114756 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	12.9	MG/L	07/17/08	09:16	10.0
BICARBONATE ALKALINITY	SM2320B	2.00	120	MG/L	07/07/08	08:25	1.0
BROMIDE	9056	0.100	6720	MG/L	07/24/08	17:18	4000.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
CHLORIDE	9056	0.200	2240	MG/L	07/03/08	22:26	400.0
CONDUCTIVITY	120.1		15800	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	32.5	MG/L	07/17/08	09:56	100.0
NITRATE NITROGEN	9056	0.0500	37.0	MG/L	07/03/08	21:58	40.0
NITRITE NITROGEN	9056	0.05	5.00 U	MG/L	07/03/08	22:12	100.0
PH	9040	1.00	7.18	S.U.	07/03/08	10:50	1.0
SULFATE	9056	0.200	1300	MG/L	07/03/08	22:26	400.0
SURFACTANTS	SM5540C	0.0200	1.01	MG/L	07/03/08	07:45	5.0
TOTAL ALKALINITY	SM2320B	2.00	120	MG/L	07/07/08	08:25	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0500 U	MG/L	07/10/08	10:41	5.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	17700	MG/L	07/08/08	10:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.43	MG/L	07/31/08	21:59	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.69	MG/L	07/31/08	22:07	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.52	MG/L	07/31/08	22:15	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.45	MG/L	07/31/08	22:24	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.52	MG/L	07/31/08	22:24	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/15/08	09:52	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	2.00	MG/L	07/09/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/07/08

ENSR International
Project Reference: TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Client Sample ID : EB070208GW1

Date Sampled : 07/02/08 06:50 **Order #:** 1114758 **Sample Matrix:** WATER
Date Received: 07/03/08 **Submission #:** R2844803

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1M	0.0500	0.0500 U	MG/L	07/17/08	09:16	1.0
BICARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
BROMIDE	9056	0.100	1.00 U	MG/L	07/23/08	17:39	10.0
CARBONATE ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
CHLORIDE	9056	0.200	0.200 U	MG/L	07/03/08	21:30	1.0
CONDUCTIVITY	120.1		3.20	umhos/cm	07/24/08	14:20	1.0
HEXAVALENT CHROMIUM	218.6	0.0100	0.100 U	MG/L	07/16/08	19:02	10.0
NITRATE NITROGEN	9056	0.0500	0.0500 U	MG/L	07/03/08	21:30	1.0
NITRITE NITROGEN	9056	0.05	0.0500 U	MG/L	07/03/08	21:30	1.0
PH	9040	1.00	6.09	S.U.	07/03/08	10:50	1.0
SULFATE	9056	0.200	0.200 U	MG/L	07/03/08	21:30	1.0
SURFACTANTS	SM5540C	0.0200	0.0200 U	MG/L	07/03/08	07:45	1.0
TOTAL ALKALINITY	SM2320B	2.00	2.00 U	MG/L	07/07/08	08:25	1.0
TOTAL CYANIDE	9012.TOT	0.0100	0.0500 U	MG/L	07/10/08	10:41	5.0
TOTAL DISSOLVED SOLIDS	SM2540C	10.0	10.0 U	MG/L	07/08/08	10:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/31/08	22:33	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/31/08	22:41	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/31/08	22:48	1.0
TOTAL ORGANIC CARBON	9060	1.00	1.00 U	MG/L	07/31/08	22:58	1.0
TOTAL ORGANIC CARBON AVG	TOCAVG	1.00	1.00 U	MG/L	07/31/08	22:58	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/15/08	09:52	1.0
TOTAL SUSPENDED SOLIDS	SM2540D	1.00	1.00 U	MG/L	07/09/08	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163366

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
AMMONIA	8.77	8.77	0	13.4	5.00	92	59 - 129

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163458
Percent Solid : 0.0

	PRECISION		
	ORIGINAL	DUPLICATE	RPD
BICARBONATE ALKALINITY	168	168	0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 164560

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
BROMIDE	3270	3240	1	5110	2000	92	71 - 122

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163459
Percent Solid : 0.0

PRECISION

	ORIGINAL	DUPLICATE	RPD
CARBONATE ALKALINITY	2.00 U	2.00 U	NC

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163509

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
CHLORIDE	1720	1740	1	3690	2000	99	72 - 118

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: umhos/cm
Run # : 164601
Percent Solid : 0.0

PRECISION

	ORIGINAL	DUPLICATE	RPD
CONDUCTIVITY	11300	11500	0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 164119

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
HEXAVALENT CHROMIUM	13.4	13.5	1	34.0	20.0	103	90 - 110

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163362

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
NITRATE NITROGEN	47.6	47.9	1	86.6	40.0	98	79 - 111

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163363

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
NITRITE NITROGEN	5.00 U	5.00 U	NC	92.9	100	93	70 - 130

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: S.U.
Run # : 163398
Percent Solid : 0.0

PRECISION

	ORIGINAL	DUPLICATE	RPD
PH	7.01	7.02	0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163511

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
SULFATE	1170	1190	2	3050	2000	94	61 - 128

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163403

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
SURFACTANTS	1.98	1.88	5	2.13	0.200	73	58 - 139

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163460

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL ALKALINITY	168	168	0	246	80.0	98	80 - 121

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/13/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163588

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL CYANIDE	0.0500 U	0.0500 U	NC	0.105	0.100	105	27 - 153

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/14/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163588

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL CYANIDE	0.445	0.456	1	0.519	0.100	D	27 - 153

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/14/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163588

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL CYANIDE	2.61	3.13	18	3.17	0.100	D	27 - 153

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163395
Percent Solid : 0.0

PRECISION

	ORIGINAL	DUPLICATE	RPD
TOTAL DISSOLVED SOLIDS	10800	10800	0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 164965

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL ORGANIC CARBON	2.11	2.08	1	11.1	10.0	90	78 - 129

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163406

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL PHOSPHORUS	0.0500 U	0.0500 U	NC	0.798	0.800	100	51 - 148

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 08/07/08
CAS Order # : 1114421 - M-78B
Client : ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312
Reported Units: MG/L
Run # : 163443
Percent Solid : 0.0

PRECISION

	ORIGINAL	DUPLICATE	RPD
TOTAL SUSPENDED SOLIDS	1.00 U	1.00 U	NC

J6169

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844803
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
NITRATE NITROGEN	0.0500 U	0.939	1.00	94	90 - 110	163362	MG/L
NITRITE NITROGEN	0.0500 U	0.976	1.00	98	90 - 110	163363	MG/L
AMMONIA	0.0500 U	0.476	0.500	95	90 - 110	163366	MG/L
TOTAL DISSOLVED SOLIDS	10.0 U	909	914	100	80 - 120	163395	MG/L
SURFACTANTS	0.0200 U	0.402	0.400	101	58 - 139	163403	MG/L
SURFACTANTS	0.0200 U	0.402	0.400	101	58 - 139	163404	MG/L
TOTAL PHOSPHORUS	0.0500 U	0.782	0.800	98	90 - 110	163406	MG/L
TOTAL SUSPENDED SOLIDS	1.00 U	196	211	93	80 - 120	163443	MG/L
TOTAL ALKALINITY	2.00 U	19.2	20.0	96	93 - 111	163460	MG/L
CHLORIDE	0.200 U	1.94	2.00	97	90 - 110	163509	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844803
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
SULFATE	0.200 U	1.85	2.00	93	90 - 110	163511	MG/L
NITRATE NITROGEN	0.0500 U	0.959	1.00	96	90 - 110	163515	MG/L
NITRITE NITROGEN	0.0500 U	0.955	1.00	96	90 - 110	163516	MG/L
TOTAL DISSOLVED SOLIDS	10.0 U	914	914	100	80 - 120	163550	MG/L
TOTAL SUSPENDED SOLIDS	1.00 U	210	211	100	80 - 120	163581	MG/L
TOTAL CYANIDE	0.0100 U	0.380	0.400	95	85 - 115	163588	MG/L
TOTAL PHOSPHORUS	0.0500 U	0.771	0.800	96	90 - 110	163774	MG/L
AMMONIA	0.0500 U	0.538	0.500	108	90 - 110	164055	MG/L
HEXAVALENT CHROMIUM	0.0100 U	0.203	0.200	102	90 - 110	164109	MG/L
HEXAVALENT CHROMIUM	0.0100 U	0.202	0.200	101	90 - 110	164119	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2844803
Client: ENSR International
TRONOX PHASE B INVESTIGATION PROJ #04020-023-4312

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
BROMIDE	0.100 U	0.966	1.00	97	90 - 110	164471	MG/L
BROMIDE	0.100 U	0.955	1.00	96	90 - 110	164560	MG/L
TOTAL ORGANIC CARBON	1.00 U	9.94	10.0	99	85 - 115	164965	MG/L
TOTAL ORGANIC CARBON	1.00 U	9.51	10.0	95	85 - 115	165050	MG/L

Run #: 163366
Analyte: NH3 350.1M AMMONIA
Printed: 07/03/08 15:37

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1114922	WATER	1.64		1.0	0.0500	91.4		07/03/2008		
BLK1		1114923	WATER	0.0500	U	1.0	0.0500			07/03/2008		
SPKB		1114924	WATER	0.472		1.0	0.0500	94.4		07/03/2008		
SPKB		1114926	WATER	0.470		1.0	0.0500	94.1		07/03/2008		
ESMP	R2844650	1112065	WATER	0.0500	U	1.0	0.0500			07/03/2008	RUN	ASPB
ESMP	R2844650	1112066	WATER	0.104		1.0	0.0500			07/03/2008	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.0500	U	1.0	0.0500			07/03/2008	RUN	ASPB
ESMP	R2844650	1112809	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1112810	WATER	0.0960		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1112811	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1112812	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1112871	WATER	1.90		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1112872	WATER	0.372		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844727	1112873	WATER	1690		1000.0	0.0500			07/03/2008		1
ESMP	R2844650	1112874	WATER	0.0500	U	1.0	0.0500			07/03/2008	QC	ASPB
LDUP		1114927	WATER	0.0500	U	1.0	0.0500			07/03/2008		
SPK1		1114928	WATER	0.482		1.0	0.0500	96.3		1		
ESMP	R2844734	1113042	WATER	0.0668		1.0	0.0500			07/03/2008		2
ESMP	R2844734	1113043	WATER	0.360		1.0	0.0500			07/03/2008		2
ESMP	R2844734	1113044	WATER	0.0500	U	1.0	0.0500			07/03/2008		2
ESMP	R2844734	1113045	WATER	0.0500	U	1.0	0.0500			07/03/2008		2
SPKB		1114930	WATER	0.473		1.0	0.0500	94.7		07/03/2008		
ESMP	R2844734	1113046	WATER	0.194		1.0	0.0500			07/03/2008	QC	2
LDUP		1114931	WATER	0.188		1.0	0.0500		2.93	07/03/2008		
SPK1		1114932	WATER	0.606		1.0	0.0500	82.3		07/03/2008		
ESMP	R2844734	1113047	WATER	0.0857		1.0	0.0500			07/03/2008		2
ESMP	R2844734	1113048	WATER	0.356		1.0	0.0500			07/03/2008		2
BLK5		1114935	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
ESMP	R2844666	1113245	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113249	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113250	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008	QC	ASPB
LDUP		1114933	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
SPK1		1114934	SOIL/SEDIME	~~49.5~~ 4.95		1.0	5.00	99.0		07/03/2008		
ESMP	R2844666	1113254	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113255	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113256	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113257	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113258	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113259	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844666	1113262	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844650	1113426	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1113427	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	2.45		2.0	0.0500			07/03/2008		ASPB
SPKB		1114936	WATER	0.474		1.0	0.0500	94.8		07/03/2008		
ESMP	R2844650	1113429	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	1.24		1.0	0.0500			07/03/2008		ASPB
ESMP	R2843635	1096177	WATER	19.8		10.0	0.0500			07/03/2008		1
ESMP	R2843635	1096178	WATER	0.139		1.0	0.0500			07/03/2008		1
ESMP	R2843635	1096180	WATER	1.37		1.0	0.0500			07/03/2008		1
ESMP	R2843635	1096181	WATER	0.205		1.0	0.0500			07/03/2008		1
ESMP	R2843635	1096182	WATER	0.0500	U	1.0	0.0500			07/03/2008		1

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844768	1113695	WATER	2.27		2.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	1113696	WATER	0.0506		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	1113697	WATER	0.556		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	1113698	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844768	1113699	WATER	0.0500	U	1.0	0.0500			07/03/2008		ASPB
ESMP	R2844783	1114080	WATER	3.69		2.0	0.0500			07/03/2008	RUN	2
ESMP	R2844508	1109493	WATER	0.0645		1.0	0.0500			07/03/2008		1
LDUP		1114937	WATER	0.0665		1.0	0.0500		3.05	07/03/2008		
SPK1		1114938	WATER	0.505		1.0	0.0500	88.1		07/03/2008		
ESMP	R2844508	1109495	WATER	0.0782		1.0	0.0500			07/03/2008		1
ESMP	R2844508	1109498	WATER	0.0500	U	1.0	0.0500			07/03/2008		1
SPKB		1114939	WATER	0.475		1.0	0.0500	95.0		07/03/2008		
BLK5		1114940	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	~~12.7~~ 1.27 CK7/8/08		1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008	QC	ASPB
LDUP		1114941	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		
SPK1		1114942	SOIL/SEDIME	~~50.0~~ 5.00 CK7/8/08		1.0	5.00	99.9		07/03/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	5.00	U	1.0	5.00			07/03/2008		ASPB
ESMP	R2844803	1114419	WATER	1.88		1.0	0.0500			07/03/2008		ASPB
ESMP	R2844803	1114420	WATER	1.95		2.0	0.0500			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	8.77		10.0	0.0500			07/03/2008	QC	ASPB
LDUP		1114943	WATER	8.77		10.0	0.0500		0.02	07/03/2008		
SPK1		1114944	WATER	13.4		10.0	0.0500	92.5		07/03/2008		
SPKB		1114946	WATER	0.476		1.0	0.0500	95.2		07/03/2008		

Records printed: 77

Creator: NMEAD
Creation Date: Jul 2, 2008 15:56:25
Last Modified: Jul 3, 2008 7:48:02
Description: QC 8000 350.1 Ammonia - RUN LOG - 0807030A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.000	1.0000	CalStd	
2	Standard B - 1.000	1.0000	CalStd	
3	Standard C - 0.500	1.0000	CalStd	
4	Standard D - 0.200	1.0000	CalStd	
5	Standard E - 0.100	1.0000	CalStd	
6	Standard F - 0.050	1.0000	CalStd	
7	Standard G - 0.020	1.0000	CalStd	
8	Standard H - 0.010	1.0000	CalStd	
9	Standard I - 0.000	1.0000	CalStd	
1	ICV TV= 1.80	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	LCS TV= 0.500	1.0000	Unknown	
4	CRDL 0.050	1.0000	Unknown	
5	CRDL 0.010	1.0000	Unknown	
6	CCV	1.0000	Unknown	
7	CCB	1.0000	Unknown	
8	1111026-44609	1.0000	Unknown	
9	1111031	1.0000	Unknown	
10	1111034	1.0000	Unknown	
11	1111035	1.0000	Unknown	
12	1111036	1.0000	Unknown	
13	1111037	1.0000	Unknown	
14	1111038	1.0000	Unknown	
15	1111039	1.0000	Unknown	
16	1111040	1.0000	Unknown	
17	1111041	1.0000	Unknown	
18	CCV	1.0000	Unknown	
19	CCB	1.0000	Unknown	
20	LCS	1.0000	Unknown	
21	1110578-44252	1.0000	Unknown	
22	1110579	1.0000	Unknown	
23	579 DUP	1.0000	Unknown	
24	579 SPK TV= 0.500	1.0000	Unknown	
25	1110580	1.0000	Unknown	
26	1111043-44609	1.0000	Unknown	
27	1111044	1.0000	Unknown	
28	1112968-44621	1.0000	Unknown	
29	1112969	1.0000	Unknown	
30	1112985-44252	1.0000	Unknown	
31	CCV	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1113014-44733	1.0000	Unknown	
34	1113015	1.0000	Unknown	
35	1113016	1.0000	Unknown	
36	1113017	1.0000	Unknown	
37	1113018	1.0000	Unknown	
38	018 DUP	1.0000	Unknown	
39	018 SPK TV= 0.500	1.0000	Unknown	
40	1113019	1.0000	Unknown	
41	1113020	1.0000	Unknown	
42	1113021	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	1113023	1.0000	Unknown	
47	1113024	1.0000	Unknown	
48	1113025	1.0000	Unknown	
49	1113026	1.0000	Unknown	
50	1113027	1.0000	Unknown	
51	1113136-44746	1.0000	Unknown	
52	136 DUP	1.0000	Unknown	
53	136 SPK TV= 0.500	1.0000	Unknown	} air between peaks not integrated
54	1113137	1.0000	Unknown	
55	1113138	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	1113139	1.0000	Unknown	+air spikes - rpt@# 14-tray2
59	1113142	1.0000	Unknown	
60	1113143	1.0000	Unknown	
61	1113144	1.0000	Unknown	
62	1113145	1.0000	Unknown	
63	1113146	1.0000	Unknown	
64	1113147	1.0000	Unknown	+air spikes-rpt@# 15-tray2
65	147 DUP	1.0000	Unknown	
66	147 SPK TV= 0.500	1.0000	Unknown	
67	1113148	1.0000	Unknown	
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	1113149	1.0000	Unknown	
72	1113150	1.0000	Unknown	+air spike-rpt@# 16-tray 2
73	1113151	1.0000	Unknown	
74	1113285	1.0000	Unknown	
75	1113733-44770	1.0000	Unknown	
76	1113734	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
77	1113735	1.0000	Unknown	
78	1113736	1.0000	Unknown	- air spike - rpt @ #17 - tray 2
79	736 DUP	1.0000	Unknown	
80	736 SPK TV= 0.500	1.0000	Unknown	
81	CCV	1.0000	Unknown	
82	CCB	1.0000	Unknown	
83	1113756-44771	1.0000	Unknown	
84	1113862-44778	1.0000	Unknown	- air spike not integrated
85	1113863	1.0000	Unknown	
86	1113864	1.0000	Unknown	
87	1113865	1.0000	Unknown	
88	1113866	1.0000	Unknown	
89	1113867	1.0000	Unknown	
90	1113868	1.0000	Unknown	
91	1113869	1.0000	Unknown	
92	1113870	1.0000	Unknown	
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	
95	LCS	1.0000	Unknown	
96	870 DUP	1.0000	Unknown	
97	870 SPK TV= 0.500	1.0000	Unknown	
98	1113871	1.0000	Unknown	
99	1113872	1.0000	Unknown	
100	1114342-44770	1.0000	Unknown	
101	1114343	1.0000	Unknown	
102	1114344	1.0000	Unknown	
103	1114345	1.0000	Unknown	
104	1114346	1.0000	Unknown	
105	1114347	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	
108	1114348	1.0000	Unknown	
109	1114349	1.0000	Unknown	
110	1114367-44798	1.0000	Unknown	
111	1114368	1.0000	Unknown	
112	368 DUP	1.0000	Unknown	- Bad integration - rpt @ #18 - tra
113	368 SPK TV= 0.500	1.0000	Unknown	
114	1114369	1.0000	Unknown	
115	1114370	1.0000	Unknown	
116	1114371	1.0000	Unknown	
117	1114372	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1114373	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
122	373 DUP	1.0000	Unknown	
123	373 SPK TV= 0.500	1.0000	Unknown	
124	1112065-44650	1.0000	Unknown	
125	1112066	1.0000	Unknown	
126	1112067	1.0000	Unknown	
127	1112809	1.0000	Unknown	
128	1112810	1.0000	Unknown	
129	1112811	1.0000	Unknown	
130	1112812	1.0000	Unknown	
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	
133	1112871	1.0000	Unknown	
134	1112872	1.0000	Unknown	
135	1112873-44727	1,000.0000	Unknown	
136	1112874-44650	1.0000	Unknown	
137	874 DUP	1.0000	Unknown	
138	874 SPK TV= 0.500	1.0000	Unknown	
139	1113042-44734	1.0000	Unknown	
140	1113043	1.0000	Unknown	
141	1113044	1.0000	Unknown	
142	1113045	1.0000	Unknown	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1113046	1.0000	Unknown	
147	046 DUP	1.0000	Unknown	
148	046 SPK TV= 0.500	1.0000	Unknown	
149	1113047	1.0000	Unknown	
150	1113048	1.0000	Unknown	
151	1113245-44666	1.0000	Unknown	soil: 25.0g → 250mL
152	1113249	1.0000	Unknown	↓ ↓ ↓
153	1113250	1.0000	Unknown	- air spike - rpt @ #19 - tray 2
154	250 DUP	1.0000	Unknown	soil: 25.0g → 250mL
155	250 SPK TV= 50.0	1.0000	Unknown	↓ ↓ ↓
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1113254	1.0000	Unknown	soil: 25.0g → 250mL
159	1113255	1.0000	Unknown	
160	1113256	1.0000	Unknown	
161	1113257	1.0000	Unknown	
162	1113258	1.0000	Unknown	
163	1113259	1.0000	Unknown	
164	1113262	1.0000	Unknown	
165	1113426-44650	1.0000	Unknown	
166	1113427	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
167	1113428	1.0000	Unknown	+ rpt @ # 20 - 1/2 - tray 2
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1113429	1.0000	Unknown	
172	1113430	1.0000	Unknown	
173	1096177-43635	1.0000	Unknown	+ rpt @ # 21 - tray 2 - 1/10
174	1096178	1.0000	Unknown	
175	1096180	1.0000	Unknown	
176	1096181	1.0000	Unknown	
177	1096182	1.0000	Unknown	
178	1113695-44768	1.0000	Unknown	+ rpt @ # 22 - tray 2 - 1/2
179	1113696	1.0000	Unknown	
180	1113697	1.0000	Unknown	
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	
183	1113698	1.0000	Unknown	
184	1113699	1.0000	Unknown	
185	1114080-44783	1.0000	Unknown	+ rpt @ # 23 - tray 2 - 1/2
186	1109493-44508	1.0000	Unknown	
187	493 DUP	1.0000	Unknown	
188	493 SPK TV = 0.500	1.0000	Unknown	
189	1109495	1.0000	Unknown	
190	1109498	1.0000	Unknown	
191	1114366-44797	1.0000	Unknown	soil: 25.0g → 250mL
192	1114376	1.0000	Unknown	↓ ↓ ↓
193	CCV	1.0000	Unknown	
194	CCB	1.0000	Unknown	
195	LCS	1.0000	Unknown	
196	1114379	1.0000	Unknown	soil: 25.0g → 250mL (sm. neg peaks. 2 PQL
197	1114382	1.0000	Unknown	↓ ↓ ↓)
198	1114419-44803	1.0000	Unknown	
199	CCV	1.0000	Unknown	
200	CCB	1.0000	Unknown	

Creator: NMEAD
Creation Date: Jul 2, 2008 15:59:23
Last Modified: Jul 3, 2008 13:23:08
Description: QC 8000 350.1 Ammonia - RUN LOG - 080703A2

Cup #	Sample ID	Manual Dilution	Sample Type	
1	MB-44666	1.0000	Unknown	soil: 25.0g → 250mL
2	MB-44797	1.0000	Unknown	
3	1114380-44797	1.0000	Unknown	
4	380 DUP	1.0000	Unknown	
5	380 SPK TV= 50.0	1.0000	Unknown	
6	1114420-44803	1.0000	Unknown	rpt @ # 26-1/2
7	1114421	1.0000	Unknown	
8	421 DUP	1.0000	Unknown	rpt @ #27 → 30-1/10
9	421 SPK TV= 0.500	1.0000	Unknown	
10	1113022-44733	1.0000	Unknown	
11	CCV	1.0000	Unknown	
12	CCB	1.0000	Unknown	
13	LCS	1.0000	Unknown	
14	1113139 RPT	1.0000	Unknown	
15	1113147 RPT	1.0000	Unknown	
16	1113150 RPT	1.0000	Unknown	
17	1113736 RPT	1.0000	Unknown	
18	1114368 RPT	1.0000	Unknown	
19	1113250 RPT	1.0000	Unknown	soil: 25.0g → 250mL
20	1113428 RPT 1/2	2.0000	Unknown	
21	1096177 RPT	10.0000	Unknown	
22	1113695 RPT	2.0000	Unknown	
23	1114080 RPT	2.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1114420 RPT 1/2	2.0000	Unknown	
27	1111421 RPT 1/10	10.0000	Unknown	
28	421 DUP RPT 1/10	10.0000	Unknown	
29	421 SPK RPT 1/10 TV=0.5	10.0000	Unknown	
30	CCV	1.0000	Unknown	
31	CCB	1.0000	Unknown	

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.80	03 Jul 2008	09:46:38	1	1.6459	1.0	1.00
2	ICB	03 Jul 2008	09:47:37	1	-0.0036	1.0	1.00
3	LCS TV= 0.500	03 Jul 2008	09:48:35	1	0.4722	1.0	1.00
4	CRDL 0.050	03 Jul 2008	09:49:33	1	0.0453	1.0	1.00
5	CRDL 0.010	03 Jul 2008	09:50:31	1	0.0123	1.0	1.00
6	CCV	03 Jul 2008	09:51:30	1	1.6880	1.0	1.00
7	CCB	03 Jul 2008	09:52:28	1	-0.0052	1.0	1.00
8	1111026-44609	03 Jul 2008	09:53:26	1	0.0583	1.0	1.00
9	1111031	03 Jul 2008	09:54:23	1	0.1214	1.0	1.00
10	1111034	03 Jul 2008	09:55:20	1	0.1035	1.0	1.00
11	1111035	03 Jul 2008	09:56:17	1	0.0634	1.0	1.00
12	1111036	03 Jul 2008	09:57:14	1	0.0640	1.0	1.00
13	1111037	03 Jul 2008	09:58:11	1	0.1000	1.0	1.00
14	1111038	03 Jul 2008	09:59:08	1	0.0152	1.0	1.00
15	1111039	03 Jul 2008	10:00:06	1	0.0201	1.0	1.00
16	1111040	03 Jul 2008	10:01:04	1	0.0178	1.0	1.00
17	1111041	03 Jul 2008	10:02:02	1	0.0180	1.0	1.00
18	CCV	03 Jul 2008	10:03:00	1	1.6978	1.0	1.00
19	CCB	03 Jul 2008	10:03:58	1	-0.0052	1.0	1.00
20	LCS	03 Jul 2008	10:04:56	1	0.4700	1.0	1.00
21	1110578-44252	03 Jul 2008	10:05:54	1	0.0255	1.0	1.00
22	1110579	03 Jul 2008	10:06:53	1	0.0729	1.0	1.00
23	579 DUP	03 Jul 2008	10:07:51	1	0.0684	1.0	1.00
24	579 SPK TV= 0.500	03 Jul 2008	10:08:49	1	0.5277	1.0	1.00
25	1110580	03 Jul 2008	10:09:46	1	0.0497	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
26	1111043-44609	03 Jul 2008	10:10:43	1	0.0100	1.0	1.00
27	1111044	03 Jul 2008	10:11:40	1	-0.0015	1.0	1.00
28	1112968-44621	03 Jul 2008	10:12:37	1	0.0218	1.0	1.00
29	1112969	03 Jul 2008	10:13:35	1	0.0146	1.0	1.00
30	1112985-44252	03 Jul 2008	10:14:32	1	0.2664	1.0	1.00
31	CCV	03 Jul 2008	10:15:31	1	1.6853	1.0	1.00
32	CCB	03 Jul 2008	10:16:30	1	-0.0052	1.0	1.00
33	1113014-44733	03 Jul 2008	10:17:29	1	0.0360	1.0	1.00
34	1113015	03 Jul 2008	10:18:27	1	0.0317	1.0	1.00
35	1113016	03 Jul 2008	10:19:25	1	0.0307	1.0	1.00
36	1113017	03 Jul 2008	10:20:24	1	0.0454	1.0	1.00
37	1113018	03 Jul 2008	10:21:22	1	0.0282	1.0	1.00
38	018 DUP	03 Jul 2008	10:22:20	1	0.0255	1.0	1.00
39	018 SPK TV= 0.500	03 Jul 2008	10:23:18	1	0.4993	1.0	1.00
40	1113019	03 Jul 2008	10:24:15	1	0.0213	1.0	1.00
41	1113020	03 Jul 2008	10:25:12	1	0.0293	1.0	1.00
42	1113021	03 Jul 2008	10:26:10	1	0.0284	1.0	1.00
43	CCV	03 Jul 2008	10:27:07	1	1.6767	1.0	1.00
44	CCB	03 Jul 2008	10:28:04	1	-0.0025	1.0	1.00
45	LCS	03 Jul 2008	10:29:01	1	0.4673	1.0	1.00
46	1113023	03 Jul 2008	10:30:00	1	0.0714	1.0	1.00
47	1113024	03 Jul 2008	10:30:59	1	0.0348	1.0	1.00
48	1113025	03 Jul 2008	10:31:59	1	0.0216	1.0	1.00
49	1113026	03 Jul 2008	10:32:57	1	0.0181	1.0	1.00
50	1113027	03 Jul 2008	10:33:55	1	0.0211	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1113136-44746	03 Jul 2008	10:34:53	1	0.7524	1.0	1.00	
52	136 DUP	03 Jul 2008	10:35:51	1	0.7561	1.0	1.00	
53	136 SPK TV= 0.500	03 Jul 2008	10:36:50	1	1.1913	1.0	1.00	air between peaks not integrated
54	1113137	03 Jul 2008	10:37:48	1	0.0397	1.0	1.00	
55	1113138	03 Jul 2008	10:38:46	1	0.0091	1.0	1.00	
56	CCV	03 Jul 2008	10:39:44	1	1.6869	1.0	1.00	
57	CCB	03 Jul 2008	10:40:41	1	-0.0006	1.0	1.00	
58	1113139	03 Jul 2008	10:41:38	1	0.3955	1.0	1.00	-air spikes - rpt @ #14 - tray2
59	1113142	03 Jul 2008	10:42:35	1	0.0186	1.0	1.00	
60	1113143	03 Jul 2008	10:43:32	1	0.0313	1.0	1.00	
61	1113144	03 Jul 2008	10:44:32	1	1.5162	1.0	1.00	
62	1113145	03 Jul 2008	10:45:31	1	0.0672	1.0	1.00	
63	1113146	03 Jul 2008	10:46:30	1	0.0201	1.0	1.00	
64	1113147	03 Jul 2008	10:47:29	1	0.0075	1.0	1.00	- air spikes - rpt @ #15 - tray2
65	147 DUP	03 Jul 2008	10:48:28	1	0.0145	1.0	1.00	
66	147 SPK TV= 0.500	03 Jul 2008	10:49:27	1	0.4733	1.0	1.00	
67	1113148	03 Jul 2008	10:50:25	1	0.1958	1.0	1.00	
68	CCV	03 Jul 2008	10:51:23	1	1.6562	1.0	1.00	
69	CCB	03 Jul 2008	10:52:21	1	-0.0052	1.0	1.00	
70	LCS	03 Jul 2008	10:53:19	1	0.4520	1.0	1.00	
71	1113149	03 Jul 2008	10:54:17	1	0.0272	1.0	1.00	
72	1113150	03 Jul 2008	10:55:16	1	0.0320	1.0	1.00	- air spike - rpt @ #16 - tray2
73	1113151	03 Jul 2008	10:56:13	1	0.0469	1.0	1.00	
74	1113285	03 Jul 2008	10:57:10	1	0.0472	1.0	1.00	
75	1113733-44770	03 Jul 2008	10:58:07	1	0.0060	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
76	1113734	03 Jul 2008	10:59:06	1	0.0030	1.0	1.00	
77	1113735	03 Jul 2008	11:00:06	1	0.0070	1.0	1.00	
78	1113736	03 Jul 2008	11:01:05	1	0.0249	1.0	1.00	- air spike - rpt @ #17 - tray 2
79	736 DUP	03 Jul 2008	11:02:04	1	0.0248	1.0	1.00	
80	736 SPK TV= 0.500	03 Jul 2008	11:03:03	1	0.4677	1.0	1.00	
81	CCV	03 Jul 2008	11:04:02	1	1.6646	1.0	1.00	
82	CCB	03 Jul 2008	11:05:00	1	-0.0040	1.0	1.00	
83	1113756-44771	03 Jul 2008	11:05:58	1	0.1639	1.0	1.00	
84	1113862-44778	03 Jul 2008	11:06:56	1	0.0171	1.0	1.00	- air spike not integrated
85	1113863	03 Jul 2008	11:07:54	1	0.0244	1.0	1.00	
86	1113864	03 Jul 2008	11:08:52	1	0.0148	1.0	1.00	
87	1113865	03 Jul 2008	11:09:50	1	0.1044	1.0	1.00	
88	1113866	03 Jul 2008	11:10:49	1	0.0282	1.0	1.00	
89	1113867	03 Jul 2008	11:11:46	1	0.0168	1.0	1.00	
90	1113868	03 Jul 2008	11:12:43	1	0.0084	1.0	1.00	
91	1113869	03 Jul 2008	11:13:42	1	0.0020	1.0	1.00	
92	1113870	03 Jul 2008	11:14:41	1	0.0010	1.0	1.00	
93	CCV	03 Jul 2008	11:15:41	1	1.6710	1.0	1.00	
94	CCB	03 Jul 2008	11:16:40	1	-0.0052	1.0	1.00	
95	LCS	03 Jul 2008	11:17:39	1	0.4721	1.0	1.00	
96	870 DUP	03 Jul 2008	11:18:38	1	-0.0004	1.0	1.00	
97	870 SPK TV= 0.500	03 Jul 2008	11:19:37	1	0.4653	1.0	1.00	
98	1113871	03 Jul 2008	11:20:37	1	0.0045	1.0	1.00	
99	1113872	03 Jul 2008	11:21:35	1	0.0055	1.0	1.00	
100	1114342-44770	03 Jul 2008	11:22:33	1	0.0094	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
101	1114343	03 Jul 2008	11:23:31	1	0.0090	1.0	1.00	
102	1114344	03 Jul 2008	11:24:29	1	0.0108	1.0	1.00	
103	1114345	03 Jul 2008	11:25:27	1	0.0105	1.0	1.00	
104	1114346	03 Jul 2008	11:26:25	1	0.0039	1.0	1.00	
105	1114347	03 Jul 2008	11:27:24	1	0.0057	1.0	1.00	
106	CCV	03 Jul 2008	11:28:24	1	1.7096	1.0	1.00	
107	CCB	03 Jul 2008	11:29:23	1	-0.0052	1.0	1.00	
108	1114348	03 Jul 2008	11:30:22	1	0.0055	1.0	1.00	
109	1114349	03 Jul 2008	11:31:22	1	0.0144	1.0	1.00	
110	1114367-44798	03 Jul 2008	11:32:21	1	0.0086	1.0	1.00	
111	1114368	03 Jul 2008	11:33:20	1	0.0032	1.0	1.00	
112	368 DUP	03 Jul 2008	11:34:19	1	-0.0046	1.0	1.00	-Bad integration - pt @ #18 - tray 2
113	368 SPK TV= 0.500	03 Jul 2008	11:35:18	1	0.4692	1.0	1.00	
114	1114369	03 Jul 2008	11:36:17	1	0.0155	1.0	1.00	
115	1114370	03 Jul 2008	11:37:16	1	0.0180	1.0	1.00	
116	1114371	03 Jul 2008	11:38:14	1	0.0141	1.0	1.00	
117	1114372	03 Jul 2008	11:39:12	1	0.0078	1.0	1.00	
118	CCV	03 Jul 2008	11:40:10	1	1.6987	1.0	1.00	
119	CCB	03 Jul 2008	11:41:08	1	-0.0052	1.0	1.00	
120	LCS	03 Jul 2008	11:42:06	1	0.4703	1.0	1.00	
121	1114373	03 Jul 2008	11:43:06	1	0.0246	1.0	1.00	
122	373 DUP	03 Jul 2008	11:44:07	1	0.0226	1.0	1.00	
123	373 SPK TV= 0.500	03 Jul 2008	11:45:06	1	0.4970	1.0	1.00	
124	1112065-44650	03 Jul 2008	11:46:05	1	0.0486	1.0	1.00	
125	1112066	03 Jul 2008	11:47:04	1	0.1042	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
126	1112067	03 Jul 2008	11:48:03	1	0.0272	1.0	1.00
127	1112809	03 Jul 2008	11:49:03	1	0.0040	1.0	1.00
128	1112810	03 Jul 2008	11:50:02	1	0.0960	1.0	1.00
129	1112811	03 Jul 2008	11:51:01	1	0.0285	1.0	1.00
130	1112812	03 Jul 2008	11:52:00	1	0.0071	1.0	1.00
131	CCV	03 Jul 2008	11:52:58	1	1.7271	1.0	1.00
132	CCB	03 Jul 2008	11:53:56	1	-0.0032	1.0	1.00
133	1112871	03 Jul 2008	11:54:55	1	1.9021	1.0	1.00
134	1112872	03 Jul 2008	11:55:53	1	0.3723	1.0	1.00
135	1112873-44727	03 Jul 2008	11:56:51	1	1692.2659	1000.0	1.00
136	1112874-44650	03 Jul 2008	11:57:51	1	0.0149	1.0	1.00
137	874 DUP	03 Jul 2008	11:58:51	1	0.0131	1.0	1.00
138	874 SPK TV= 0.500	03 Jul 2008	11:59:52	1	0.4816	1.0	1.00
139	1113042-44734	03 Jul 2008	12:00:51	1	0.0668	1.0	1.00
140	1113043	03 Jul 2008	12:01:50	1	0.3603	1.0	1.00
141	1113044	03 Jul 2008	12:02:49	1	-0.0052	1.0	1.00
142	1113045	03 Jul 2008	12:03:48	1	0.0348	1.0	1.00
143	CCV	03 Jul 2008	12:04:47	1	1.7225	1.0	1.00
144	CCB	03 Jul 2008	12:05:46	1	-0.0029	1.0	1.00
145	LCS	03 Jul 2008	12:06:46	1	0.4733	1.0	1.00
146	1113046	03 Jul 2008	12:07:45	1	0.1945	1.0	1.00
147	046 DUP	03 Jul 2008	12:08:43	1	0.1884	1.0	1.00
148	046 SPK TV= 0.500	03 Jul 2008	12:09:41	1	0.6056	1.0	1.00
149	1113047	03 Jul 2008	12:10:39	1	0.0857	1.0	1.00
150	1113048	03 Jul 2008	12:11:37	1	0.3556	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
151	1113245-44666	03 Jul 2008	12:12:38	1	0.0444	1.0	1.00 = ~~4.44~~ nm 7/3/08 <5.00
152	1113249	03 Jul 2008	12:13:38	1	0.0346	1.0	1.00 = <5.00
153	1113250	03 Jul 2008	12:14:38	1	0.0305	1.0	1.00 = air spike - rpt @ # 19 - tray 2
154	250 DUP 5.00	03 Jul 2008	12:15:38	1	0.0459	1.0	1.00 = <5.00
155	250 SPK TV= ~~50.0~~	03 Jul 2008	12:16:38	1	0.4952	1.0	1.00 = ~~49.52~~ 4.952 OK 7/8/08
156	CCV OK 7/8/08	03 Jul 2008	12:17:37	1	1.7151	1.0	1.00
157	CCB	03 Jul 2008	12:18:36	1	-0.0052	1.0	1.00
158	1113254	03 Jul 2008	12:19:35	1	0.0043	1.0	1.00 = <5.00
159	1113255	03 Jul 2008	12:20:34	1	-0.0035	1.0	1.00 = <5.00
160	1113256	03 Jul 2008	12:21:34	1	0.0123	1.0	1.00 = <5.00
161	1113257	03 Jul 2008	12:22:33	1	0.0336	1.0	1.00 = <5.00
162	1113258	03 Jul 2008	12:23:32	1	-0.0021	1.0	1.00 = <5.00
163	1113259	03 Jul 2008	12:24:30	1	0.0425	1.0	1.00 = <5.00
164	1113262	03 Jul 2008	12:25:28	1	0.0272	1.0	1.00 = <5.00
165	1113426-44650	03 Jul 2008	12:26:27	1	0.0274	1.0	1.00
166	1113427	03 Jul 2008	12:27:27	1	0.0112	1.0	1.00
167	1113428	03 Jul 2008	12:28:27	1	2.4140	1.0	1.00 - rpt @ # 20 - tray 2 - 1/2
168	CCV	03 Jul 2008	12:29:28	1	1.7314	1.0	1.00
169	CCB	03 Jul 2008	12:30:28	1	-0.0038	1.0	1.00
170	LCS	03 Jul 2008	12:31:28	1	0.4741	1.0	1.00
171	1113429	03 Jul 2008	12:32:28	1	0.0475	1.0	1.00
172	1113430	03 Jul 2008	12:33:27	1	1.2456	1.0	1.00
173	1096177-43635	03 Jul 2008	12:34:27	1	13.4950	1.0	1.00 - rpt @ # 21 - tray 2 - 1/10
174	1096178	03 Jul 2008	12:35:26	1	0.1388	1.0	1.00
175	1096180	03 Jul 2008	12:36:25	1	1.3713	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
176	1096181	03 Jul 2008	12:37:24	1	0.2053	1.0	1.00	
177	1096182	03 Jul 2008	12:38:23	1	0.0189	1.0	1.00	
178	1113695-44768	03 Jul 2008	12:39:22	1	2.1797	1.0	1.00	– rpt @ # 22 - tray 2 - 1/2
179	1113696	03 Jul 2008	12:40:21	1	0.0506	1.0	1.00	
180	1113697	03 Jul 2008	12:41:19	1	0.5559	1.0	1.00	
181	CCV	03 Jul 2008	12:42:19	1	1.7279	1.0	1.00	
182	CCB	03 Jul 2008	12:43:19	1	-0.0052	1.0	1.00	
183	1113698	03 Jul 2008	12:44:20	1	0.0219	1.0	1.00	
184	1113699	03 Jul 2008	12:45:20	1	0.0268	1.0	1.00	
185	1114080-44783	03 Jul 2008	12:46:20	1	2.9123	1.0	1.00	– rpt @ # 23 - tray 2 - 1/2
186	1109493-44508	03 Jul 2008	12:47:20	1	0.0645	1.0	1.00	
187	493 DUP	03 Jul 2008	12:48:20	1	0.0665	1.0	1.00	
188	493 SPK TV= 0.500	03 Jul 2008	12:49:20	1	0.5048	1.0	1.00	
189	1109495	03 Jul 2008	12:50:19	1	0.0782	1.0	1.00	CK 7/8/08
190	1109498	03 Jul 2008	12:51:18	1	0.0243	1.0	1.00	
191	1114366-44797	03 Jul 2008	12:52:18	1	0.1271	1.0	1.00	= ~~12.77~~ 1.271
192	1114376	03 Jul 2008	12:53:17	1	0.0422	1.0	1.00	= < 5.00
193	CCV	03 Jul 2008	12:54:16	1	1.6883	1.0	1.00	
194	CCB	03 Jul 2008	12:55:15	1	-0.0052	1.0	1.00	
195	LCS	03 Jul 2008	12:56:13	1	0.4750	1.0	1.00	
196	1114379	03 Jul 2008	12:57:14	1	-0.0052	1.0	1.00	= < 5.00 } sm. neg. peaks - < PQL
197	1114382	03 Jul 2008	12:58:14	1	-0.0004	1.0	1.00	= < 5.00
198	1114419-44803	03 Jul 2008	12:59:14	1	1.8791	1.0	1.00	
199	CCV	03 Jul 2008	13:00:14	1	1.6855	1.0	1.00	
200	CCB	03 Jul 2008	13:01:15	1	-0.0052	1.0	1.00	

oil → 50mL
og → 250mL

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 13:03:25
DATA FILENAME: C:\OMNION\DATA\080703A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080703A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

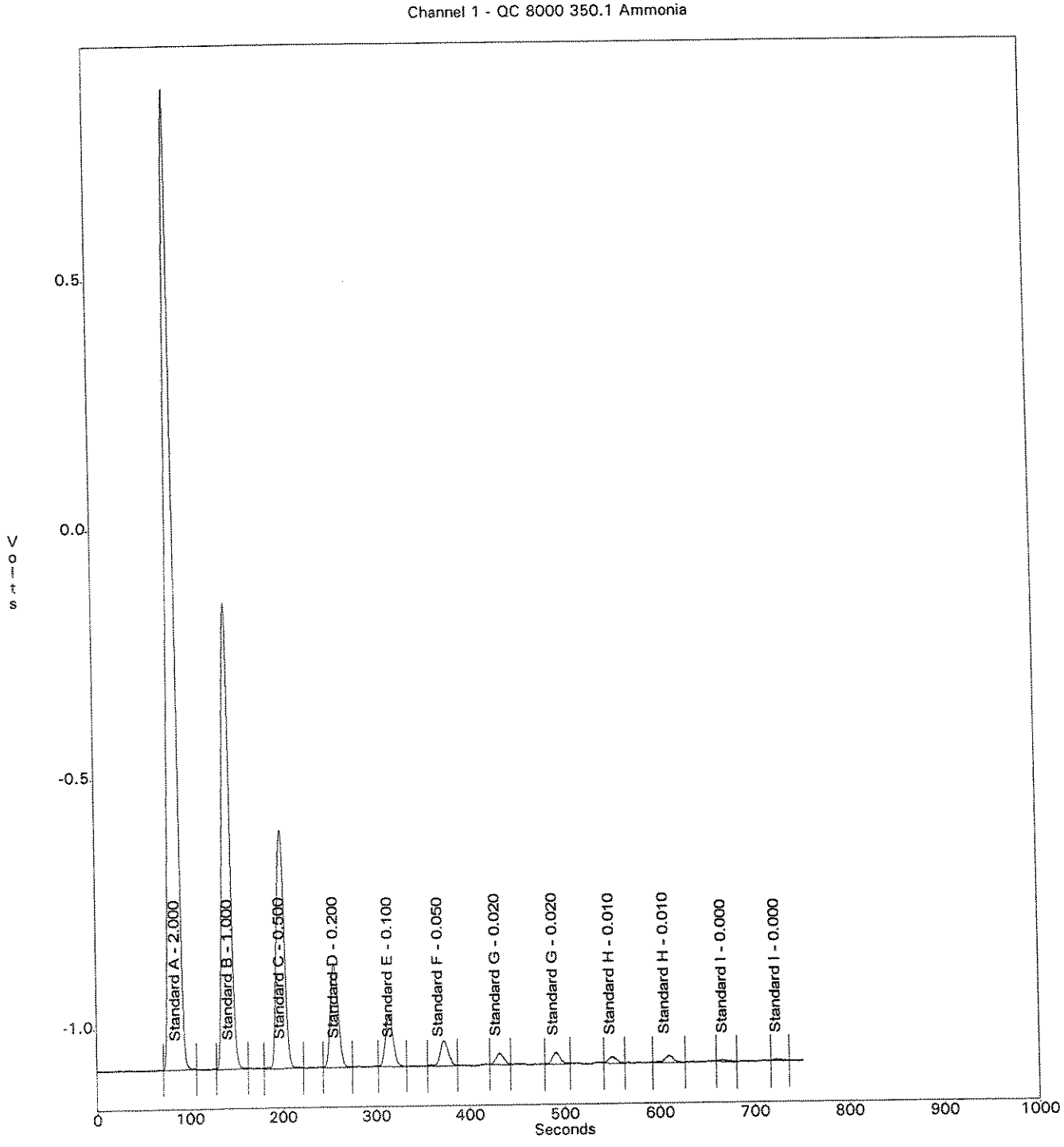
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	MB-44666	03 Jul 2008	13:03:28	1	0.0195	1.0	1.00 = <5.00
2	MB-44797	03 Jul 2008	13:04:27	1	0.0142	1.0	1.00 = <5.00
3	1114380-44797	03 Jul 2008	13:05:25	1	0.0117	1.0	1.00 = <5.00
4	380 DUP	03 Jul 2008	13:06:23	1	0.0127	1.0	1.00 = <5.00
5	380 SPK TV= 50.0	03 Jul 2008	13:07:21	1	0.4997	1.0	1.00 = ~~49.97~~ 4.997 CAL Stds
6	1114420-44803	03 Jul 2008	13:08:19	1	2.0370	1.0	1.00 - rpt @ # 26-1/2
7	1114421	03 Jul 2008	13:09:18	1	7.9779	1.0	1.00
8	421 DUP	03 Jul 2008	13:10:16	1	7.9875	1.0	1.00 } rpt @ # 27-30 - 1/10
9	421 SPK TV= 0.500	03 Jul 2008	13:11:13	1	8.3207	1.0	1.00
10	1113022-44733	03 Jul 2008	13:12:10	1	0.0497	1.0	1.00
11	CCV	03 Jul 2008	13:13:07	1	1.6956	1.0	1.00
12	CCB	03 Jul 2008	13:14:04	1	-0.0016	1.0	1.00
13	LCS	03 Jul 2008	13:15:01	1	0.4761	1.0	1.00
14	1113139 RPT	03 Jul 2008	13:15:58	1	0.3796	1.0	1.00
15	1113147 RPT	03 Jul 2008	13:16:56	1	0.0217	1.0	1.00
16	1113150 RPT	03 Jul 2008	13:17:54	1	0.0317	1.0	1.00
17	1113736 RPT	03 Jul 2008	13:18:53	1	0.0320	1.0	1.00
18	1114368 RPT dup	03 Jul 2008	13:19:51	1	0.0005	1.0	1.00
19	1113250 RPT	03 Jul 2008	13:20:49	1	0.0332	1.0	1.00 = <5.00
20	1113428 RPT 1/2	03 Jul 2008	13:21:48	1	2.4465	2.0	1.00
21	1096177 RPT	03 Jul 2008	13:22:46	1	19.7944	10.0	1.00
22	1113695 RPT	03 Jul 2008	13:23:44	1	2.2676	2.0	1.00
23	1114080 RPT	03 Jul 2008	13:24:42	1	3.6937	2.0	1.00
24	CCV	03 Jul 2008	13:25:40	1	1.7017	1.0	1.00
25	CCB	03 Jul 2008	13:26:38	1	0.0004	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 13:03:25
DATA FILENAME: C:\OMNION\DATA\080703A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080703A2.TRA

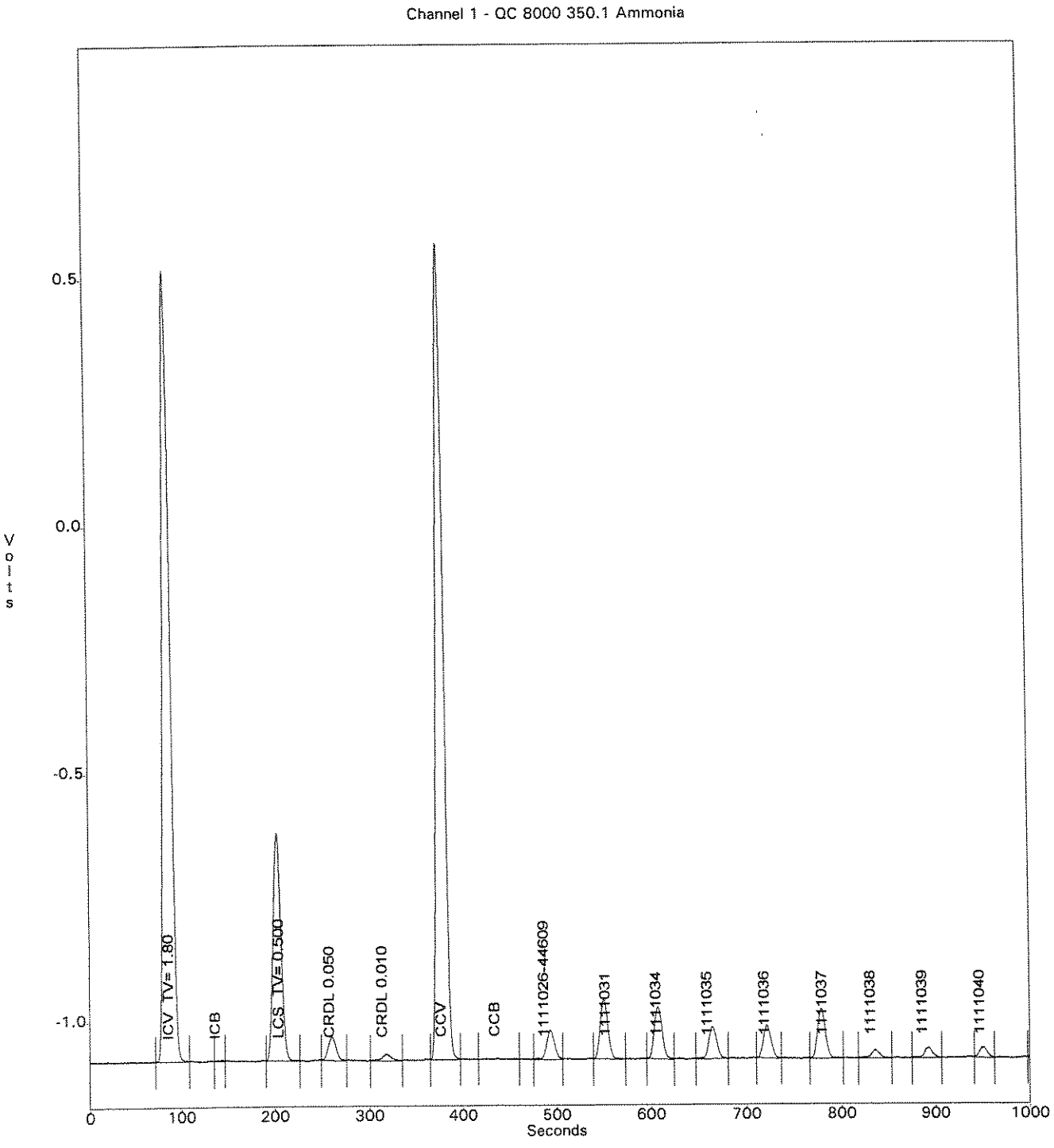
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
26	1114420 RPT 1/2	03 Jul 2008	13:27:35	1	1.9527	2.0	1.00
27	1111421 RPT 1/10	03 Jul 2008	13:28:32	1	8.7744	10.0	1.00
28	421 DUP RPT 1/10	03 Jul 2008	13:29:29	1	8.7686	10.0	1.00
29	421 SPK RPT 1/10 TV=0.5	03 Jul 2008	13:30:26	1	13.3925	10.0	1.00
30	CCV	03 Jul 2008	13:31:23	1	1.6872	1.0	1.00
31	CCB	03 Jul 2008	13:32:22	1	-0.0052	1.0	1.00

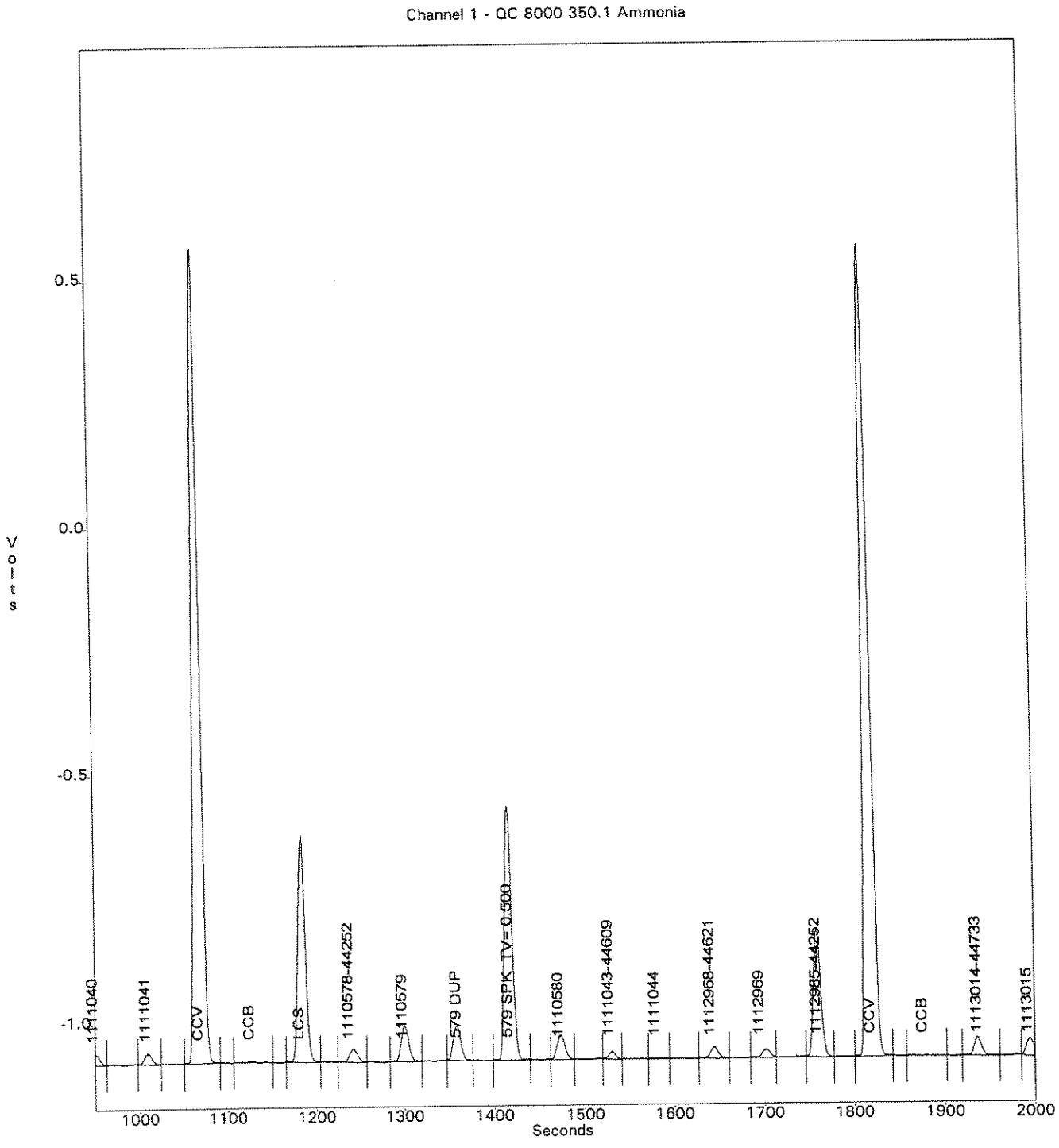
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:33:00
DATA FILENAME: C:\OMNION\DATA\0807030A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



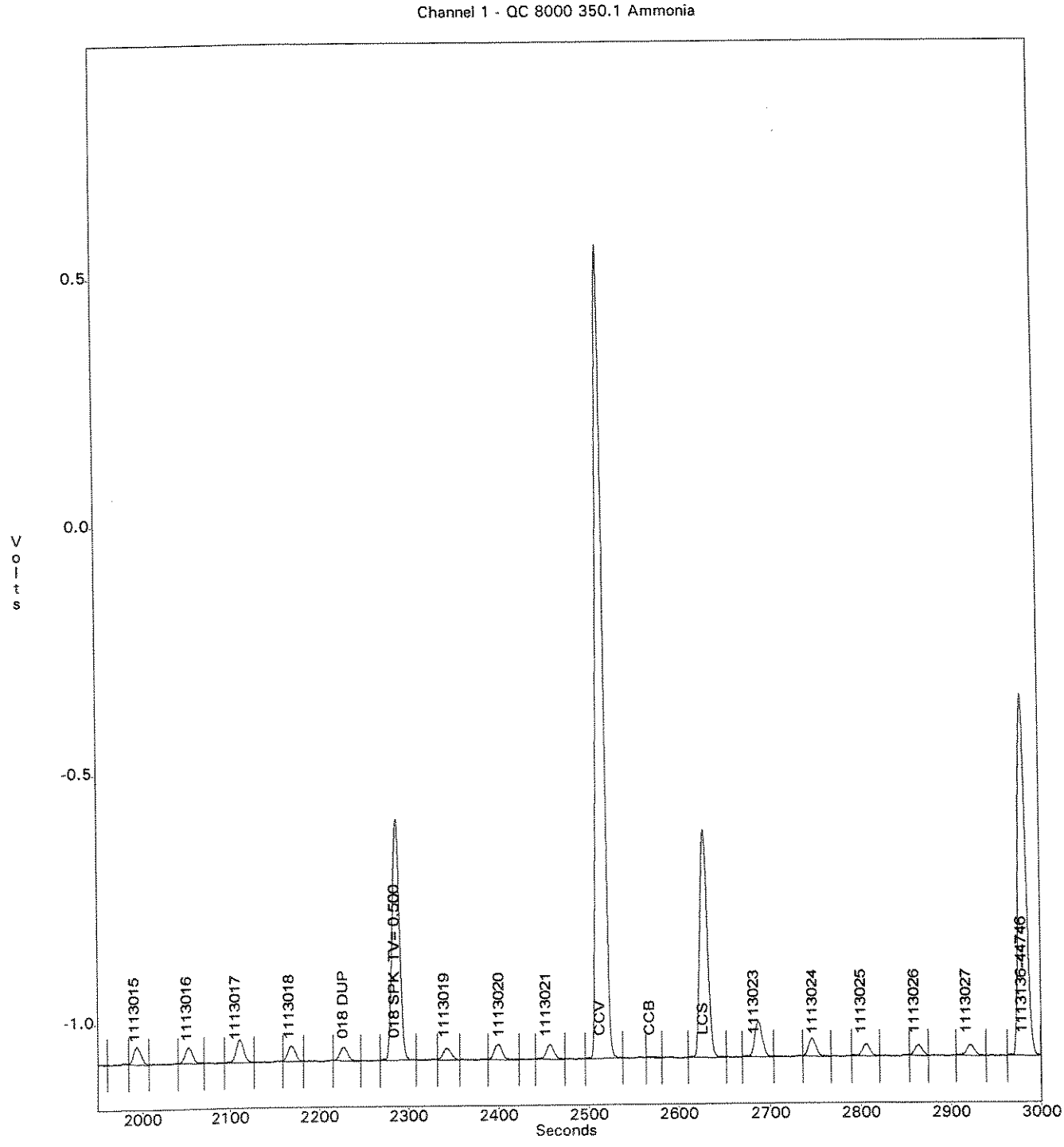
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



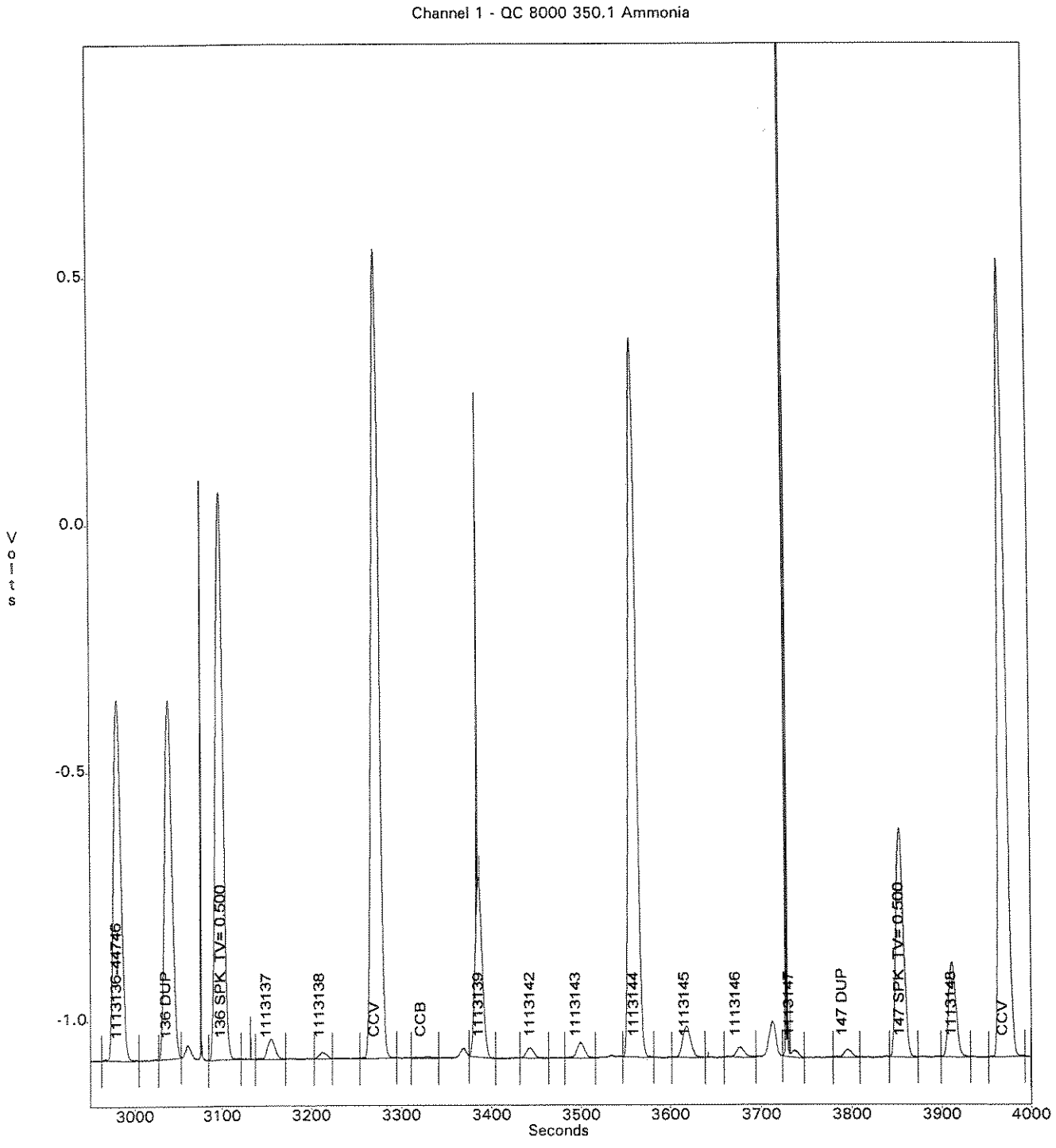
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

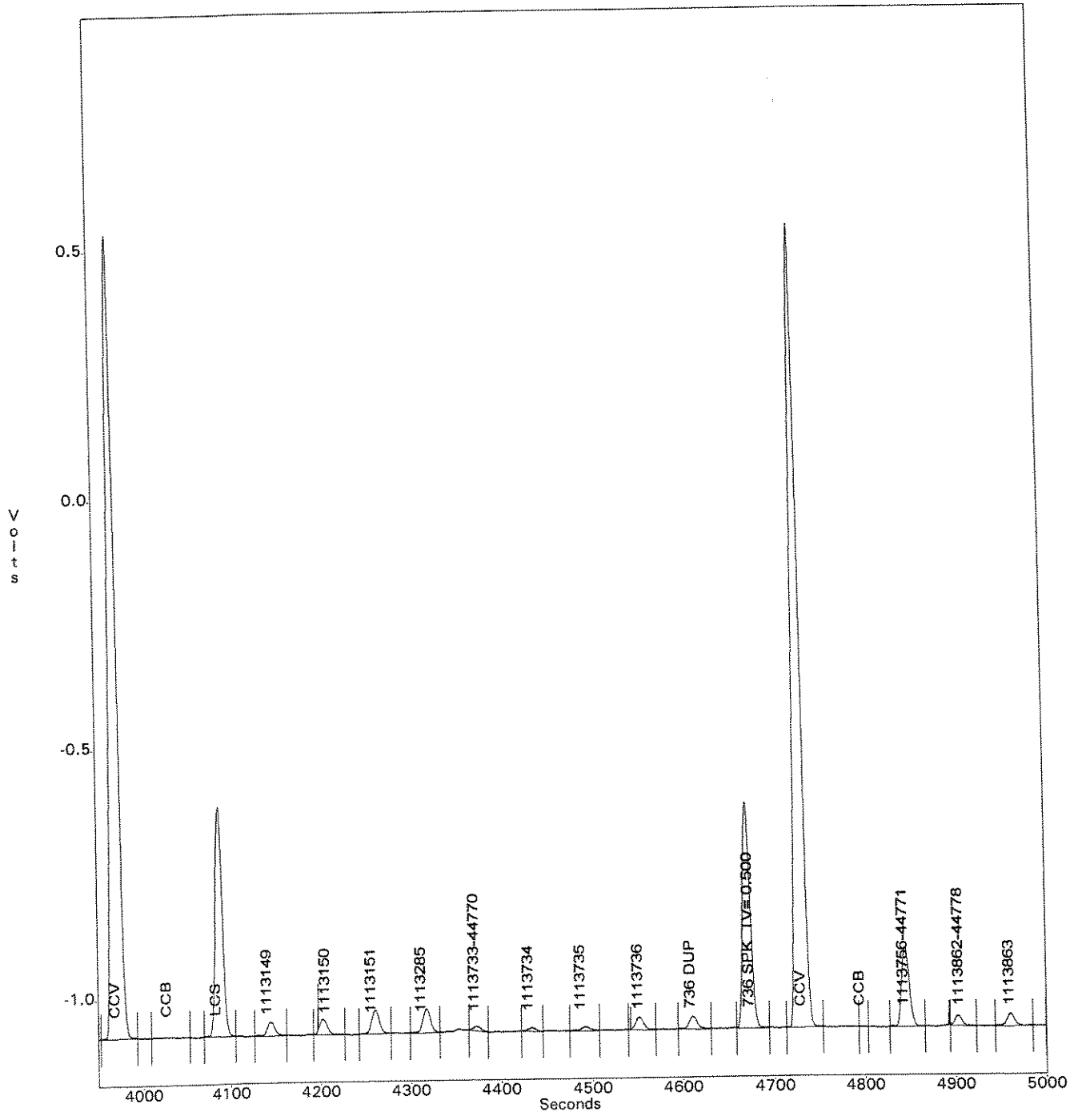


OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

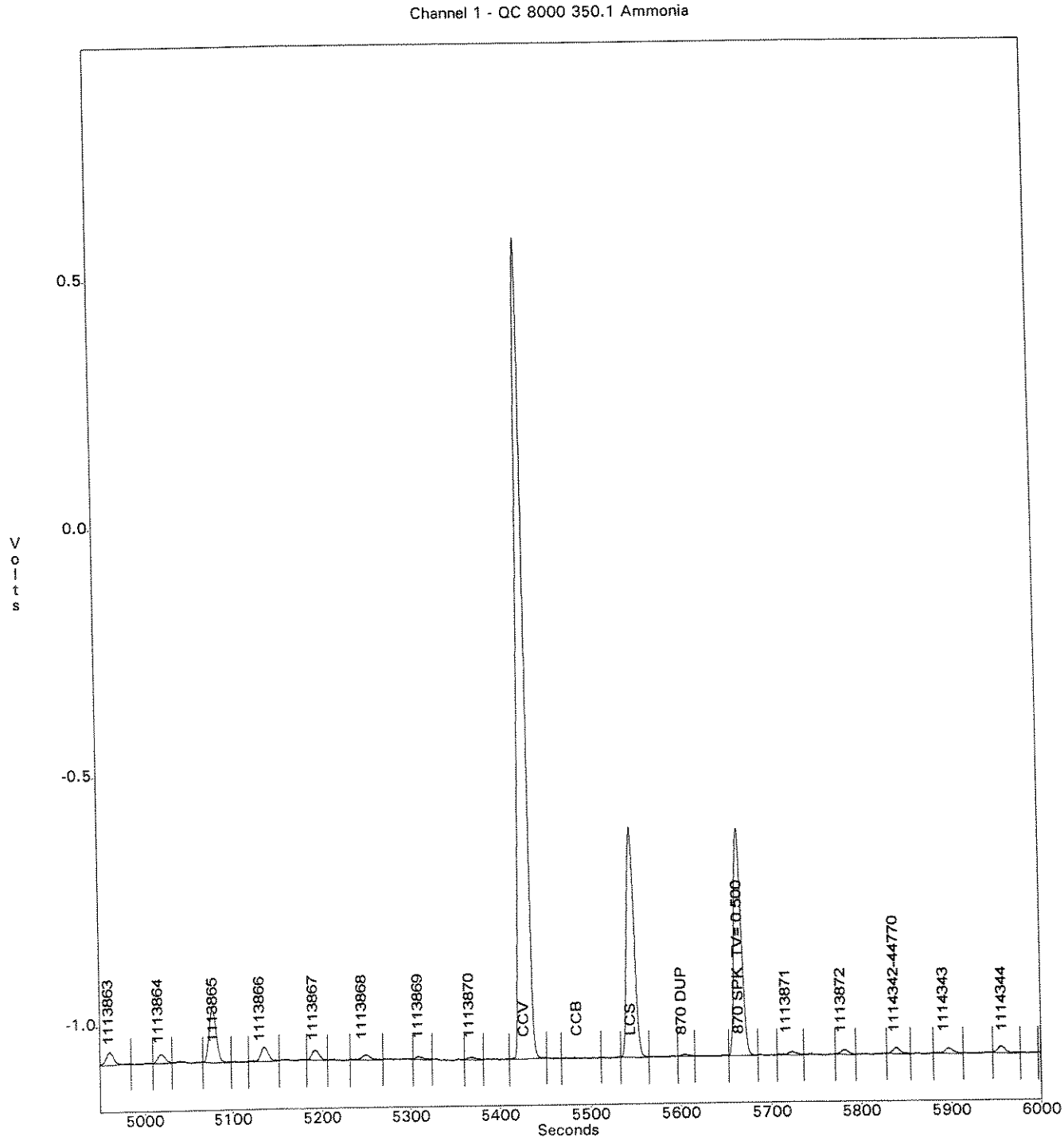


OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

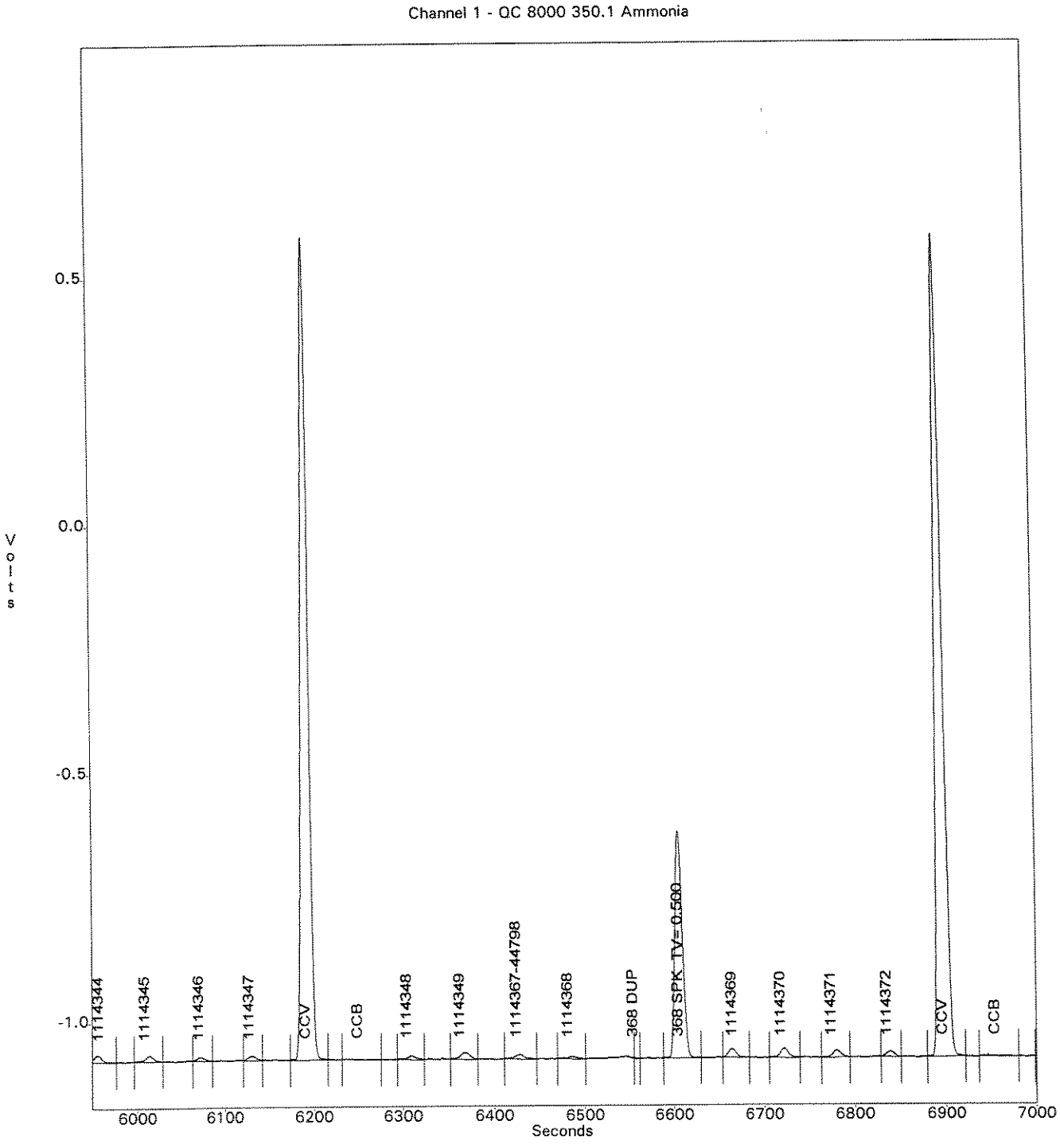
Channel 1 - QC 8000 350.1 Ammonia



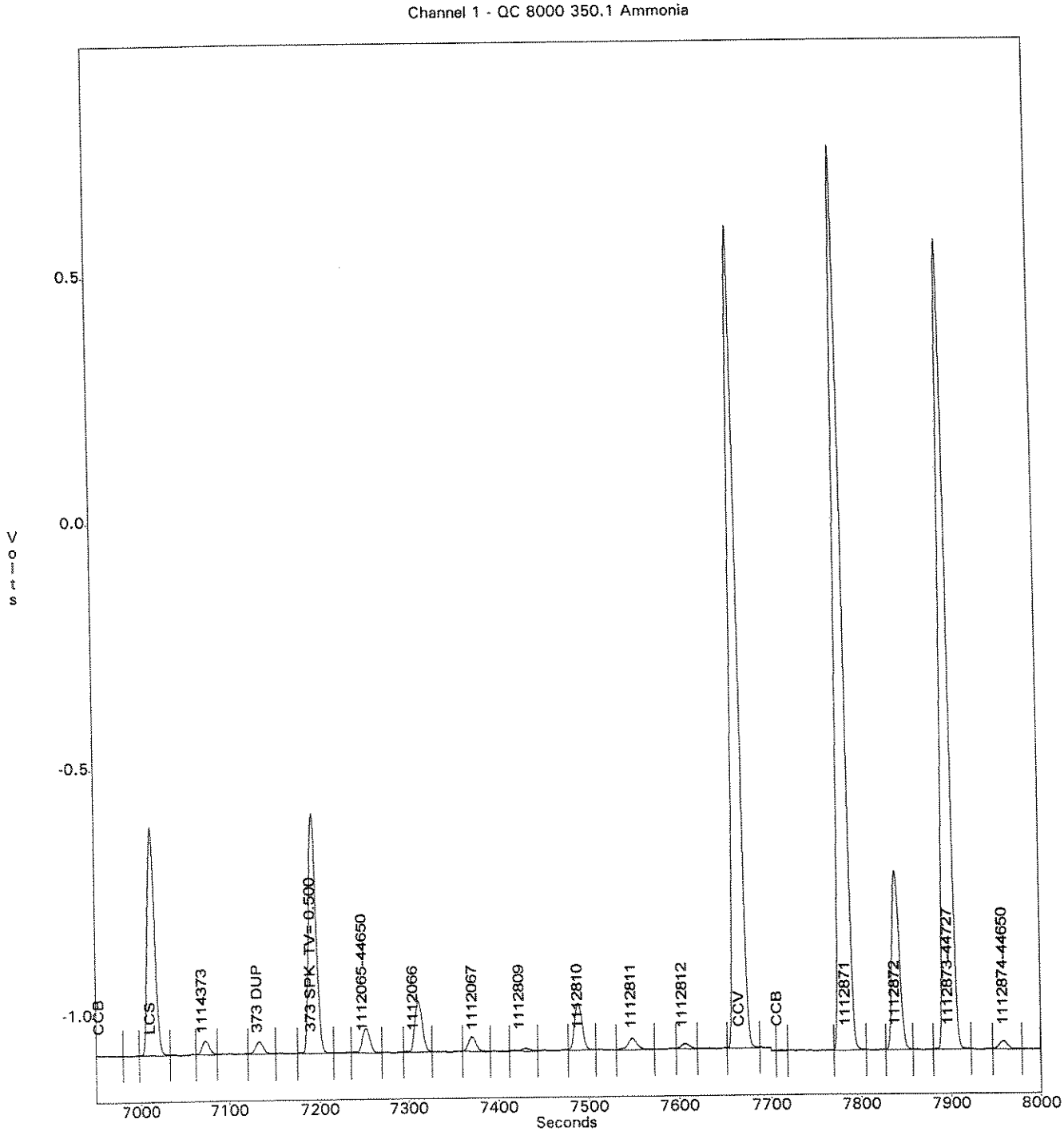
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



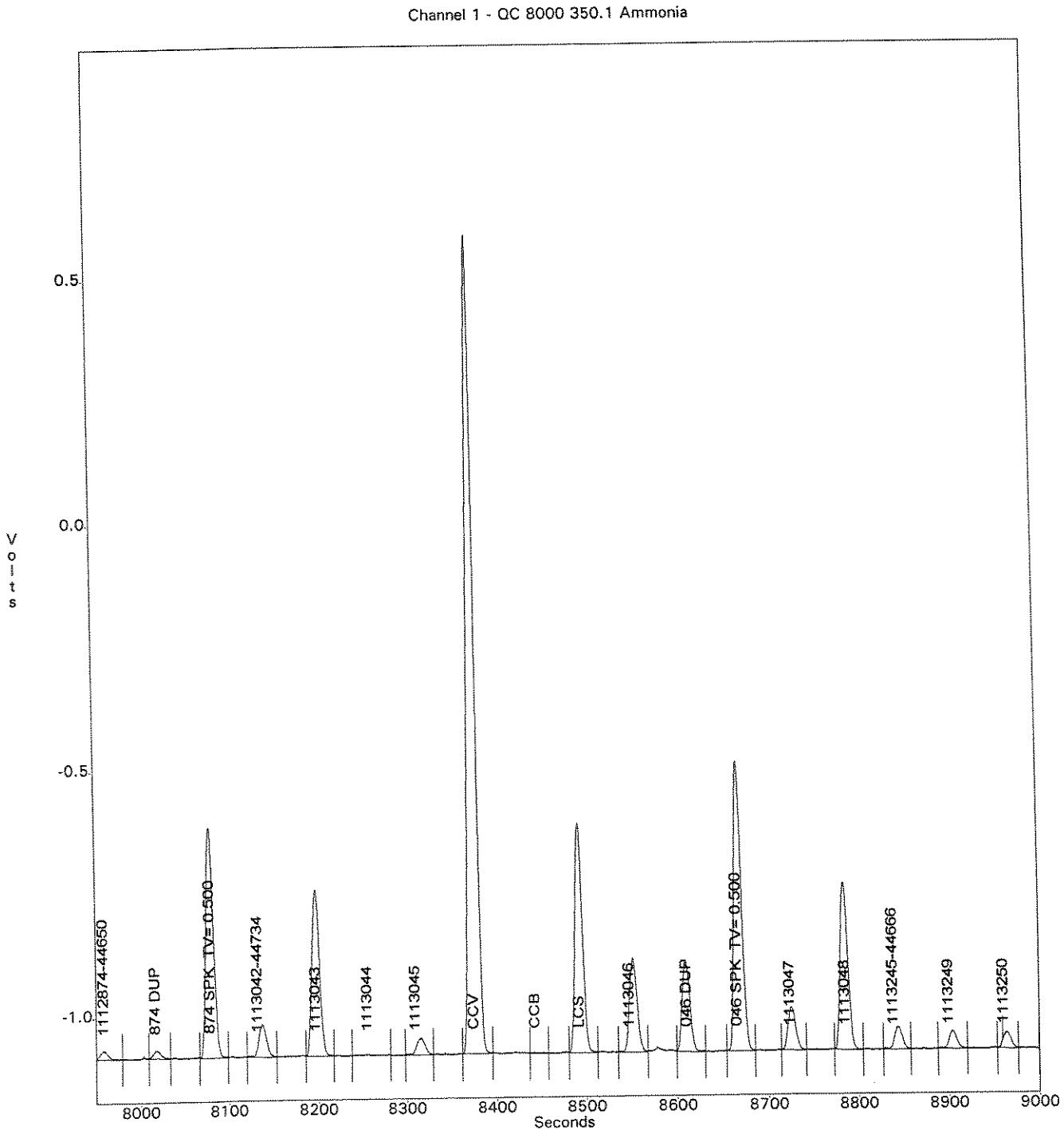
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



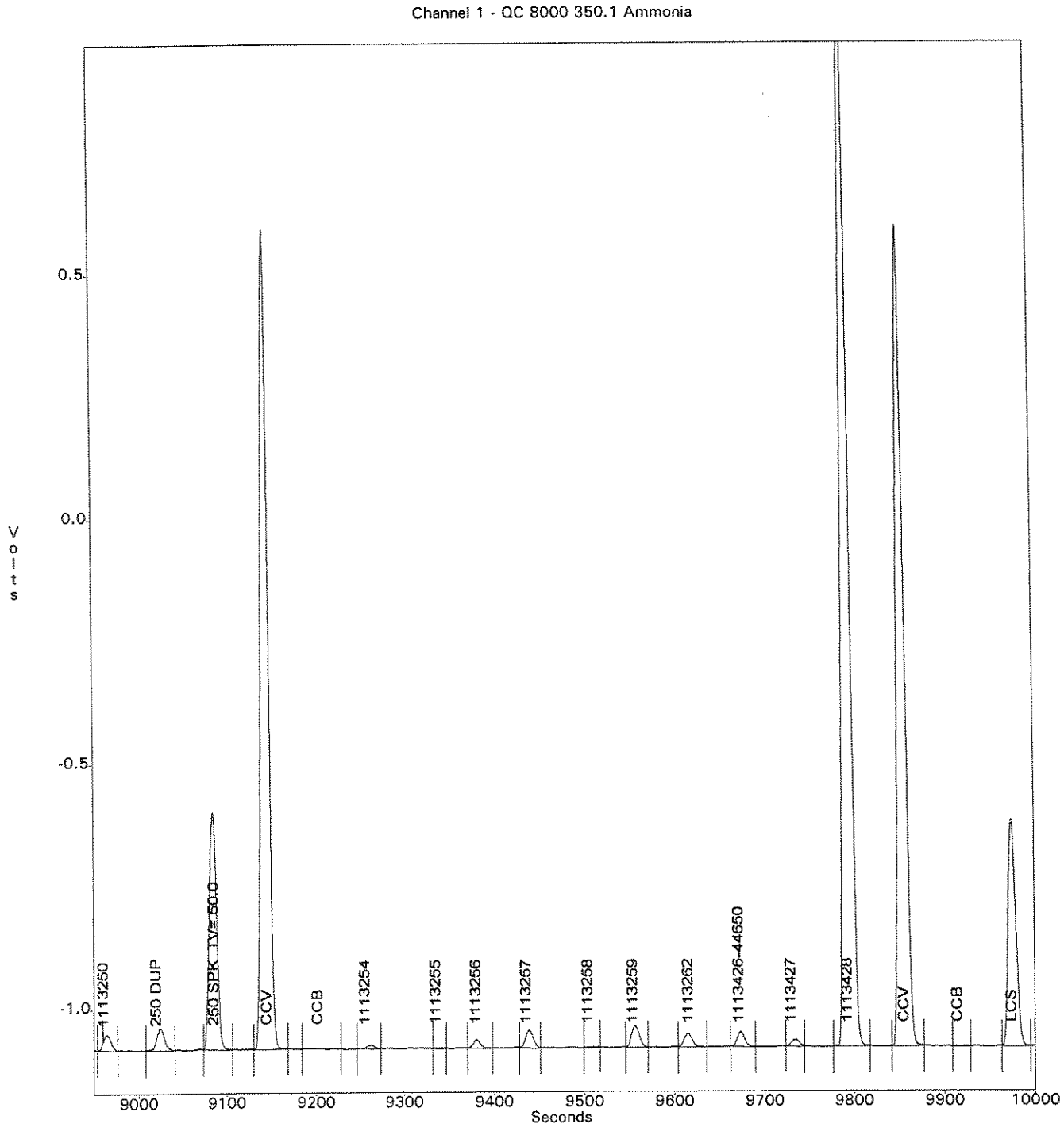
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



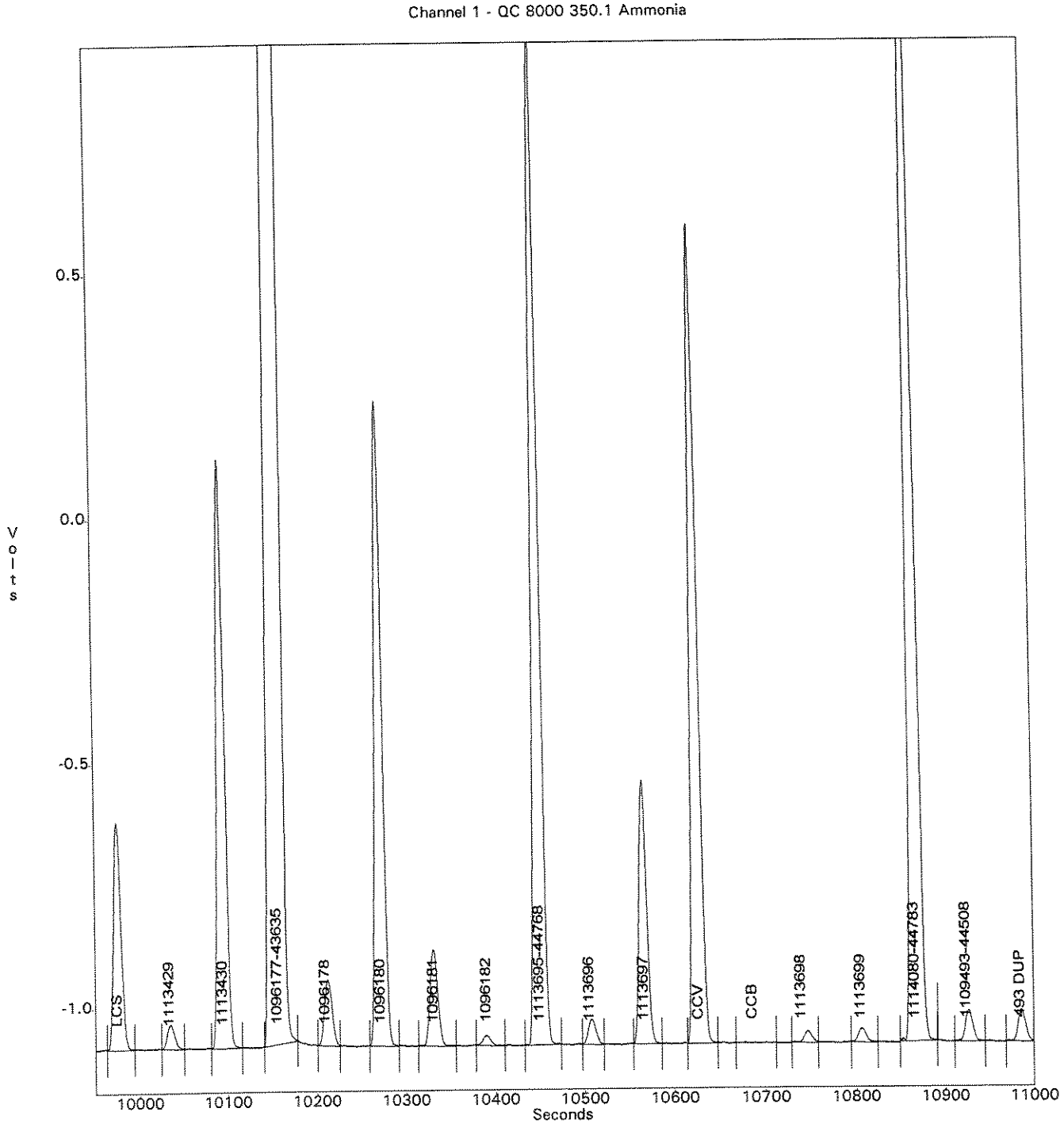
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



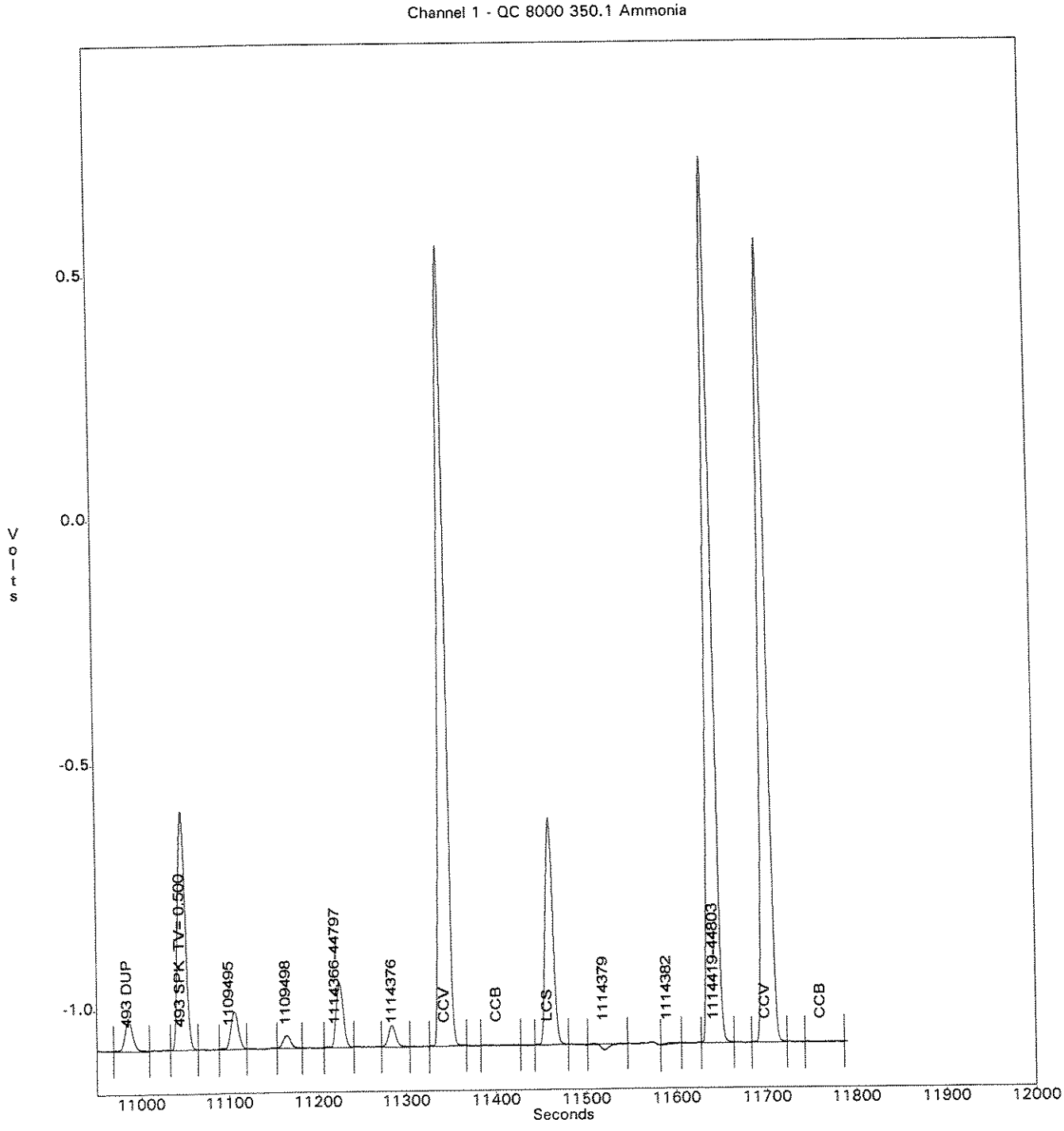
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



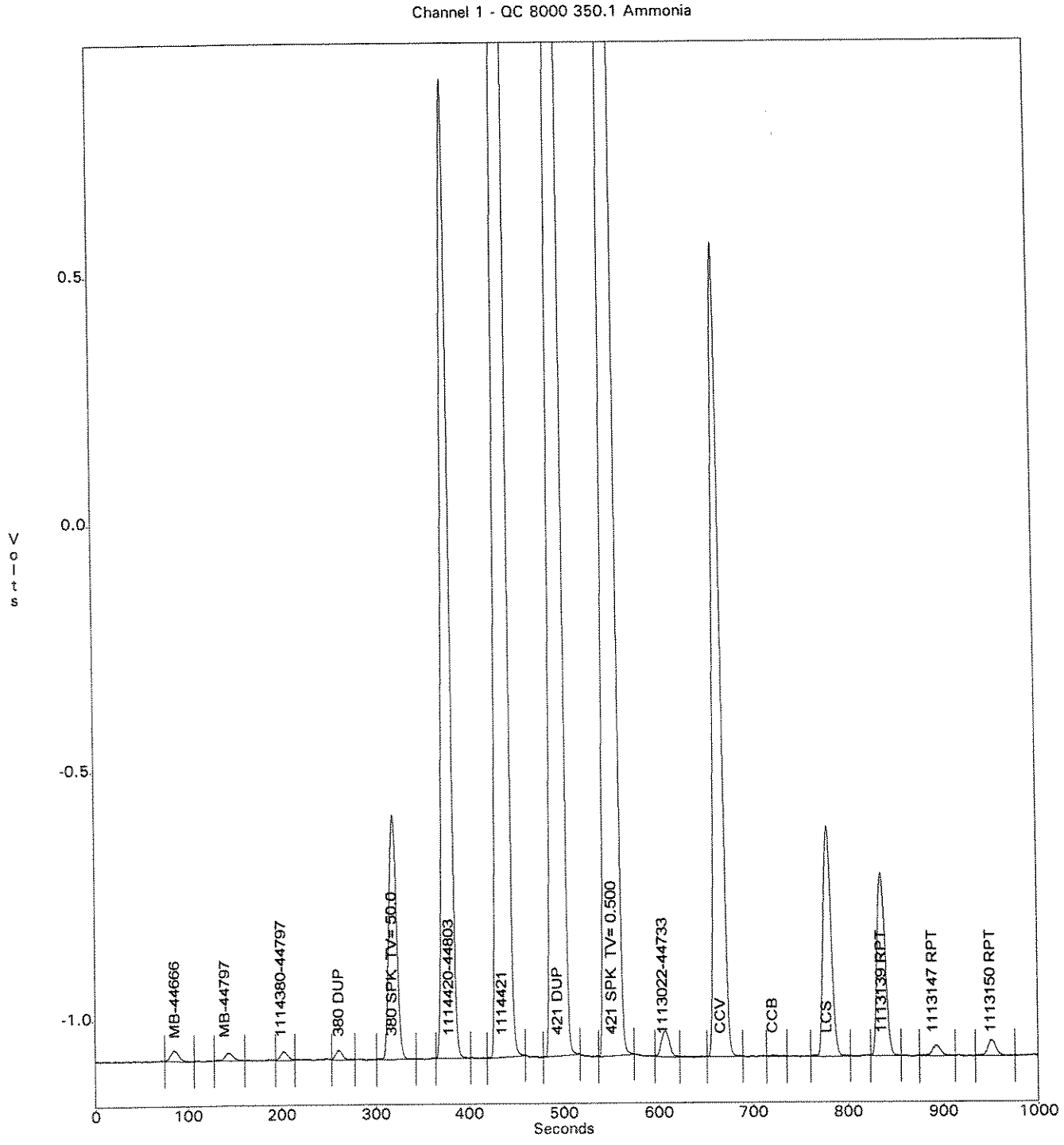
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



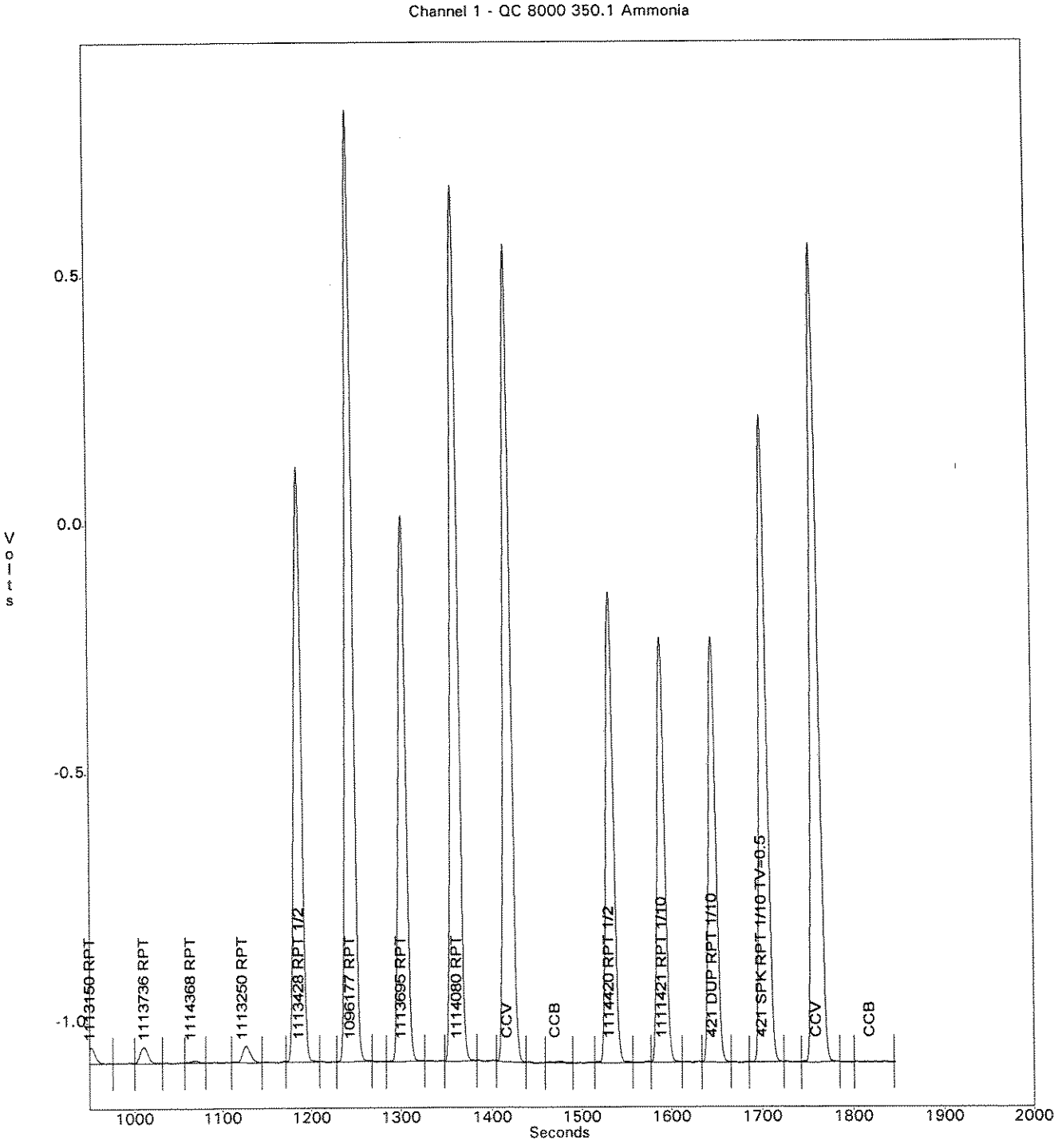
OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:46:35
DATA FILENAME: C:\OMNION\DATA\080703A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 13:03:25
DATA FILENAME: C:\OMNION\DATA\080703A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080703A2.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 13:03:25
DATA FILENAME: C:\OMNION\DATA\080703A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080703A2.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 3, 2008 9:33:00
DATA FILENAME: C:\OMNION\DATA\0807030A.FDT
METHOD FILENAME:
TRAY FILENAME: C:\OMNION\TRAYS\0807030A.TRA

TRAY DESCRIPTION:
Created: Jul 2, 2008 15:56:25
Modified: Jul 3, 2008 7:48:02
QC 8000 350.1 Ammonia - RUN LOG - 0807030A
DATA DESCRIPTION:
Created: Jul 3, 2008 9:33:00
Modified: Jul 3, 2008 9:33:00

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
Created: Jun 8, 2007 13:44:01
Modified: Jun 27, 2008 15:00:11
Ammonia

ANALYTE DATA:
Analyte Name: QC 8000 350.1 Ammonia
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 28.5
Peak Base Width (s): 22.000
% Width Tolerance: 50.000
Threshold: 2877.000
Autodilution Trigger: Off
QuikChem Method:

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.000 3 : 0.500 4 : 0.200
5 : 0.100 6 : 0.050 7 : 0.020 8 : 0.010
9 : 0.000
Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: 1/X
Concentration Scaling: None

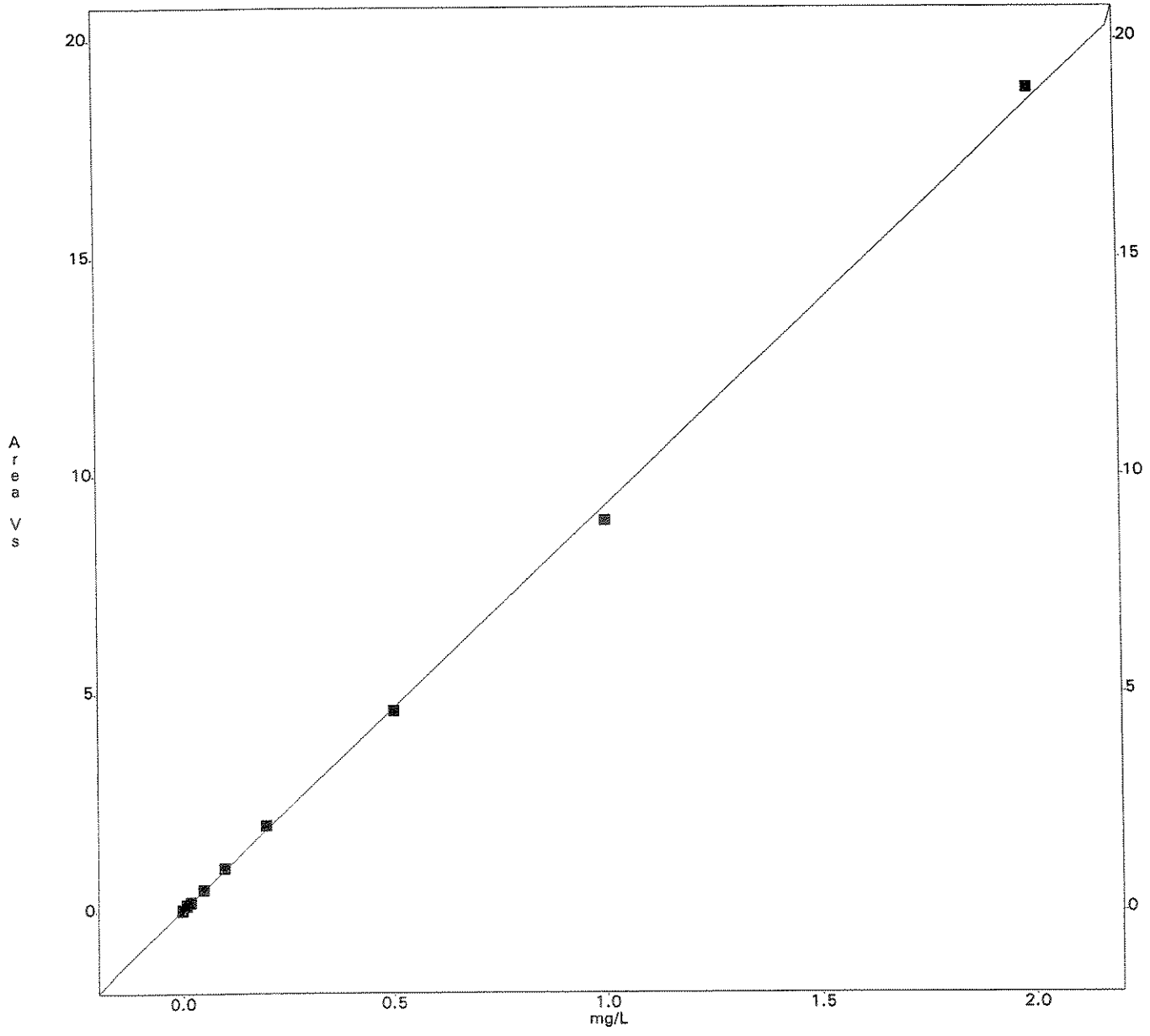
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	18881478	2.00	18881478					0.0	0.0	-1.6
2	8959946	1.00	8959946					0.0	0.0	3.8
3	4608416	0.50	4608416					0.0	0.0	1.6
4	1989770	0.20	1989770					0.0	0.0	-4.7
5	1011990	0.10	1011990					0.0	0.0	-4.0
6	516656	0.05	516656					0.0	0.0	-1.0
7	224143	0.02	230323	217963				8739.8	3.9	5.2
8	155319	0.01	172864	137773				24813.1	16.0	-15.3
9	44167	0.00	36259	52074				11182.9	25.3	

1st Order Poly
Conc = 1.079e-007 Area - 5.233e-003
r = 0.9996

pipette ID's: E-1
ALI

Scaling: None - Weighting: 1/X



Printed: Thursday, July 03, 2008 - 09:45 AM

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: hm 7/3/08 7/3/08

Analysis: Ammonia

Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC65166A, 4/7/03	WC85101A, 1/23/08				
b) ICV Preparation:	WC65166B, 4/7/03	WC85101B, 1/23/08	1	18	10	1.80
c) LCS Preparation:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50
d) Matrix Spike Prep.:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): _____

Repeats due to Sample: _____

Repeats due to Error: _____

p:\greg\forms\cover.no2

4/7/03
DMG

Ammonia (NH_3) [Lachat: pql = 0.050 - Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 10ppm (WC651166C)	mls Carrier-Diluent (WC
A	2.000	2.00	8.00
B	1.000	1.00	9.00
C	0.500	0.50	9.50
D	0.200	0.20	9.80
E	0.100	1/10 Dil'N of STD B.) 1.000	
F	0.050	1/10 Dil'N of STD C.) 0.500	
G	0.020	1/10 Dil'N of STD D.) 0.200	
H	0.010	1/10 Dil'N of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) ICV/CCV: (TV = 1.80 mg/L)

Do two (2) 1/10 serial dilutions of the 180 ppm Reference Stock (WC651516B). Prepare using Carrier-Diluent (WC651165F)

(C) 10.0 ppm Working Stock

Do two (2) 1/10 serial dilutions of the 1000 ppm Standard Stock (WC651516A). Prepare using Carrier-Diluent (WC651165F)

(D) LCS/Matrix Spike: (TV = 0.500 mg/L)

Add 0.050 mls 100 ppm working Stock (WC651166C, 1st 1/10 serial dilution) to 10 mls Carrier-Diluent (WC651165F) or sample.

1/23/08
Nm

(A) NH_3/TKN 1000 ppm Standard Stock

3.819 granular NH_4Cl (WC85085F), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume w/ DI. Store @ 4°C. in amber glass. Expires 1/23/09.

(B) NH_3 180ppm Reference Stock

0.687g granular NH_4Cl (WC85085G), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C in amber glass. Expires 1/23/09.

(C) TKN 400 ppm Reference stock

1.5276g granular NH_4Cl (WC85085G), previously dried for 2hrs. @ 104°C; dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. store @ 4°C. in amber glass. Expires 1/23/09.

R44797 R44866 R44770
R44803 R44885 R44870
R44841 R44886 R44876
R44853 R44915
R44862 R44771

13 copies

Run #: 164055
Analyte: NH3 350.1M AMMONIA
Printed: 07/17/08 15:51

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1118423	WATER	1.78		1.0	0.0500	99.1		07/17/2008		
BLK1		1118424	WATER	0.0500	U	1.0	0.0500			07/17/2008		
SPKB		1118425	WATER	0.516		1.0	0.0500	103.1		07/17/2008		
SPKB		1118428	WATER	0.522		1.0	0.0500	104.3		07/17/2008		
ESMP	R2844782	1114070	WATER	0.0905		1.0	0.0500			07/17/2008	RUN	2
LDUP		1118426	WATER	0.0899		1.0	0.0500		0.67	07/17/2008		
SPK1		1118427	WATER	0.573		1.0	0.0500	96.5		07/17/2008		
ESMP	R2844782	1114071	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844782	1114072	WATER	0.110		1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844812	1114623	WATER	0.321		1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844197	1105428	WATER	0.156		1.0	0.0500			07/17/2008	RUN	2
SPKB		1118429	WATER	0.515		1.0	0.0500	103.0		07/17/2008		
ESMP	R2844197	1105429	WATER	0.0650		1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844197	1105430	WATER	16.6		10.0	0.0500			07/17/2008	RUN	2
BLK5		1118430	SOIL/SEDIME	0.608		1.0	5.00			07/17/2008		
ESMP	R2844797	1114714	SOIL/SEDIME	0.616		1.0	5.00			07/17/2008		ASPB
LDUP		1118431	SOIL/SEDIME	0.586		1.0	5.00		4.99	07/17/2008		
SPK1		1118432	SOIL/SEDIME	5.59		1.0	5.00	111.8		07/17/2008		
ESMP	R2844797	1114715	SOIL/SEDIME	0.623		1.0	5.00			07/17/2008		ASPB
ESMP	R2844797	1114716	SOIL/SEDIME	0.583		1.0	5.00			07/17/2008		ASPB
ESMP	R2844797	1114717	SOIL/SEDIME	0.607		1.0	5.00			07/17/2008		ASPB
ESMP	R2844797	1114718	SOIL/SEDIME	0.606		1.0	5.00			07/17/2008		ASPB
ESMP	R2844822	1114741	WATER	1.18		1.0	0.0500			07/17/2008	RUN	2
LDUP		1118433	WATER	1.18		1.0	0.0500		0.08	07/17/2008		
SPK1		1118434	WATER	1.67		1.0	0.0500	98.5		07/17/2008		
ESMP	R2844803	1114756	WATER	12.9		10.0	0.0500			07/17/2008		ASPB
ESMP	R2844803	1114758	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASPB
ESMP	R2844828	1114801	WATER	0.200	U	4.0	0.0500			07/17/2008	RUN	2
ESMP	R2844828	1114802	WATER	0.100	U	2.0	0.0500			07/17/2008	RUN	2
ESMP	R2844828	1114803	WATER	3.26		2.0	0.0500			07/17/2008	RUN	2
ESMP	R2844828	1114804	WATER	0.500	U	10.0	0.0500			07/17/2008	RUN	2
ESMP	R2844828	1114805	WATER	0.200	U	4.0	0.0500			07/17/2008	RUN	2
SPKB		1118435	WATER	0.513		1.0	0.0500	102.5		07/17/2008		
ESMP	R2844828	1114806	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844829	1114820	WATER	0.101		1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844829	1114823	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	2
ESMP	R2843447	1093555	WATER	0.134		1.0	0.0500			07/17/2008	RUN	2
LDUP		1118436	WATER	0.131		1.0	0.0500		1.96	07/17/2008		
SPK1		1118437	WATER	0.596		1.0	0.0500	92.4		07/17/2008		
ESMP	R2843447	1093556	WATER	1.75		1.0	0.0500			07/17/2008	RUN	2
ESMP	R2843447	1093558	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	2
ESMP	R2844235	1105710	WATER	13.9		10.0	0.0500			07/17/2008		1
ESMP	R2844235	1105712	WATER	0.0528		1.0	0.0500			07/17/2008		1
ESMP	R2844235	1105714	WATER	0.0500	U	1.0	0.0500			07/17/2008		1
ESMP	R2844235	1105715	WATER	0.0500	U	1.0	0.0500			07/17/2008		1
ESMP	R2844235	1105716	WATER	0.0500	U	1.0	0.0500			07/17/2008		1
ESMP	R2844841	1115225	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASPB
ESMP	R2844841	1115226	WATER	0.126		1.0	0.0500			07/17/2008		ASPB
ESMP	R2844853	1115469	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115470	WATER	0.714		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115471	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B

Reviewed & Approved
By: _____
Date: 7/21/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
LDUP		1118438	WATER	0.0500	U	1.0	0.0500			07/17/2008		
SPK1		1118439	WATER	0.440		1.0	0.0500	88.0		07/17/2008		
SPKB		1118440	WATER	0.526		1.0	0.0500	105.1		07/17/2008		
ESMP	R2844853	1115472	WATER	0.0619		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115473	WATER	0.0619		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115474	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115475	WATER	0.0996		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115476	WATER	0.402		1.0	0.0500			07/17/2008	QC	ASP-B
LDUP		1118441	WATER	0.407		1.0	0.0500		1.14	07/17/2008		
SPK1		1118442	WATER	0.908		1.0	0.0500	101.1		07/17/2008		
ESMP	R2844853	1115477	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115478	WATER	0.304		1.0	0.0500			07/17/2008		ASP-B
BLK5		1118443	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		
ESMP	R2844862	1115724	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
LDUP		1118444	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		
SPK1		1118445	SOIL/SEDIME	5.59		1.0	5.00	111.9		07/17/2008		
ESMP	R2844862	1115725	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115726	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115727	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115730	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115731	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115732	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115733	SOIL/SEDIME	0.913		1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115734	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115735	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115736	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115737	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115738	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844862	1115739	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		ASPB
ESMP	R2844866	1115782	WATER	0.184		1.0	0.0500			07/17/2008		
SPKB		1118446	WATER	0.524		1.0	0.0500	104.9		07/17/2008		
ESMP	R2844866	1115783	WATER	0.166		1.0	0.0500			07/17/2008		ASPB
ESMP	R2844866	1115784	WATER	22.7		20.0	0.0500			07/17/2008		ASPB
ESMP	R2844866	1115785	WATER	56.9		50.0	0.0500			07/17/2008		ASPB
ESMP	R2844853	1115927	WATER	0.0979		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115928	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115929	WATER	0.118		1.0	0.0500			07/17/2008		ASP-B
LDUP		1118447	WATER	0.120		1.0	0.0500		1.26	07/17/2008		
SPK1		1118448	WATER	0.597		1.0	0.0500	95.9		07/17/2008		
ESMP	R2844853	1115930	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115931	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1115932	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
BLK5		1118454	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		
ESMP	R2844885	1116251	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
LDUP		1118455	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		
SPK1		1118456	SOIL/SEDIME	5.26		1.0	5.00	105.2		07/17/2008		
ESMP	R2844885	1116253	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116254	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116255	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116256	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116257	SOIL/SEDIME	10.0	U	2.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116258	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116264	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116265	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116267	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116269	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
LDUP		1118457	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008		

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
SPK1		1118458	SOIL/SEDIME	4.91		1.0	5.00	98.3		07/17/2008		
ESMP	R2844885	1116271	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116273	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116274	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116275	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116276	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116277	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116278	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844885	1116279	SOIL/SEDIME	5.00	U	1.0	5.00			07/17/2008	RUN	ASPB
ESMP	R2844886	1116319	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	ASPB
ESMP	R2844886	1116320	WATER	0.182		1.0	0.0500			07/17/2008		
SPKB		1118449	WATER	0.530		1.0	0.0500	105.9		07/17/2008	QC	ASPB
ESMP	R2844866	1116367	WATER	7.43		10.0	0.0500			07/17/2008		
LDUP		1118450	WATER	7.46		10.0	0.0500		0.37	07/17/2008		
SPK1		1118451	WATER	12.6		10.0	0.0500	102.7		07/17/2008		
ESMP	R2844866	1116370	WATER	1.24		1.0	0.0500			07/17/2008		ASPB
ESMP	R2844866	1116373	WATER	0.0751		1.0	0.0500			07/17/2008		ASPB
ESMP	R2844853	1116525	WATER	0.0869		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116526	WATER	0.0505		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116527	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116528	WATER	8.07		5.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116529	WATER	0.0714		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116530	WATER	0.0526		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116531	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116532	WATER	0.177		1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844853	1116533	WATER	0.0500	U	1.0	0.0500			07/17/2008		ASP-B
ESMP	R2844915	1117053	WATER	0.0500	U	1.0	0.0500			07/17/2008	RUN	ASPB
ESMP	R2844915	1117054	WATER	0.248		1.0	0.0500			07/17/2008	RUN	ASPB
ESMP	R2844236	1105723	WATER	17.4		10.0	0.0500			07/17/2008		1
ESMP	R2844236	1105728	WATER	0.0802		1.0	0.0500			07/17/2008		1
SPKB		1118452	WATER	0.522		1.0	0.0500	104.5		07/17/2008		
SPKB		1118453	WATER	0.530		1.0	0.0500	106.1		07/17/2008		
SPKB		1118620	WATER	0.538		1.0	0.0500	107.6		07/17/2008		

Records printed: 141

Creator: NMEAD
Creation Date: Jul 16, 2008 15:40:40
Last Modified: Jul 16, 2008 15:40:40
Description: QC 8000 350.1 Ammonia - RUN LOG - 0807170A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.000	1.0000	CalStd	
2	Standard B - 1.000	1.0000	CalStd	
3	Standard C - 0.500	1.0000	CalStd	
4	Standard D - 0.200	1.0000	CalStd	
5	Standard E - 0.100	1.0000	CalStd	
6	Standard F - 0.050	1.0000	CalStd	
7	Standard G - 0.020	1.0000	CalStd	
8	Standard H - 0.010	1.0000	CalStd	
9	Standard I - 0.000	1.0000	CalStd	
1	ICV TV= 1.80	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	LCS TV= 0.500	1.0000	Unknown	
4	CRDL 0.050	1.0000	Unknown	
5	CRDL 0.010	1.0000	Unknown	
6	CCV	1.0000	Unknown	
7	CCB	1.0000	Unknown	
8	1114433-44771	1.0000	Unknown	
9	1114434	1.0000	Unknown	
10	1114435	1.0000	Unknown	
11	1114691-44770	1.0000	Unknown	
12	1114692	1.0000	Unknown	
13	1114693	1.0000	Unknown	
14	1114694	1.0000	Unknown	
15	1114696	1.0000	Unknown	
16	696 DUP	1.0000	Unknown	
17	696 SPK TV= 0.500	1.0000	Unknown	
18	CCV	1.0000	Unknown	
19	CCB	1.0000	Unknown	
20	LCS	1.0000	Unknown	
21	1114697	1.0000	Unknown	
22	1114698	1.0000	Unknown	
23	1115301-44771	1.0000	Unknown	
24	1115819-44870	1.0000	Unknown	
25	1115822	1.0000	Unknown	
26	1115825	1.0000	Unknown	
27	1115828	1.0000	Unknown	
28	828 DUP	1.0000	Unknown	
29	828 SPK TV= 0.500	1.0000	Unknown	
30	1115830	1.0000	Unknown	
31	CCV	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	CCB	1.0000	Unknown	
33	1115856-44771	1.0000	Unknown	
34	1115857	1.0000	Unknown	
35	1115858	1.0000	Unknown	
36	1115870	1.0000	Unknown	
37	1115874	1.0000	Unknown	
38	1115876	1.0000	Unknown	
39	1115877	1.0000	Unknown	
40	1115895-44876	1.0000	Unknown	
41	1115896	1.0000	Unknown	
42	896 DUP	1.0000	Unknown	
43	CCV	1.0000	Unknown	
44	CCB	1.0000	Unknown	
45	LCS	1.0000	Unknown	
46	896 SPK TV= 0.500	1.0000	Unknown	
47	1115897	1.0000	Unknown	- baseline shift not integrated
48	1115898	1.0000	Unknown	
49	1115899	1.0000	Unknown	
50	1115900	1.0000	Unknown	
51	1115901	1.0000	Unknown	
52	1116234-44870	1.0000	Unknown	
53	234 DUP	1.0000	Unknown	
54	234 SPK TV= 0.500	1.0000	Unknown	
55	1116235	1.0000	Unknown	
56	CCV	1.0000	Unknown	
57	CCB	1.0000	Unknown	
58	1116236	1.0000	Unknown	
59	1116237	1.0000	Unknown	
60	1116238	1.0000	Unknown	
61	1114070-44782	1.0000	Unknown	
62	070 DUP	1.0000	Unknown	
63	070 SPK TV= 0.500	1.0000	Unknown	
64	1114071	1.0000	Unknown	
65	1114072	1.0000	Unknown	
66	1114623-44812	1.0000	Unknown	
67	1105428-44197	1.0000	Unknown	- air spike - rpt @ # 191
68	CCV	1.0000	Unknown	
69	CCB	1.0000	Unknown	
70	LCS	1.0000	Unknown	
71	1115429	1.0000	Unknown	
72	1115430	10.0000	Unknown	- air spike not integrated
73	MB SOIL 44797 - rpt @ # 196	1.0000	Unknown	soil: 25.0g → 250mL
74	1114714S-44797	1.0000	Unknown	
75	714S DUP	1.0000	Unknown	
76	714S SPK TV= 5.00	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
77	1114715S	1.0000	Unknown	Soil: 25.0g → 250mL
78	1114716S	1.0000	Unknown	
79	1114717S	1.0000	Unknown	
80	1114718S	1.0000	Unknown	
81	CCV	1.0000	Unknown	
82	CCB	1.0000	Unknown	
83	1114741-44822	1.0000	Unknown	
84	741 DUP	1.0000	Unknown	
85	741 SPK TV= 0.500	1.0000	Unknown	
86	1114756-44803	1.0000	Unknown	-pt@#196-1/10
87	1114758	1.0000	Unknown	
88	1114801-44828	1.0000	Unknown	-strange peak-pt@#197-1/2
89	1114802	1.0000	Unknown	-neg.peak-pt@#198-1/2
90	1114803	1.0000	Unknown	-pt@#1-tray2-1/2
91	1114804	1.0000	Unknown	-Dips before+after peak-pt@#2 tray2 1/2
92	1114805	1.0000	Unknown	-neg.peak-pt@#3-tray2-1/2
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	tray ends here-
95	LCS	1.0000	Unknown	next CCB has air
96	1114806	1.0000	Unknown	
97	1114820-44829	1.0000	Unknown	
98	1114823	1.0000	Unknown	
99	1093555-43447	1.0000	Unknown	
100	555 DUP	1.0000	Unknown	
101	555 SPK TV= 0.500	1.0000	Unknown	
102	1093556	1.0000	Unknown	
103	1093558	1.0000	Unknown	
104	1105710-44235	1.0000	Unknown	
105	1105712	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	-air spikes-rerun tray
108	1105714-44235	1.0000	Unknown	from #93
109	1105715	1.0000	Unknown	
110	1105716	1.0000	Unknown	
111	1115225-44841	1.0000	Unknown	
112	1115226	1.0000	Unknown	
113	1115469-44853	1.0000	Unknown	
114	1115470	1.0000	Unknown	
115	1115471	1.0000	Unknown	
116	471 DUP	1.0000	Unknown	
117	471 SPK TV= 0.500	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1115472	1.0000	Unknown	

nm 7/11/1900

Creator: NMEAD
Creation Date: Jul 17, 2008 11:19:42
Last Modified: Jul 17, 2008 11:19:42
Description: QC 8000 350.1 Ammonia - RUN LOG - 080717A2

Cup #	Sample ID	Manual Dilution	Sample Type	
93	CCV	1.0000	Unknown	
94	CCB	1.0000	Unknown	
95	LCS	1.0000	Unknown	
96	1114806	1.0000	Unknown	neg. peak - < PQL
97	1114820-44829	1.0000	Unknown	
98	1114823	1.0000	Unknown	
99	1093555-43447	1.0000	Unknown	
100	555 DUP	1.0000	Unknown	
101	555 SPK TV= 0.500	1.0000	Unknown	
102	1093556	1.0000	Unknown	
103	1093558	1.0000	Unknown	
104	1105710-44235	10.0000	Unknown	
105	1105712	1.0000	Unknown	
106	CCV	1.0000	Unknown	
107	CCB	1.0000	Unknown	
108	1105714-44235	1.0000	Unknown	
109	1105715	1.0000	Unknown	
110	1105716	1.0000	Unknown	
111	1115225-44841	1.0000	Unknown	
112	1115226	1.0000	Unknown	
113	1115469-44853	1.0000	Unknown	
114	1115470	1.0000	Unknown	
115	1115471	1.0000	Unknown	} sm. neg. peaks - < PQL
116	471 DUP	1.0000	Unknown	}
117	471 SPK TV= 0.500	1.0000	Unknown	
118	CCV	1.0000	Unknown	
119	CCB	1.0000	Unknown	
120	LCS	1.0000	Unknown	
121	1115472	1.0000	Unknown	
122	1115473	1.0000	Unknown	
123	1115474	1.0000	Unknown	
124	1115475	1.0000	Unknown	
125	1115476	1.0000	Unknown	
126	476 DUP	1.0000	Unknown	
127	476 SPK TV= 0.500	1.0000	Unknown	
128	1115477	1.0000	Unknown	
129	1115478	1.0000	Unknown	
130	MB SOIL 44862	1.0000	Unknown	soil: 250g → 250mL
131	CCV	1.0000	Unknown	
132	CCB	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
133	1115724S-44862	1.0000	Unknown	soil: 25.0g → 250mL
134	724S DUP	1.0000	Unknown	
135	724S SPK TV= 5.00	1.0000	Unknown	
136	1115725S	1.0000	Unknown	
137	1115726S	1.0000	Unknown	
138	1115727S	1.0000	Unknown	
139	1115730S	1.0000	Unknown	
140	1115731S	1.0000	Unknown	
141	1115732S	1.0000	Unknown	
142	1115733S	1.0000	Unknown	
143	CCV	1.0000	Unknown	
144	CCB	1.0000	Unknown	
145	LCS	1.0000	Unknown	
146	1115734S	1.0000	Unknown	soil: 25.0g → 250mL
147	1115735S	1.0000	Unknown	
148	1115736S	1.0000	Unknown	
149	1115737S	1.0000	Unknown	
150	1115738S	1.0000	Unknown	
151	1115739S	1.0000	Unknown	
152	1115782-44866	1.0000	Unknown	
153	1115783	1.0000	Unknown	
154	1115784	1.0000	Unknown	- np+ @#33 - tray2 - 1/20
155	1115785	1.0000	Unknown	- np+ @#34 - tray2 - 1/20
156	CCV	1.0000	Unknown	
157	CCB	1.0000	Unknown	
158	1115927-44853	1.0000	Unknown	
159	1115928	1.0000	Unknown	
160	1115929	1.0000	Unknown	
161	929 DUP	1.0000	Unknown	
162	929 SPK TV= 0.500	1.0000	Unknown	
163	1115930	1.0000	Unknown	
164	1115931	1.0000	Unknown	
165	1115932	1.0000	Unknown	
166	1116319-44886	1.0000	Unknown	
167	1116320	1.0000	Unknown	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	tray ends here
170	LCS	1.0000	Unknown	- air spikes -
171	~~1116367-44866~~	1.0000	Unknown	rerun tray from #
172	367 DUP	1.0000	Unknown	168
173	367 SPK TV= 0.500	1.0000	Unknown	
174	1116370	1.0000	Unknown	
175	1116373	1.0000	Unknown	
176	1116525-44853	1.0000	Unknown	
177	1116526	1.0000	Unknown	

Creator: NMEAD
Creation Date: Jul 17, 2008 12:41:49
Last Modified: Jul 17, 2008 12:41:49
Description: QC 8000 350.1 Ammonia - RUN LOG - 080717A3

Cup #	Sample ID	Manual Dilution	Sample Type	
168	CCV	1.0000	Unknown	
169	CCB	1.0000	Unknown	
170	LCS	1.0000	Unknown	
171	1116367-44866	10.0000	Unknown	
172	367 DUP	10.0000	Unknown	
173	367 SPK TV = 0.500	10.0000	Unknown	
174	1116370	1.0000	Unknown	
175	1116373	1.0000	Unknown	
176	1116525-44853	1.0000	Unknown	
177	1116526	1.0000	Unknown	
178	1116527	1.0000	Unknown	
179	1116528	20.0000	Unknown	- rpt @ #35 - tray 2 - 1/5
180	1116529	1.0000	Unknown	
181	CCV	1.0000	Unknown	
182	CCB	1.0000	Unknown	
183	1116530	1.0000	Unknown	
184	1116531	1.0000	Unknown	
185	1116532	1.0000	Unknown	
186	1116533	1.0000	Unknown	
187	1117053-44915	1.0000	Unknown	
188	1117054	1.0000	Unknown	
189	1105723-44236	10.0000	Unknown	
190	1105728	1.0000	Unknown	
191	1105428 RPT	1.0000	Unknown	
192	MB SOIL 44797 RPT	1.0000	Unknown	soil: 25.0g → 250mL
193	CCV	1.0000	Unknown	
194	CCB	1.0000	Unknown	
195	LCS	1.0000	Unknown	
196	1114756 RPT 1/10	10.0000	Unknown	
197	1114801 RPT 1/2	2.0000	Unknown	- neg. peak - rpt @ #39 - tray 2 - 1
198	1114802 RPT 1/2	2.0000	Unknown	- neg. peak - < PQL
199	CCV	1.0000	Unknown	
200	CCB	1.0000	Unknown	

Creator: NMEAD
Creation Date: Jul 17, 2008 13:16:40
Last Modified: Jul 17, 2008 13:53:13
Description: QC 8000 350.1 Ammonia - RUN LOG - 080717A4

Cup #	Sample ID	Manual Dilution	Sample Type	
1	1114803 RPT 1/2	2.0000	Unknown	
2	1114804 RPT 1/2	2.0000	Unknown	- neg. peak - rpt @ #40 - 1/10
3	1114805 RPT 1/2	2.0000	Unknown	- rpt @ #41 - 1/4 - neg. peak
4	MB SOIL 44885	1.0000	Unknown	soil: 25.0g → 250mL
5	1116251S-44885	1.0000	Unknown	
6	251S DUP	1.0000	Unknown	
7	251S SPK TV= 5.00	1.0000	Unknown	
8	1116253S	1.0000	Unknown	
9	1116254S	1.0000	Unknown	
10	1116255S	1.0000	Unknown	- Bad integration - rpt @ #42
11	CCV	1.0000	Unknown	
12	CCB	1.0000	Unknown	
13	LCS	1.0000	Unknown	
14	1116256S	1.0000	Unknown	soil: 25.0g → 250mL
15	1116257S	1.0000	Unknown	- neg. peak - rpt @ #43 - 1/2
16	1116258S - neg. peak -	<PQL 1.0000	Unknown	soil: 25.0g → 250mL
17	1116264S	1.0000	Unknown	
18	1116265S	1.0000	Unknown	
19	1116267S	1.0000	Unknown	
20	1116269S } neg. peaks	- <PQL 1.0000	Unknown	
21	269S DUP }	1.0000	Unknown	
22	269S SPK TV= 5.00	1.0000	Unknown	
23	1116271S	1.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	1116273S - neg. peak -	<PQL 1.0000	Unknown	soil: 25.0g → 250mL
27	1116274S	1.0000	Unknown	
28	1116275S	1.0000	Unknown	
29	1116276S	1.0000	Unknown	
30	1116277S - neg peak -	<PQL 1.0000	Unknown	
31	1116278S	1.0000	Unknown	
32	1116279S	1.0000	Unknown	
33	1115784 RPT 1/20	20.0000	Unknown	
34	1115785 RPT 1/20	20.0000	Unknown	- rpt @ # 44 - 1/50
35	1116528 RPT 1/5	5.0000	Unknown	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	- tray ends here
38	LCS	1.0000	Unknown	low re-pour - rerun tray from # 36
39	1114801 RPT 1/4	4.0000	Unknown	
40	1114804 RPT 1/4	4.0000	Unknown	- ~~neg. peak~~

Creator: NMEAD
Creation Date: Jul 17, 2008 13:58:05
Last Modified: Jul 17, 2008 13:58:05
Description: QC 8000 350.1 Ammonia - RUN LOG - 080717A5

Cup #	Sample ID	Manual Dilution	Sample Type	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	LCS	1.0000	Unknown	
39	1114801 RPT 1/4	4.0000	Unknown	
40	1114804 RPT 1/10	10.0000	Unknown	
41	1114805 RPT 1/4	4.0000	Unknown	
42	1116255S RPT	1.0000	Unknown	
43	1116257S RPT 1/2	2.0000	Unknown	
44	1115785 RPT 1/50	50.0000	Unknown	
45	CCV	1.0000	Unknown	
46	CCB	1.0000	Unknown	

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
1	ICV TV= 1.80	17 Jul 2008	09:31:15	1	1.7842	1.0	1.00
2	ICB	17 Jul 2008	09:32:14	1	-0.0000	1.0	1.00
3	LCS TV= 0.500	17 Jul 2008	09:33:12	1	0.5156	1.0	1.00
4	CRDL 0.050	17 Jul 2008	09:34:10	1	0.0541	1.0	1.00
5	CRDL 0.010	17 Jul 2008	09:35:08	1	0.0187	1.0	1.00
6	CCV	17 Jul 2008	09:36:06	1	1.8168	1.0	1.00
7	CCB	17 Jul 2008	09:37:04	1	-0.0000	1.0	1.00
8	1114433-44771	17 Jul 2008	09:38:02	1	0.2293	1.0	1.00
9	1114434	17 Jul 2008	09:38:59	1	0.3335	1.0	1.00
10	1114435	17 Jul 2008	09:39:56	1	0.1406	1.0	1.00
11	1114691-44770	17 Jul 2008	09:40:53	1	0.1432	1.0	1.00
12	1114692	17 Jul 2008	09:41:50	1	0.1625	1.0	1.00
13	1114693	17 Jul 2008	09:42:47	1	0.0295	1.0	1.00
14	1114694	17 Jul 2008	09:43:44	1	0.4367	1.0	1.00
15	1114696	17 Jul 2008	09:44:41	1	0.0159	1.0	1.00
16	696 DUP	17 Jul 2008	09:45:40	1	0.0120	1.0	1.00
17	696 SPK TV= 0.500	17 Jul 2008	09:46:39	1	0.5210	1.0	1.00
18	CCV	17 Jul 2008	09:47:37	1	1.8069	1.0	1.00
19	CCB	17 Jul 2008	09:48:35	1	0.0036	1.0	1.00
20	LCS	17 Jul 2008	09:49:33	1	0.5213	1.0	1.00
21	1114697	17 Jul 2008	09:50:31	1	0.0729	1.0	1.00
22	1114698	17 Jul 2008	09:51:30	1	0.0029	1.0	1.00
23	1115301-44771	17 Jul 2008	09:52:28	1	0.2780	1.0	1.00
24	1115819-44870	17 Jul 2008	09:53:26	1	0.0104	1.0	1.00
25	1115822	17 Jul 2008	09:54:23	1	0.0097	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
26	1115825	17 Jul 2008	09:55:20	1	0.0591	1.0	1.00	
27	1115828	17 Jul 2008	09:56:17	1	0.0115	1.0	1.00	
28	828 DUP	17 Jul 2008	09:57:14	1	0.0113	1.0	1.00	
29	828 SPK TV= 0.500	17 Jul 2008	09:58:11	1	0.5047	1.0	1.00	
30	1115830	17 Jul 2008	09:59:08	1	0.0162	1.0	1.00	
31	CCV	17 Jul 2008	10:00:08	1	1.8102	1.0	1.00	
32	CCB	17 Jul 2008	10:01:07	1	0.0026	1.0	1.00	
33	1115856-44771	17 Jul 2008	10:02:06	1	0.0114	1.0	1.00	
34	1115857	17 Jul 2008	10:03:04	1	0.0646	1.0	1.00	
35	1115858	17 Jul 2008	10:04:02	1	0.2285	1.0	1.00	
36	1115870	17 Jul 2008	10:05:00	1	0.1563	1.0	1.00	
37	1115874	17 Jul 2008	10:05:58	1	0.1619	1.0	1.00	
38	1115876	17 Jul 2008	10:06:57	1	0.0272	1.0	1.00	
39	1115877	17 Jul 2008	10:07:55	1	0.0793	1.0	1.00	
40	1115895-44876	17 Jul 2008	10:08:52	1	0.0280	1.0	1.00	
41	1115896	17 Jul 2008	10:09:49	1	0.0125	1.0	1.00	
42	896 DUP	17 Jul 2008	10:10:46	1	0.0076	1.0	1.00	
43	CCV	17 Jul 2008	10:11:44	1	1.8092	1.0	1.00	
44	CCB	17 Jul 2008	10:12:41	1	0.0078	1.0	1.00	
45	LCS	17 Jul 2008	10:13:38	1	0.5215	1.0	1.00	
46	896 SPK TV= 0.500	17 Jul 2008	10:14:37	1	0.5173	1.0	1.00	
47	1115897	17 Jul 2008	10:15:37	1	0.0170	1.0	1.00	- Baseline shift not integrated
48	1115898	17 Jul 2008	10:16:36	1	0.0090	1.0	1.00	
49	1115899	17 Jul 2008	10:17:35	1	0.0167	1.0	1.00	
50	1115900	17 Jul 2008	10:18:33	1	0.0096	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1115901	17 Jul 2008	10:19:31	1	0.0194	1.0	1.00	
52	1116234-44870	17 Jul 2008	10:20:30	1	0.0069	1.0	1.00	
53	234 DUP	17 Jul 2008	10:21:28	1	0.0108	1.0	1.00	
54	234 SPK TV= 0.500	17 Jul 2008	10:22:26	1	0.5053	1.0	1.00	
55	1116235	17 Jul 2008	10:23:24	1	-0.0000	1.0	1.00	
56	CCV	17 Jul 2008	10:24:22	1	1.8022	1.0	1.00	
57	CCB	17 Jul 2008	10:25:19	1	0.0051	1.0	1.00	
58	1116236	17 Jul 2008	10:26:17	1	0.0713	1.0	1.00	
59	1116237	17 Jul 2008	10:27:14	1	0.5149	1.0	1.00	
60	1116238	17 Jul 2008	10:28:11	1	0.0320	1.0	1.00	
61	1114070-44782	17 Jul 2008	10:29:11	1	0.0905	1.0	1.00	
62	070 DUP	17 Jul 2008	10:30:10	1	0.0899	1.0	1.00	
63	070 SPK TV= 0.500	17 Jul 2008	10:31:09	1	0.5729	1.0	1.00	
64	1114071	17 Jul 2008	10:32:08	1	0.0174	1.0	1.00	
65	1114072	17 Jul 2008	10:33:08	1	0.1099	1.0	1.00	
66	1114623-44812	17 Jul 2008	10:34:06	1	0.3212	1.0	1.00	
67	1105428-44197	17 Jul 2008	10:35:04	1	0.1475	1.0	1.00	– air spike – rpt @ #191
68	CCV	17 Jul 2008	10:36:02	1	1.8112	1.0	1.00	
69	CCB	17 Jul 2008	10:37:00	1	-0.0000	1.0	1.00	
70	LCS	17 Jul 2008	10:37:58	1	0.5151	1.0	1.00	
71	1115429	17 Jul 2008	10:38:56	1	0.0650	1.0	1.00	
72	1115430	17 Jul 2008	10:39:55	1	16.5777	10.0	1.00	– air spike not integrated
73	MB SOIL 44797	17 Jul 2008	10:40:52	1	0.0608	1.0	1.00	= 8.608 – rpt @ #196
74	1114714S-44797	17 Jul 2008	10:41:49	1	0.0616	1.0	1.00	= 0.616
75	714S DUP	17 Jul 2008	10:42:46	1	0.0586	1.0	1.00	= 0.586

5.0g → 250mL

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
76	714S SPK TV= 5.00	17 Jul 2008	10:43:45	1	0.5588	1.0	1.00	= 5.588
77	1114715S	17 Jul 2008	10:44:44	1	0.0623	1.0	1.00	= 0.623
78	1114716S	17 Jul 2008	10:45:43	1	0.0583	1.0	1.00	= 0.583
79	1114717S	17 Jul 2008	10:46:43	1	0.0607	1.0	1.00	= 0.607
80	1114718S	17 Jul 2008	10:47:42	1	0.0606	1.0	1.00	= 0.606
81	CCV	17 Jul 2008	10:48:41	1	1.8235	1.0	1.00	
82	CCB	17 Jul 2008	10:49:39	1	0.0016	1.0	1.00	
83	1114741-44822	17 Jul 2008	10:50:37	1	1.1750	1.0	1.00	
84	741 DUP	17 Jul 2008	10:51:35	1	1.1809	1.0	1.00	
85	741 SPK TV= 0.500	17 Jul 2008	10:52:33	1	1.6723	1.0	1.00	
86	1114756-44803	17 Jul 2008	10:53:31	1	11.2591	1.0	1.00	- rpt @ # 196 - 1/10
87	1114758	17 Jul 2008	10:54:30	1	0.0306	1.0	1.00	
88	1114801-44828	17 Jul 2008	10:55:28	1	0.0889	1.0	1.00	- strange peak - rpt @ # 197 - 1/2
89	1114802	17 Jul 2008	10:56:25	1	0.0161	1.0	1.00	- neg. peak - rpt @ # 198 - 1/2
90	1114803	17 Jul 2008	10:57:22	1	2.9369	1.0	1.00	- rpt @ #1 tray 2 - 1/2
91	1114804	17 Jul 2008	10:58:21	1	0.1220	1.0	1.00	- Dips before + after peak - rpt @ # 2
92	1114805	17 Jul 2008	10:59:21	1	0.0152	1.0	1.00	- neg. peak - rpt @ #3 - tray 2 - 1/2 tray 2 - 1/2
93	CCV	17 Jul 2008	11:00:20	1	1.8178	1.0	1.00	
94	CCB	17 Jul 2008	11:01:19	1	-0.0000	1.0	1.00	tray ends here -
95	LCS	17 Jul 2008	11:02:18	1	0.5089	1.0	1.00	next CCB has air
96	1114806	17 Jul 2008	11:03:17	1	0.0098	1.0	1.00	
97	1114820-44829	17 Jul 2008	11:04:17	1	0.0967	1.0	1.00	
98	1114823	17 Jul 2008	11:05:16	1	0.0481	1.0	1.00	
99	1093555-43447	17 Jul 2008	11:06:14	1	0.1359	1.0	1.00	
100	555 DUP	17 Jul 2008	11:07:12	1	0.1339	1.0	1.00	

nm 7/17/08

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
101	555 SPK TV= 0.500	17 Jul 2008	11:08:10	1	0.6003	1.0	1.00
102	1093556	17 Jul 2008	11:09:09	1	1.7578	1.0	1.00
103	1093558	17 Jul 2008	11:10:07	1	0.0195	1.0	1.00
104	1105710-44235	17 Jul 2008	11:11:05	1	11.7447	1.0	1.00
105	1105712	17 Jul 2008	11:12:03	1	0.0517	1.0	1.00
106	CCV	17 Jul 2008	11:13:03	1	1.8179	1.0	1.00
107	CCB	17 Jul 2008	11:14:03	1	0.0852	1.0	1.00
108	1105714-44235	17 Jul 2008	11:15:02	1	0.0300	1.0	1.00
109	1105715	17 Jul 2008	11:16:01	1	0.0314	1.0	1.00

7/17/08

air spikes - rerun tray from #93

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
93	CCV	17 Jul 2008	11:20:08	1	1.8265	1.0	1.00
94	CCB	17 Jul 2008	11:21:07	1	0.0016	1.0	1.00
95	LCS	17 Jul 2008	11:22:06	1	0.5127	1.0	1.00
96	1114806	17 Jul 2008	11:23:05	1	0.0008	1.0	1.00
97	1114820-44829	17 Jul 2008	11:24:04	1	0.1011	1.0	1.00
98	1114823	17 Jul 2008	11:25:04	1	0.0478	1.0	1.00
99	1093555-43447	17 Jul 2008	11:26:02	1	0.1341	1.0	1.00
100	555 DUP	17 Jul 2008	11:27:00	1	0.1314	1.0	1.00

– neg. peak – < PQL

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
101	555 SPK TV= 0.500	17 Jul 2008	11:27:58	1	0.5959	1.0	1.00
102	1093556	17 Jul 2008	11:28:56	1	1.7473	1.0	1.00
103	1093558	17 Jul 2008	11:29:54	1	0.0195	1.0	1.00
104	1105710-44235	17 Jul 2008	11:30:52	1	13.9112	10.0	1.00
105	1105712	17 Jul 2008	11:31:50	1	0.0528	1.0	1.00
106	CCV	17 Jul 2008	11:32:50	1	1.8243	1.0	1.00
107	CCB	17 Jul 2008	11:33:49	1	0.0050	1.0	1.00
108	1105714-44235	17 Jul 2008	11:34:48	1	0.0285	1.0	1.00
109	1105715	17 Jul 2008	11:35:47	1	0.0355	1.0	1.00
110	1105716	17 Jul 2008	11:36:46	1	0.0280	1.0	1.00
111	1115225-44841	17 Jul 2008	11:37:46	1	0.0203	1.0	1.00
112	1115226	17 Jul 2008	11:38:45	1	0.1261	1.0	1.00
113	1115469-44853	17 Jul 2008	11:39:44	1	-0.0000	1.0	1.00
114	1115470	17 Jul 2008	11:40:42	1	0.7136	1.0	1.00
115	1115471	17 Jul 2008	11:41:40	1	0.0043	1.0	1.00
116	471 DUP	17 Jul 2008	11:42:39	1	0.0051	1.0	1.00
117	471 SPK TV= 0.500	17 Jul 2008	11:43:37	1	0.4399	1.0	1.00
118	CCV	17 Jul 2008	11:44:35	1	1.8202	1.0	1.00
119	CCB	17 Jul 2008	11:45:33	1	0.0018	1.0	1.00
120	LCS	17 Jul 2008	11:46:31	1	0.5256	1.0	1.00
121	1115472	17 Jul 2008	11:47:31	1	0.0619	1.0	1.00
122	1115473	17 Jul 2008	11:48:31	1	0.0619	1.0	1.00
123	1115474	17 Jul 2008	11:49:31	1	0.0243	1.0	1.00
124	1115475	17 Jul 2008	11:50:30	1	0.0996	1.0	1.00
125	1115476	17 Jul 2008	11:51:29	1	0.4022	1.0	1.00

sm neg peaks - < PQL

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
126	476 DUP	17 Jul 2008	11:52:28	1	0.4066	1.0	1.00	
127	476 SPK TV= 0.500	17 Jul 2008	11:53:27	1	0.9077	1.0	1.00	
128	1115477	17 Jul 2008	11:54:26	1	0.0304	1.0	1.00	
129	1115478	17 Jul 2008	11:55:26	1	0.3042	1.0	1.00	
130	MB SOIL 44862	17 Jul 2008	11:56:25	1	0.0377	1.0	1.00	= 0.377
131	CCV	17 Jul 2008	11:57:23	1	1.8099	1.0	1.00	
132	CCB	17 Jul 2008	11:58:21	1	0.0033	1.0	1.00	
133	1115724S-44862	17 Jul 2008	11:59:19	1	0.0427	1.0	1.00	= 0.427
134	724S DUP	17 Jul 2008	12:00:17	1	0.0385	1.0	1.00	= 0.385
135	724S SPK TV= 5.00	17 Jul 2008	12:01:15	1	0.5594	1.0	1.00	= 5.594
136	1115725S	17 Jul 2008	12:02:16	1	0.0301	1.0	1.00	= 0.301
137	1115726S	17 Jul 2008	12:03:16	1	0.0162	1.0	1.00	= 0.162
138	1115727S	17 Jul 2008	12:04:16	1	0.0106	1.0	1.00	= 0.106
139	1115730S	17 Jul 2008	12:05:15	1	0.0474	1.0	1.00	= 0.474
140	1115731S	17 Jul 2008	12:06:15	1	0.0119	1.0	1.00	= 0.119
141	1115732S	17 Jul 2008	12:07:14	1	-0.0000	1.0	1.00	= 0.00
142	1115733S	17 Jul 2008	12:08:13	1	0.0913	1.0	1.00	= 0.913
143	CCV	17 Jul 2008	12:09:12	1	1.8387	1.0	1.00	
144	CCB	17 Jul 2008	12:10:11	1	-0.0000	1.0	1.00	
145	LCS	17 Jul 2008	12:11:11	1	0.5245	1.0	1.00	
146	1115734S	17 Jul 2008	12:12:10	1	0.0079	1.0	1.00	= 0.079
147	1115735S	17 Jul 2008	12:13:08	1	0.0236	1.0	1.00	= 0.236
148	1115736S	17 Jul 2008	12:14:06	1	0.0234	1.0	1.00	= 0.234
149	1115737S	17 Jul 2008	12:15:04	1	0.0447	1.0	1.00	= 0.447
150	1115738S	17 Jul 2008	12:16:02	1	0.0328	1.0	1.00	= 0.328

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
soil: 0g/250mL							
151	1115739S	17 Jul 2008	12:17:03	1	0.0194	1.0	1.00 = 0.194
152	1115782-44866	17 Jul 2008	12:18:03	1	0.1844	1.0	1.00
153	1115783	17 Jul 2008	12:19:03	1	0.1661	1.0	1.00
154	1115784	17 Jul 2008	12:20:03	1	15.2799	1.0	1.00 - pt@#33-tray2-1/20
155	1115785	17 Jul 2008	12:21:02	1	20.3118	1.0	1.00 - pt@#34-tray2-1/20
156	CCV	17 Jul 2008	12:22:01	1	1.8480	1.0	1.00
157	CCB	17 Jul 2008	12:23:01	1	0.0059	1.0	1.00
158	1115927-44853	17 Jul 2008	12:24:00	1	0.0979	1.0	1.00
159	1115928	17 Jul 2008	12:24:59	1	0.0069	1.0	1.00
160	1115929	17 Jul 2008	12:25:58	1	0.1179	1.0	1.00
161	929 DUP	17 Jul 2008	12:26:57	1	0.1195	1.0	1.00
162	929 SPK TV= 0.500	17 Jul 2008	12:27:57	1	0.5973	1.0	1.00
163	1115930	17 Jul 2008	12:28:55	1	0.0098	1.0	1.00
164	1115931	17 Jul 2008	12:29:53	1	0.0047	1.0	1.00
165	1115932	17 Jul 2008	12:30:51	1	0.0208	1.0	1.00
166	1116319-44886	17 Jul 2008	12:31:51	1	0.0158	1.0	1.00
167	1116320	17 Jul 2008	12:32:51	1	0.1822	1.0	1.00
168	CCV	17 Jul 2008	12:33:52	1	1.8421	1.0	1.00 trayends here
169	CCB	17 Jul 2008	12:34:52	1	0.0000	1.0	1.00
170	LCS	17 Jul 2008	12:35:52	1	0.5378	1.0	1.00 - airspikes -
171	1116367-44866	17 Jul 2008	12:36:51	1	6.9232	1.0	1.00 rerun tray from #168
172	367 DUP	17 Jul 2008	12:37:50	1	6.9395	1.0	1.00

nm 7/17/08

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 12:42:04
DATA FILENAME: C:\OMNION\DATA\080717A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A3.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
168	CCV	17 Jul 2008	12:42:09	1	1.8351	1.0	1.00
169	CCB	17 Jul 2008	12:43:09	1	0.0057	1.0	1.00
170	LCS	17 Jul 2008	12:44:09	1	0.5295	1.0	1.00
171	1116367-44866	17 Jul 2008	12:45:08	1	7.4339	10.0	1.00
172	367 DUP	17 Jul 2008	12:46:07	1	7.4572	10.0	1.00
173	367 SPK TV= 0.500	17 Jul 2008	12:47:07	1	12.5625	10.0	1.00
174	1116370	17 Jul 2008	12:48:06	1	1.2456	1.0	1.00
175	1116373	17 Jul 2008	12:49:05	1	0.0751	1.0	1.00

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 12:42:04
DATA FILENAME: C:\OMNION\DATA\080717A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A3.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 176 to 200

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
176	1116525-44853	17 Jul 2008	12:50:04	1	0.0869	1.0	1.00	
177	1116526	17 Jul 2008	12:51:03	1	0.0505	1.0	1.00	
178	1116527	17 Jul 2008	12:52:03	1	0.0012	1.0	1.00	
179	1116528	17 Jul 2008	12:53:01	1	9.0088	20.0	1.00	- rpt @#35 - tray2 - 1/5
180	1116529	17 Jul 2008	12:53:59	1	0.0714	1.0	1.00	
181	CCV	17 Jul 2008	12:54:59	1	1.8145	1.0	1.00	
182	CCB	17 Jul 2008	12:56:00	1	-0.0000	1.0	1.00	
183	1116530	17 Jul 2008	12:57:00	1	0.0526	1.0	1.00	
184	1116531	17 Jul 2008	12:58:00	1	0.0079	1.0	1.00	
185	1116532	17 Jul 2008	12:59:00	1	0.1773	1.0	1.00	
186	1116533	17 Jul 2008	13:00:01	1	0.0210	1.0	1.00	
187	1117053-44915	17 Jul 2008	13:01:01	1	0.0266	1.0	1.00	odd peak; < PQL
188	1117054	17 Jul 2008	13:02:00	1	0.2477	1.0	1.00	
189	1105723-44236	17 Jul 2008	13:02:59	1	17.3638	10.0	1.00	
190	1105728	17 Jul 2008	13:03:58	1	0.0802	1.0	1.00	
191	1105428 RPT	17 Jul 2008	13:04:58	1	0.1558	1.0	1.00	
192	MB SOIL 44797 RPT (350mL)	17 Jul 2008	13:05:57	1	0.0572	1.0	1.00	= 0.572 - report original result
193	CCV	17 Jul 2008	13:06:56	1	1.8076	1.0	1.00	
194	CCB	17 Jul 2008	13:07:55	1	0.0036	1.0	1.00	
195	LCS	17 Jul 2008	13:08:54	1	0.5224	1.0	1.00	
196	1114756 RPT 1/10	17 Jul 2008	13:09:55	1	12.9228	10.0	1.00	
197	1114801 RPT 1/2	17 Jul 2008	13:10:55	1	0.0617	2.0	1.00	- neg. peak - rpt @#39 - tray2 - 1/4
198	1114802 RPT 1/2	17 Jul 2008	13:11:55	1	-0.0000	2.0	1.00	- neg. peak - < PQL
199	CCV	17 Jul 2008	13:12:55	1	1.8194	1.0	1.00	
200	CCB	17 Jul 2008	13:13:56	1	-0.0000	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:17:22
DATA FILENAME: C:\OMNION\DATA\080717A4.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A4.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
1	1114803 RPT 1/2	17 Jul 2008	13:17:25	1	1.6323	2.0	1.00	x 2 = 3.2646
2	1114804 RPT 1/2	17 Jul 2008	13:18:24	1	-0.0000	2.0	1.00	– neg. peak – rpt @ #40 – 1/10
3	1114805 RPT 1/2	17 Jul 2008	13:19:22	1	-0.0000	2.0	1.00	– rpt @ #41 – 1/4 – neg. peak
4	MB SOIL 44885	17 Jul 2008	13:20:20	1	0.0063	1.0	1.00	= 0.063
5	1116251S-44885	17 Jul 2008	13:21:18	1	0.0187	1.0	1.00	= 0.187
6	251S DUP	17 Jul 2008	13:22:16	1	0.0173	1.0	1.00	= 0.173
7	251S SPK TV= 5.00	17 Jul 2008	13:23:14	1	0.5261	1.0	1.00	= 5.261
8	1116253S	17 Jul 2008	13:24:12	1	0.0202	1.0	1.00	= 0.202
9	1116254S	17 Jul 2008	13:25:09	1	0.0171	1.0	1.00	= 0.171
10	1116255S	17 Jul 2008	13:26:07	1	0.0012	1.0	1.00	– Bad integration – rpt @ #42
11	CCV	17 Jul 2008	13:27:04	1	1.8210	1.0	1.00	
12	CCB	17 Jul 2008	13:28:01	1	0.0024	1.0	1.00	
13	LCS	17 Jul 2008	13:28:58	1	0.5303	1.0	1.00	
14	1116256S	17 Jul 2008	13:29:55	1	0.0098	1.0	1.00	= 0.098
15	1116257S	17 Jul 2008	13:30:52	1	-0.0000	1.0	1.00	– Neg. peak – rpt @ #43 – 1/2
16	1116258S	17 Jul 2008	13:31:50	1	0.0003	1.0	1.00	= 0.003 (neg. peak – < PQL)
17	1116264S	17 Jul 2008	13:32:50	1	0.0144	1.0	1.00	= 0.144
18	1116265S	17 Jul 2008	13:33:48	1	0.0122	1.0	1.00	= 0.122
19	1116267S	17 Jul 2008	13:34:46	1	0.0167	1.0	1.00	= 0.167
20	1116269S	17 Jul 2008	13:35:44	1	0.0165	1.0	1.00	= 0.165 } neg. peaks – < PQL
21	269S DUP	17 Jul 2008	13:36:42	1	0.0170	1.0	1.00	= 0.170
22	269S SPK TV= 5.00	17 Jul 2008	13:37:40	1	0.4914	1.0	1.00	= 4.914
23	1116271S	17 Jul 2008	13:38:39	1	0.0025	1.0	1.00	= 0.025
24	CCV	17 Jul 2008	13:39:37	1	1.8310	1.0	1.00	
25	CCB	17 Jul 2008	13:40:34	1	0.0035	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:17:22
DATA FILENAME: C:\OMNION\DATA\080717A4.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A4.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	
26	1116273S	17 Jul 2008	13:41:31	1	0.0083	1.0	1.00	= 0.083 (neg. peak - < PQL)
27	1116274S	17 Jul 2008	13:42:28	1	0.0075	1.0	1.00	= 0.075
28	1116275S	17 Jul 2008	13:43:25	1	0.0058	1.0	1.00	= 0.058
29	1116276S	17 Jul 2008	13:44:22	1	0.0135	1.0	1.00	= 0.135
30	1116277S	17 Jul 2008	13:45:19	1	-0.0000	1.0	1.00	= 0.00 (neg. peak - < PQL)
31	1116278S	17 Jul 2008	13:46:19	1	0.0152	1.0	1.00	= 0.152
32	1116279S	17 Jul 2008	13:47:18	1	0.0243	1.0	1.00	= 0.243
33	1115784 RPT 1/20	17 Jul 2008	13:48:17	1	22.6811	20.0	1.00	
34	1115785 RPT 1/20	17 Jul 2008	13:49:15	1	56.8616	20.0	1.00	- rpt @ #44 - 1/50
35	1116528 RPT 1/5	17 Jul 2008	13:50:13	1	8.0685	5.0	1.00	
36	CCV	17 Jul 2008	13:51:11	1	1.8119	1.0	1.00	
37	CCB	17 Jul 2008	13:52:10	1	0.0022	1.0	1.00	tray ends here
38	LCS	17 Jul 2008	13:53:08	1	0.1208	1.0	1.00	- low - repour + rerun tray from #36
39	1114801 RPT 1/4	17 Jul 2008	13:54:06	1	0.0004	4.0	1.00	
40	1114804 RPT 1/4	17 Jul 2008	13:55:04	1	0.0944	4.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:58:23
DATA FILENAME: C:\OMNION\DATA\080717A5.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A5.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 350.1 Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor
36	CCV	17 Jul 2008	13:58:26	1	1.8261	1.0	1.00
37	CCB	17 Jul 2008	13:59:24	1	0.0065	1.0	1.00
38	LCS	17 Jul 2008	14:00:22	1	0.5382	1.0	1.00
39	1114801 RPT 1/4	17 Jul 2008	14:01:20	1	-0.0000	4.0	1.00
40	1114804 RPT 1/10	17 Jul 2008	14:02:18	1	-0.0000	10.0	1.00
41	1114805 RPT 1/4	17 Jul 2008	14:03:15	1	-0.0000	4.0	1.00
42	1116255S RPT	17 Jul 2008	14:04:12	1	0.0024	1.0	1.00
43	1116257S RPT 1/2	17 Jul 2008	14:05:09	1	0.0324	2.0	1.00
44	1115785 RPT 1/50	17 Jul 2008	14:06:06	1	56.9411	50.0	1.00
45	CCV	17 Jul 2008	14:07:04	1	1.8371	1.0	1.00
46	CCB	17 Jul 2008	14:08:03	1	-0.0000	1.0	1.00

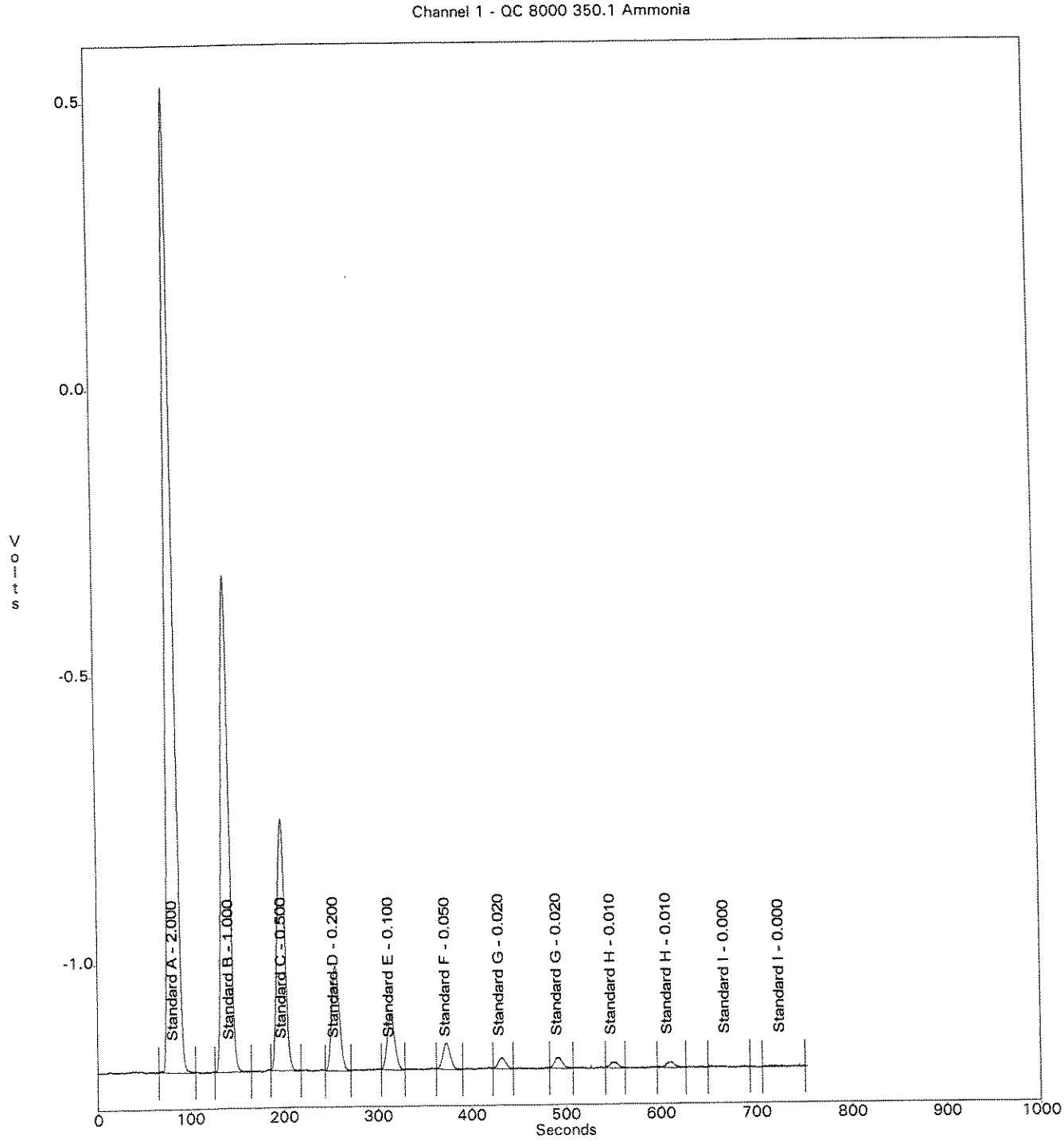
neg peak - < PQL

dil. 50mL
mg → ↓

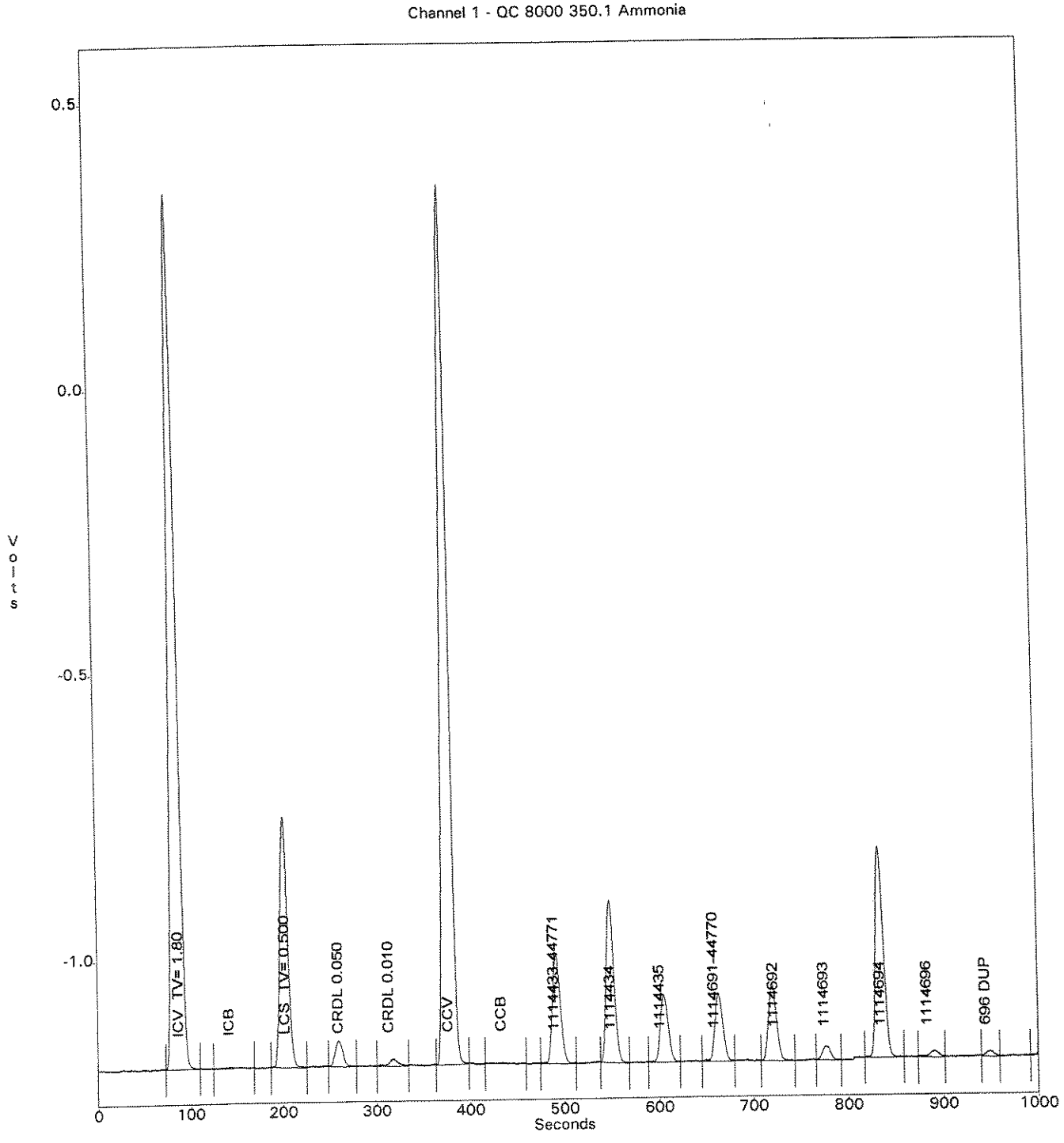
= 0.024

= 0.324 - neg. peak - < PQL

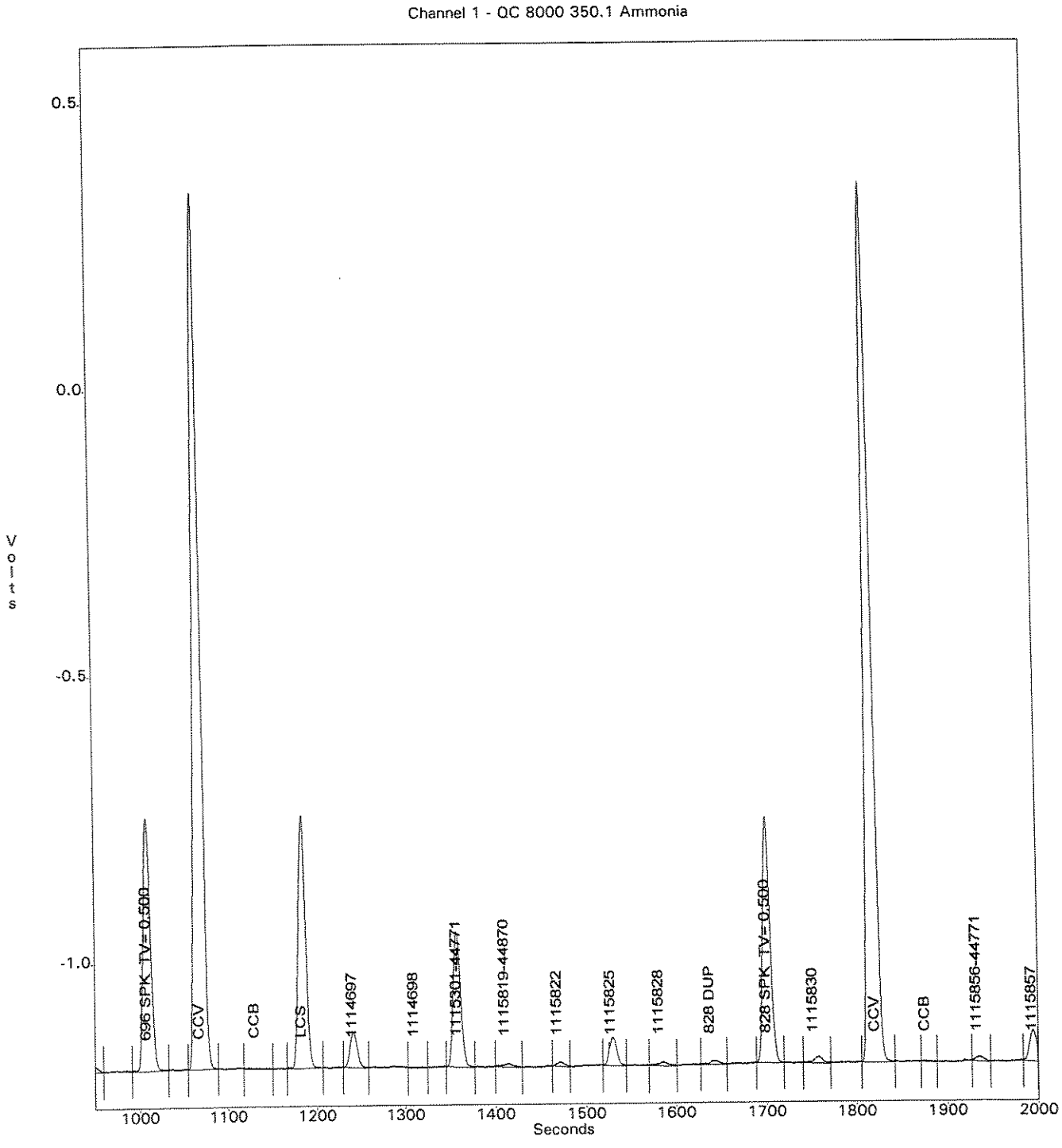
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:16:19
DATA FILENAME: C:\OMNION\DATA\0807170A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



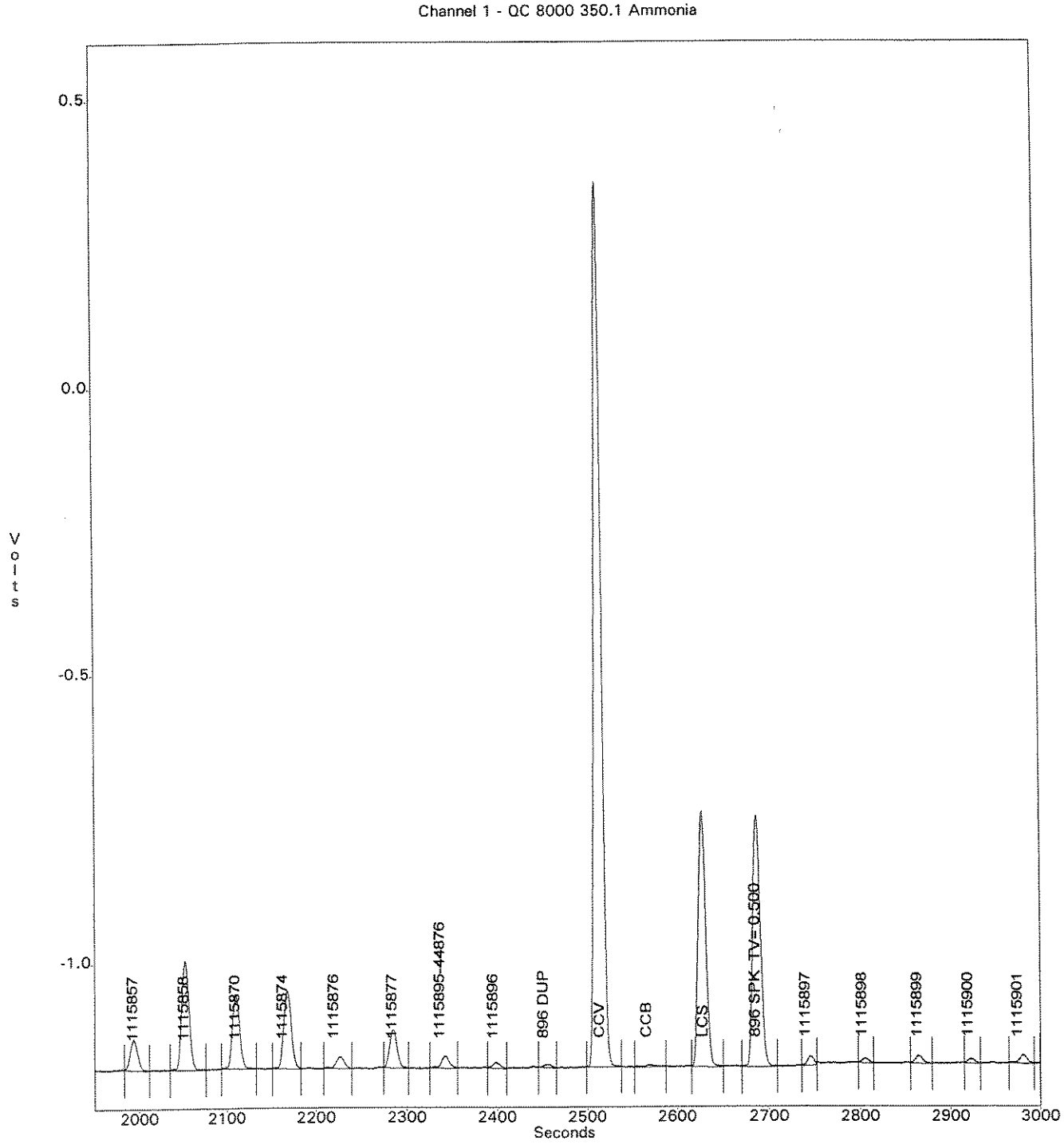
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



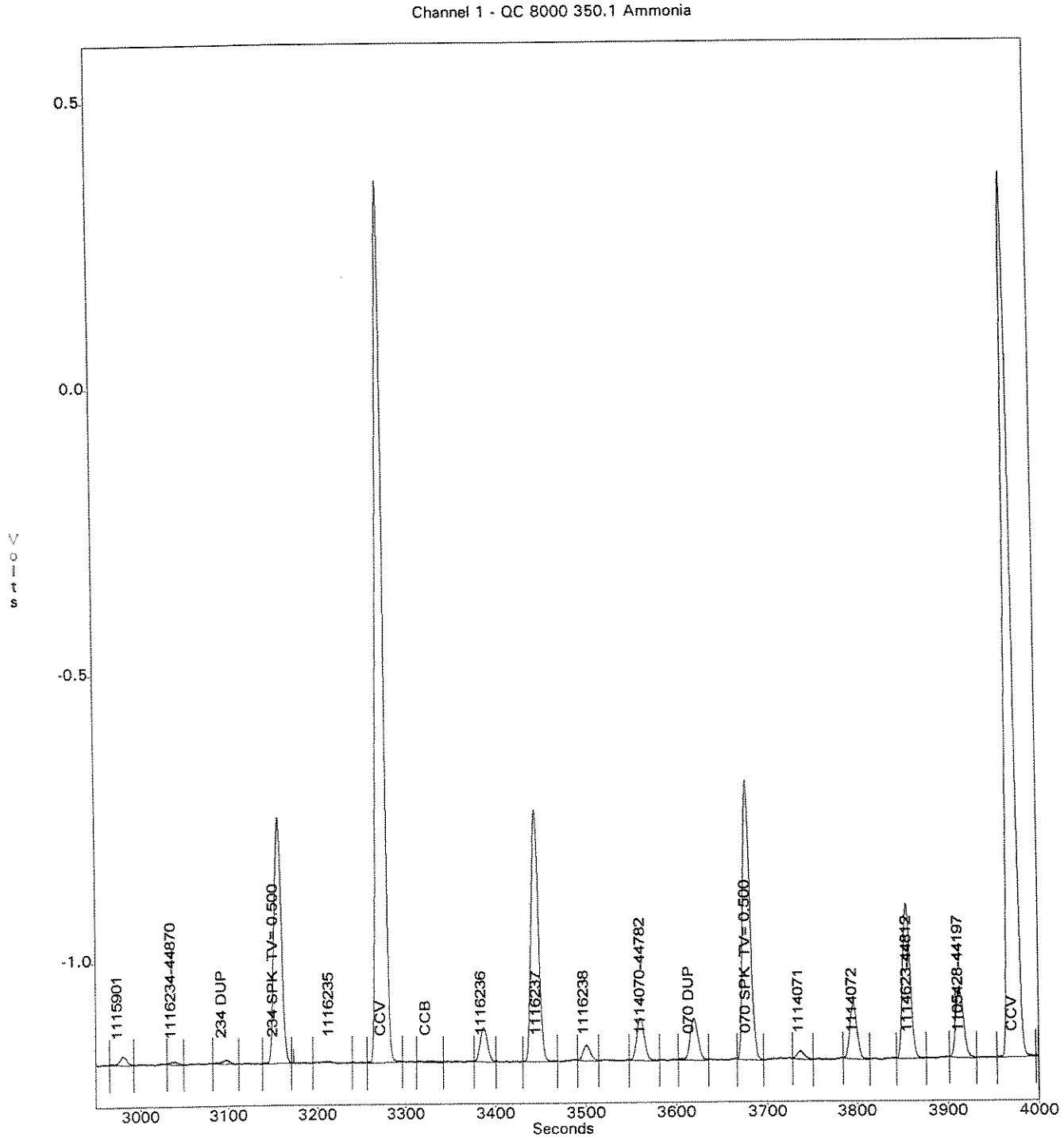
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



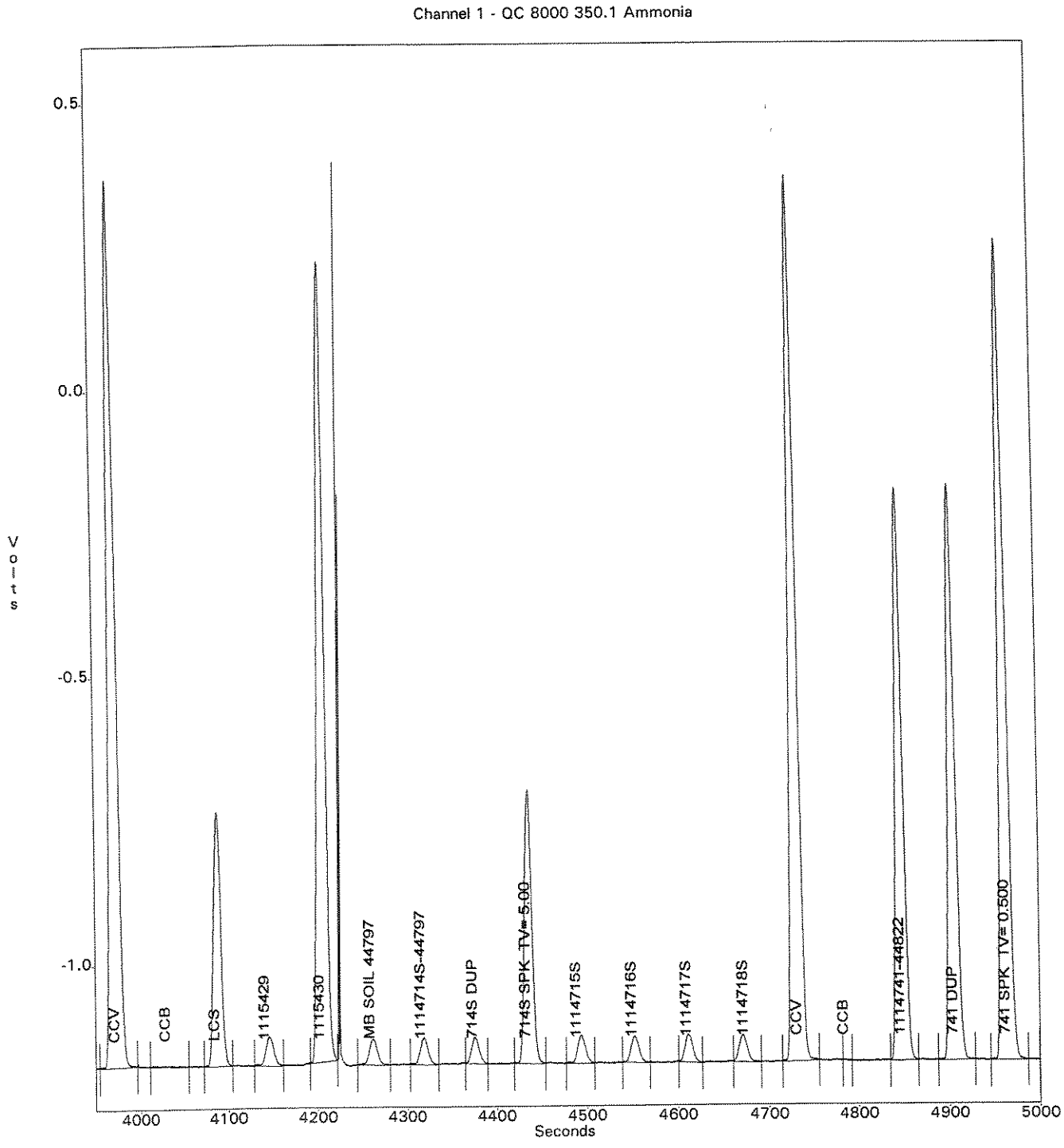
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



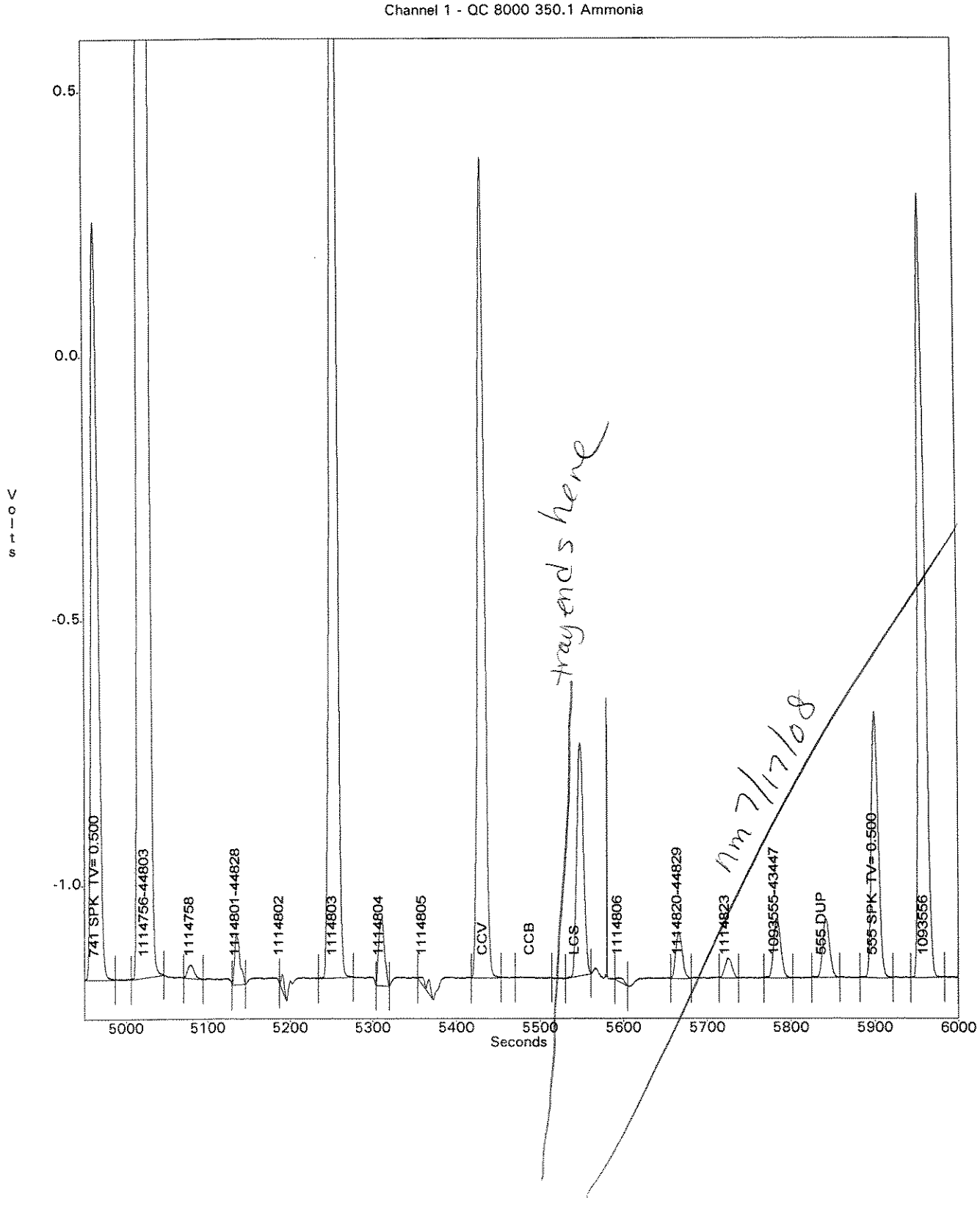
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



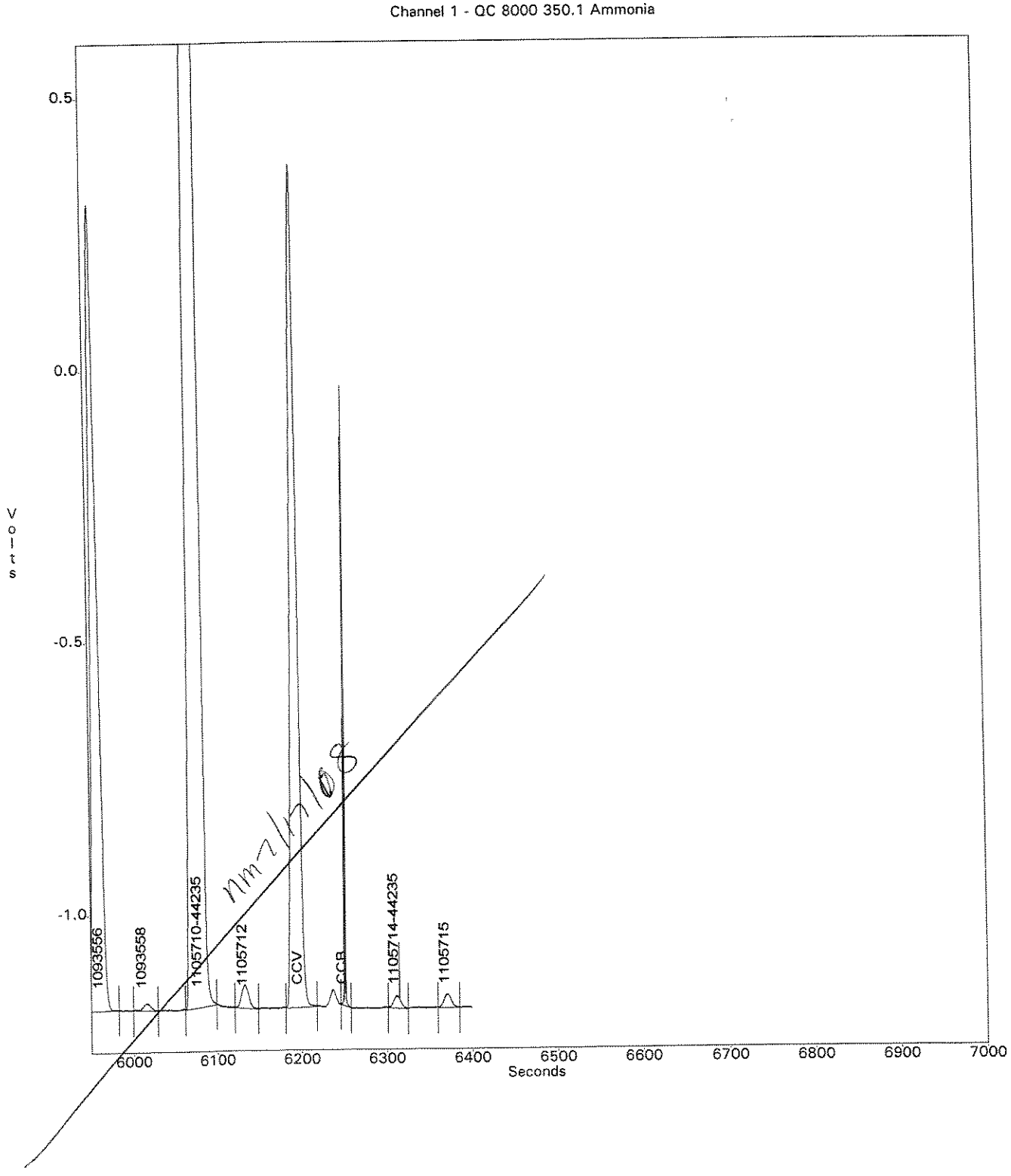
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



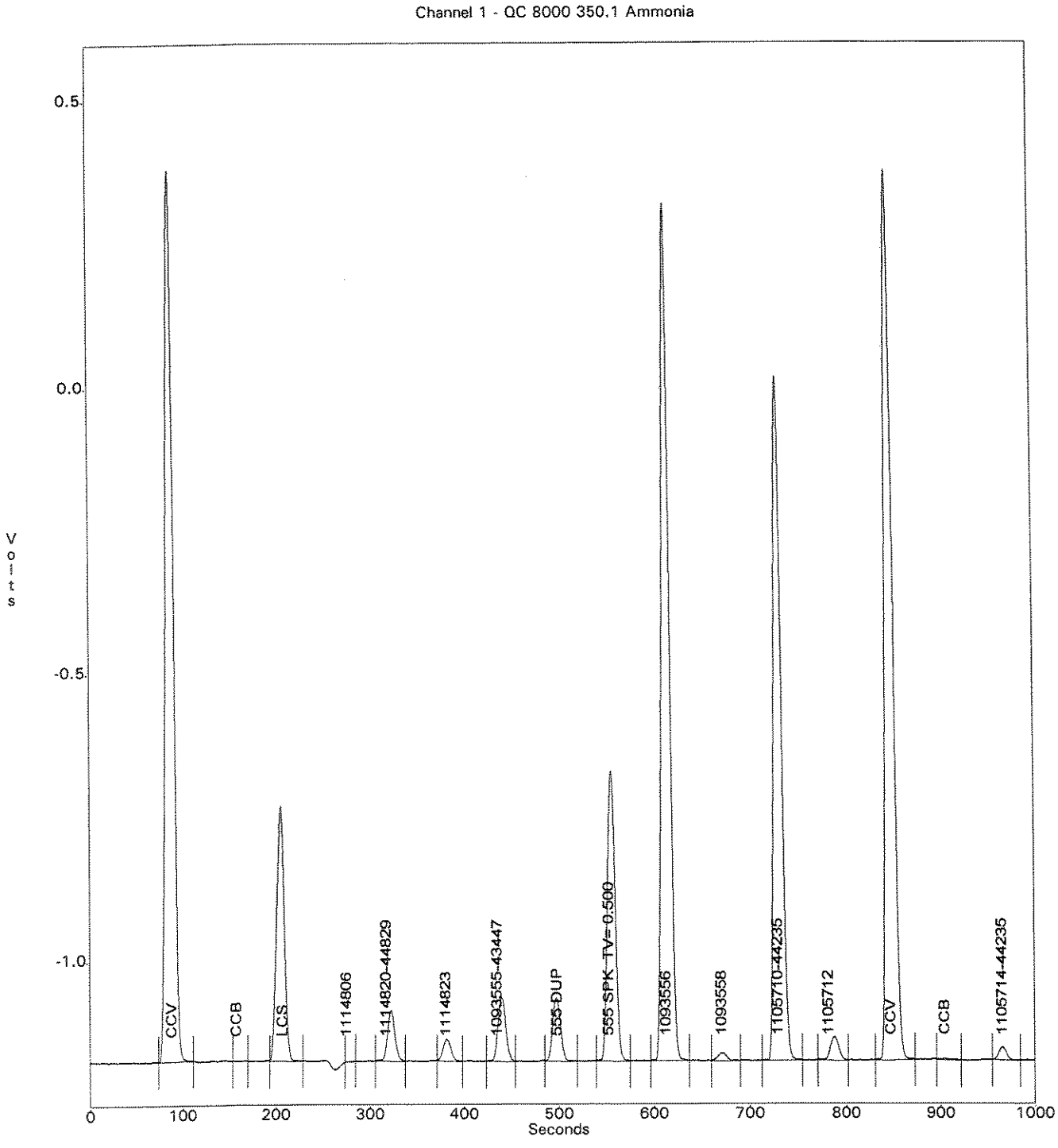
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



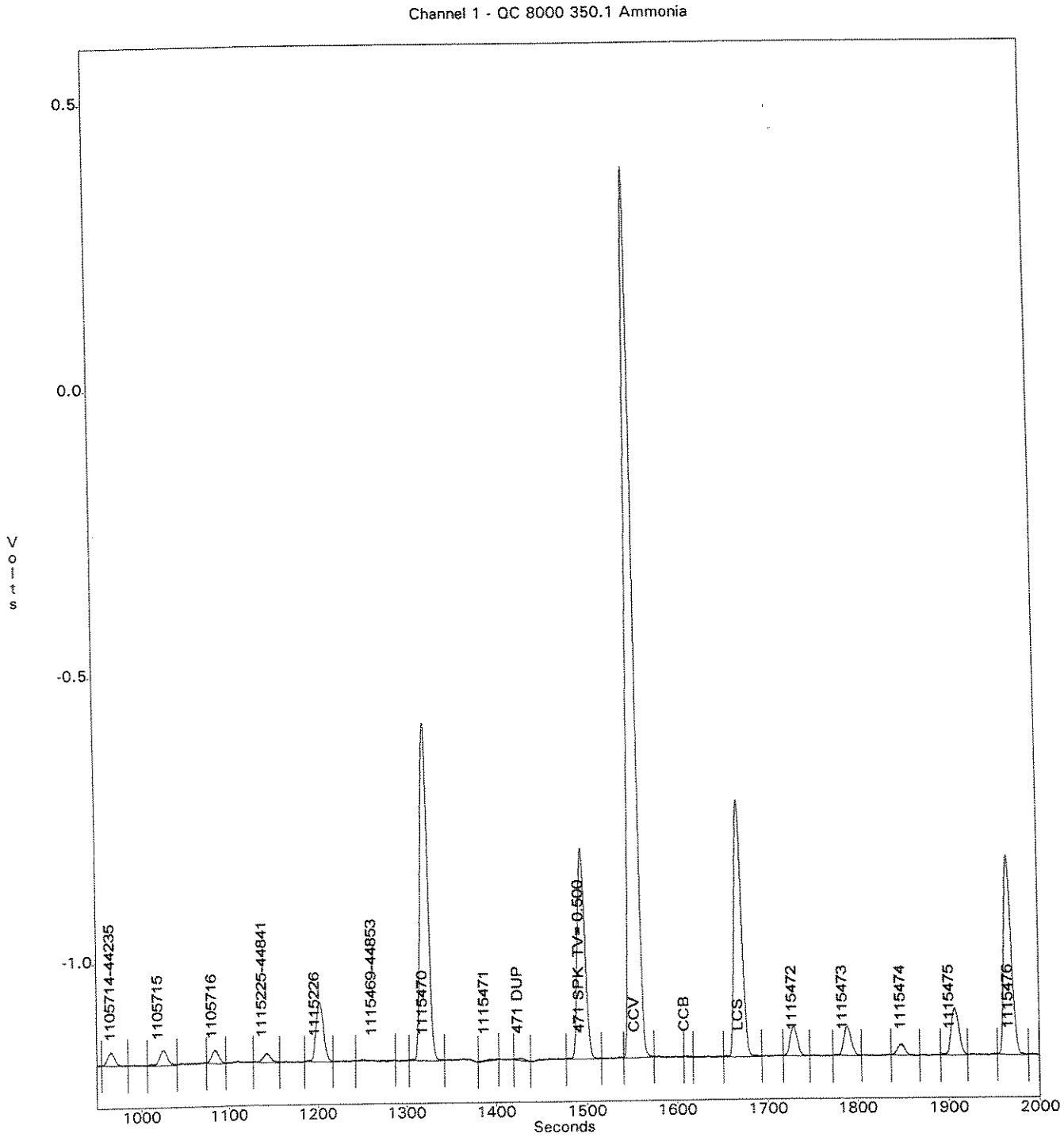
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:31:12
DATA FILENAME: C:\OMNION\DATA\080717A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA



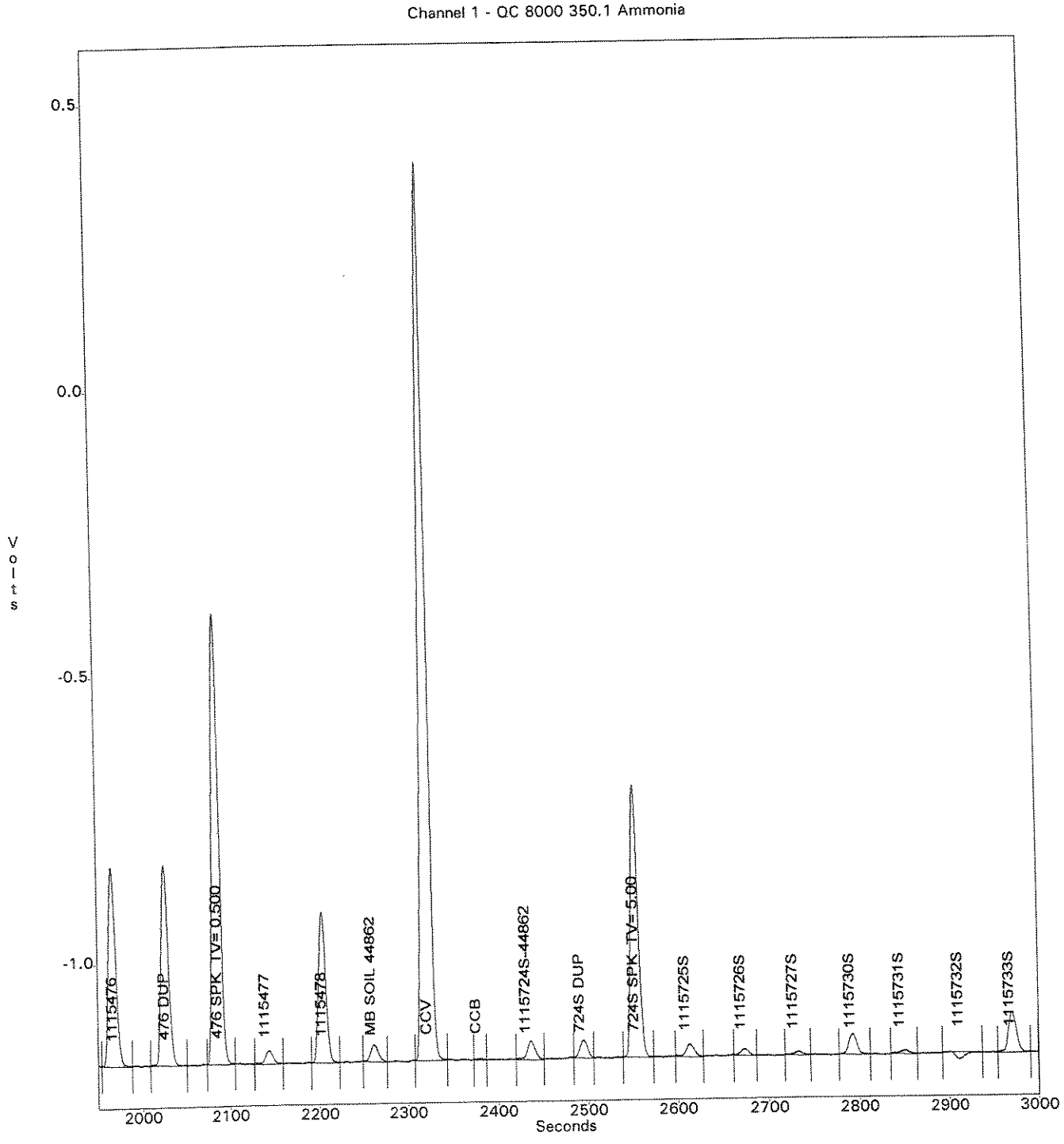
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA



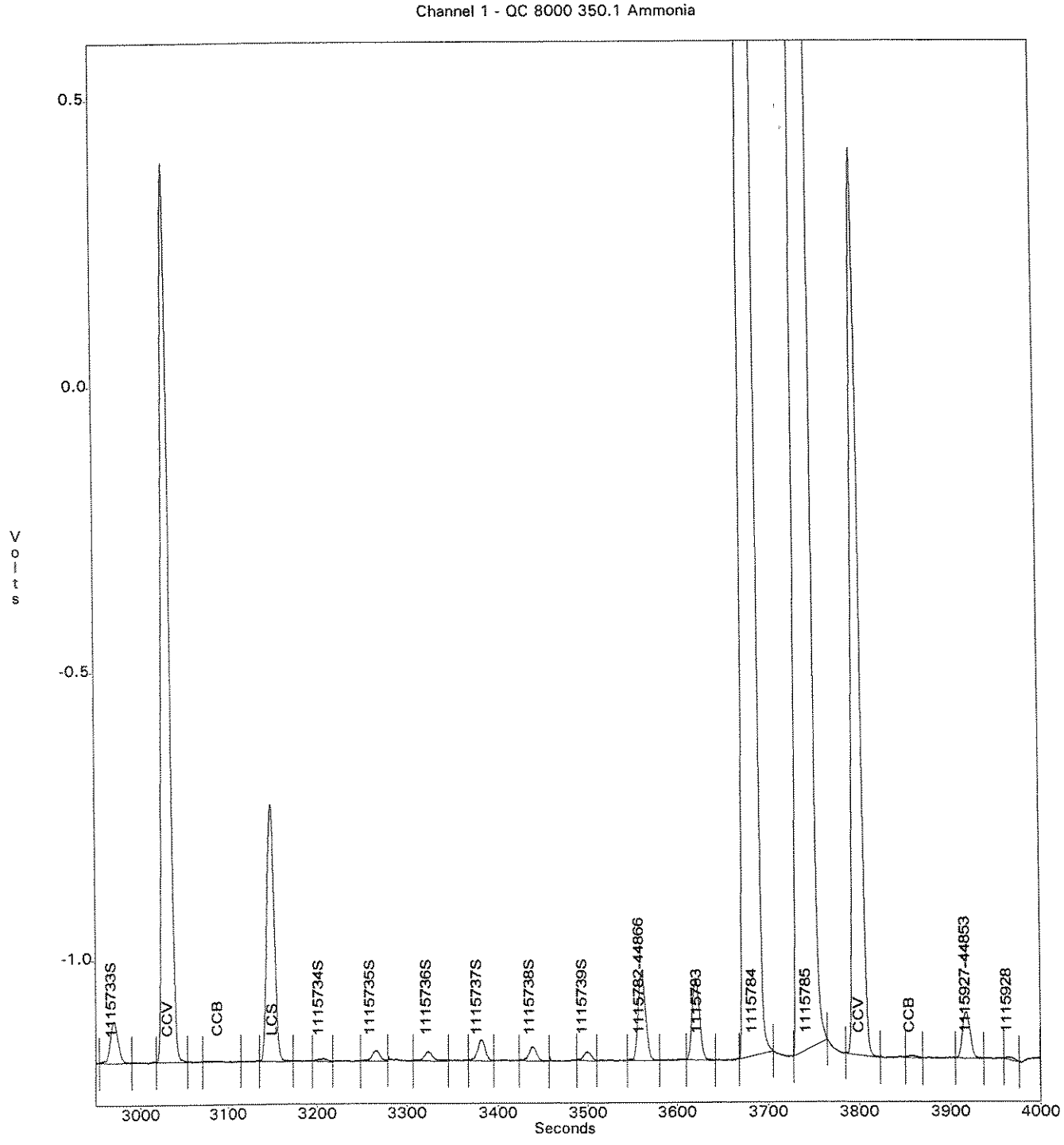
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA



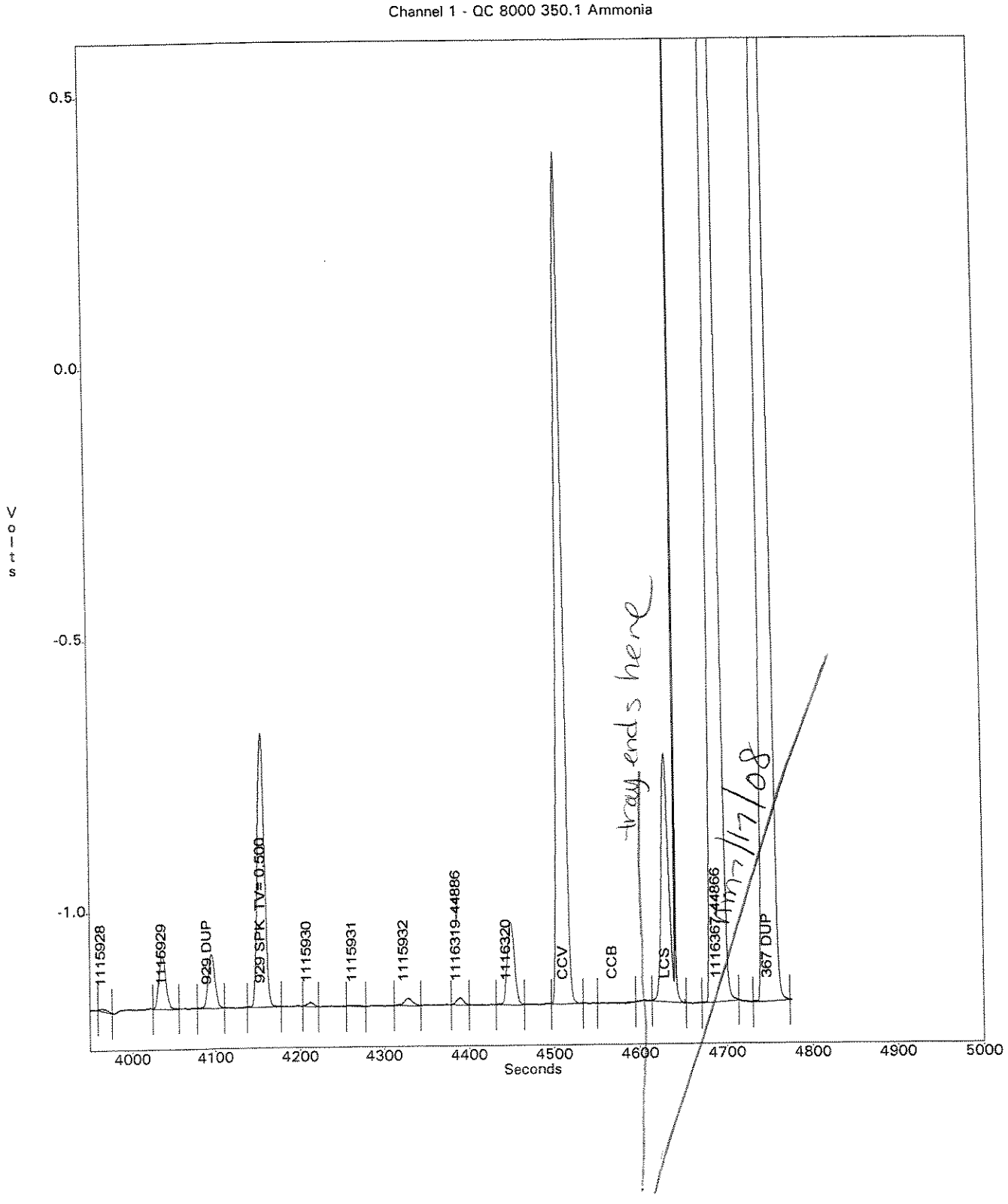
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA



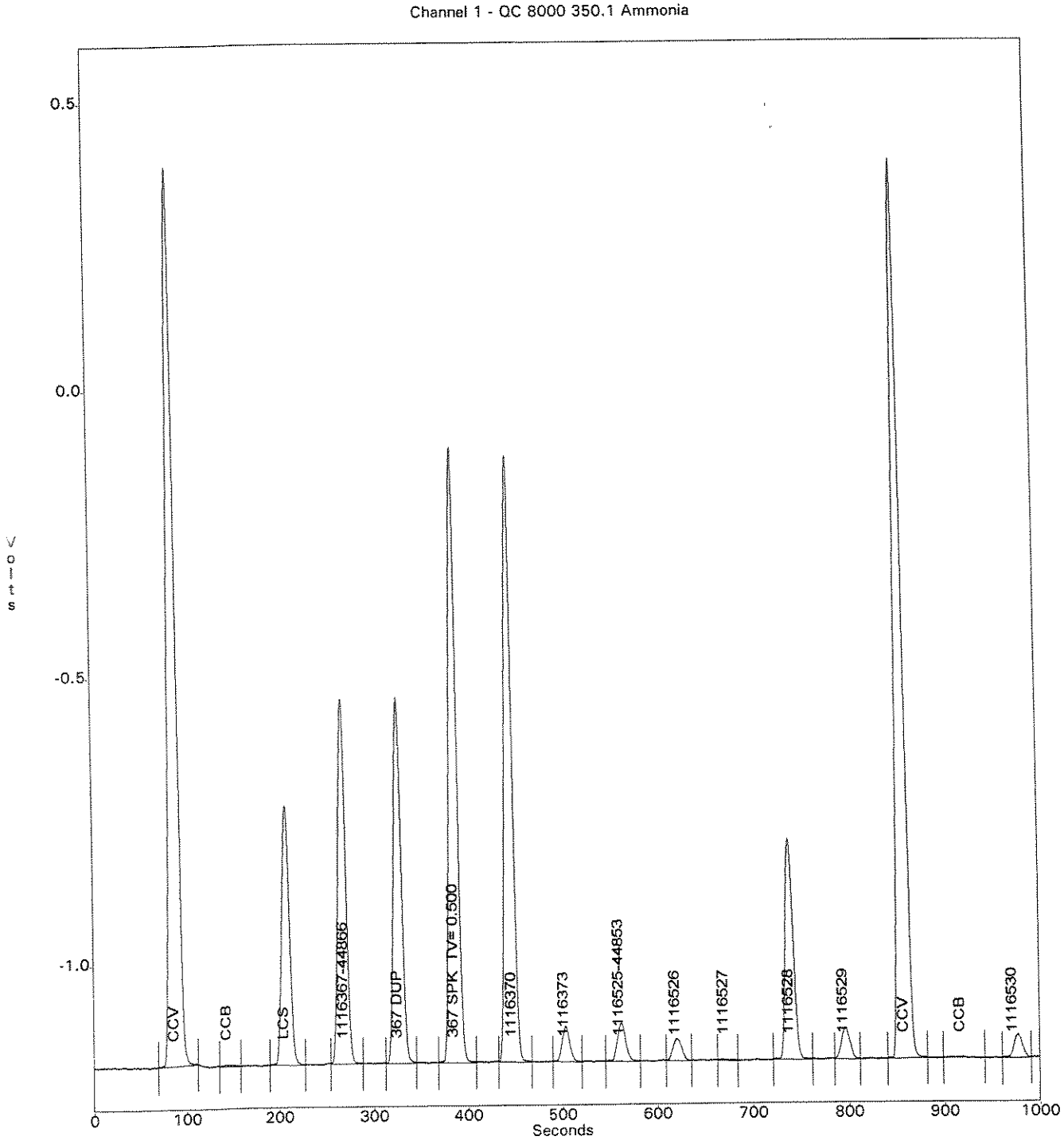
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA



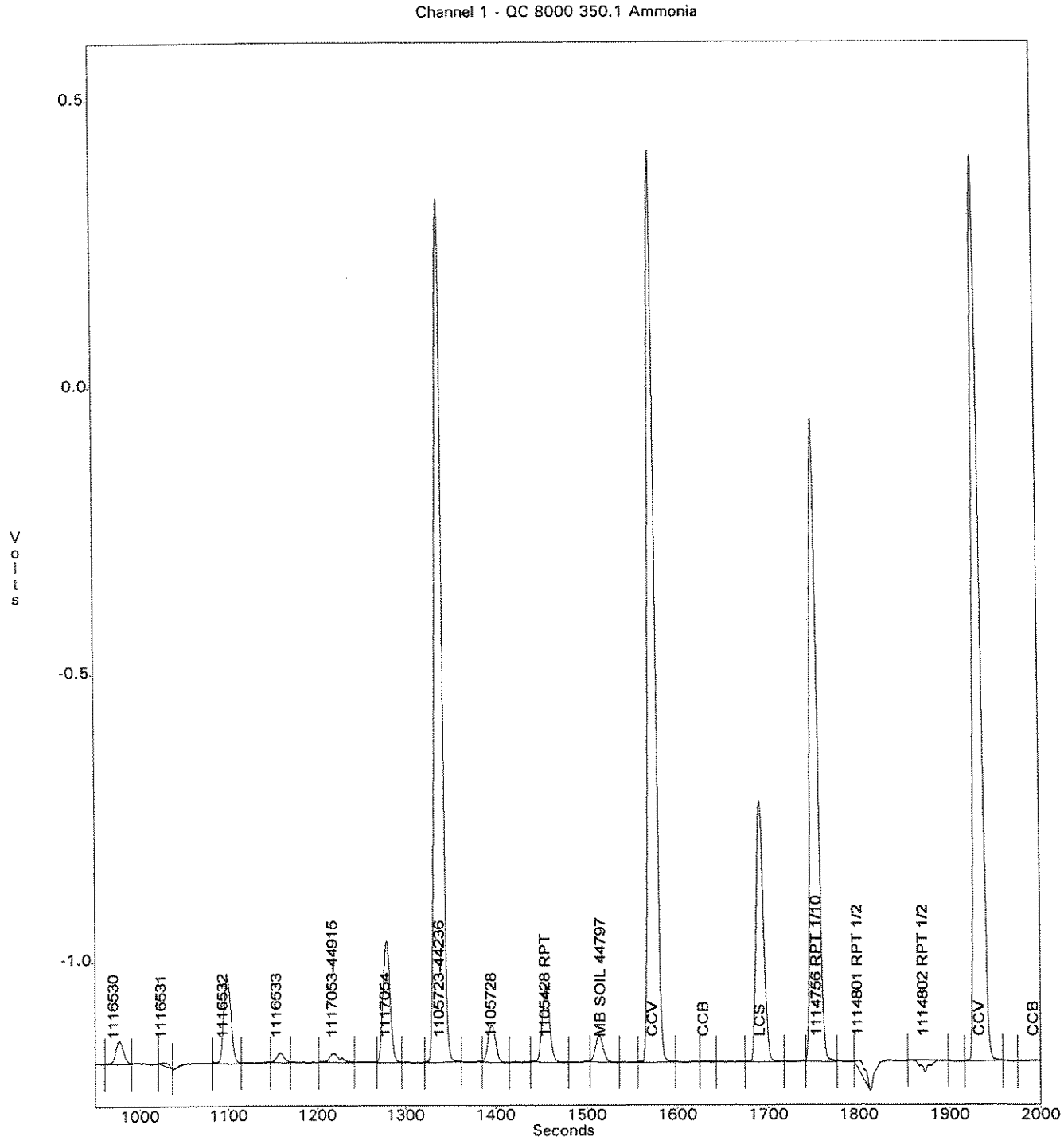
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 11:20:04
DATA FILENAME: C:\OMNION\DATA\080717A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A2.TRA



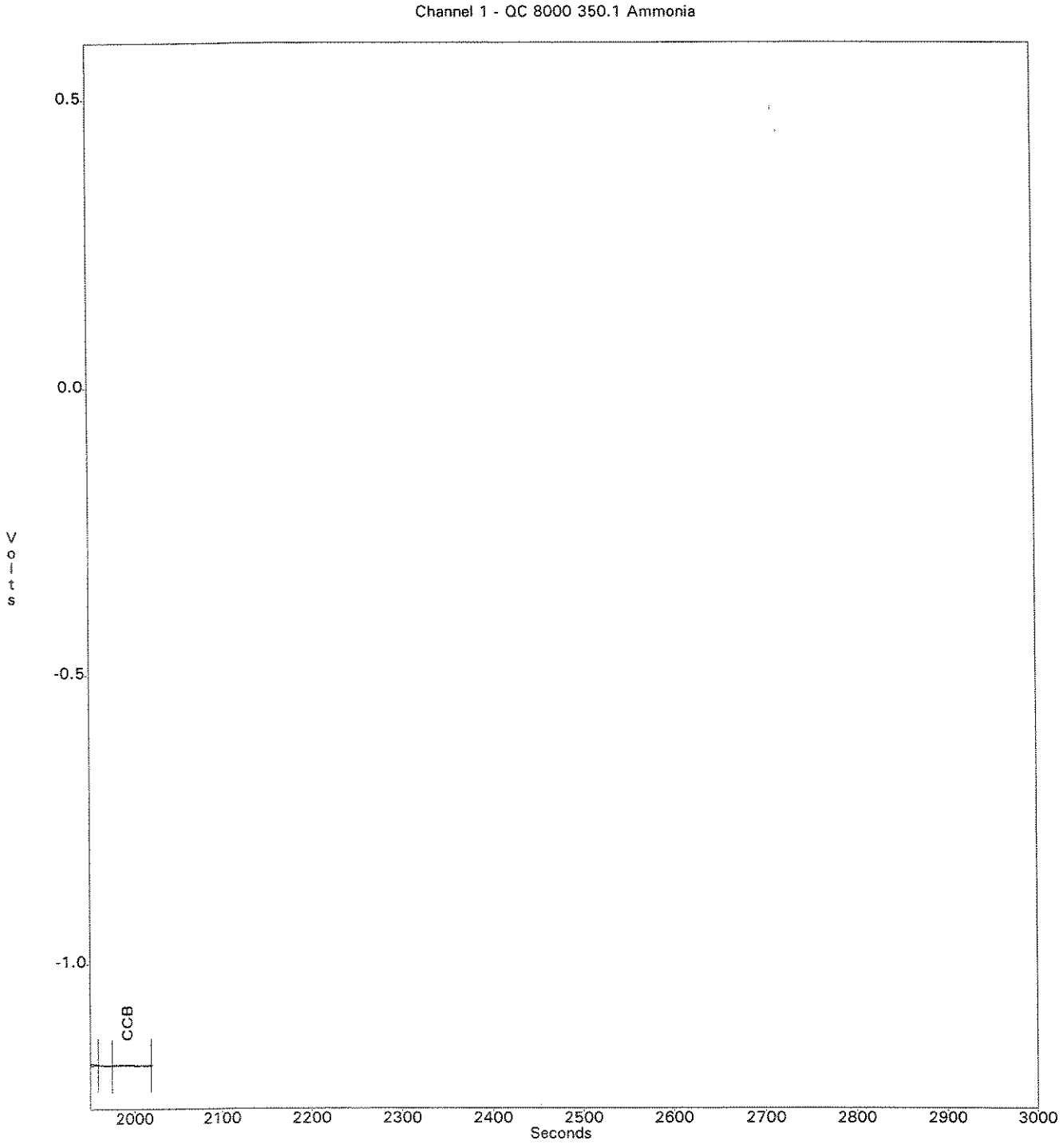
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 12:42:04
DATA FILENAME: C:\OMNION\DATA\080717A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A3.TRA



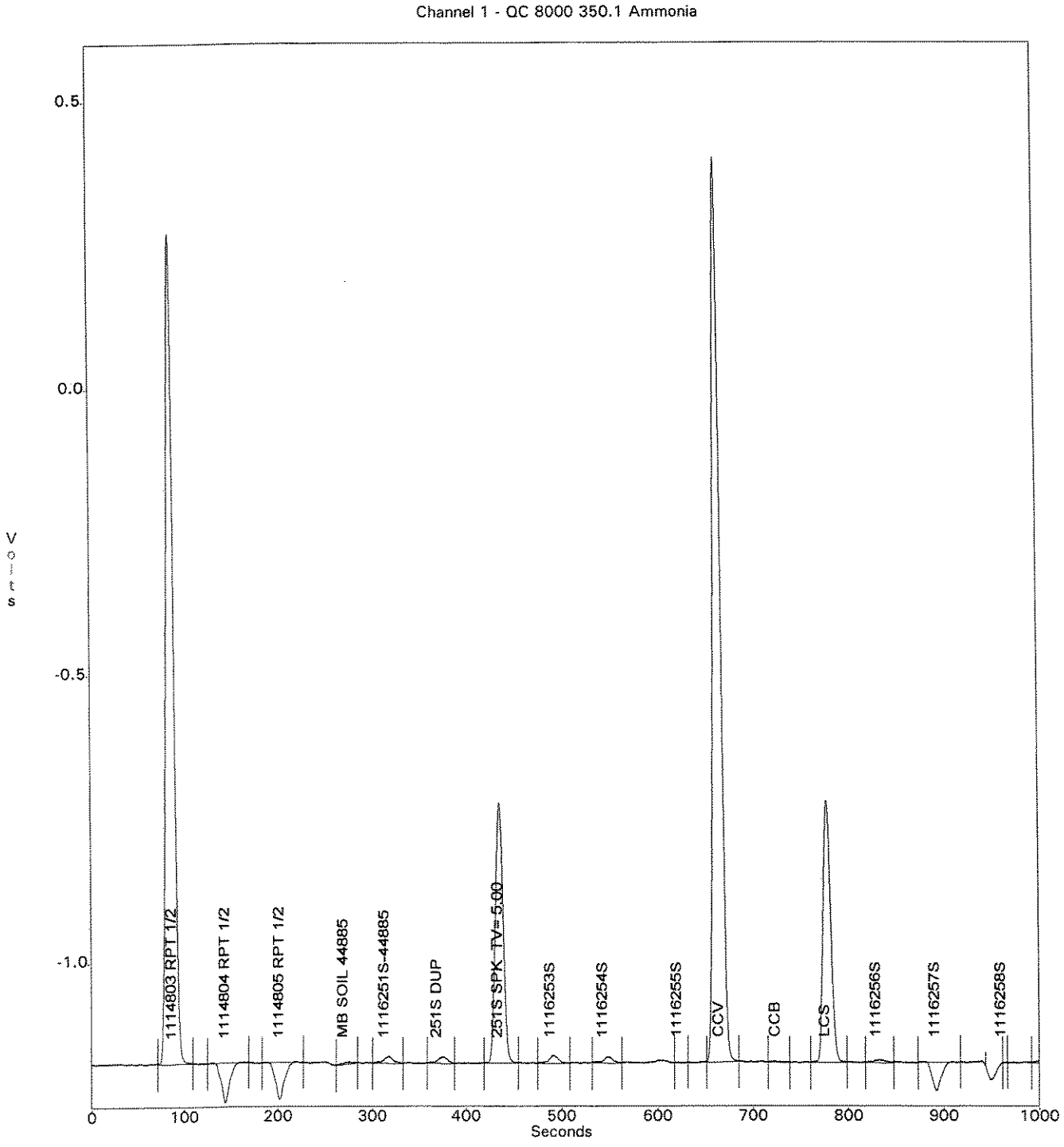
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 12:42:04
DATA FILENAME: C:\OMNION\DATA\080717A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A3.TRA



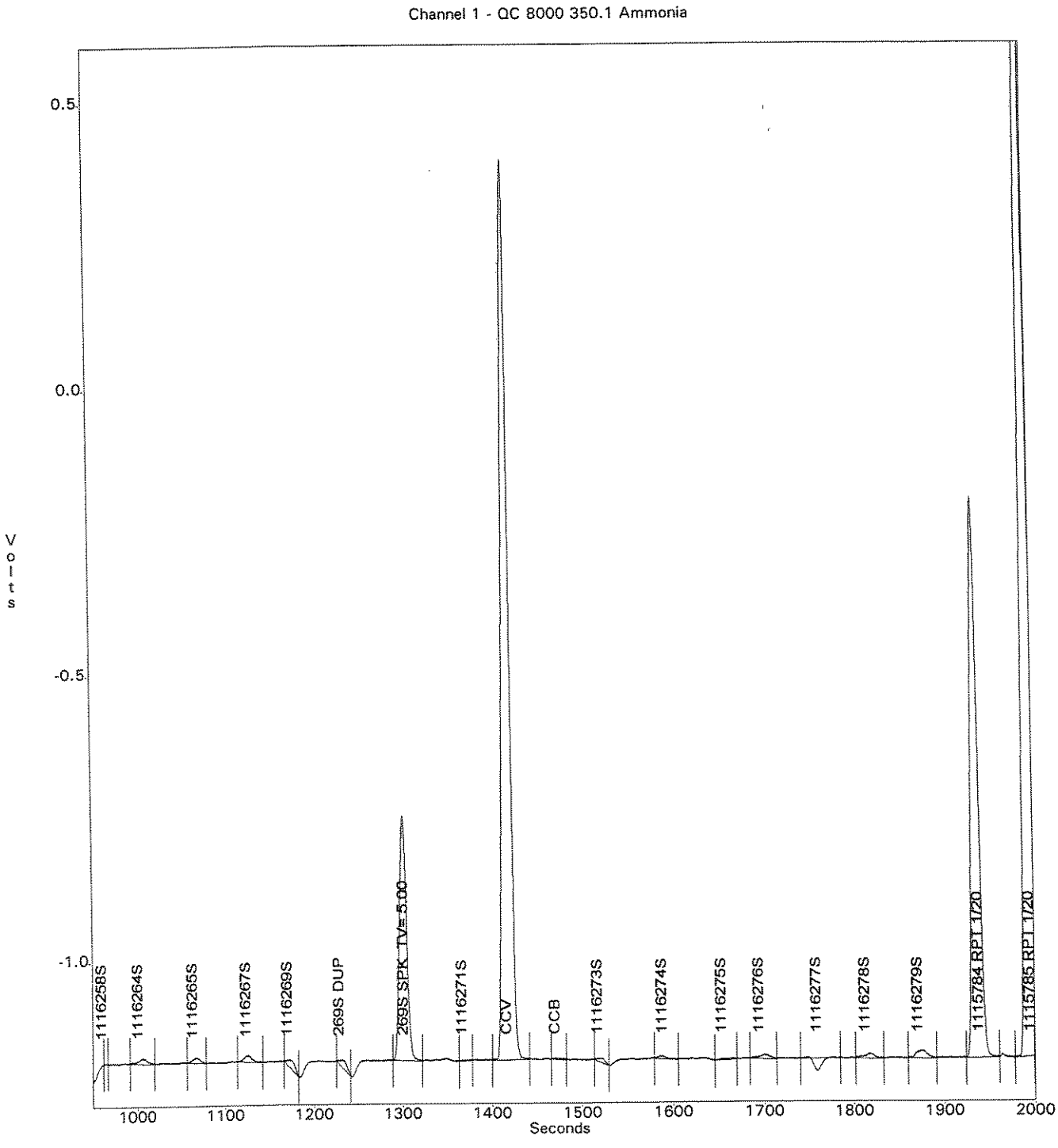
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 12:42:04
DATA FILENAME: C:\OMNION\DATA\080717A3.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A3.TRA



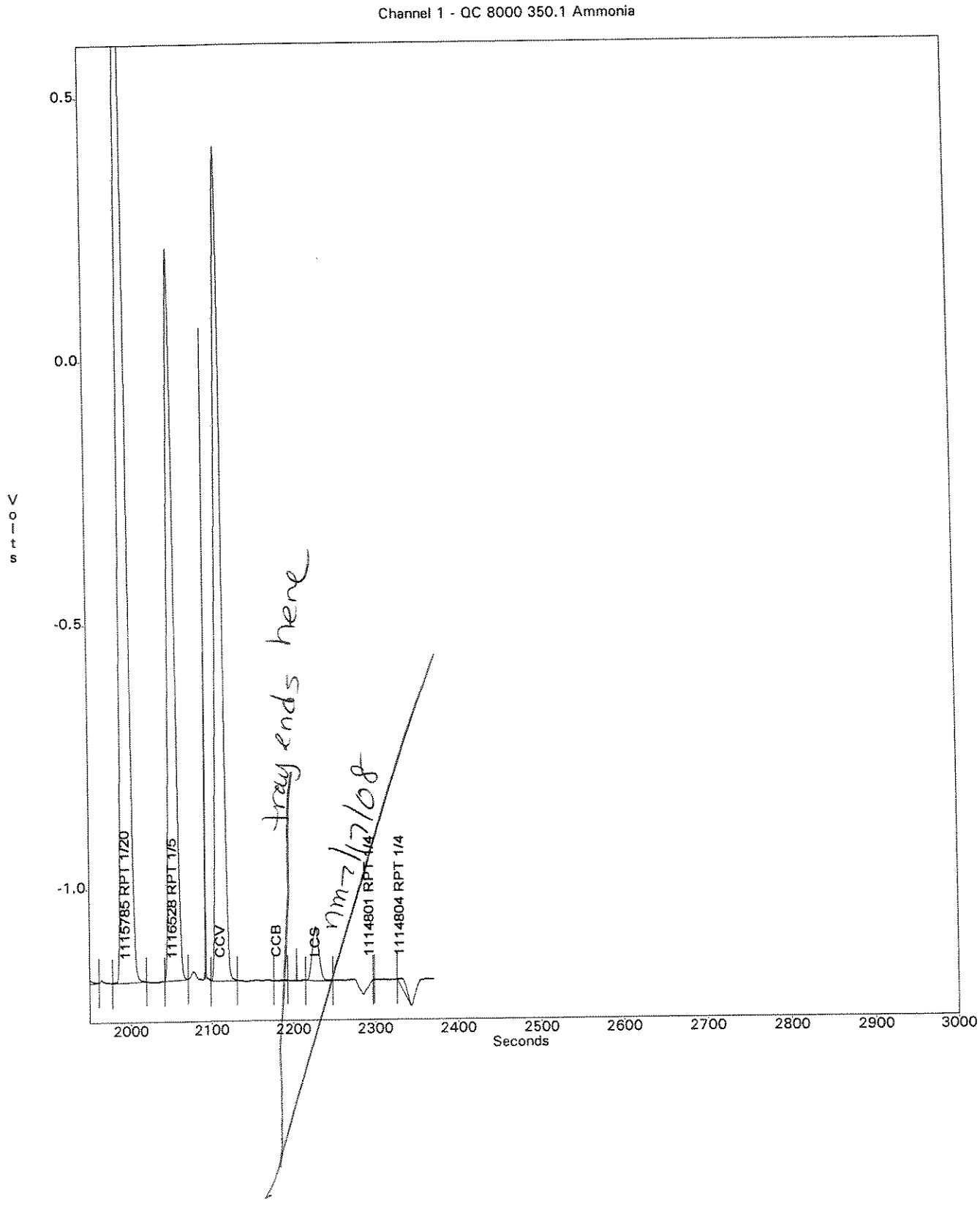
OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:17:22
DATA FILENAME: C:\OMNION\DATA\080717A4.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A4.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:17:22
DATA FILENAME: C:\OMNION\DATA\080717A4.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A4.TRA

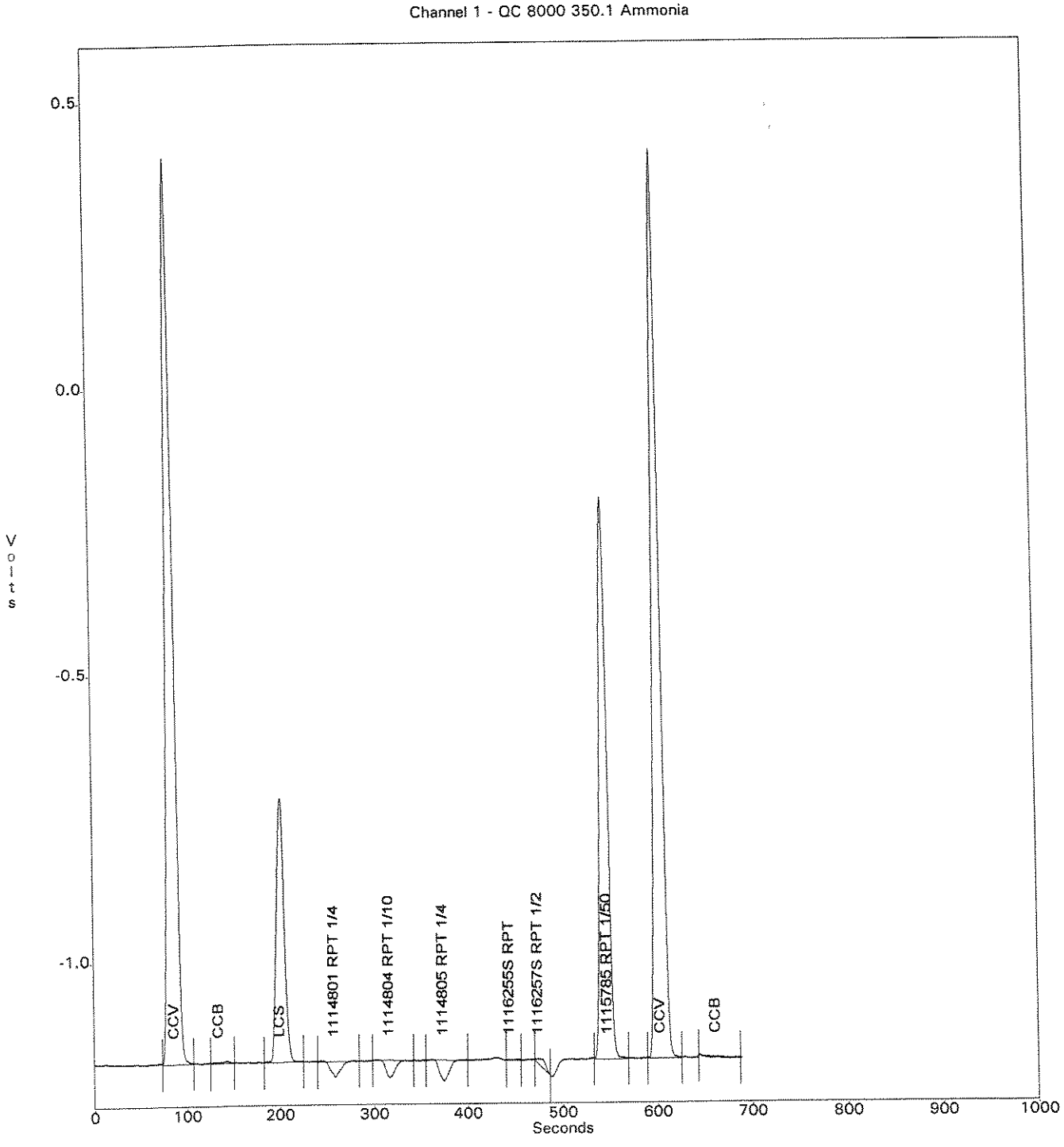


OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:17:22
DATA FILENAME: C:\OMNION\DATA\080717A4.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A4.TRA



60T92

OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 13:58:23
DATA FILENAME: C:\OMNION\DATA\080717A5.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080717A5.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 17, 2008 9:16:19
DATA FILENAME: C:\OMNION\DATA\0807170A.FDT
METHOD FILENAME:
TRAY FILENAME: C:\OMNION\TRAYS\0807170A.TRA

TRAY DESCRIPTION:
Created: Jul 16, 2008 15:40:40
Modified: Jul 16, 2008 15:40:40
QC 8000 350.1 Ammonia - RUN LOG - 0807170A
DATA DESCRIPTION:
Created: Jul 17, 2008 9:16:19
Modified: Jul 17, 2008 9:16:19

Method - Ch. 1 (QC 8000 350.1 Ammonia)

METHOD DESCRIPTION:
Created: Jun 8, 2007 13:44:01
Modified: Jul 3, 2008 13:41:36
Ammonia

ANALYTE DATA:
Analyte Name: QC 8000 350.1 Ammonia
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 28.5
Peak Base Width (s): 22.000
% Width Tolerance: 50.000
Threshold: 2877.000
Autodilution Trigger: Off
QuikChem Method:

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.000 3 : 0.500 4 : 0.200
5 : 0.100 6 : 0.050 7 : 0.020 8 : 0.010
9 : 0.000
Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: 1/X
Concentration Scaling: None

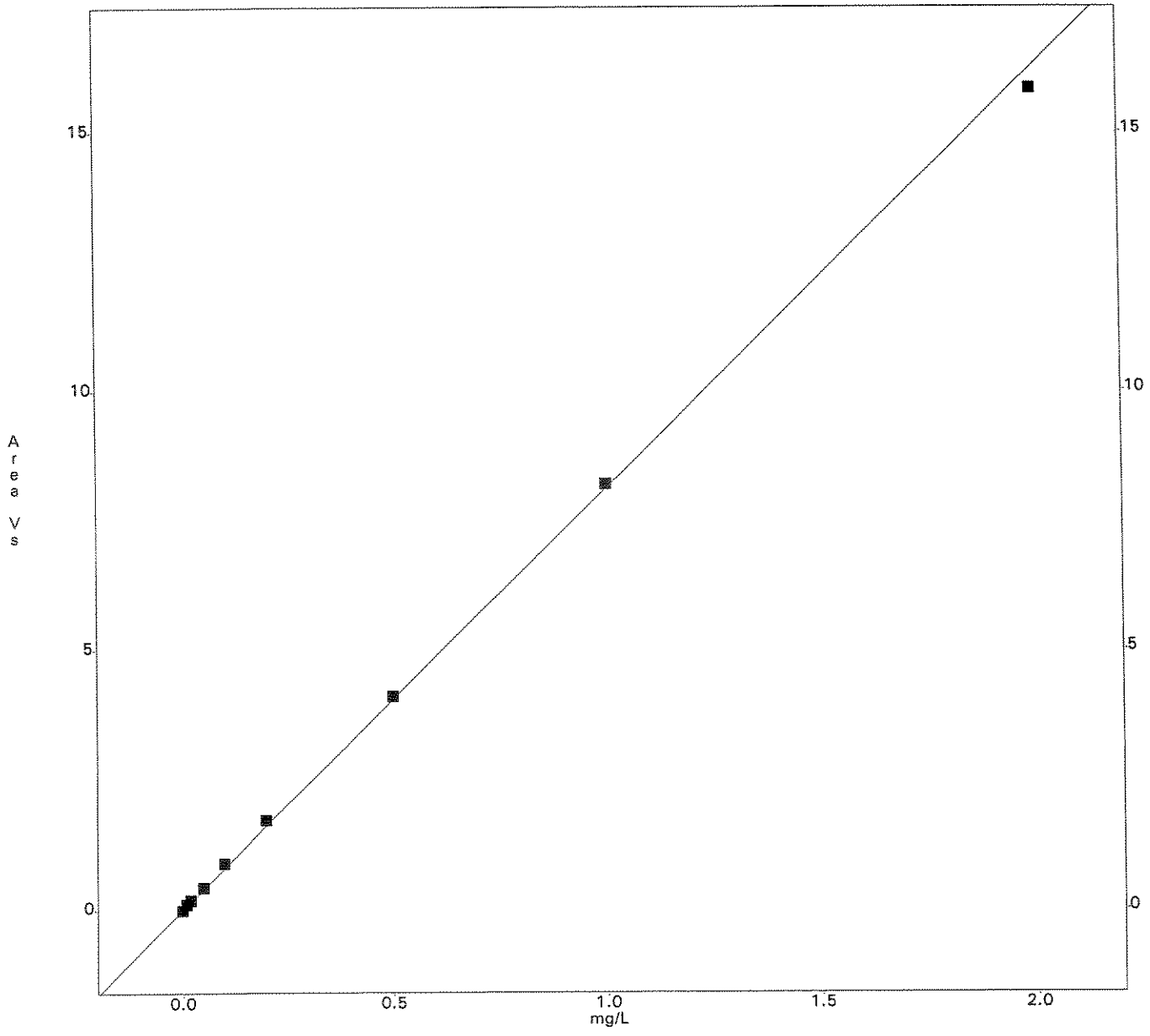
QC 8000 350.1 Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	15829328	2.00	15829328					0.0	0.0	2.5
2	8200903	1.00	8200903					0.0	0.0	-1.0
3	4108579	0.50	4108579					0.0	0.0	-1.2
4	1728323	0.20	1728323					0.0	0.0	-6.4
5	898186	0.10	898186					0.0	0.0	-10.6
6	433648	0.05	433648					0.0	0.0	-6.8
7	189260	0.02	194013	184506				6722.5	3.6	-16.6
8	111282	0.01	113174	109390				2675.7	2.4	-37.1
9	0	0.00	0	0				0.0	0.0	

pipette ID's: E-1
AL-I

1st Order Poly
Conc = 1.232e-007 Area - 7.754e-008
r = 0.9996

Scaling: None - Weighting: 1/X



Printed: Thursday, July 17, 2008 - 09:30 AM

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead Date: 7/17/08

Analysis: Ammonia Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC65166A, 4/7/03	WC85101A, 1/23/08				
b) ICV Preparation:	WC65166B, 4/7/03	WC85101B, 1/23/08	1	18	10	1.80
c) LCS Preparation:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50
d) Matrix Spike Prep.:	WC65166D, 4/7/03	WC85101A, 1/23/08	0.05	100	10	0.50

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): _____
Repeats due to Sample: _____
Repeats due to Error: _____

p:\greg\forms\cover.no2

4/7/03
DMG

Ammonia (NH_3) [Lachat: PQL = 0.050 - Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 10ppm (WC65166C)	mls Carrier-Diluent (WC
A	2.000	2.00	8.00
B	1.000	1.00	9.00
C	0.500	0.50	9.50
D	0.200	0.20	9.80
E	0.100	1/10 Dil'N of STD B.) 1.000	
F	0.050	1/10 Dil'N of STD C.) 0.500	
G	0.020	1/10 Dil'N of STD D.) 0.200	
H	0.010	1/10 Dil'N of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) ICV/CCV: (TV = 1.80 mg/L)

Do two (2) 1/10 serial dilutions of the 180 ppm Reference Stock (WC65156B). Prepare using Carrier-Diluent (WC65165F)

(C) 10.0 ppm Working Stock

Do two (2) 1/10 serial dilutions of the 1000 ppm Standard Stock (WC65156A). Prepare using Carrier-Diluent (WC65165F)

(D) LCS/Matrix Spike: (TV = 0.500 mg/L)

Add 0.050 mls 100 ppm working Stock (WC65166C, 1st 1/10 serial dilution) to 10 mls Carrier-Diluent (WC65165F) or sample.

1/23/08 Nm

(A) **NH_3/TKN 1000 ppm Standard Stock**

3.819 granular NH_4Cl (WC85085F), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume w/ DI. Store @ 4°C. in amber glass. Expires 1/23/09.

(B) **NH_3 180 ppm Reference Stock**

0.687g granular NH_4Cl (WC85085G), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C in amber glass. Expires 1/23/09.

(C) **TKN 400 ppm Reference Stock**

1.5276g granular NH_4Cl (WC85085G), previously dried for 2hrs. @ 104°C: dissolve in ~ 800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C. in amber glass. Expires 1/23/09.

Limits for DI Water if pH = 5.6 to 7.4 - Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm) **Date:** 7/21/08 ✓

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY 120.1 raw data	units	mhos/cr	TEMP °C	Analyst	Time	HT** (y / n)	Meter* J/VWR
DI H2O	MB	5.927						KM	830		J
44771	1114435	7.822								y	
↓	↓ 34	6.488									
44770	1114342	8.087		0.418	MS	418					
	43	8.069		0.344	MS	344					
	44	8.165		0.659	MS	659					
	45	7.996		0.456 / 0.453	MS / MS	456 / 453					
	46	8.210		0.327	MS	327					
	47	7.464		113.4	US	113.4					
	48	7.545		199.6	US	199.6					
	49	7.840		197.7	US	197.7					
44803	1114419	7.110									
	420	7.137									
	421	7.011									
	↓ 421	7.022									
CCV	7.0	7.039									
44797	1114376		9.994								
	79		9.437								
	80		8.862								
	80		8.871								
	82		9.092								
CCV	4.0	4.047									
CCB				0.223	US	0.223					

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.955 TEMP. 19°C

LOT #: BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N **KCL:** 1412 **Calibrated (Yes / NO)** **LOT #:** BDB2684F

Cell Constant: 1.128

N **KCL:** 2767 **LOT #:** BDB2684D **Reading** 2600

10% Limits: 2490.3 to 3043.7

N **KCL:** 146.9 **LOT #:** BDB2684E **Reading** 146.6

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: KM DATE: 7/21/08 TIME: 1315

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm)

Date: 7/2/08 pg 2

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY 120.1 raw data	units	mhos/cm	TEMP °C	Analyst	Time	HT** (y / n)	Meter* J/VWR
CCV	146.9			144.1	uS	144.1		MMC	1330		J
CCV	7.0/2767	6.988		2.100	mS	2100			1600		
44537	1109703	6.351		0.404	uS	0.404				Y	
	03	6.311		0.427	uS	0.427					
	04	5.713		0.338	uS	0.338					
	05	5.614		0.377	uS	0.377					
	06	6.011		0.413	uS	0.413					
44756	1114628	6.53	8.597								
	28		8.622								
	30		7.515								
CCV	40/146.9	4.083		147.2	uS	147.2			1700		
44797	1114366		9.900								
	66		9.958								
CCV	7.0	7.010									

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

* High Range Cal

STANDARDS 7.0 ~~4.00~~ ✓ 12.45 ~~10.00~~ ✓ 10.0 ICV check ~~7.00~~ 10.048 TEMP. 21°C

LOT # : BDB26805E BDB2683F BDB2680F

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT # : _____

Cell Constant: _____

N KCL: 2767 LOT # : _____ Reading _____

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT # : _____ Reading _____

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: MMC DATE: TIME: 7/2/08

84

Limits for DI Water if pH < 5.5. or > 7.5 Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm)

Date: 7/31/08 ✓

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

	Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY 120.1 raw data	units	mhos/cr	TEMP °C	Analyst	Time	HT** (y / n)	Meter* J/VWR
IR	DI H2O	MBICCB	6.829		.447	uS	.447	15.0	HP	1050		J
DC	R2844803	1114758	6.094								Y	
SB	↓	1114756	7.178									
21	44822	1114728	6.890									
SP	↓	↓ 28	6.874									
100 37	R2844770	1114696	7.581		.263	mS & uS	.2630					
QC		1114696(DX)	7.576		.271	mS & uS	x2710					
CCV		1114693	7.951		.578	mS & uS	x5780					
12105		1114694	7.562		.503	ms	503.0					
9101		1114692	7.729		.598	ms	598.0					
FB		1114698	5.431		2.26	uS	2.26					
1013		1114697	7.690		.258	ms	258.0					
5301		1114691	7.444		.362	ms	362.0					
	CCV	10.0	10.046									
	CCB	146.9			143.6	uS	143.6		↓	↓	↓	↓
	CCV	4.0	4.002					21.7	HP	1400		J
	R2844797	1114714	9.431									
		1114714	9.478									
		1114715	9.554									
		1114716	8.444									
		1114717	8.731									
	↓	1114718	8.513						↓	↓		↓

HP 7/31/08

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 7.00 6.999 ✓ TEMP. 20.3

LOT # : BDB2674H BDB2680F BDB2680E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT # : BDB2684F

Cell Constant: 1.000

N KCL: 2767 LOT # : BDB2684D Reading 2520

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT # : BDB2684F Reading 142.6

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: DATE: TIME:

PAGE 2

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm)

Date: 7/3/08

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY 120.1 raw data	units	mhos/cr	TEMP °C	Analyst	Time.	HT** (y / n)	Meter* J/VWR
P 228442206	11105457	9.061					21.2	IP	1400	Y	J
↓	11105456	8.199					↓	↓	↓	↓	↓
CCV	7.0	7.036					↓	↓	↓	↓	↓

IP 7/3/08

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 _____ 10.00 _____ ICV check 7.00 _____ TEMP. _____

LOT # : _____

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

SEE CALIBRATION ON PREVIOUS PAGE

N KCL: 1412 Calibrated (Yes / NO) LOT # : _____

Cell Constant: _____

N KCL: 2767 LOT # : _____ Reading _____

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT # : _____ Reading _____

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: _____ DATE: _____ TIME: _____

86

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm)

Date: 7/24/08 ✓

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY 120 raw data	units	mhos/cr	TEMP °C	Analyst	Time	HT** (y/n	Meter J/VWR
CCB		6.912		0.415	uS	0.415		KMC	1420		J
44650	1113426			8.14	mS	8140				W	
	26			8.21	mS	8210					
	27			9.65	mS	9650					
	28			7.58	mS	7580					
	29			4.13	mS	4130					
	30			6.51	mS	6510					
44768	1113695			1.415	uS	1.415					
	96			16.45	mS	16450					
	97			1.743	mS	1743					
	98			3.98	mS	3980					
	99			3.92	mS	3920					
44803	1114419			10.74	mS	10740					
	420			10.34	mS	10340					
	421			11.34	mS	11340					
	421			11.46	mS	11460					
	756			15.82	mS	15820					
	758			3.20	uS	320					
CCV 2767				2.74	mS	2740				↓	
44771	1120412	7.399								↓	
↓	↓	7.422									
↓	1120411	7.440									
CCV	4.0	4.048									

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 ✓ 10.00 ✓ ICV check 6.984 7.00 TEMP. 18°C

LOT #: BDB26774H BDB26805F BDB26805E

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N KCL: 1412 Calibrated (Yes / NO) LOT #: BDB26854F

Cell Constant: 1.103

N KCL: 2767 LOT #: BDB26856A Reading 2630

10% Limits: 2490.3 to 3043.7

N KCL: 146.9 LOT #: BDB26854E Reading 143.3

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: KMC DATE: 7/24/08 TIME: 1415

06

Limits for DI Water if pH < 5.5, or > 7.5 Notify QA!

Limits for Spec. Cond. >= 1 - Notify QA! (Limit is 2 umohs/cm)

Date: 7/24/08 Pg 2

Conductivity holding time is 48 hrs from sample date

pH holding time is 15 minutes from collection

Sub. #	Order #	pH 150.1/4500H+B 9040B	Corrsivity 9045C	CONDUCTVITY raw data	units	120 mhos/cr	TEMP °C	Analyst	Time	HT** (y / n	Meter J/VWR
44866	1115782			8.19	ms	8190		MC	1420	N	J
	83			0.968	ms	968					
	84			5.73	ms	5730					
	85			6.13	ms	6130					
	1116367			7.19	ms	7190					
	67			7.23	ms	7230					
	70			3.87	ms	3870					
	73			1.440	ms	1440					
	921			16.79	ms	16790					
	922			7.81	ms	7810					
	1117196			3.14	ms	3140					
	97			16.91	ms	16910					
CCV	146.9us			146.6	us	146.6					
CCV	7.0	6.998						MC	1600		
45088	1120582	~~6.998~~								Y	Y
		7.846								Y	Y
CCV		4.048									

*Meters used will be designated by "J" for Jenway or "VWR" for the VWR meter, **HT = holding time

pH Meter Calibration

STANDARDS 4.00 _____ 10.00 _____ ICV check 7.00 _____ TEMP. _____

LOT # : _____

Conductivity Meter Calibration (calibrate to 1412 and test 2767 & 146.9 standard)

N **KCL:** 1412 **Calibrated (Yes / NO)** **LOT # :** _____

Cell Constant: _____

N **KCL:** 2767 **LOT # :** _____ **Reading** _____

10% Limits: 2490.3 to 3043.7

N **KCL:** 146.9 **LOT # :** _____ **Reading** _____

10% Limits: 132.2 TO 161.6

uS = 1 umhos/cm mS = 1,000 umhos/cm S = 1,000,000 umhos/cm

Analyst: DATE: TIME:

07

Run #: 164109
Analyte: CR+6 218.6 CR+6 HEX-CHROM BY IC
Printed: 08/08/08 09:29

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1118366	WATER	0.503		1.0	0.0100	100.5		07/16/08		
BLK1		1118367	WATER	0.0100	U	1.0	0.0100			07/16/08		
SPKB		1118368	WATER	0.198		1.0	0.0100	99.2		07/16/08		
SPKB		1118369	WATER	0.203		1.0	0.0100	101.6		07/16/08		
ESMP	R2844650	1112065	WATER	0.809		20.0	0.0100			07/16/08	RUN	ASPB
LDUP		1118370	WATER	0.802		20.0	0.0100		0.84	07/16/08		
SPK1		1118371	WATER	4.91		20.0	0.0100	102.6		07/16/08		
ESMP	R2844650	1112066	WATER	0.100	U	10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112067	WATER	0.100	U	10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112486	WATER	0.100	U	10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112487	WATER	0.100	U	10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112488	WATER	0.713		10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112489	WATER	0.100	U	10.0	0.0100			07/16/08	RUN	ASPB
ESMP	R2844650	1112809	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1112810	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1112811	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
LDUP		1118372	WATER	0.100	U	10.0	0.0100			07/16/08		
SPK1		1118373	WATER	1.88		10.0	0.0100	93.8		07/16/08		
ESMP	R2844650	1112812	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1112871	WATER	1.31		10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1112872	WATER	0.882		10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1112874	WATER	0.100	U	10.0	0.0100			07/16/08	QC	ASPB
LDUP		1118374	WATER	0.100	U	10.0	0.0100			07/16/08		
SPK1		1118375	WATER	1.98		10.0	0.0100	99.0		07/16/08		
ESMP	R2844650	1113426	WATER	6.34		10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1113427	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1113428	WATER	1.23		10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1113429	WATER	0.0655		10.0	0.0100			07/16/08		ASPB
ESMP	R2844650	1113430	WATER	0.898		10.0	0.0100			07/16/08		ASPB
ESMP	R2844768	1113695	WATER	0.0680		10.0	0.0100			07/16/08		ASPB
ESMP	R2844768	1113696	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844768	1113697	WATER	0.0793		10.0	0.0100			07/16/08		ASPB
ESMP	R2844768	1113698	WATER	0.0361		10.0	0.0100			07/16/08		ASPB
ESMP	R2844768	1113699	WATER	0.0401		10.0	0.0100			07/16/08		ASPB
ESMP	R2844803	1114758	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1115782	WATER	4.98		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1115783	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1115784	WATER	0.0907		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1115785	WATER	0.324		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1116367	WATER	1.12		10.0	0.0100			07/16/08	QC	ASPB
LDUP		1118376	WATER	1.12		10.0	0.0100		0.44	07/16/08		
SPK1		1118377	WATER	3.00		10.0	0.0100	93.8		07/16/08		
ESMP	R2844866	1116370	WATER	1.48		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1116373	WATER	0.0144		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1116921	WATER	0.333		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1116922	WATER	0.510		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1117196	WATER	0.0589		10.0	0.0100			07/16/08		ASPB
ESMP	R2844866	1117197	WATER	0.100	U	10.0	0.0100			07/16/08		ASPB

Records printed: 48

ANALYTE:G:\STARLIMS\ASBAR.RP1

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-716.sch 07-16-08 Data Manually Entered

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	STANDARD 1	Calibration St	1	cr6-716.met	716_001.dxd	1	
2	STANDARD 2	Calibration St	2	cr6-716.met	716_002.dxd	1	
3	STANDARD 3	Calibration St	3	cr6-716.met	716_003.dxd	1	
4	STANDARD 4	Calibration St	4	cr6-716.met	716_004.dxd	1	
5	STANDARD 5	Calibration St	5	cr6-716.met	716_005.dxd	1	
6	STANDARD 6	Calibration St	6	cr6-716.met	716_006.dxd	1	
7	ICV	Sample		cr6-716.met	716_007.dxd	1	
8	ICB	Sample		cr6-716.met	716_008.dxd	1	
9	LCS	Sample		cr6-716.met	716_009.dxd	1	
10	1112065	Sample		cr6-716.met	716_010.dxd	10	
11	1112066	Sample		cr6-716.met	716_011.dxd	10	
12	1112067	Sample		cr6-716.met	716_012.dxd	10	
13	1112486	Sample		cr6-716.met	716_013.dxd	10	
14	1112487	Sample		cr6-716.met	716_014.dxd	10	
15	1112488	Sample		cr6-716.met	716_015.dxd	10	
16	1112489	Sample		cr6-716.met	716_016.dxd	10	
17	1112809	Sample		cr6-716.met	716_017.dxd	10	
18	1112810	Sample		cr6-716.met	716_018.dxd	10	
19	1112811	Sample		cr6-716.met	716_019.dxd	10	
20	1112811 DUP	Sample		cr6-716.met	716_020.dxd	10	
21	1112811 SPK	Sample		cr6-716.met	716_021.dxd	10	
22	CCV	Sample		cr6-716.met	716_022.dxd	1	
23	CCB	Sample		cr6-716.met	716_023.dxd	1	
24	1112812	Sample		cr6-716.met	716_024.dxd	10	
25	1112871	Sample		cr6-716.met	716_025.dxd	10	
26	1112872	Sample		cr6-716.met	716_026.dxd	10	
27	1112874	Sample		cr6-716.met	716_027.dxd	10	
28	1112874 DUP	Sample		cr6-716.met	716_028.dxd	10	
29	1112874 SPK	Sample		cr6-716.met	716_029.dxd	10	
30	1113426	Sample		cr6-716.met	716_030.dxd	10	
31	1113427	Sample		cr6-716.met	716_031.dxd	10	
32	1113428	Sample		cr6-716.met	716_032.dxd	10	
33	1113429	Sample		cr6-716.met	716_033.dxd	10	
34	1113430	Sample		cr6-716.met	716_034.dxd	10	
35	1113695	Sample		cr6-716.met	716_035.dxd	10	
36	CCV	Sample		cr6-716.met	716_036.dxd	1	
37	CCB	Sample		cr6-716.met	716_037.dxd	1	
38	LCS	Sample		cr6-716.met	716_038.dxd	1	
39	1113696	Sample		cr6-716.met	716_039.dxd	10	
40	1113697	Sample		cr6-716.met	716_040.dxd	10	
41	1113698	Sample		cr6-716.met	716_041.dxd	10	
42	1113699	Sample		cr6-716.met	716_042.dxd	10	
43	1114419	Sample		cr6-716.met	716_043.dxd	10	
44	1114420	Sample		cr6-716.met	716_044.dxd	10	
45	1114421	Sample		cr6-716.met	716_045.dxd	10	

Analyst: CWOODS

Pipets: Mine
Lucy
Harry

4 copies 44650
44768
44803
44866

Reviewed & Approved
By: KBowe
Date: 7/23/08, 8/8/08

99895

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-716.sch

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	1114421 DUP	Sample		cr6-716.met	716_046.dxd	10	
47	1114421 SPK	Sample		cr6-716.met	716_047.dxd	10	
48	1114756	Sample		cr6-716.met	716_048.dxd	10	
49	1114758	Sample		cr6-716.met	716_049.dxd	10	
50	1115782	Sample		cr6-716.met	716_050.dxd	10	
51	CCV	Sample		cr6-716.met	716_051.dxd	1	
52	CCB	Sample		cr6-716.met	716_052.dxd	1	
53	1115783	Sample		cr6-716.met	716_053.dxd	10	
54	1115784	Sample		cr6-716.met	716_054.dxd	10	
55	1115785	Sample		cr6-716.met	716_055.dxd	10	
56	1116367	Sample		cr6-716.met	716_056.dxd	10	
57	1116367 DUP	Sample		cr6-716.met	716_057.dxd	10	
58	1116367 SPK	Sample		cr6-716.met	716_058.dxd	10	
59	1116370	Sample		cr6-716.met	716_059.dxd	10	
60	1116373	Sample		cr6-716.met	716_060.dxd	10	
61	1116921	Sample		cr6-716.met	716_061.dxd	10	
62	1116922	Sample		cr6-716.met	716_062.dxd	10	
63	1117196	Sample		cr6-716.met	716_063.dxd	10	
64	1117197	Sample		cr6-716.met	716_064.dxd	10	
65	CCV	Sample		cr6-716.met	716_065.dxd	1	
66	CCB	Sample		cr6-716.met	716_066.dxd	1	
67	1112065	Sample		cr6-716.met	716_067.dxd	20	
68	1112065 DUP	Sample		cr6-716.met	716_068.dxd	20	
69	1112065 SPK	Sample		cr6-716.met	716_069.dxd	20	
70	CCV	Sample		cr6-716.met	716_070.dxd	1	
71	CCB	Sample		cr6-716.met	716_071.dxd	1	

Default Method Path: J:\ACQUDATA\IC\METHOD.ACI\IC#1\CR6
Default Data Path: J:\ACQUDATA\IC\DATA\IC#1\CR6\071608
Comment:

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: C. Woods

Date: 7-16-08

Hexavalent Chromium: Method 7199 Method 218.6

Submission Number	Sample ID	Sample pH	Analysis Date
R-44650	1112065	9.41	7/16/08
	1112066	9.36	7/16/08
	1112067	9.38	7/16/08
	1112486	9.68	7/16/08
	1112487	9.62	7/16/08
	1112488	9.54	7/16/08
	1112489	9.50	7/16/08
	1112809	9.58	7/16/08
	1112810	9.32	7/16/08
	1112811	9.37	7/16/08
	1112812	9.54	7/16/08
	1112871	9.61	7/16/08
	1112872	9.69	7/16/08
	1112874	9.66	7/16/08
	1113426	9.31	7/16/08
	1113427	9.36	7/16/08
	1113428	9.42	7/16/08
	1113429	9.39	7/16/08
	1113430	9.34	7/16/08
R-44768	1113695	9.68	7/16/08

*Note: Sample pH must be between 9.3 and 9.7 for analysis. pH is taken just prior to analysis.

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: C. Woods

Date: 7-16-08

Hexavalent Chromium: Method 7199 Method 218.6

Submission Number	Sample ID	Sample pH	Analysis Date
R-44768	1113696	9.62	7/16/08
	1113697	9.55	7/16/08
	1113698	9.49	7/16/08
	1113699	9.53	7/16/08
R-44803	1114758	9.59	7/16/08
R-44866	1115782	9.68	7/16/08
	1115783	9.61	7/16/08
	1115784	9.42	7/16/08
	1115785	9.49	7/16/08
	1116367	9.32	7/16/08
	1116370	9.37	7/16/08
	1116373	9.46	7/16/08
	1116921	9.66	7/16/08
	1116922	9.61	7/16/08
	1117196	9.60	7/16/08
	1117197	9.50	7/16/08
		7/16/08	

*Note: Sample pH must be between 9.3 and 9.7 for analysis. pH is taken just prior to analysis.

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICV
Data File Name : ...\716_007.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 11:45:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

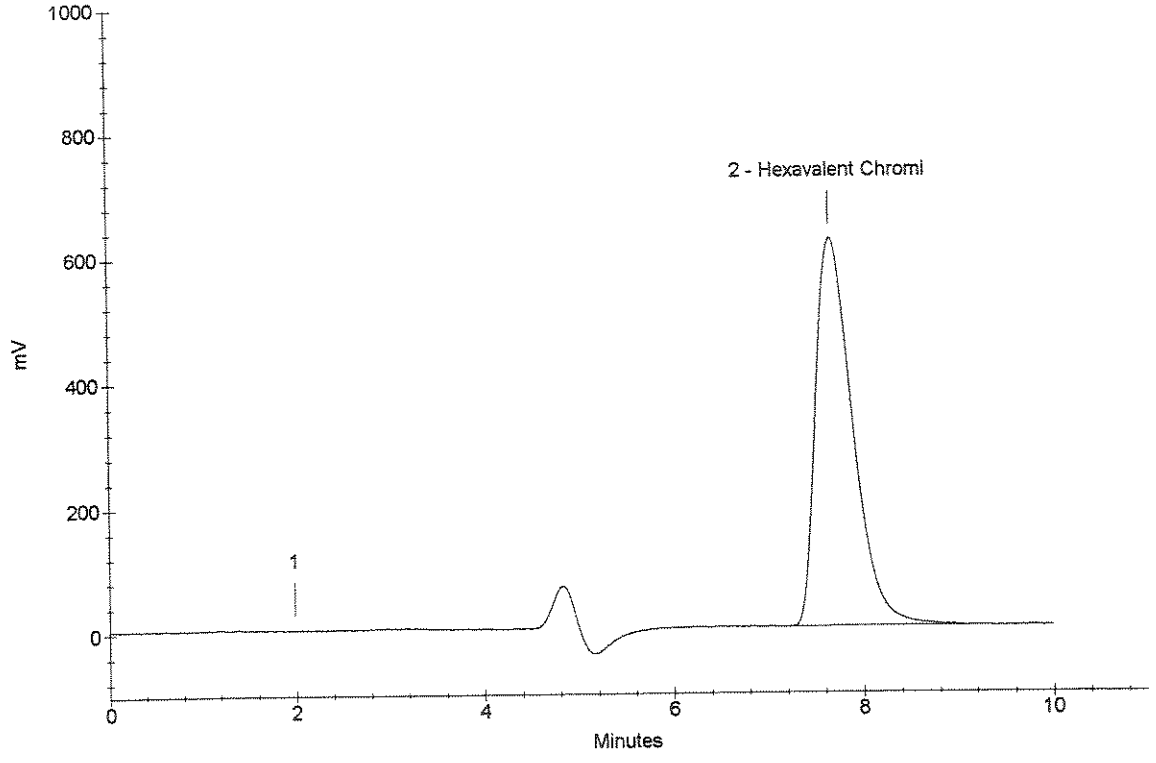
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.68	Hexavalent Chromi OK	0.5027	16708230

ICV 8/18/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...\716_008.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 11:56:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

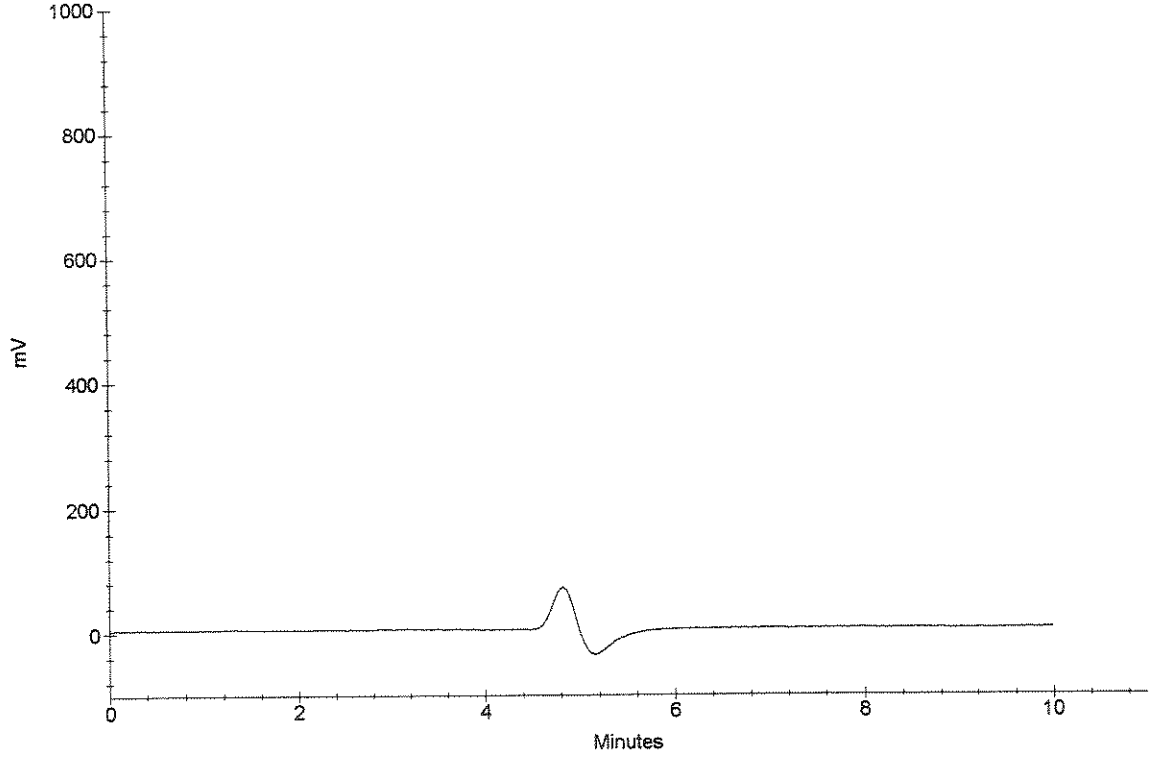
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
ICB 8/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\716_009.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:06:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

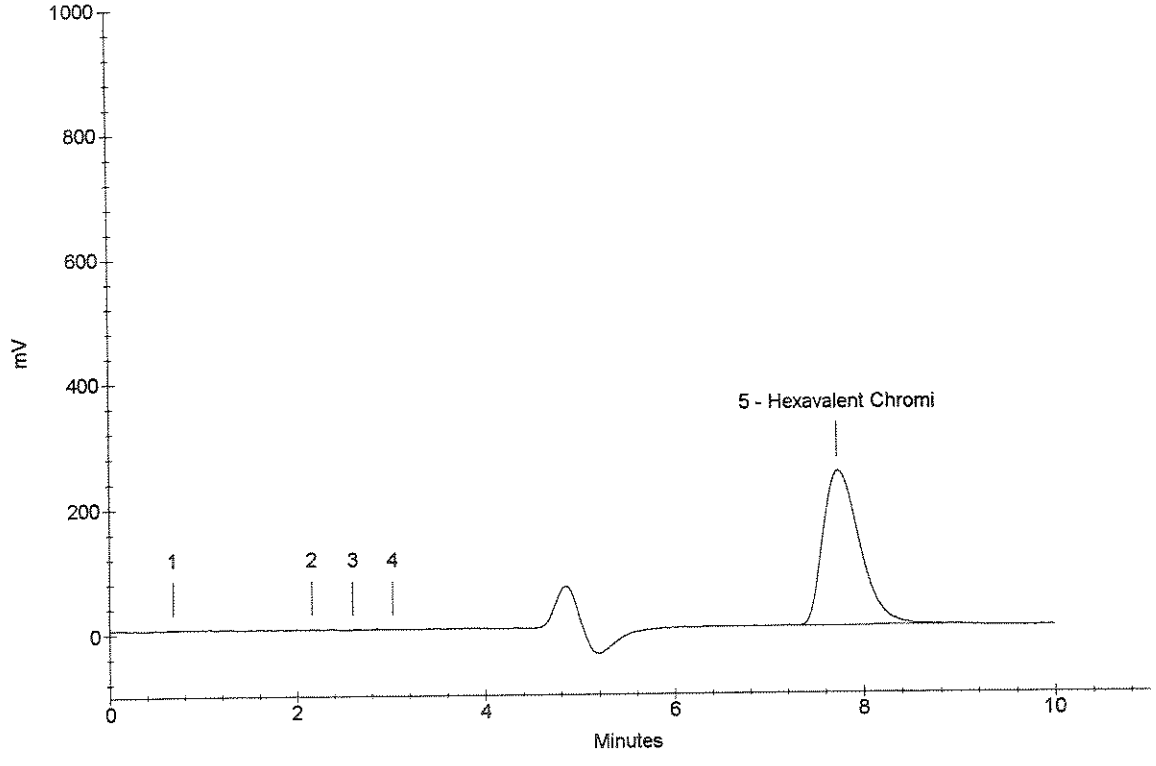
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
5	7.74	Hexavalent Chromi	0.1984	6599758

OK 8/14/08

LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065
Data File Name : ...\716_010.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:17:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

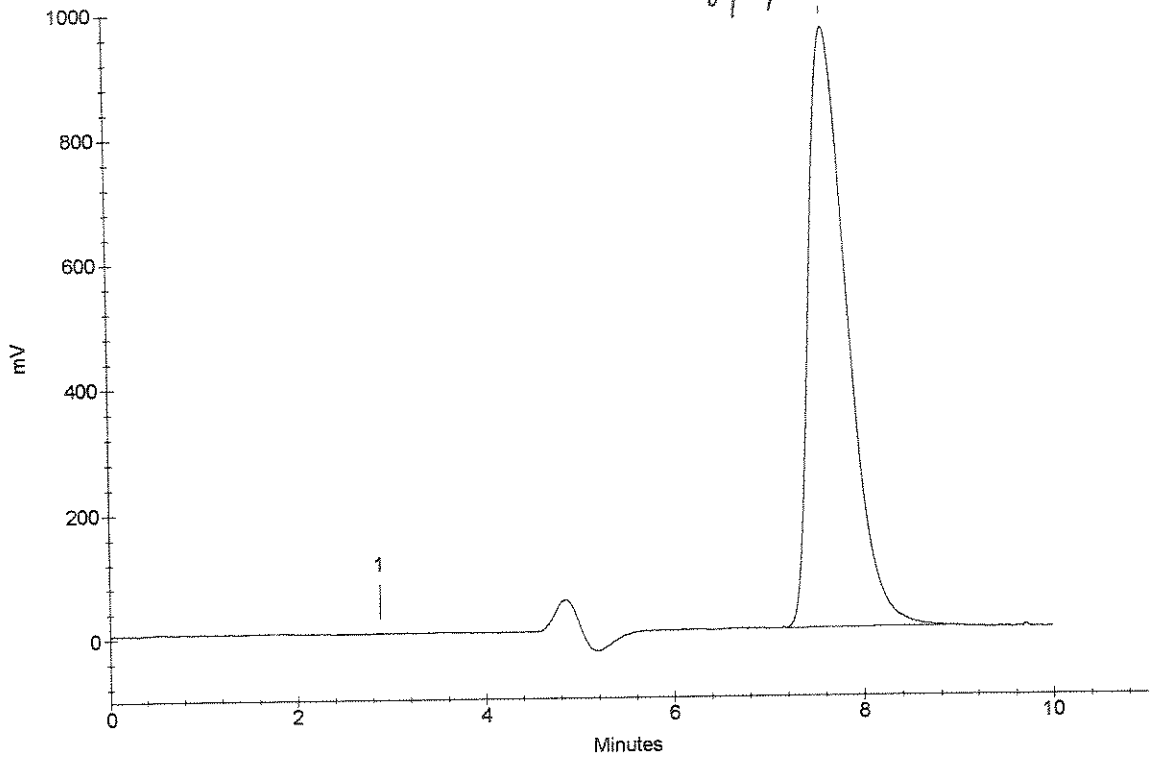
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi	8.0180	26645916

1112065



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112066
Data File Name : ...\716_011.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:27:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

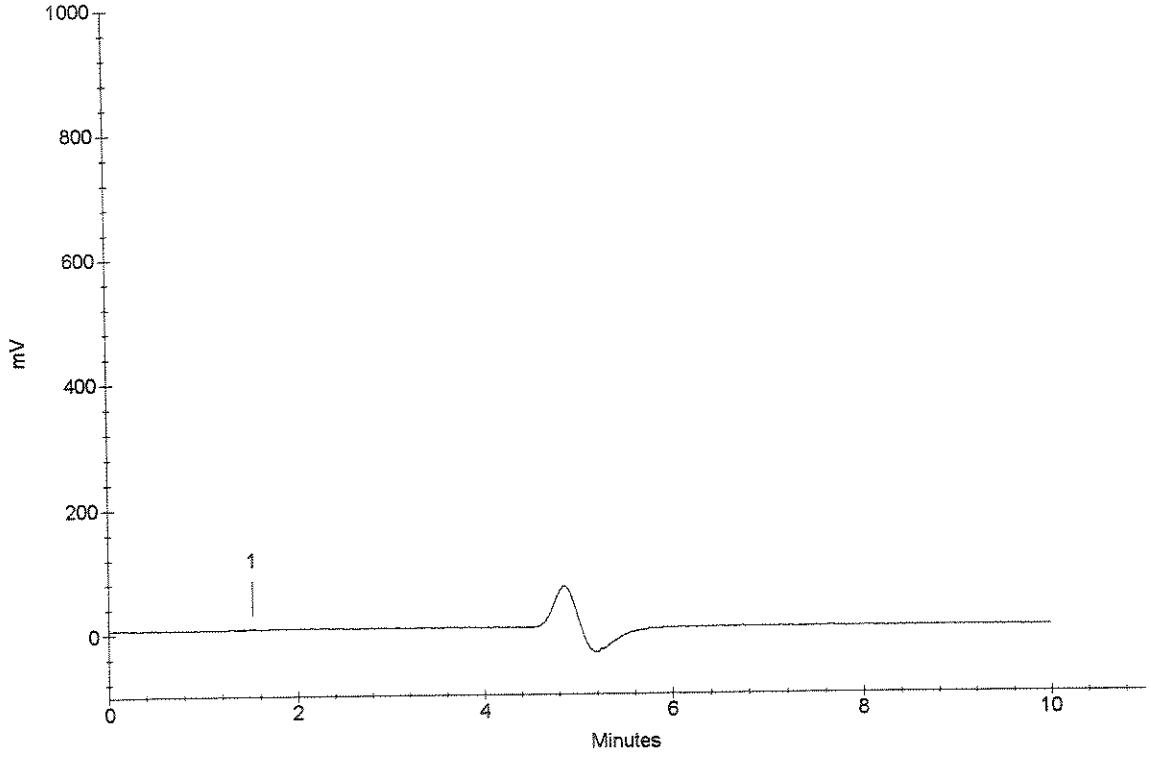
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/8/08
1112066



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112067
Data File Name : ...\716_012.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:37:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

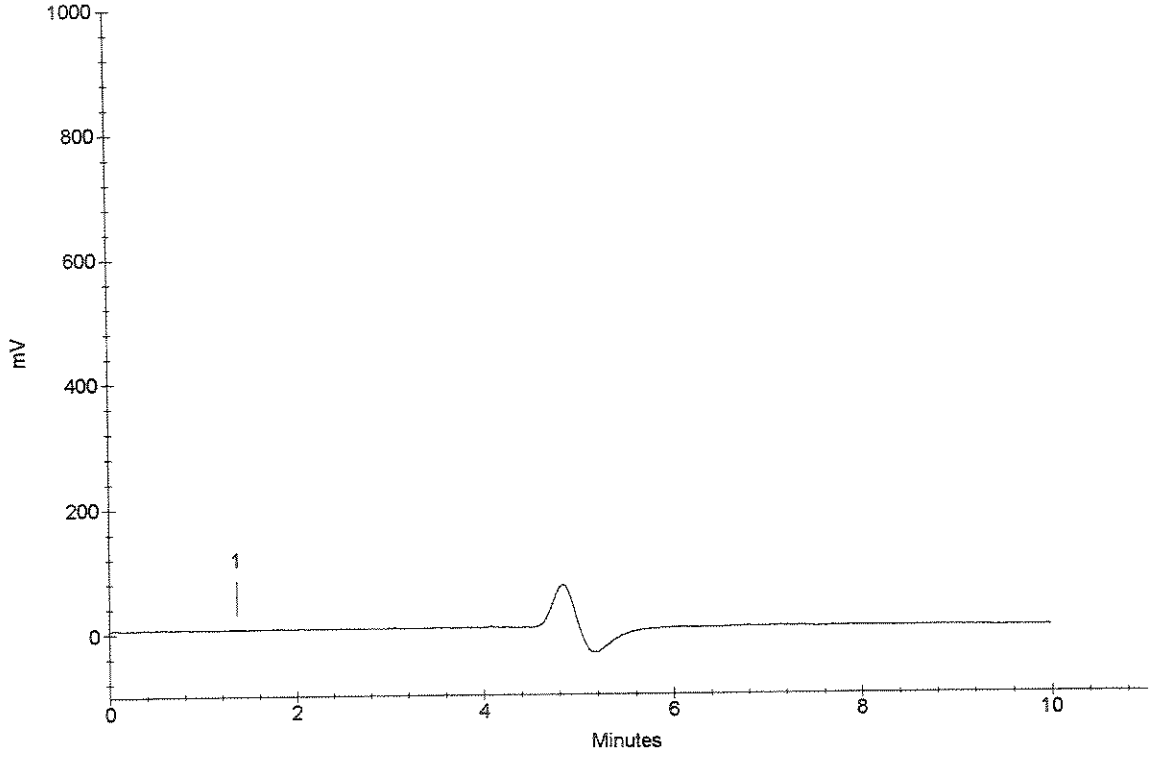
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
1112067 7/8/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112486
Data File Name : ...\716_013.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:48:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

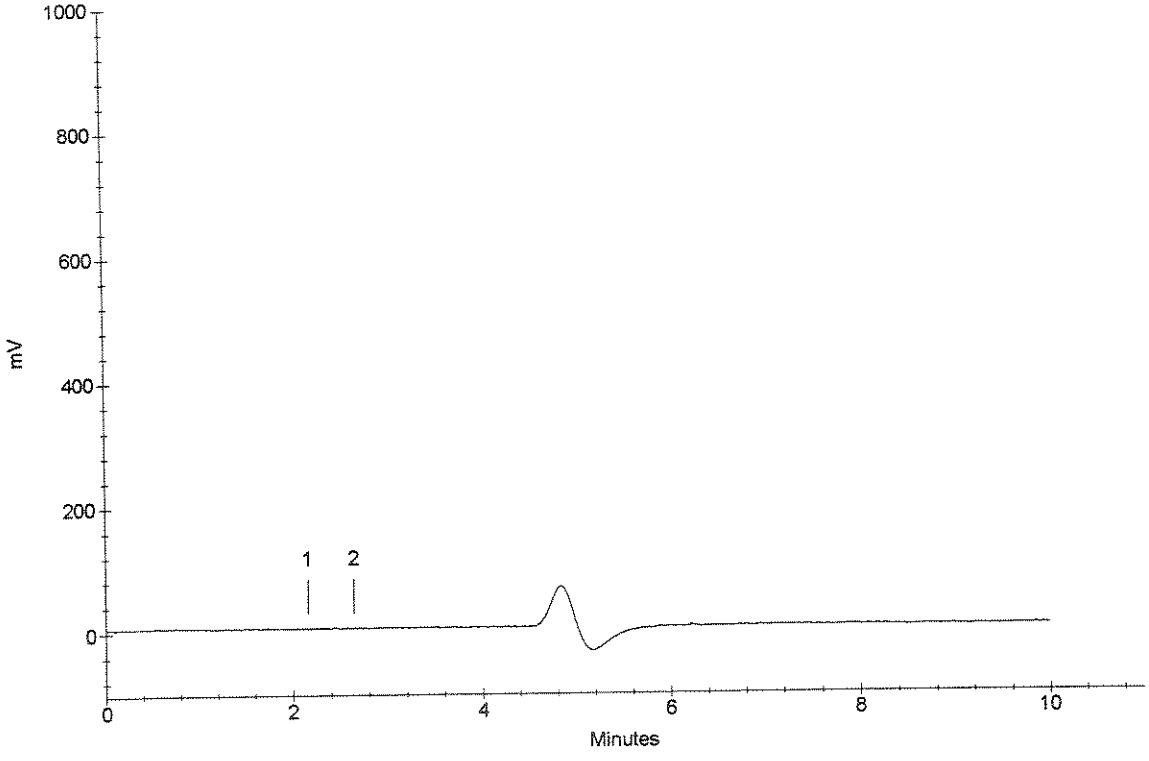
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/8/08

1112486



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112487
Data File Name : ...\716_014.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:58:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

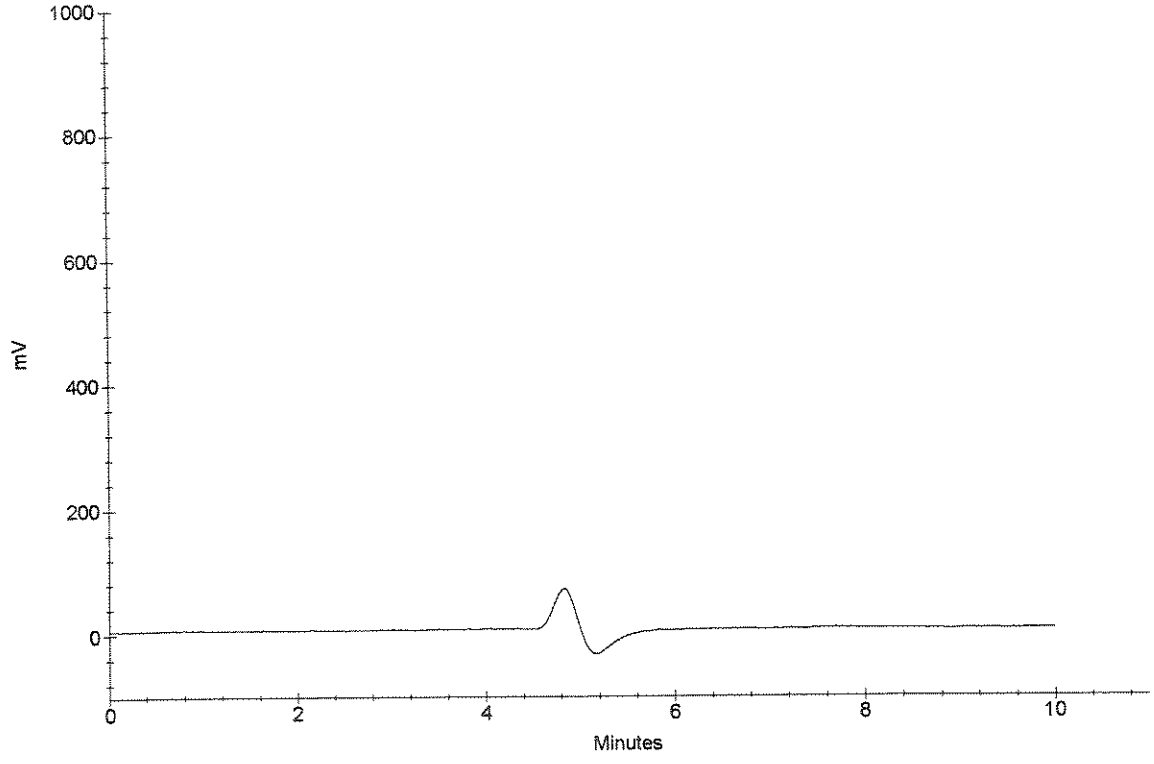
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

8/8/08

1112487



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112488
Data File Name : ...\716_015.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 13:09:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

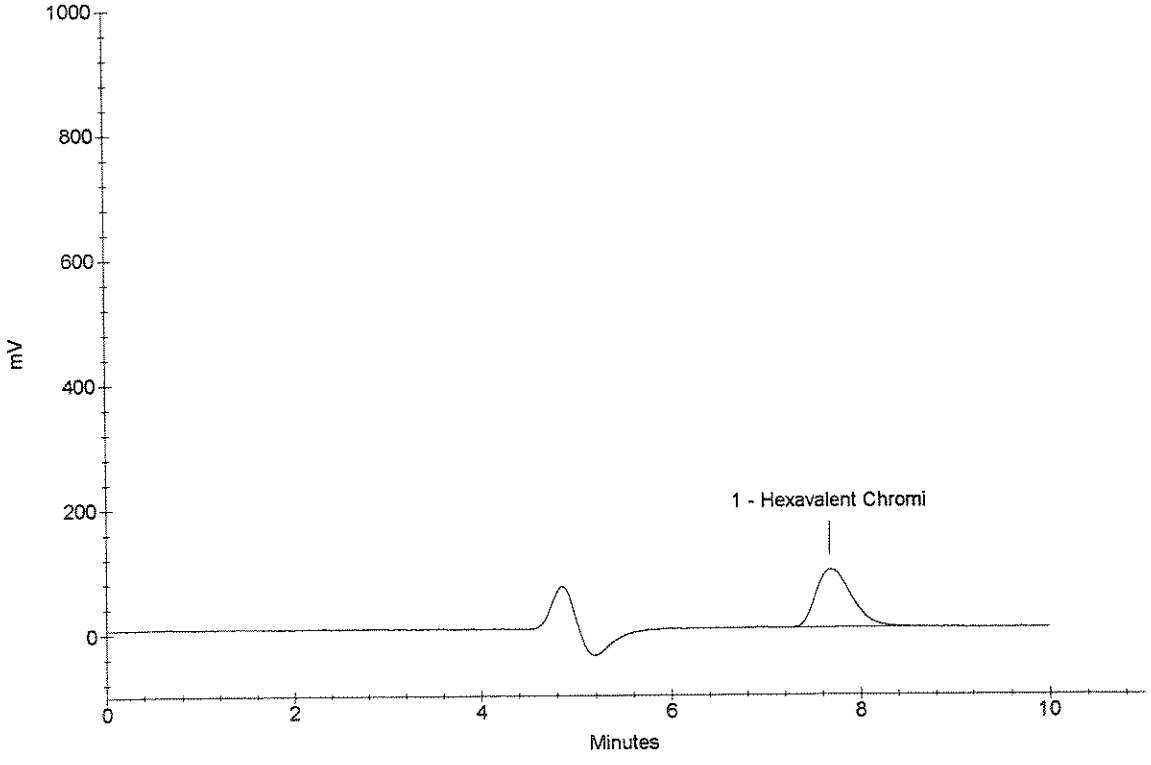
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.7127	2375457

OK
8/8/08
1112488



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112489
Data File Name : ...\716_016.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 13:19:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

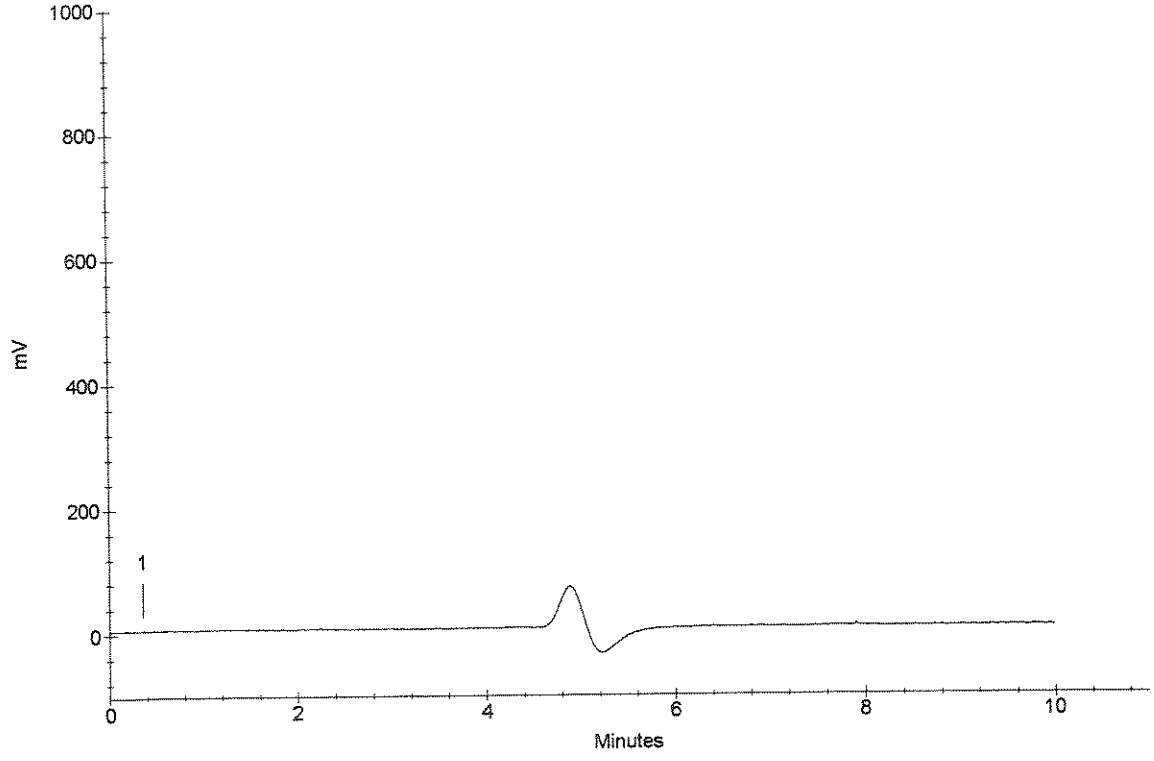
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK

1112489



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112809
Data File Name : ...\716_017.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 13:29:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

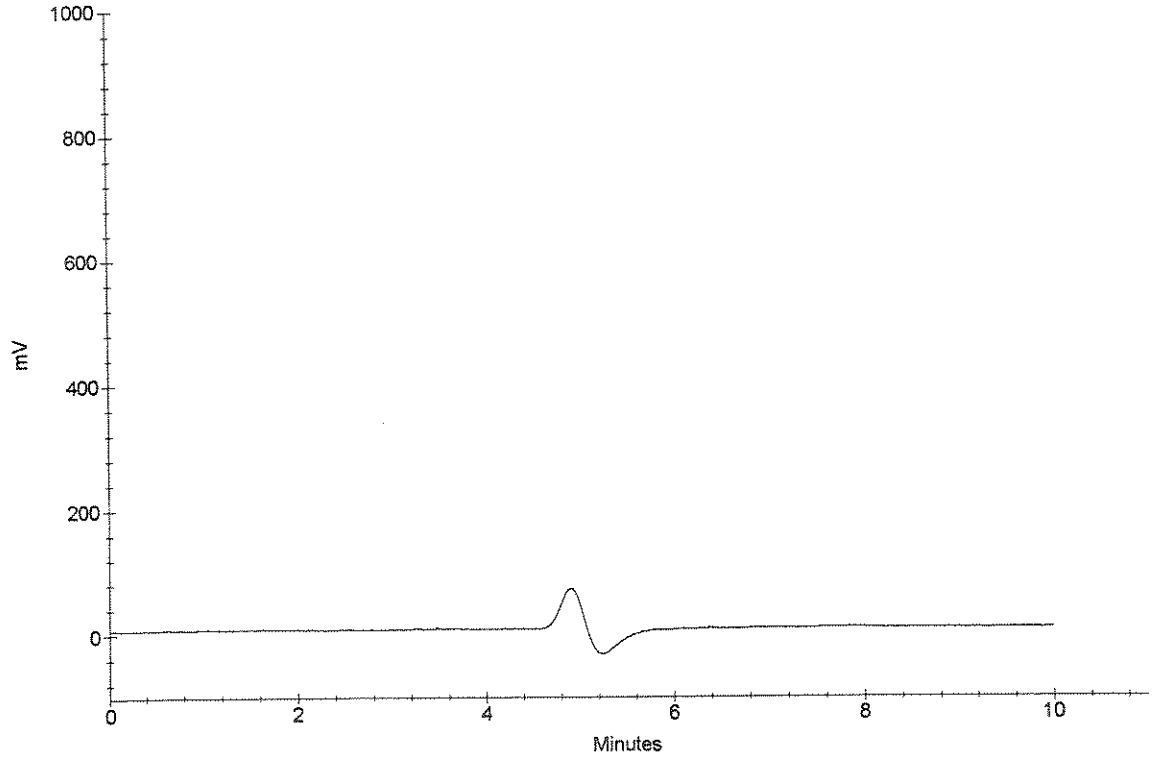
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CV 8/18/08

1112809



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112810
Data File Name : ...\716_018.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 13:40:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

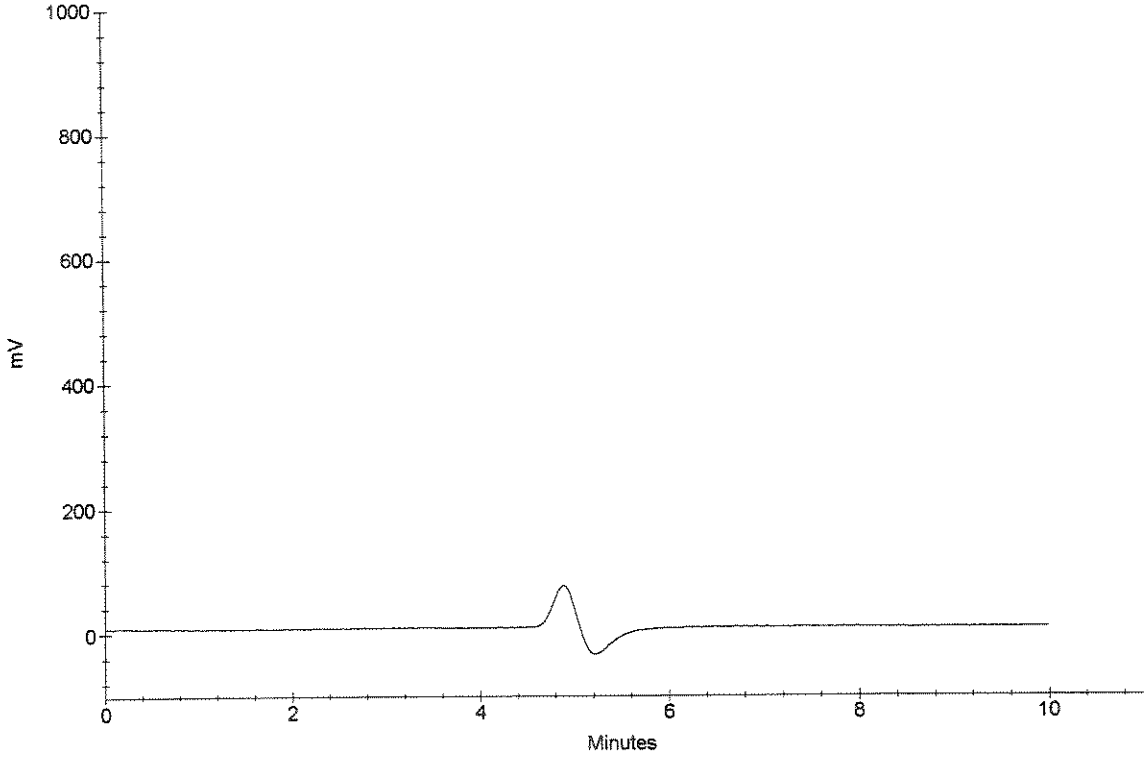
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/8/08

1112810



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811
Data File Name : ...\716_019.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 13:50:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

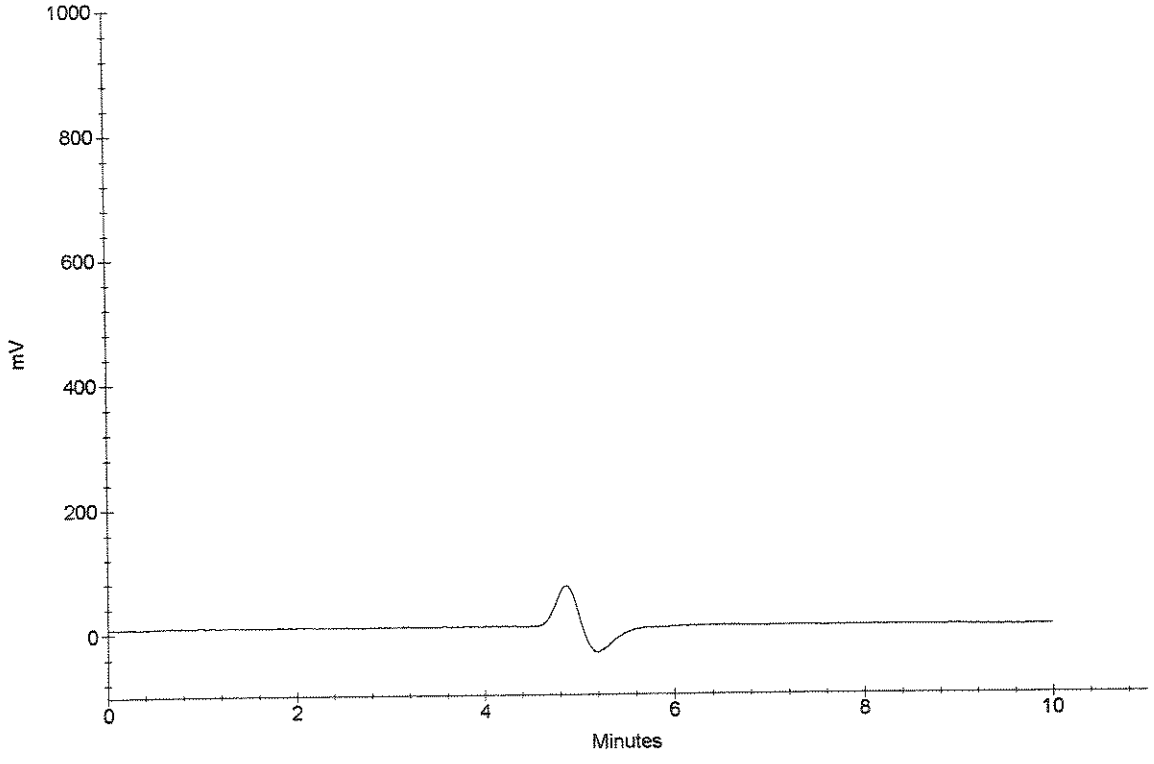
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK 7/18/08

1112811



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811 DUP
Data File Name : ...\716_020.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:01:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

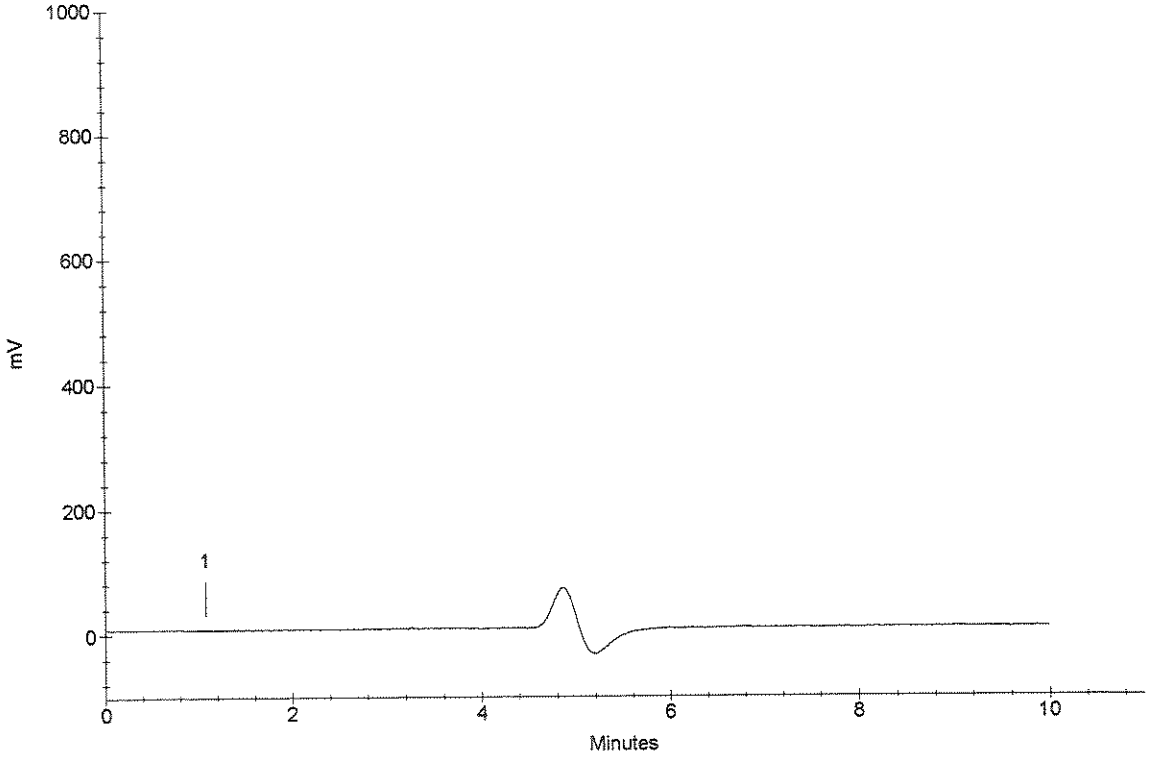
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/18/08

1112811 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112811 SPK
Data File Name : ...\716_021.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:11:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

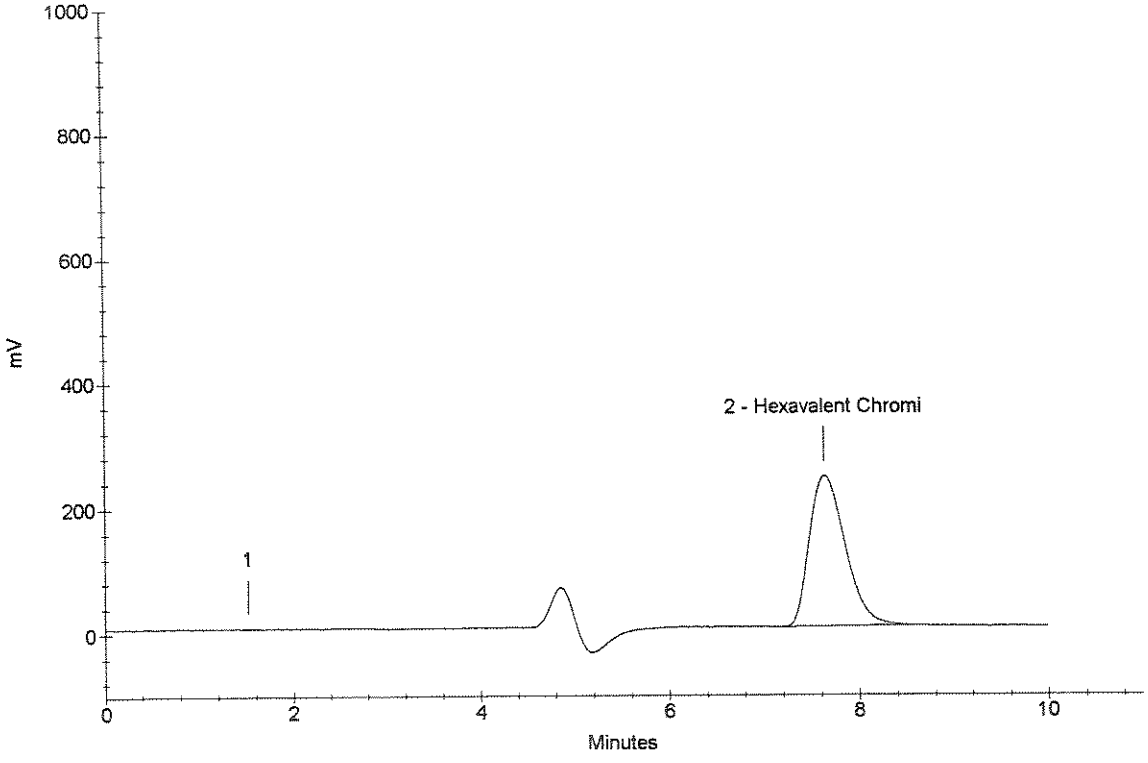
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi	1.8760	6240092

7/18/08

1112811 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\716_022.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:21:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

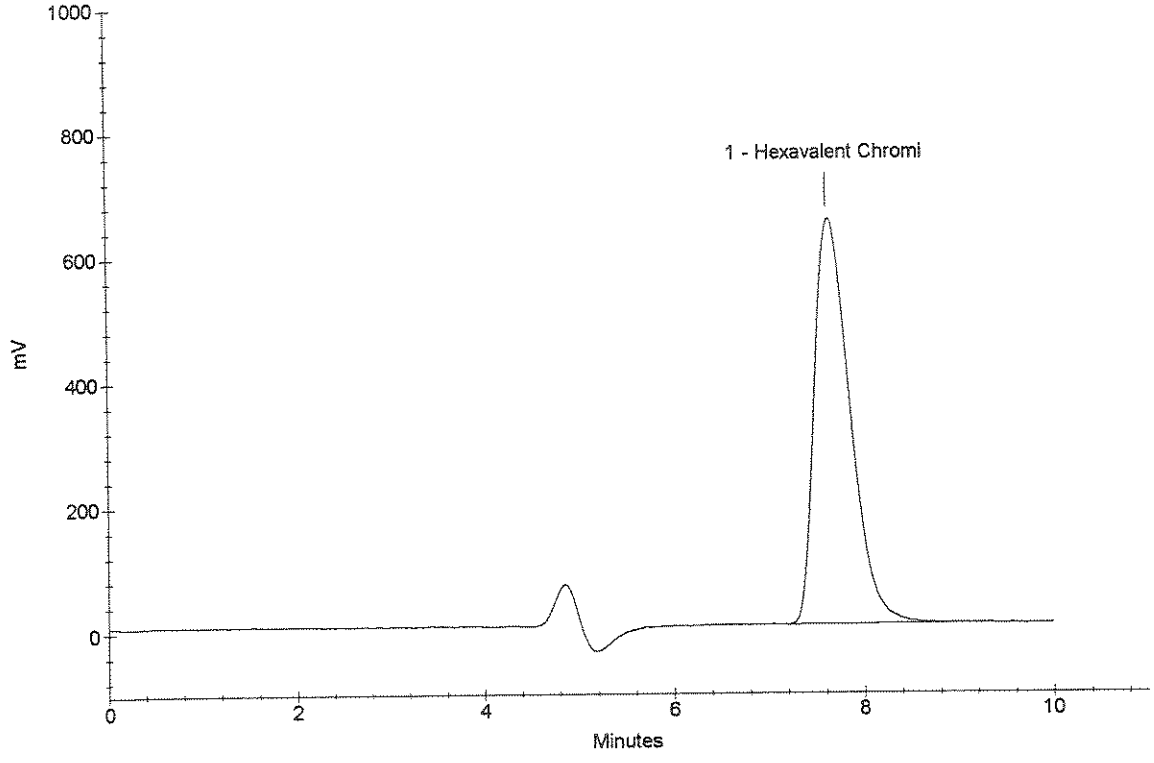
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.5047	16774376

OK
7/16/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\716_023.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:32:23

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

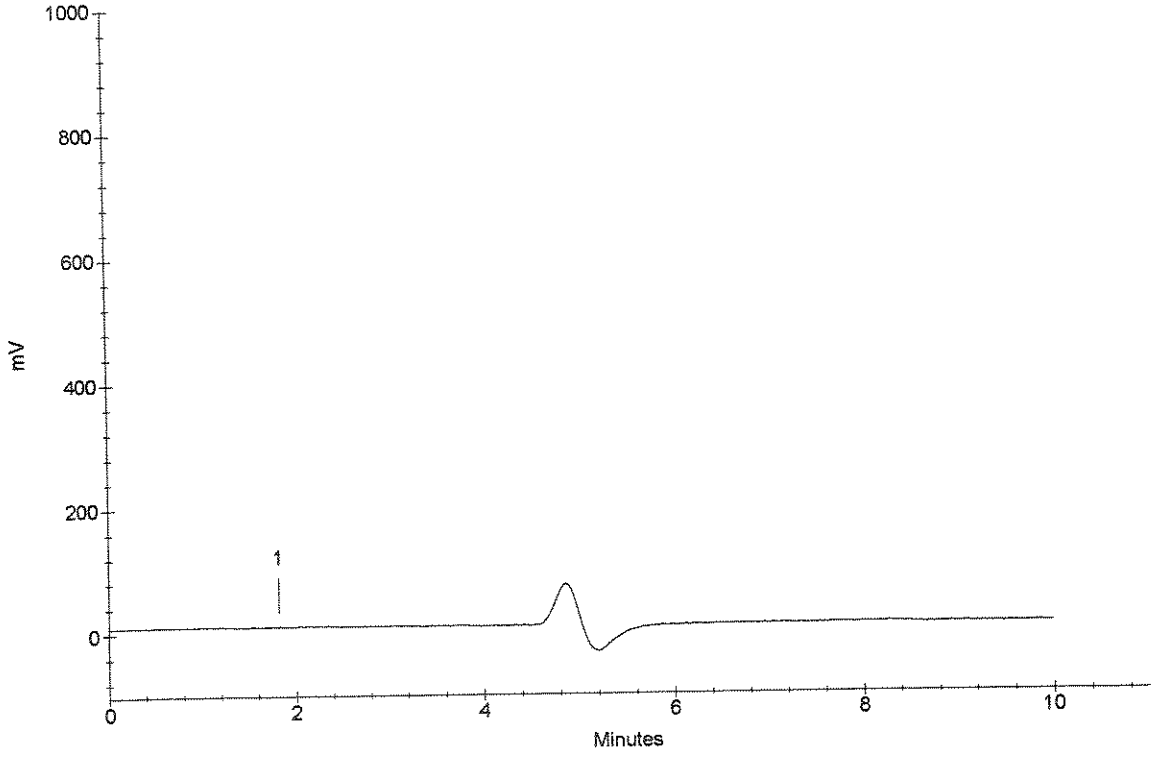
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK CW 8/8/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112812
Data File Name : ...\716_024.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:42:48

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

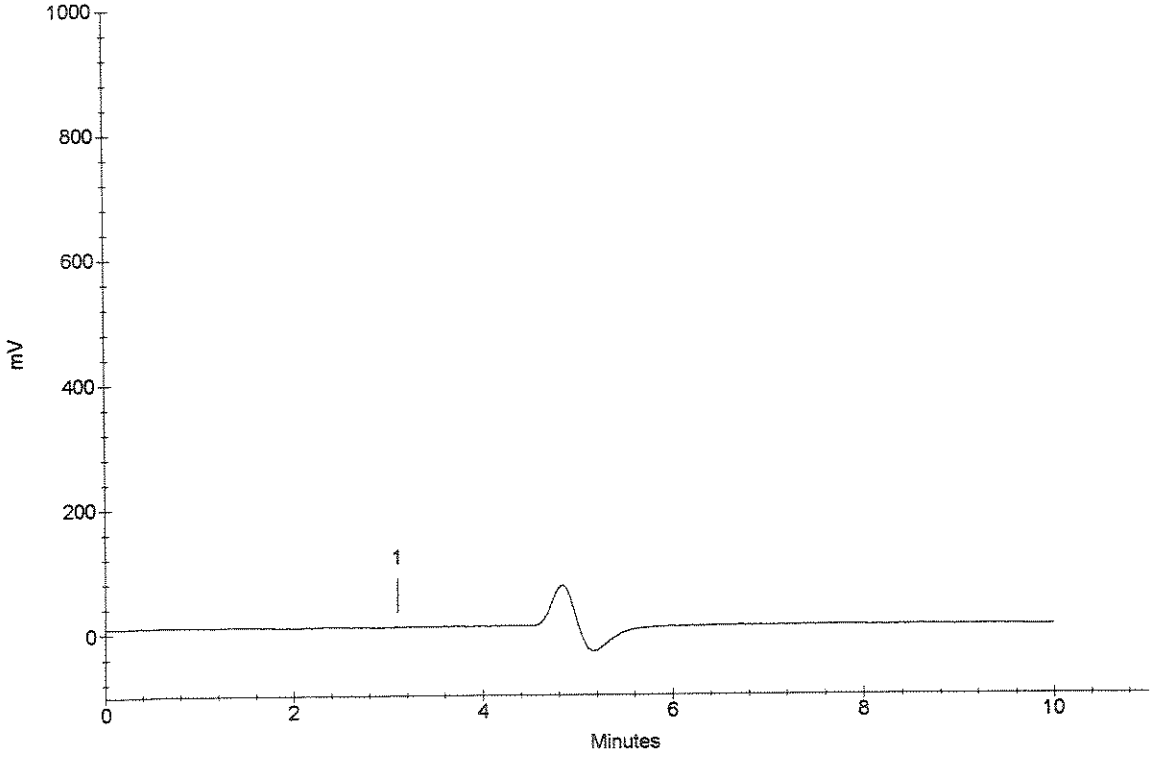
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1112812



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112871
Data File Name : ...\716_025.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 14:53:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

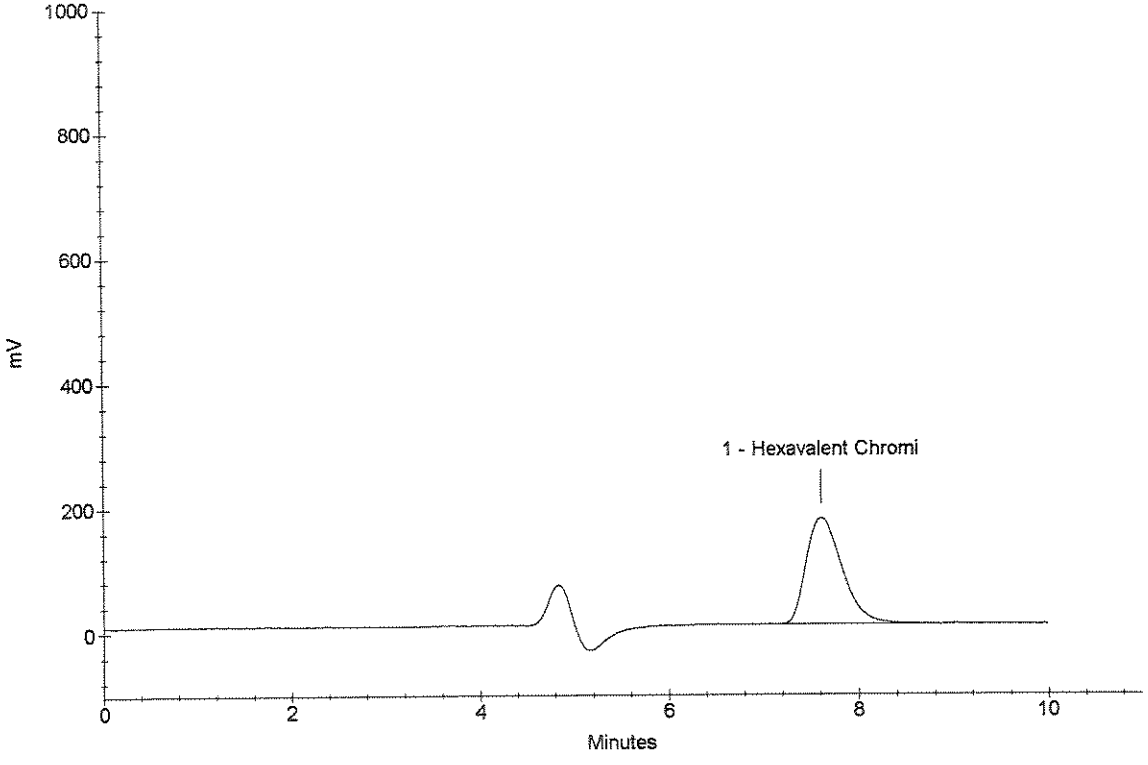
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	1.3126	4368281

8/18/08
1112871



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112872
Data File Name : ...\716_026.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:03:36

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

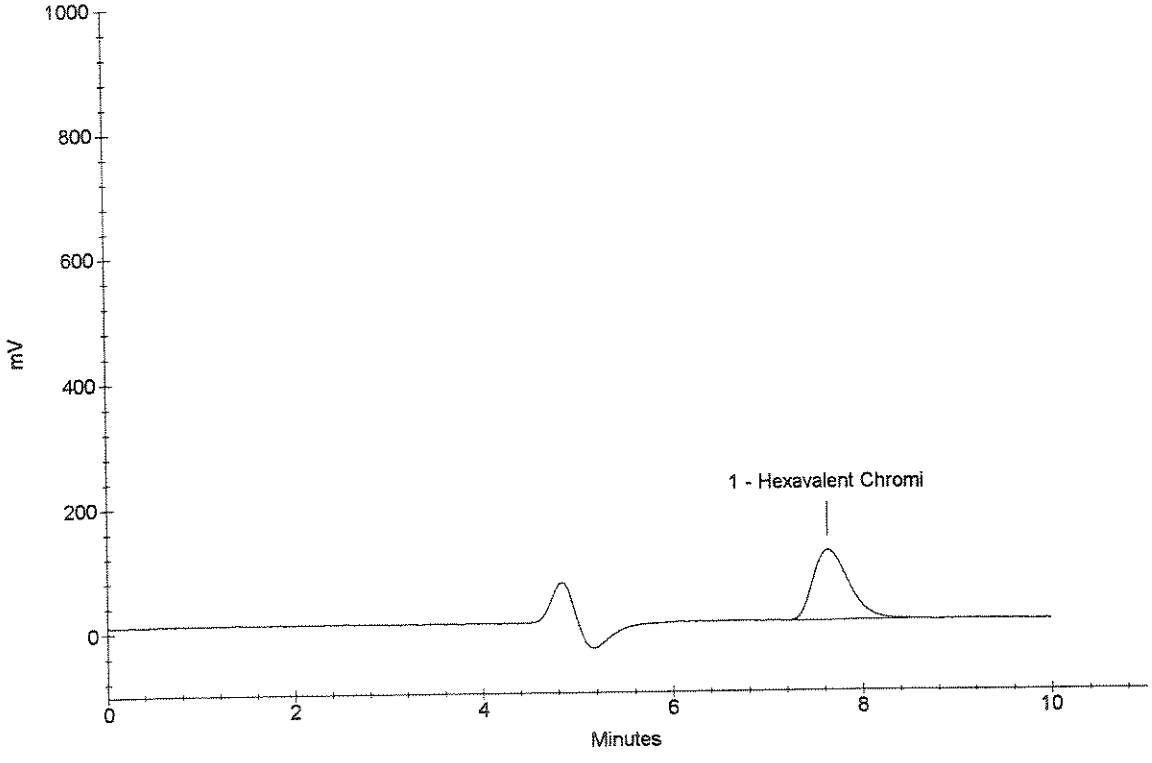
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.8815	2936015

OK
7/17/08
1112872



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874
Data File Name : ...\716_027.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:14:01

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

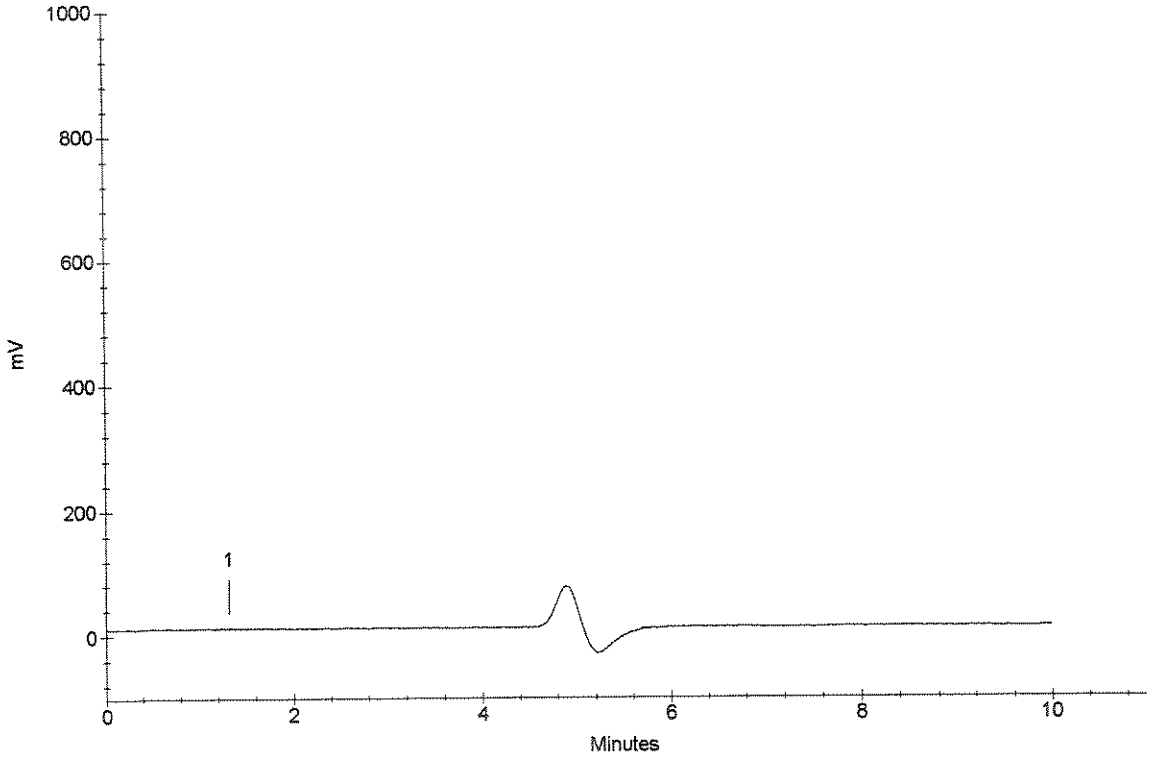
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/18/08

1112874



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 DUP
Data File Name : ...\716_028.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:24:26

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

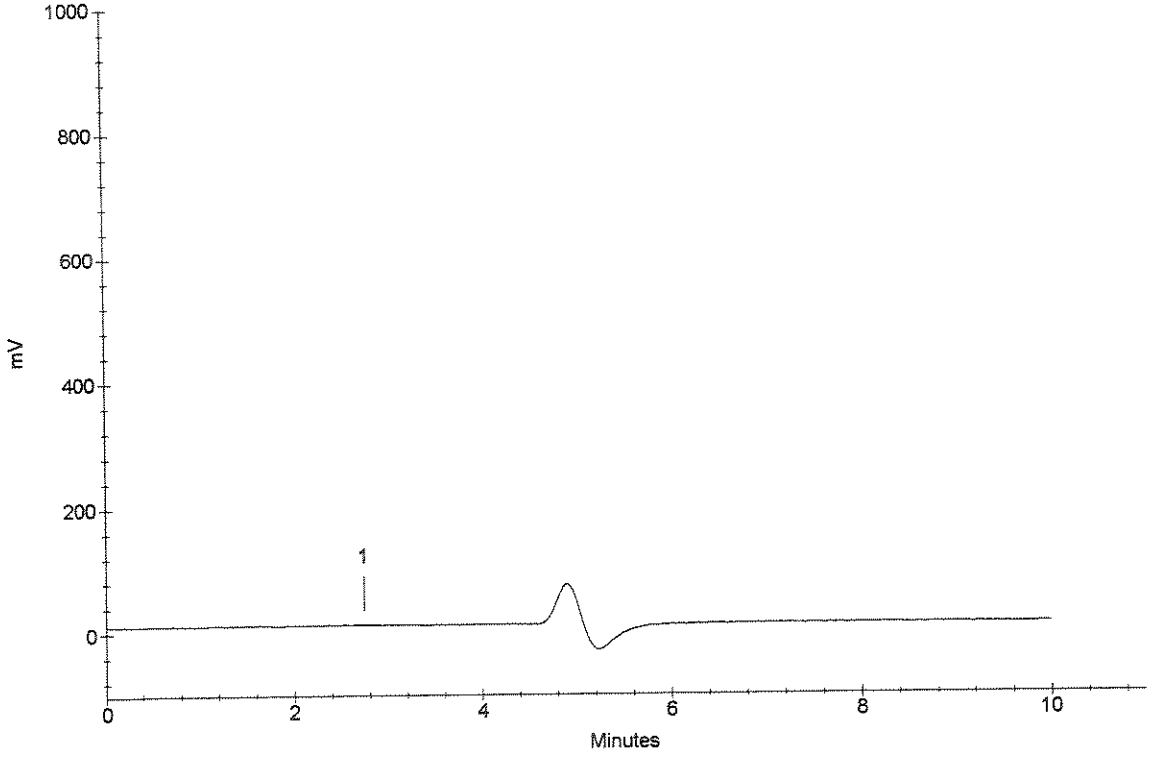
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1112874 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112874 SPK
Data File Name : ...\716_029.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:34:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

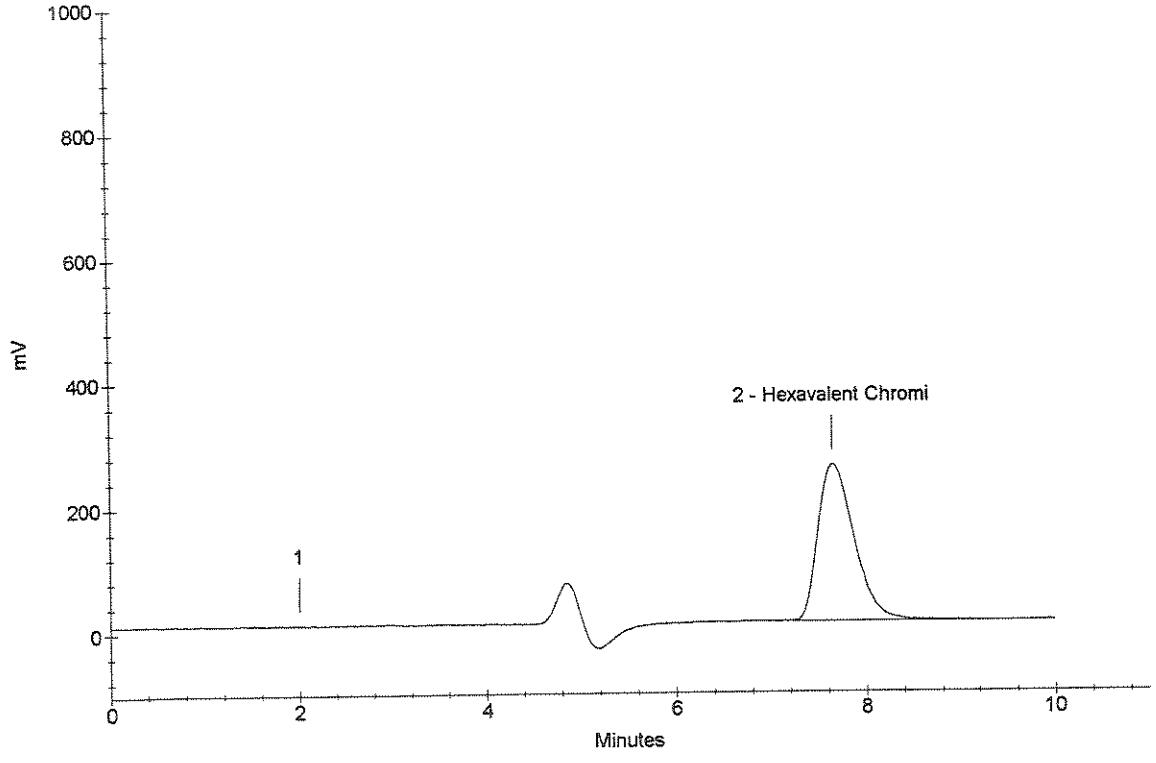
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.66	Hexavalent Chromi	1.9800	6585760

OK

1112874 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113426
Data File Name : ...\716_030.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:45:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

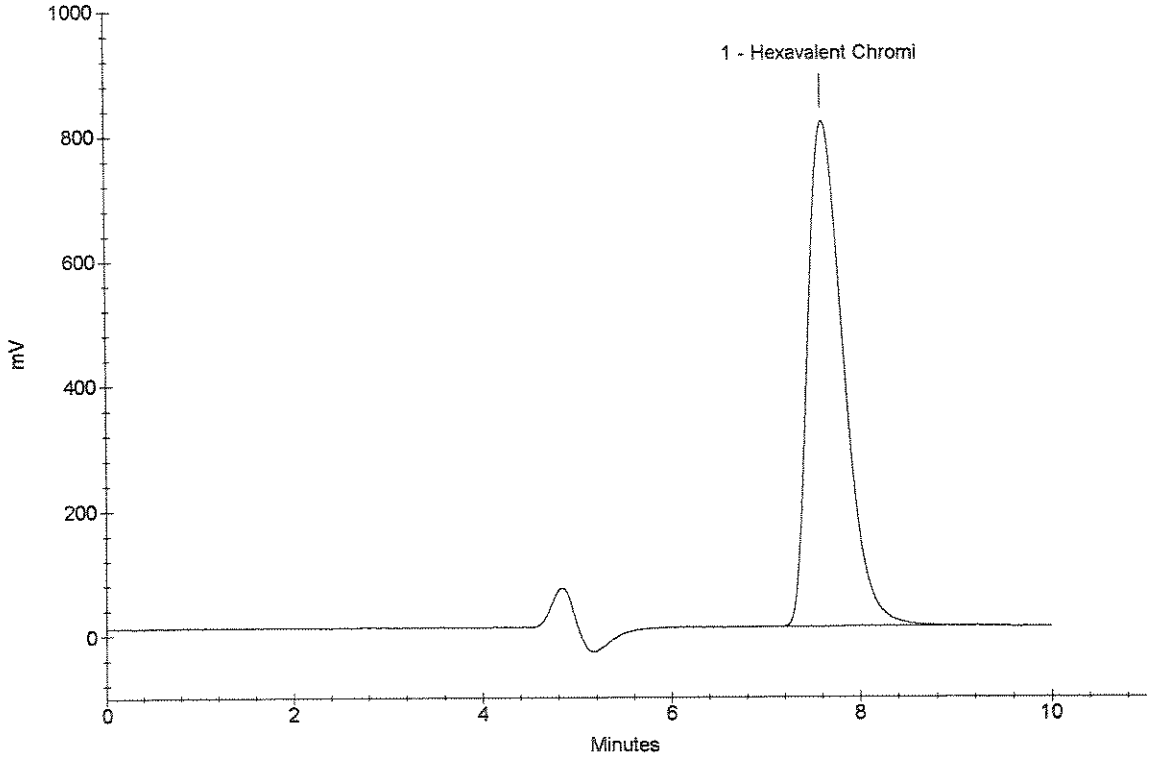
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	6.3353	21055408

OK
8/1/08
1113426



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113427
Data File Name : ...\716_031.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 15:55:38

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

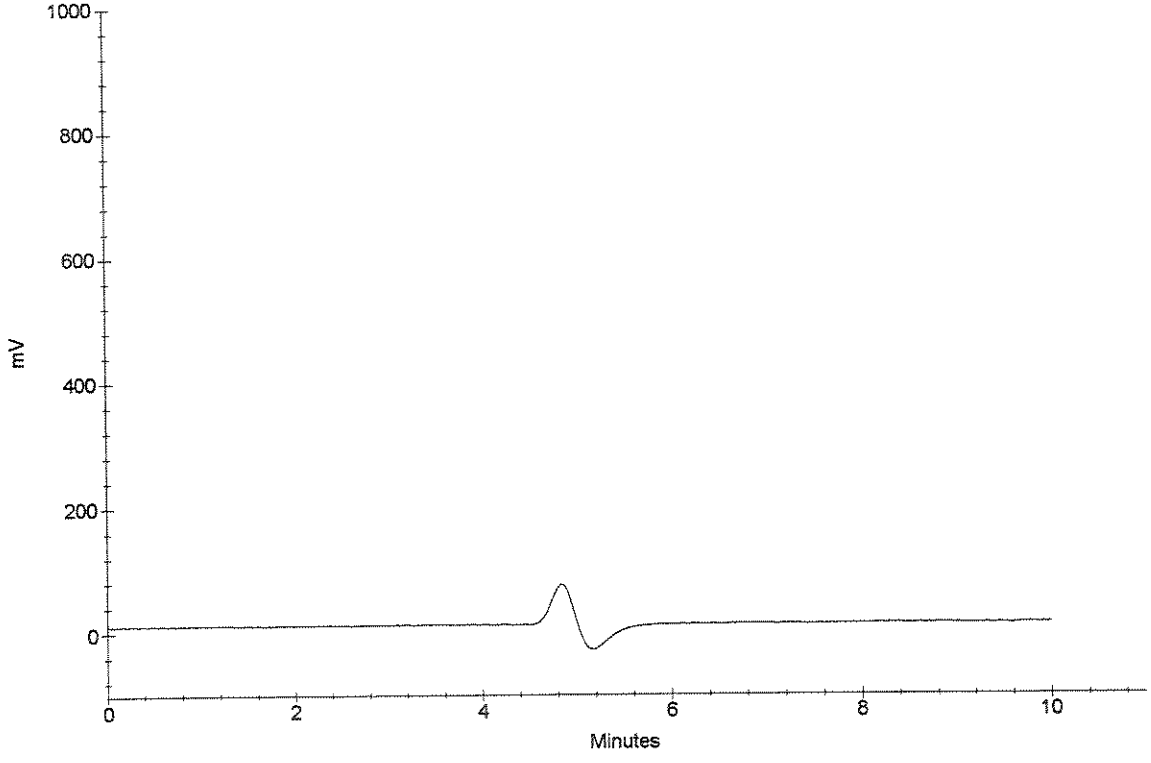
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

7/8/08

1113427



00834

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113428
Data File Name : ...\716_032.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:06:02

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

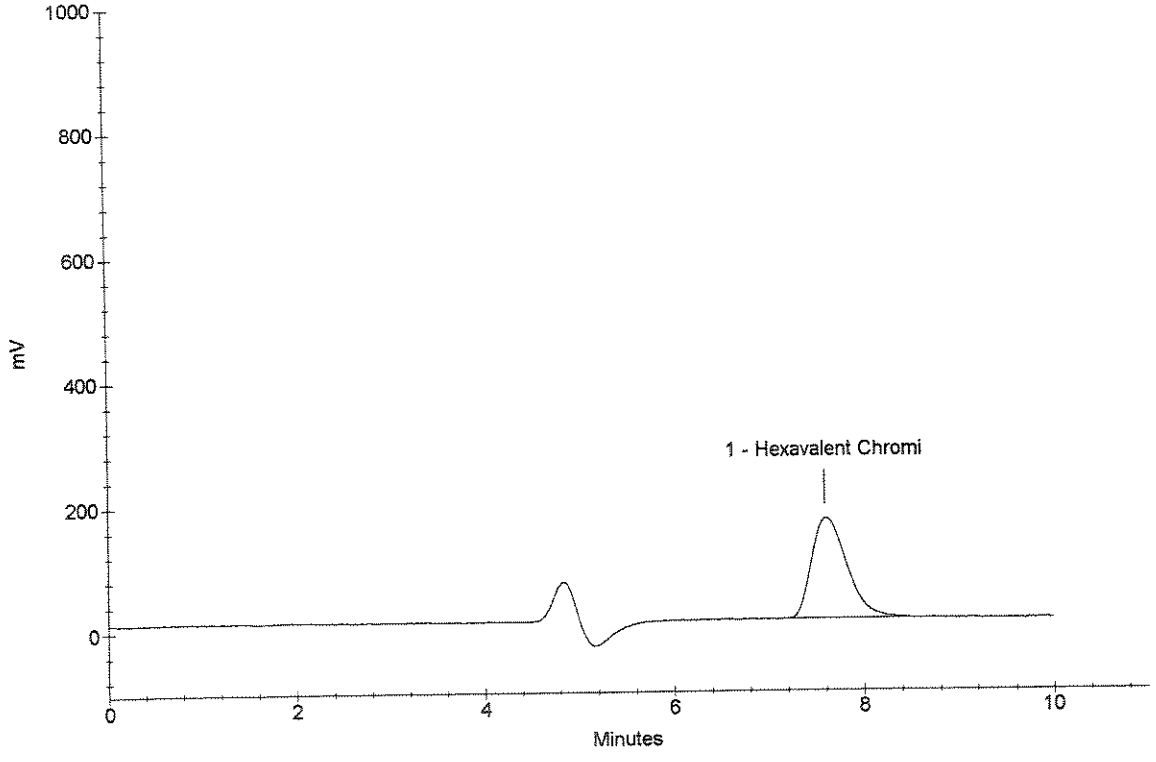
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.60	Hexavalent Chromi	1.2333	4104868

8/18/08
1113428



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113429
Data File Name : ...\716_033.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:16:26

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

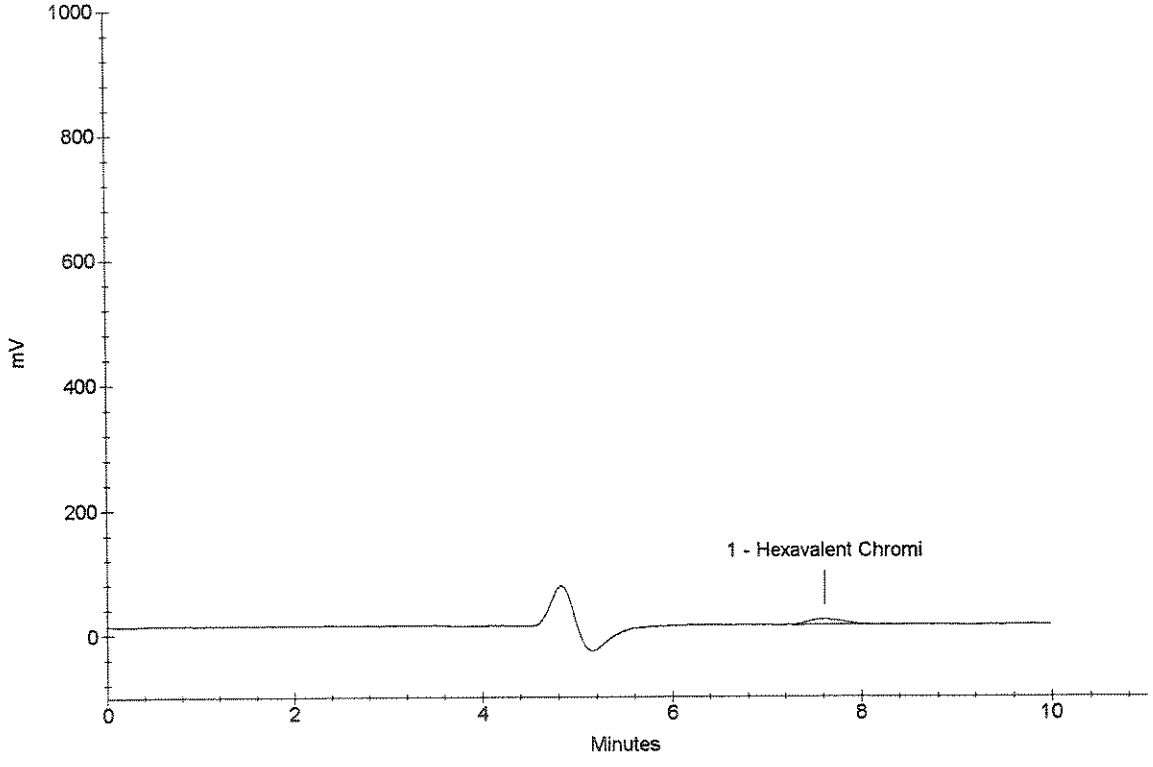
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.0655	225107

OK
8/18/08
1113429



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113430
Data File Name : ...\716_034.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:26:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

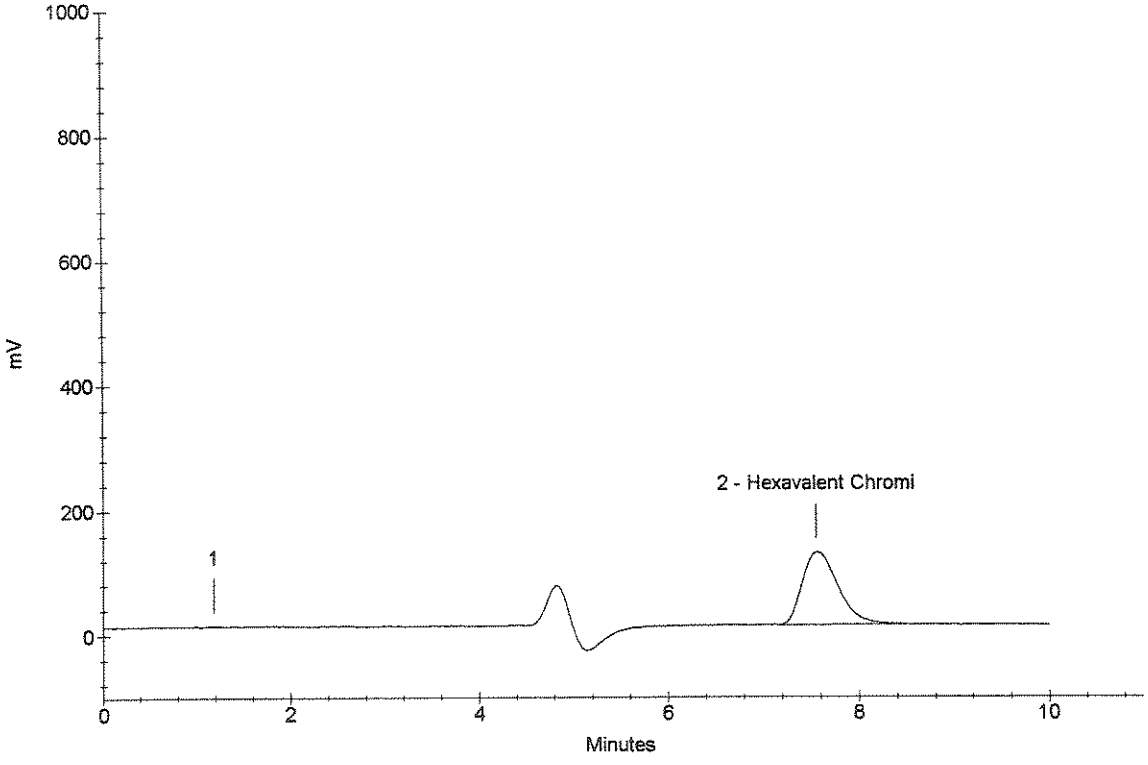
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.56	Hexavalent Chromi	0.8979	2990639

OK
7/16/08
1113430



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113695
Data File Name : ...\716_035.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:37:14

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

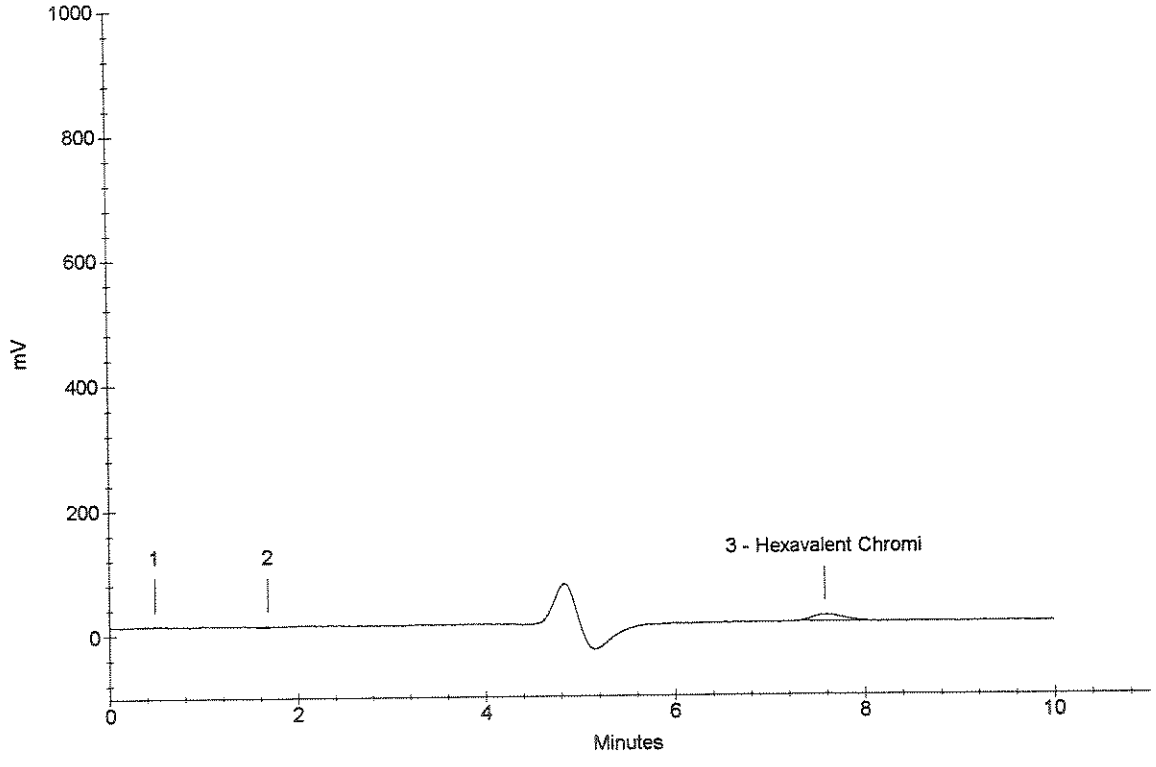
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	7.58	Hexavalent Chromi	0.0680	233482

8/18/08

1113695



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\716_036.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:47:38

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

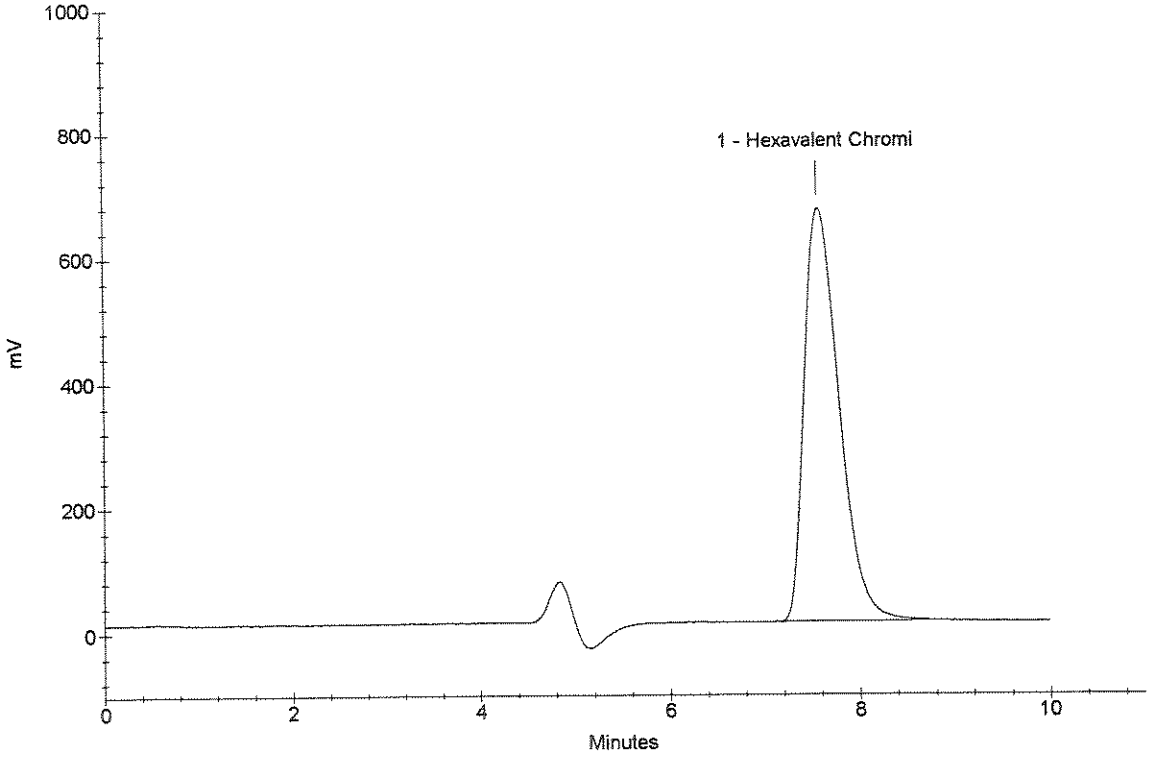
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.5040	16750995

OK
8/7/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\716_037.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 16:58:03

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

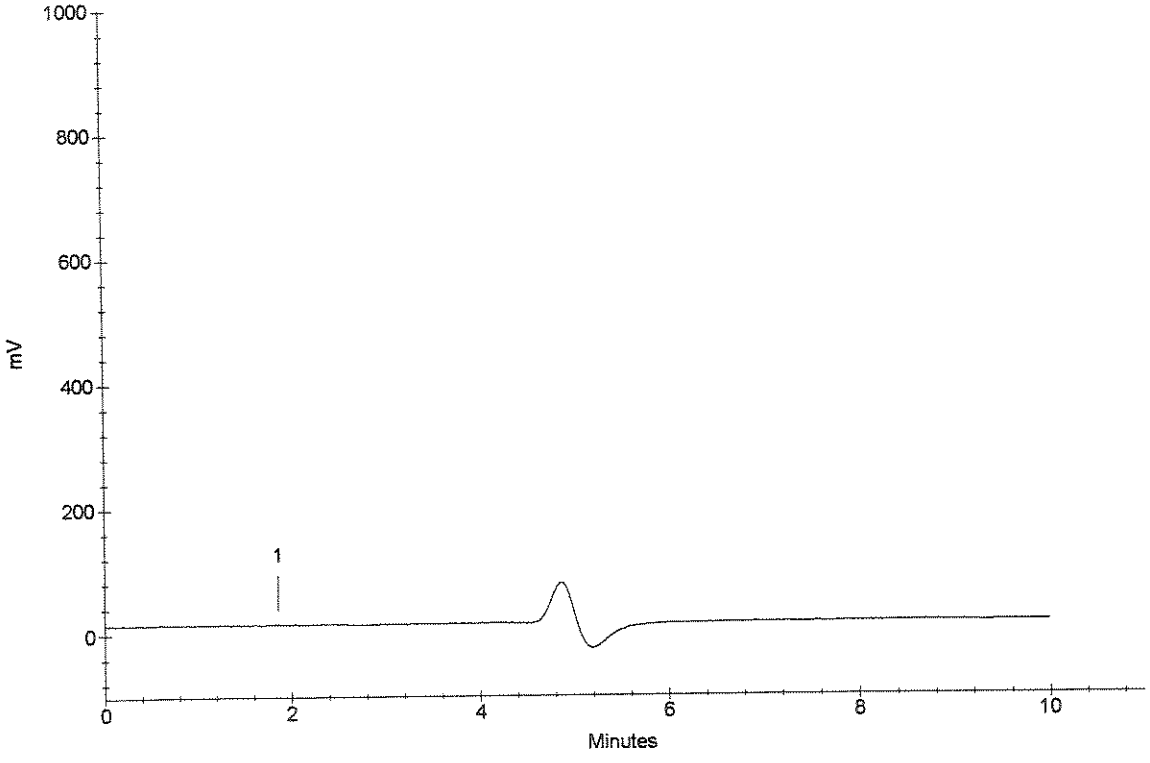
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08
CCB



00846

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\716_038.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 17:08:27

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

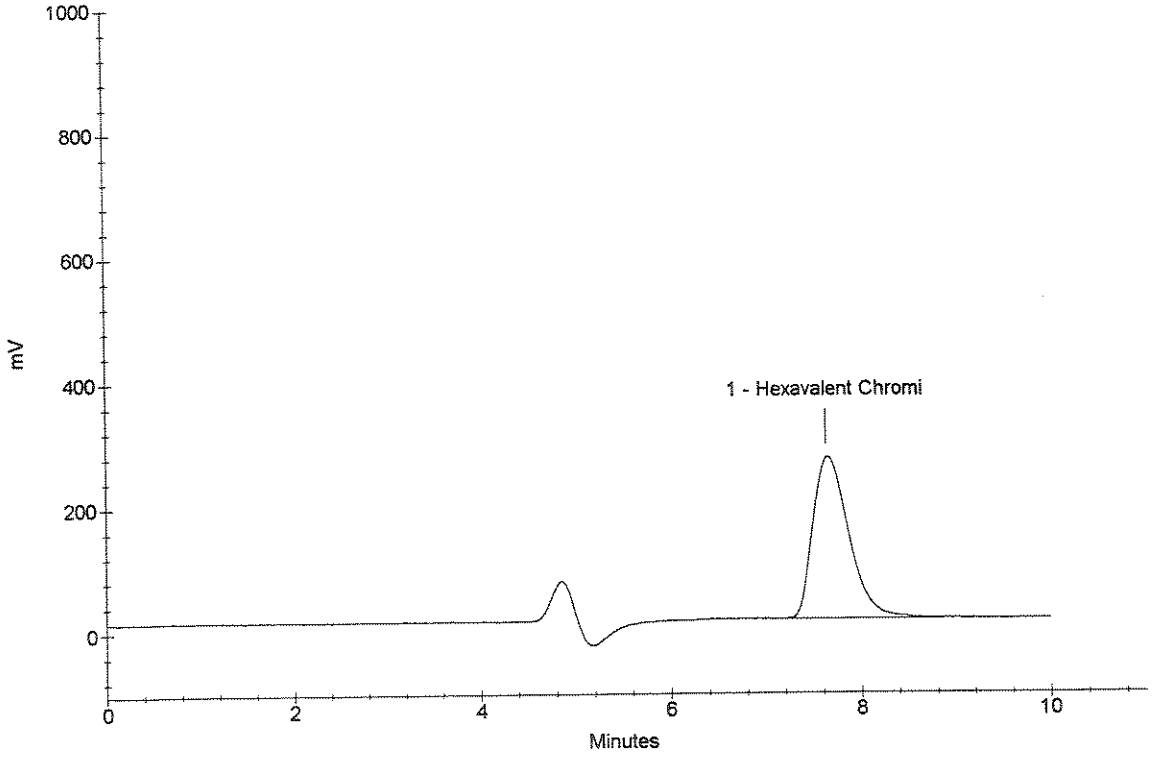
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.2004	6665277

OK
8/4/08
LCS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113696
Data File Name : ...\716_039.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 17:18:52

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

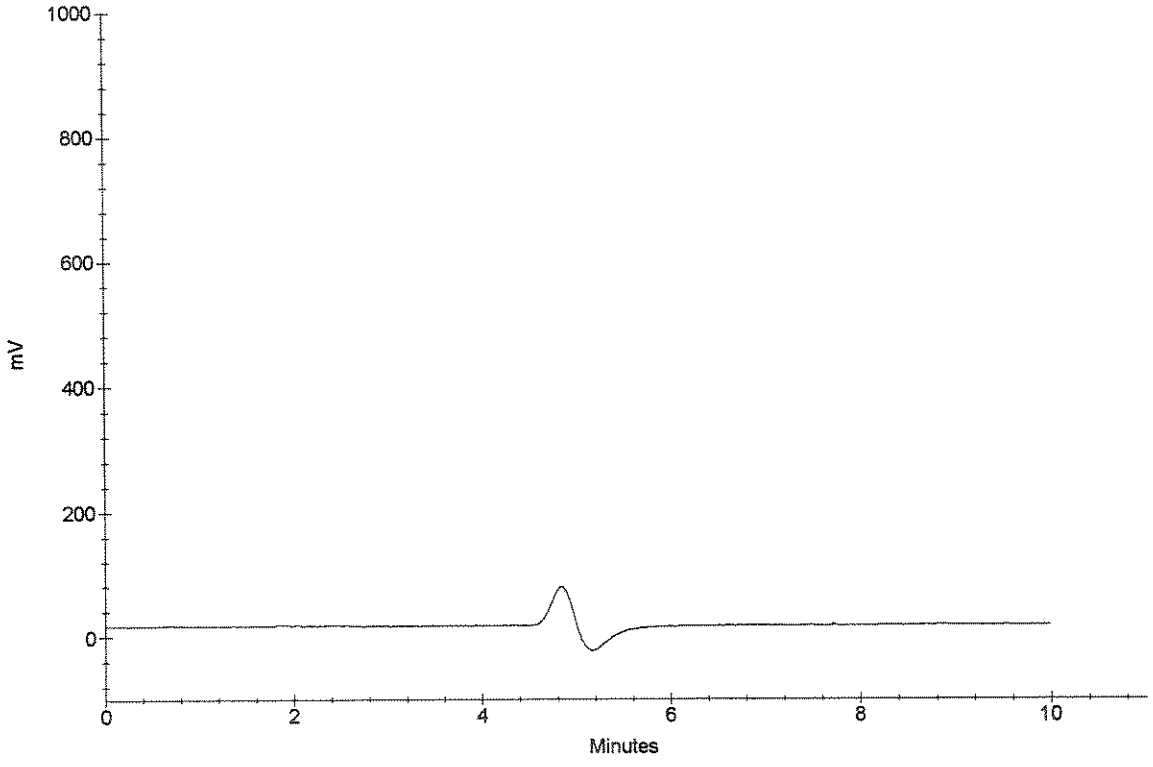
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1113696



00842

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113697
Data File Name : ...\716_040.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 17:29:17

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

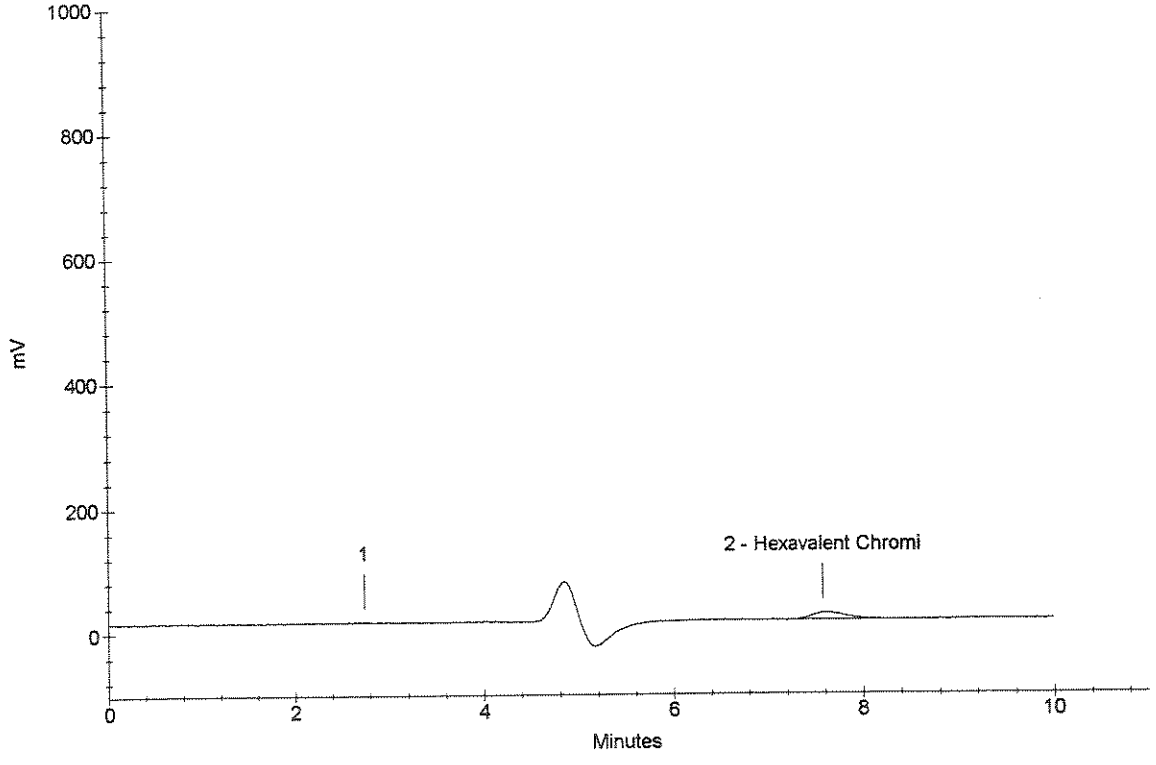
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.58	Hexavalent Chromi	0.0793	271029

OK
7/17/08
1113697



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113698
Data File Name : ...\716_041.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 17:39:42

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

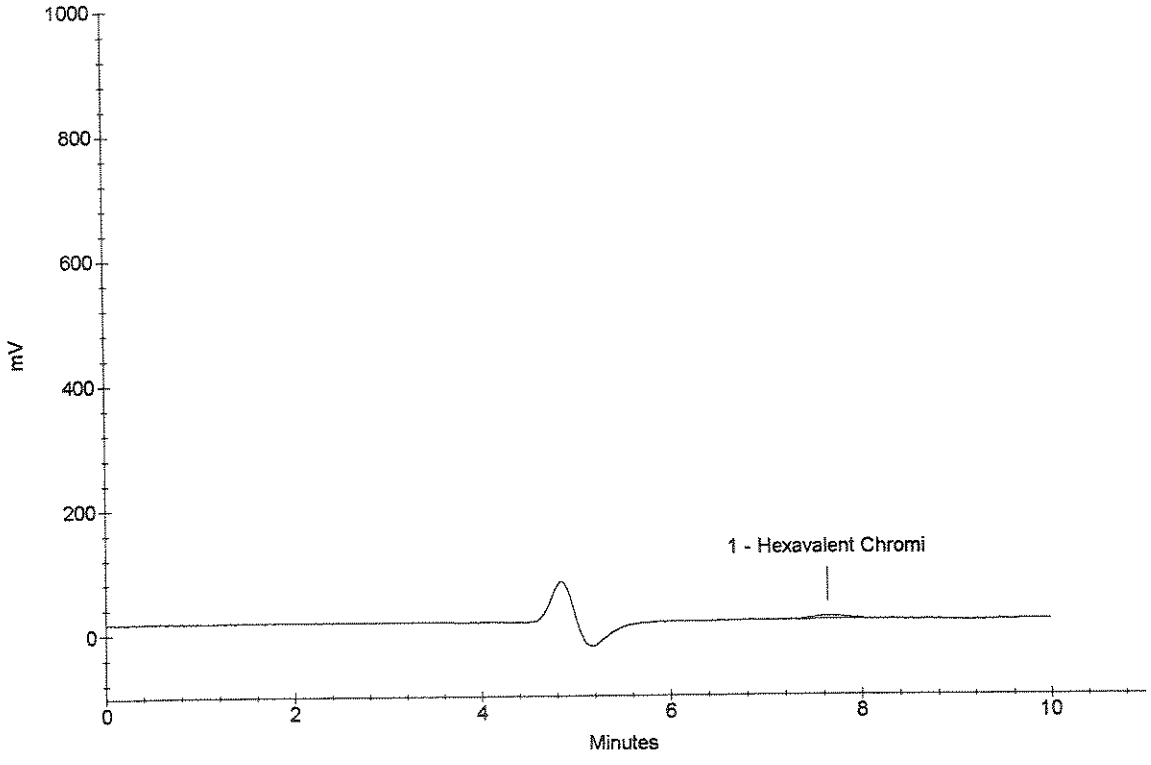
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.0361	127326

OK
7/16/08
1113698



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1113699
Data File Name : ...\716_042.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 17:50:06

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

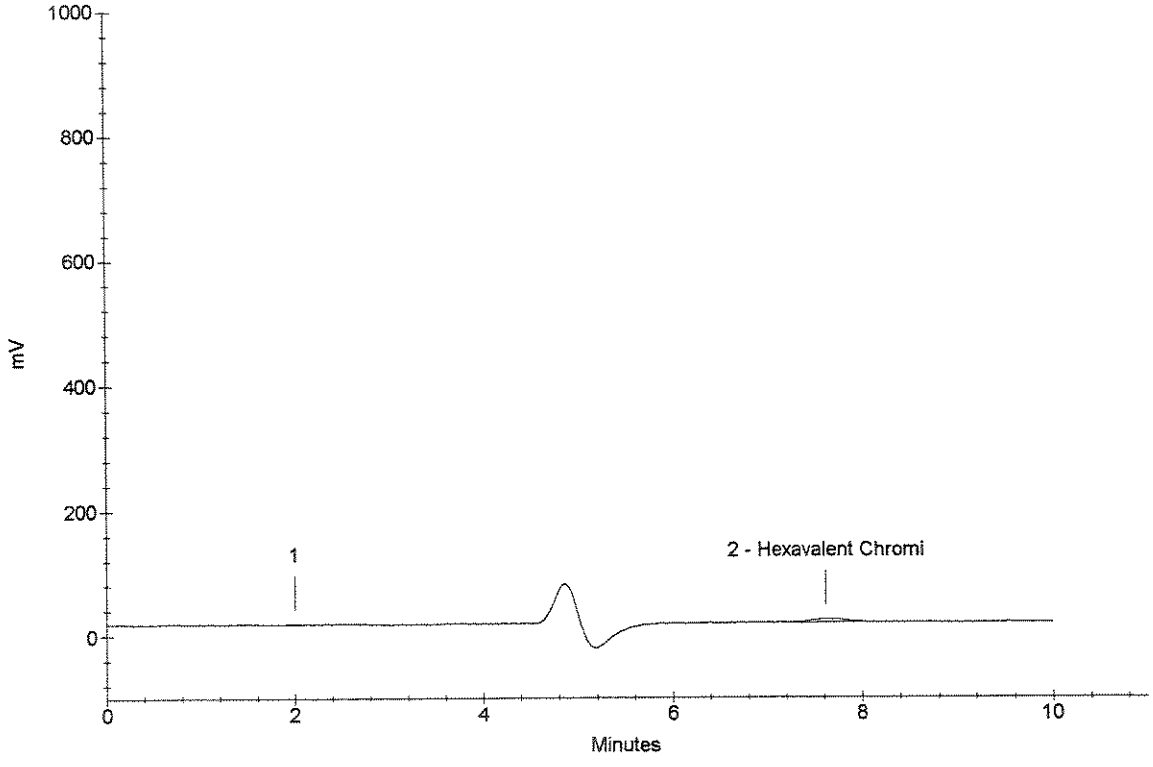
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.62	Hexavalent Chromi	0.0401	140874

1113699



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114419
Data File Name : ...\716_043.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:00:31

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

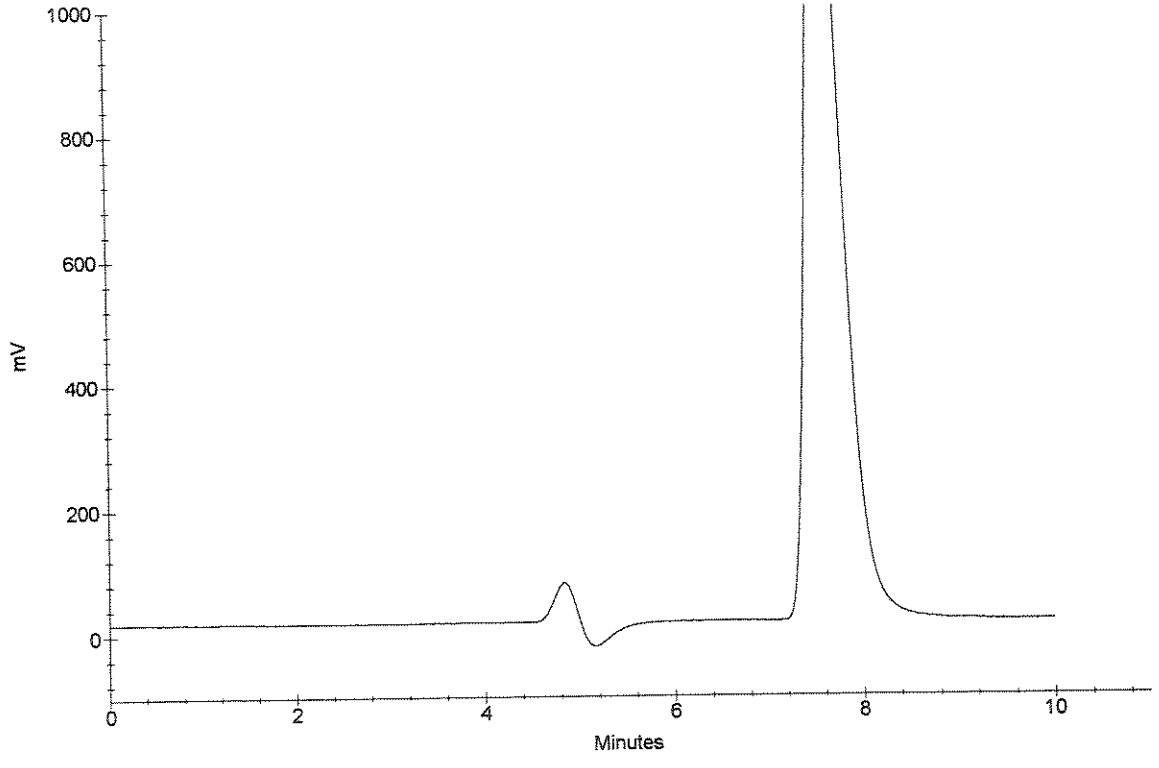
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

1114419



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114420
Data File Name : ...\716_044.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:10:52

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

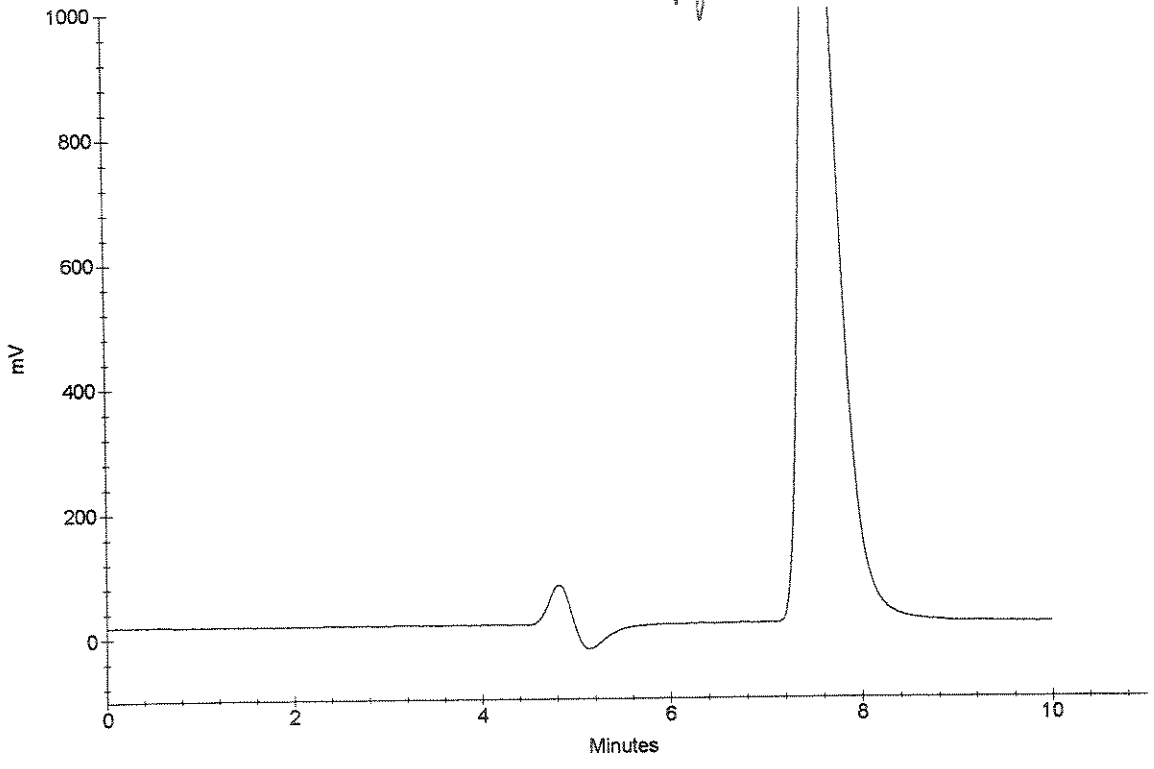
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

8/18/08

1114420

ppb Cr 1/100



00847

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421
Data File Name : ...\716_045.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:21:11

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

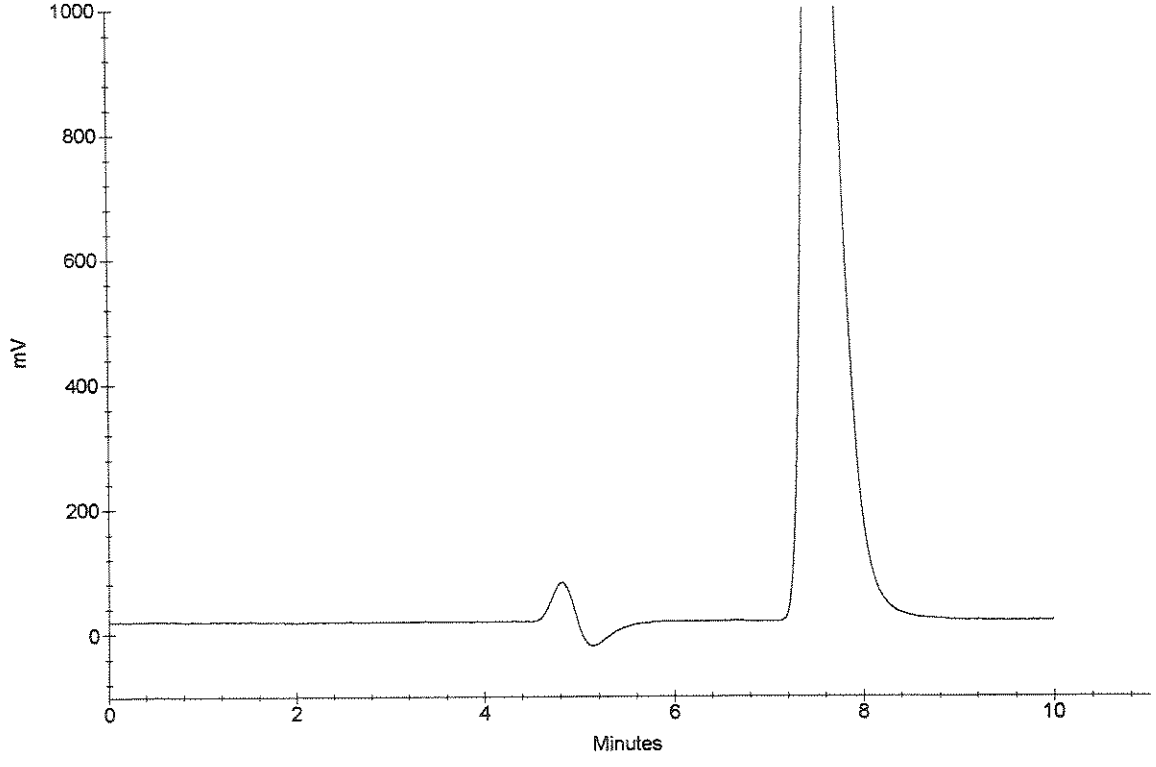
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

Rpt 1/100 8/8/08

1114421



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421 DUP
Data File Name : ...\716_046.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:31:36

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

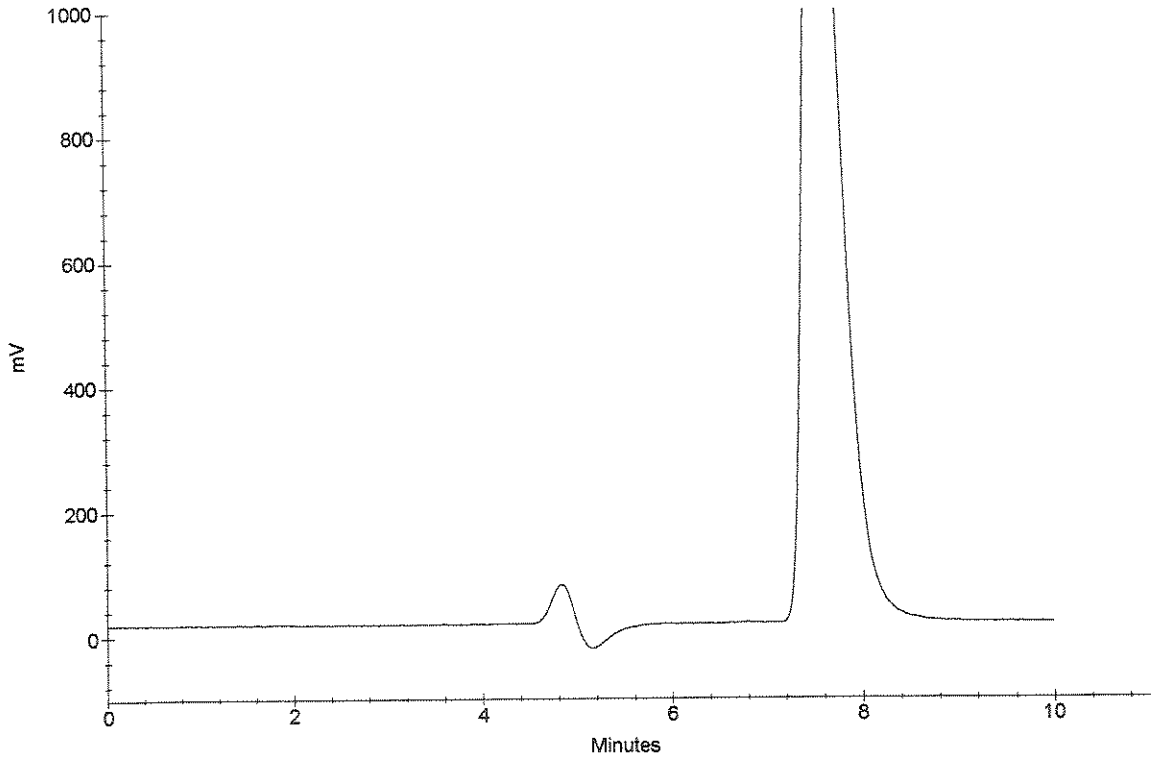
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

Rpt 1/100

1114421 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114421 SPK
Data File Name : ...\716_047.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:42:00

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

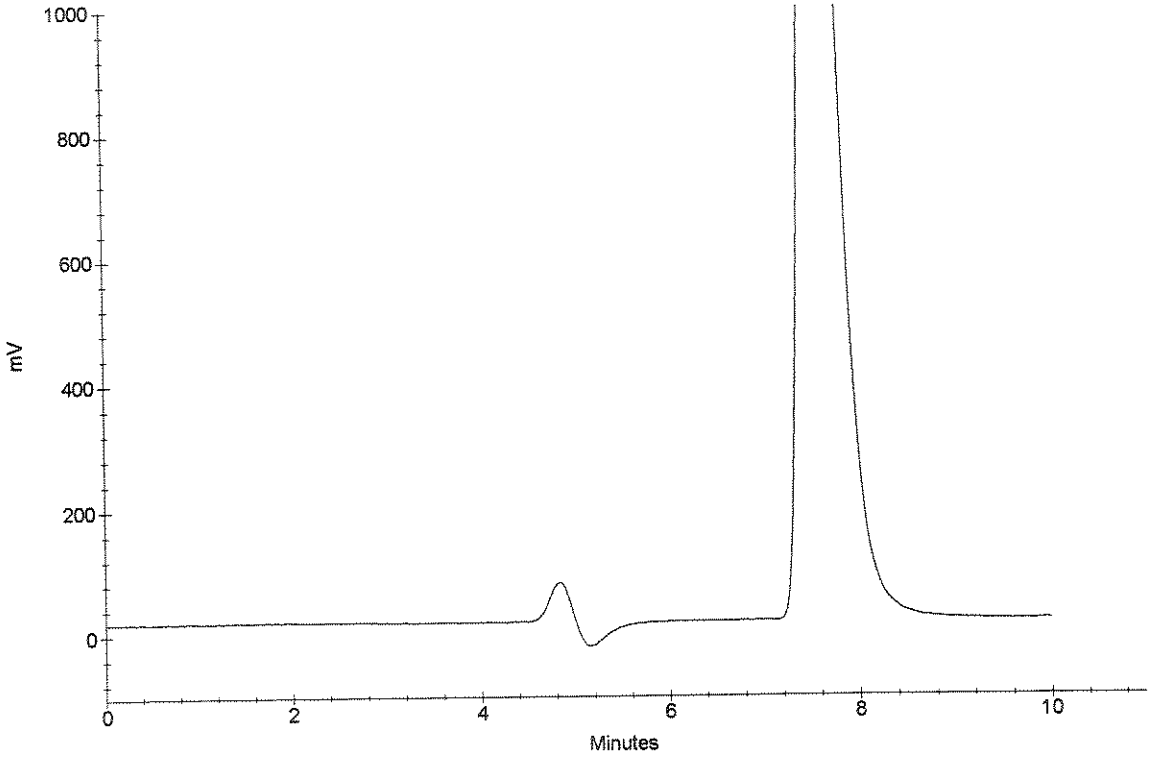
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

Rpt 1/100 8/8/08

1114421 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114756
Data File Name : ...\716_048.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 18:52:25

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

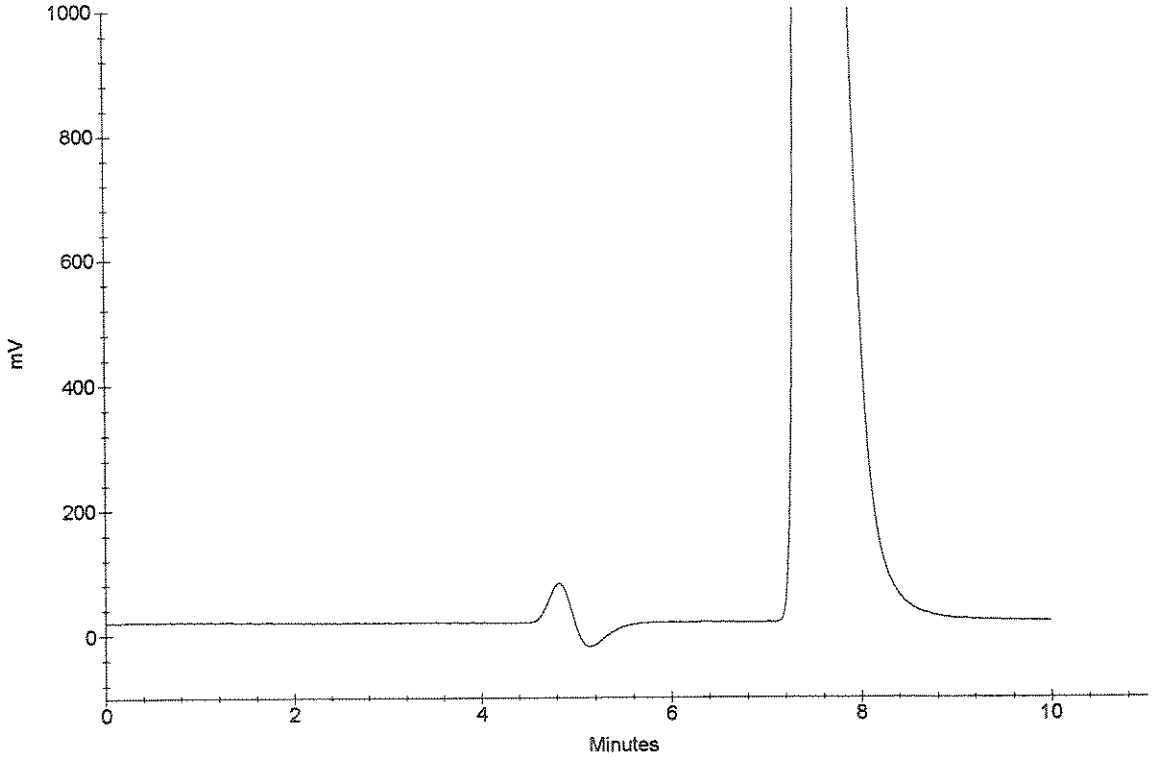
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

1/100 CM 7/8/08

1114756



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1114758
Data File Name : ...\716_049.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:02:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

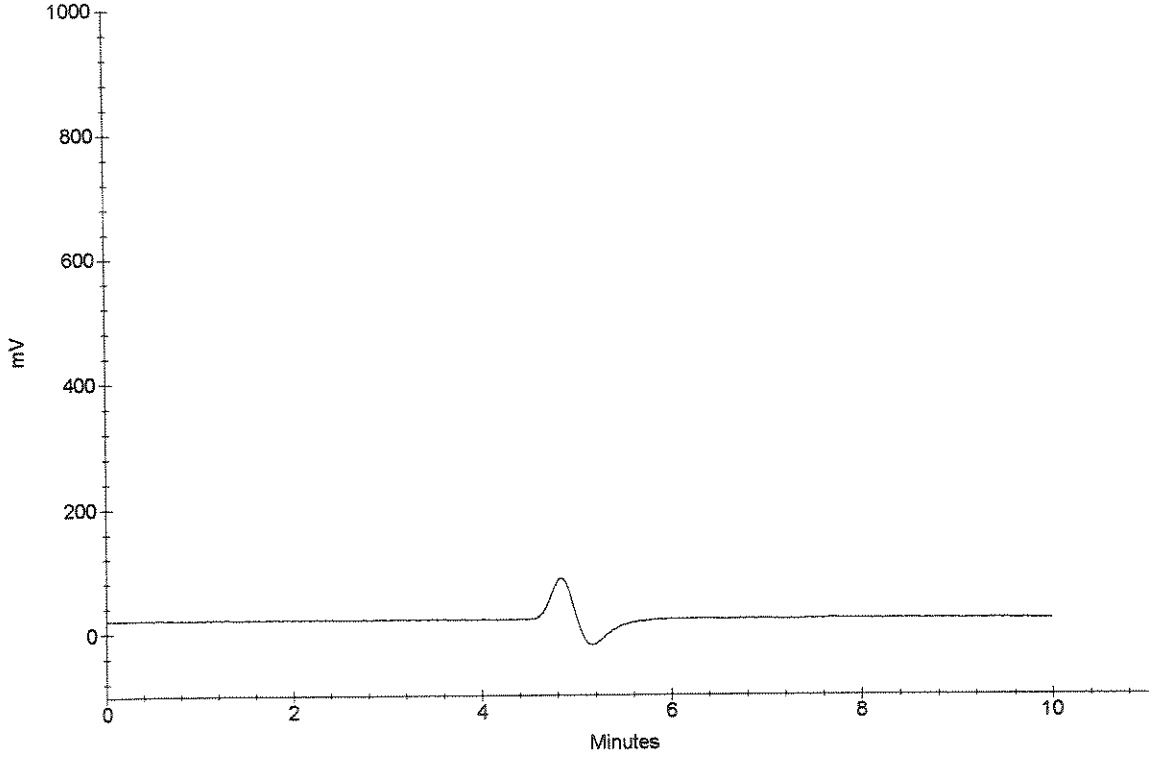
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08
1114758



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115782
Data File Name : ...\716_050.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:13:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

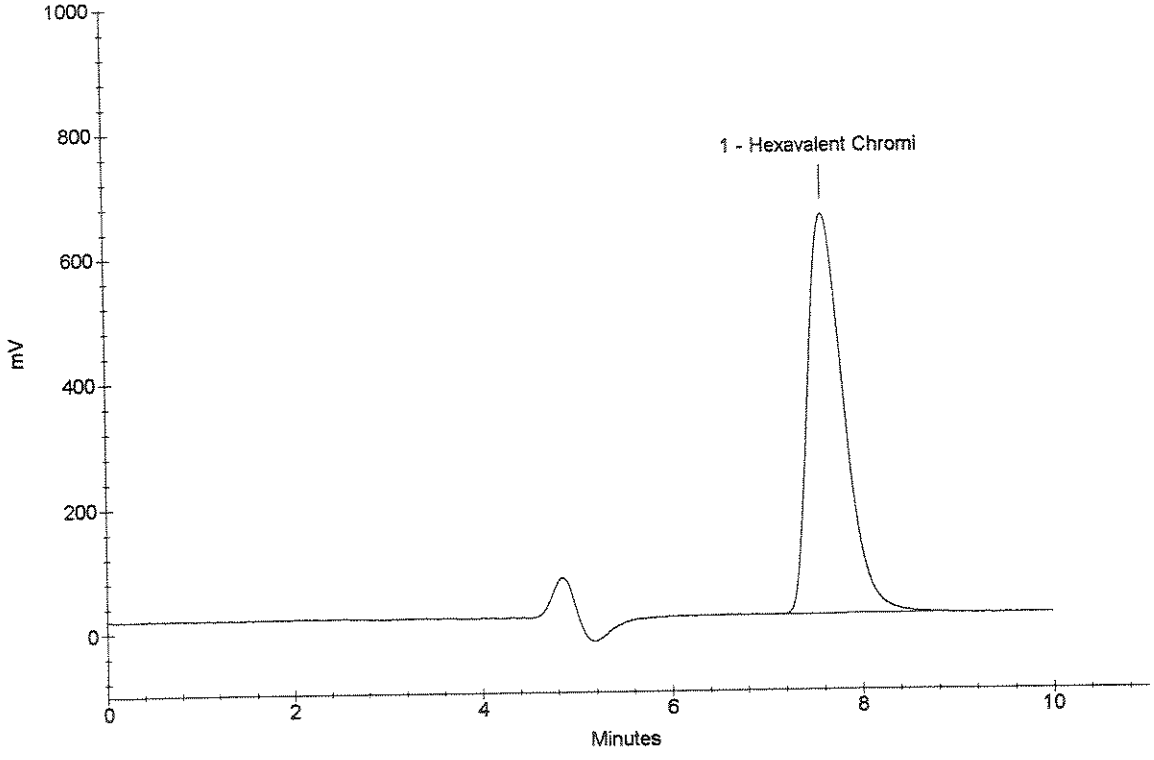
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	4.9825	16561118

1115782



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\716_051.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:23:37

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

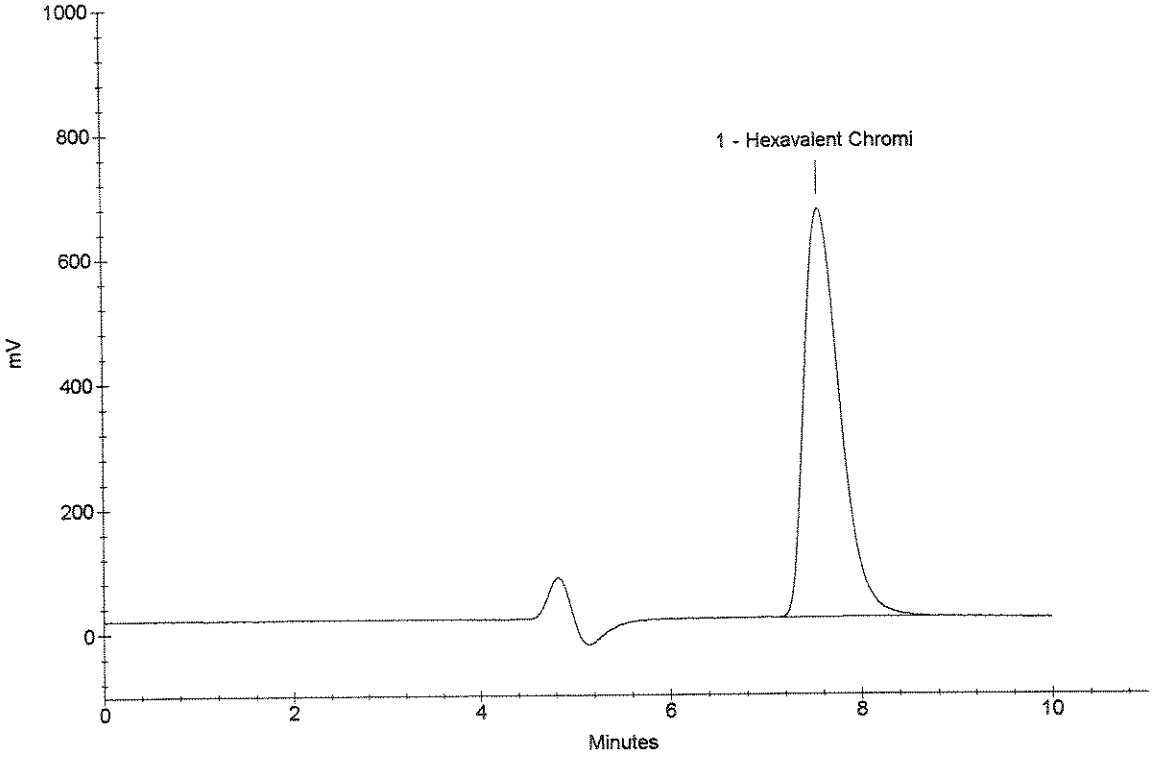
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.5068	16844779

7/8/08
CCV



00854

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\716_052.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:34:02

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

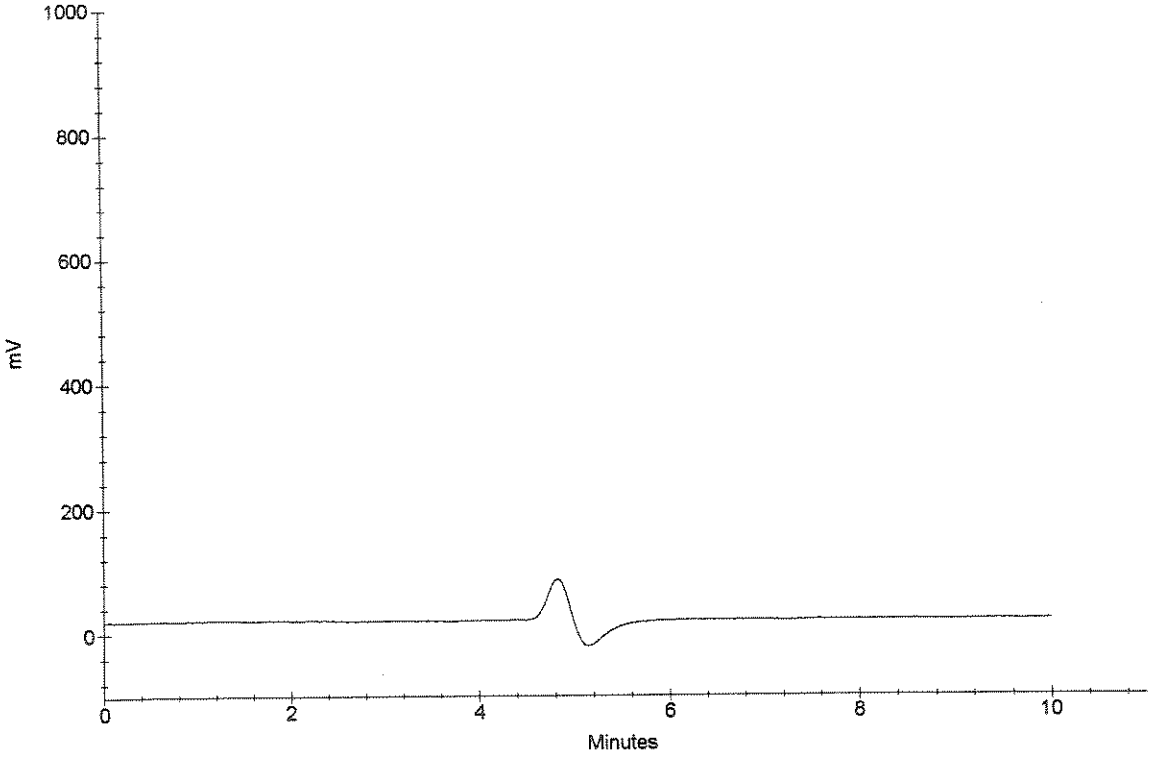
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/18/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115783
Data File Name : ...\716_053.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:44:27

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

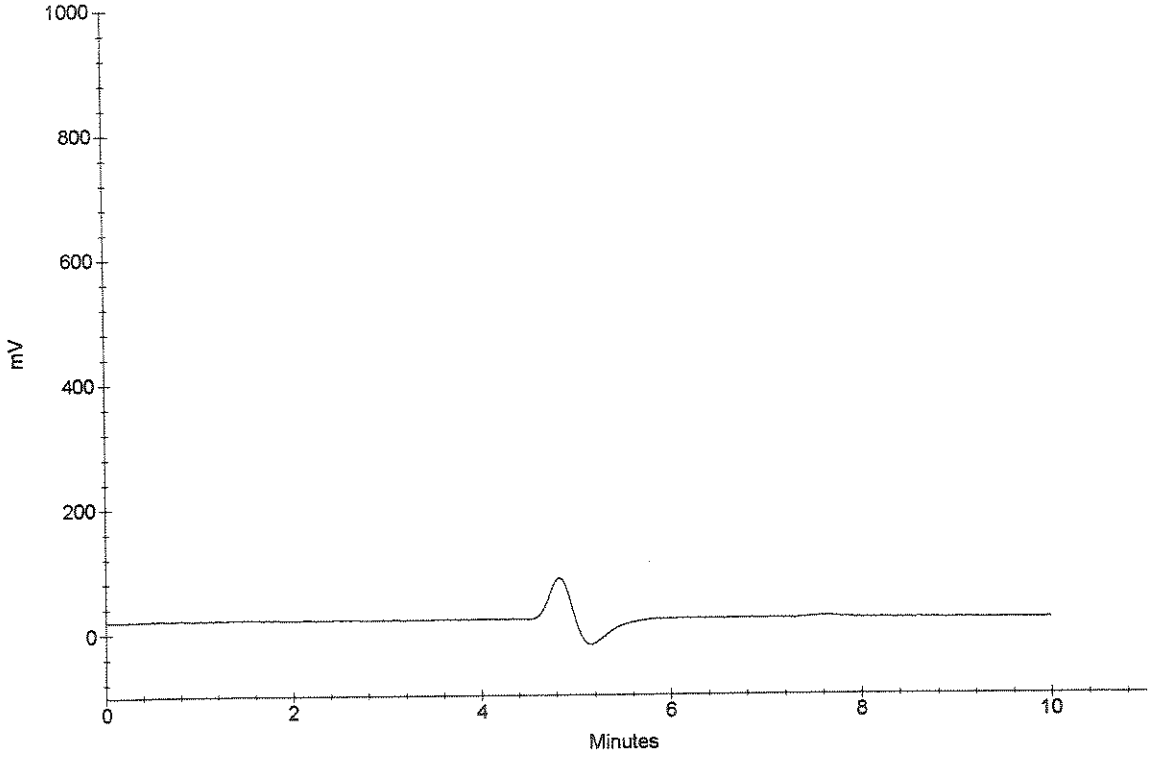
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1115783



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115784
Data File Name : ...\716_054.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 19:54:50

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

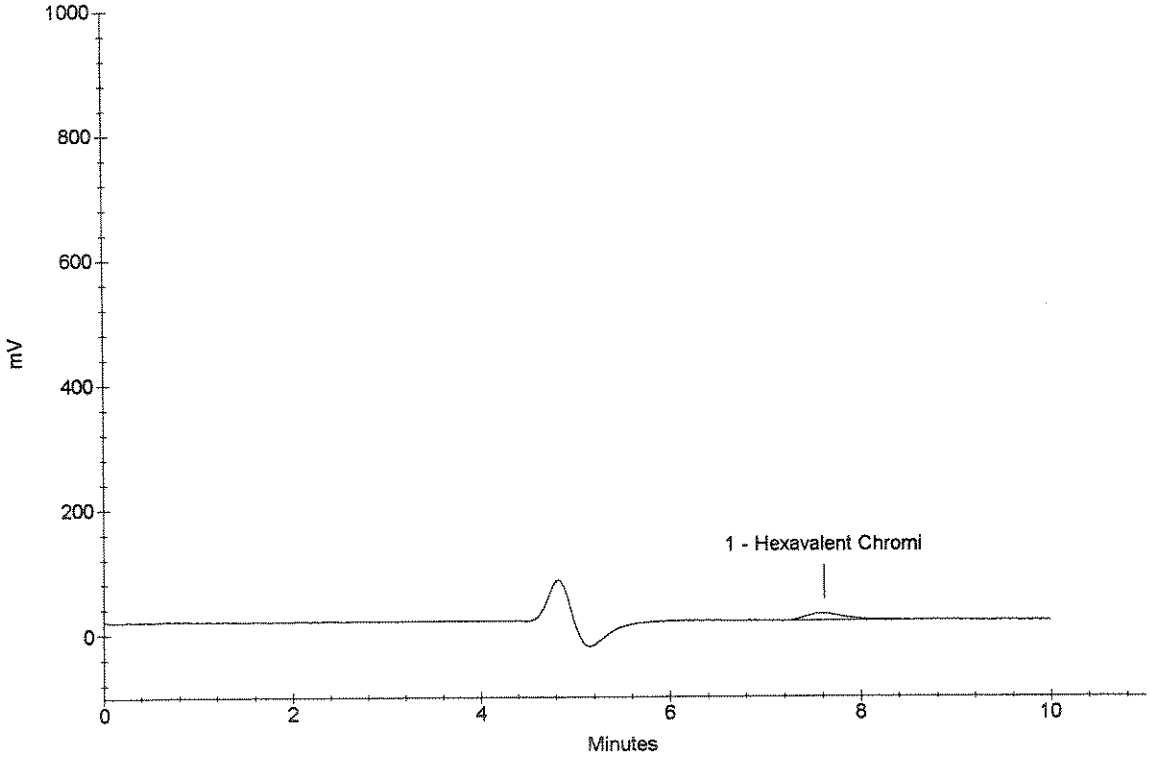
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.0907	308959

OK
8/4/08
1115784



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115785
Data File Name : ...\716_055.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:05:15

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

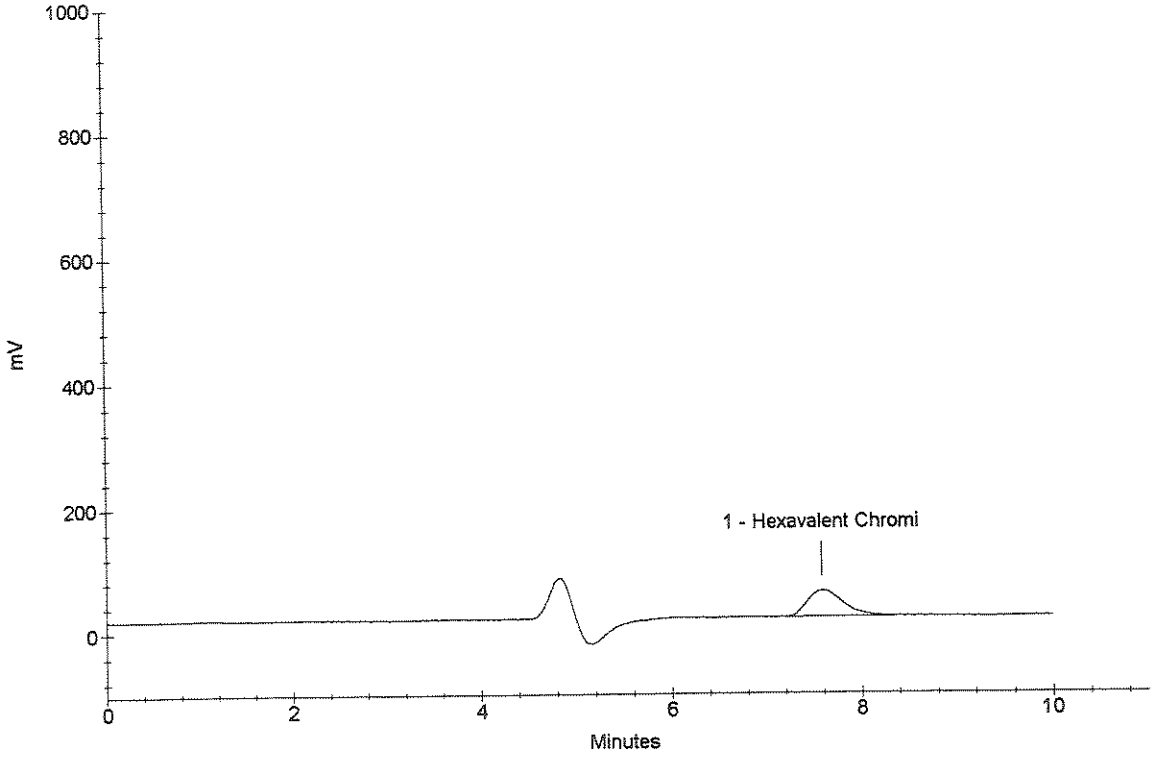
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	0.3245	1085749

8/8/08
1115785



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367
Data File Name : ...\716_056.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:15:40

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

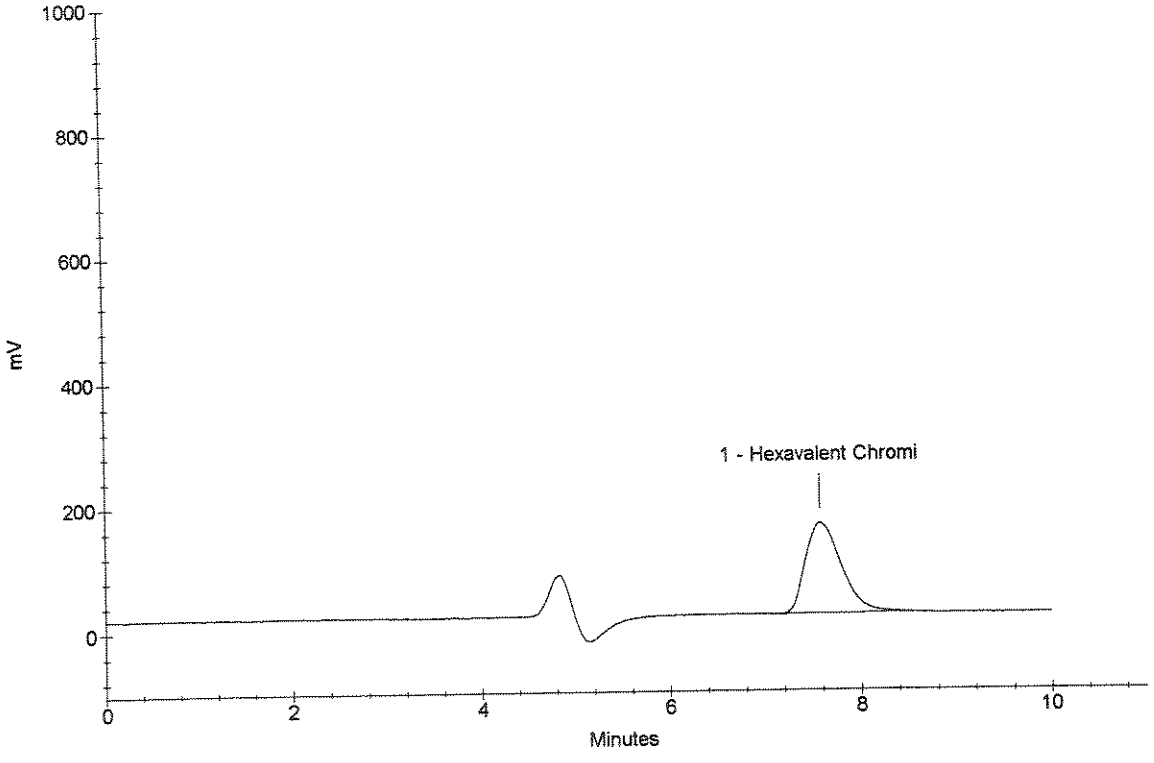
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	1.1165	3716897

7/18/08

1116367



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 DUP
Data File Name : ...\716_057.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:26:04

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

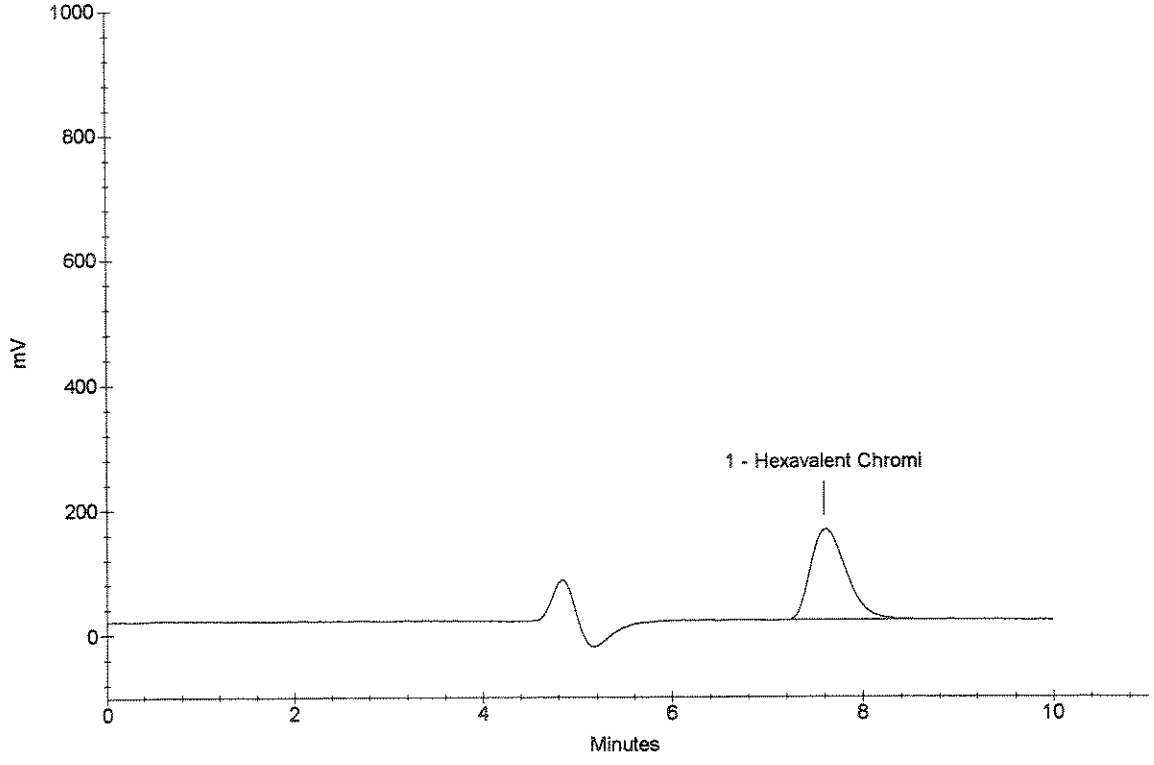
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.60	Hexavalent Chromi	1.1249	3744772

1116367 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116367 SPK
Data File Name : ...\716_058.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:36:29

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

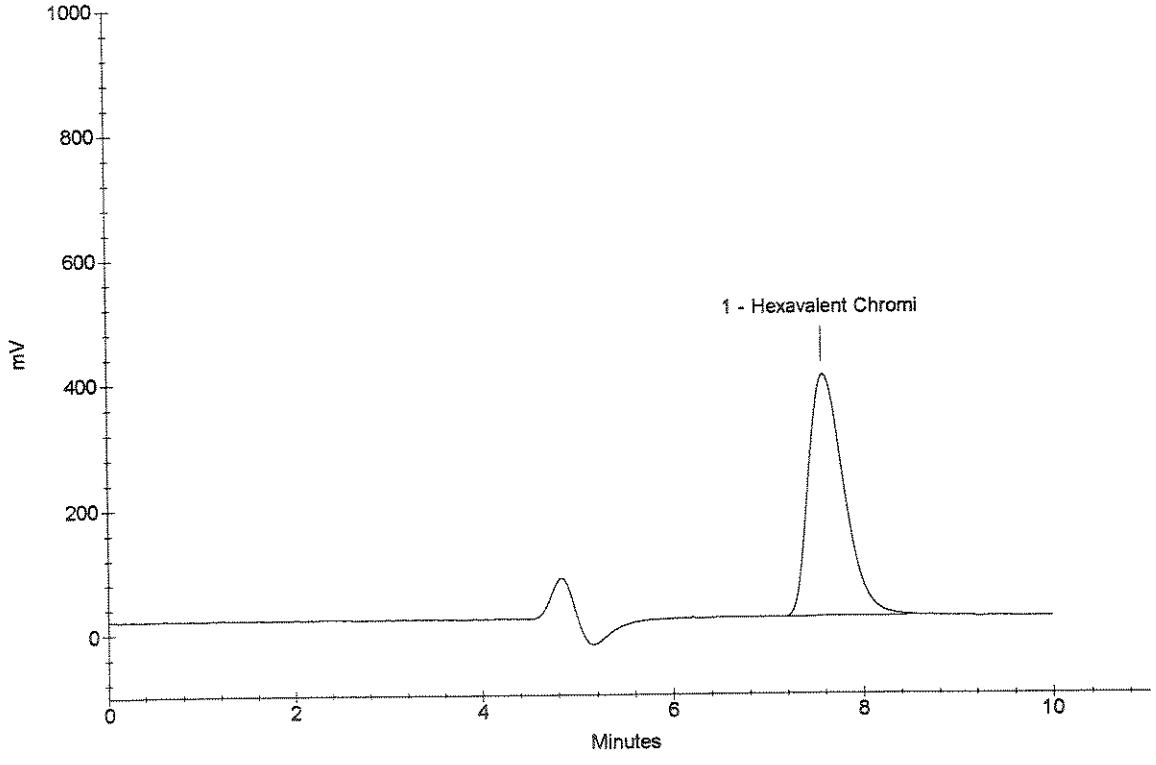
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	2.9953	9958916

1116367 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116370
Data File Name : ...\716_059.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:46:54

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

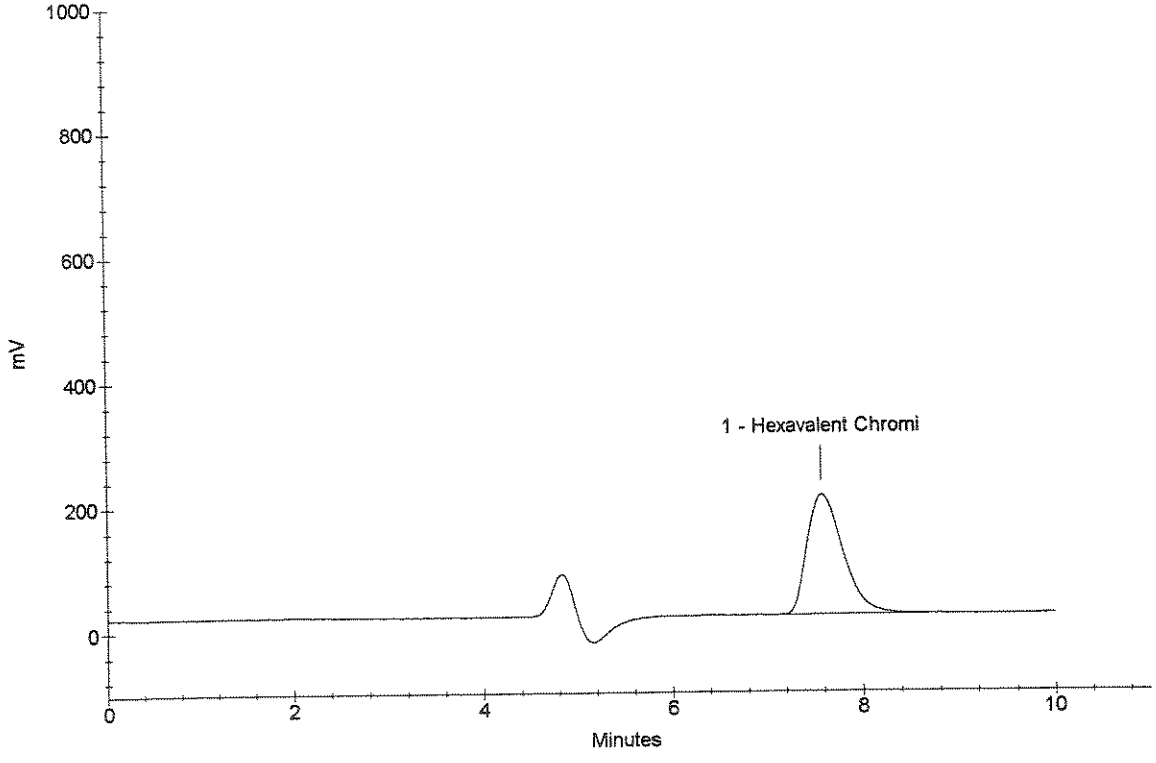
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.58	Hexavalent Chromi	1.4818	4930651

8/18/08

1116370



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116373
Data File Name : ...\716_060.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 20:57:18

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

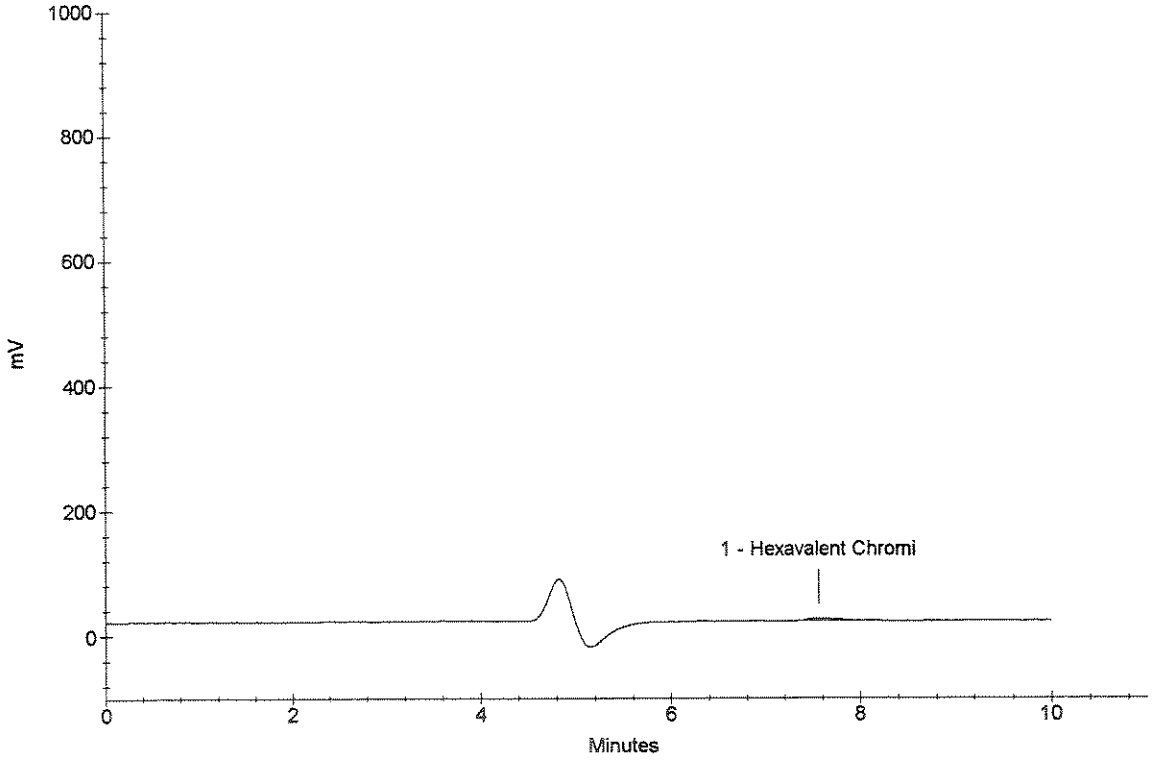
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.56	Hexavalent Chromi	0.0144	55340

OK
7/18/08
1116373



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116921
Data File Name : ...\716_061.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:07:43

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

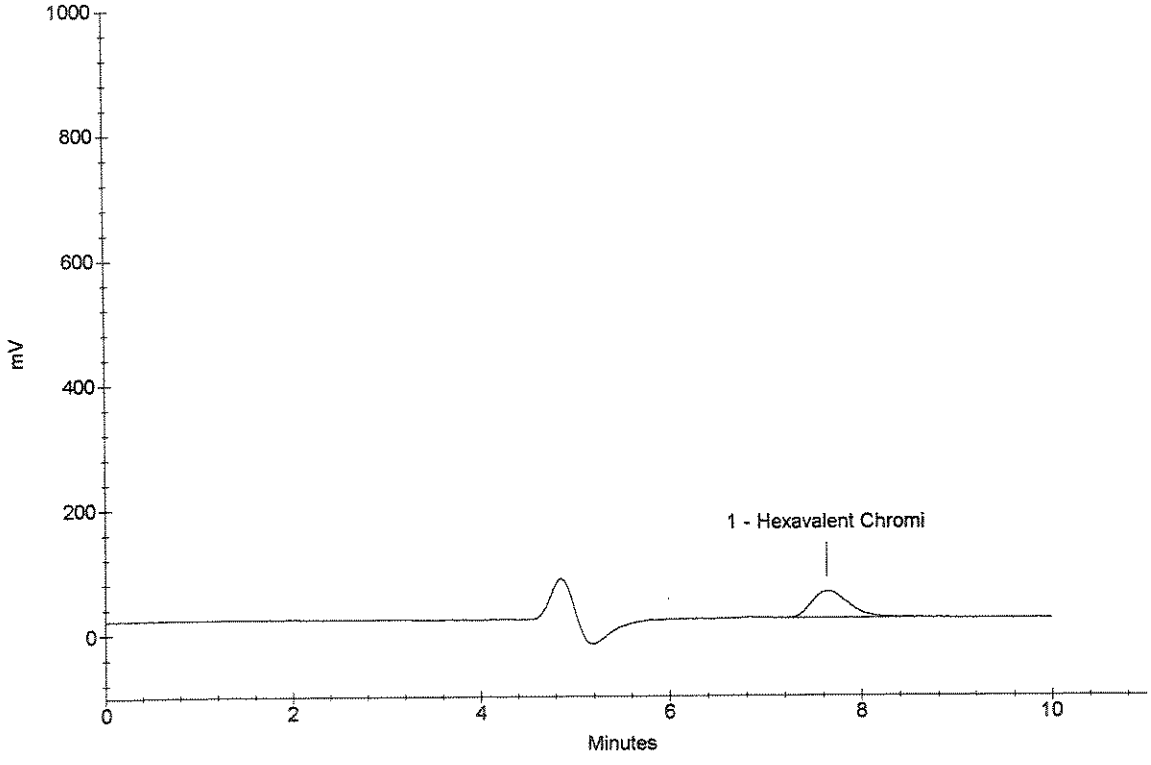
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.3333	1114963

1116921



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116922
Data File Name : ...\716_062.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:18:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

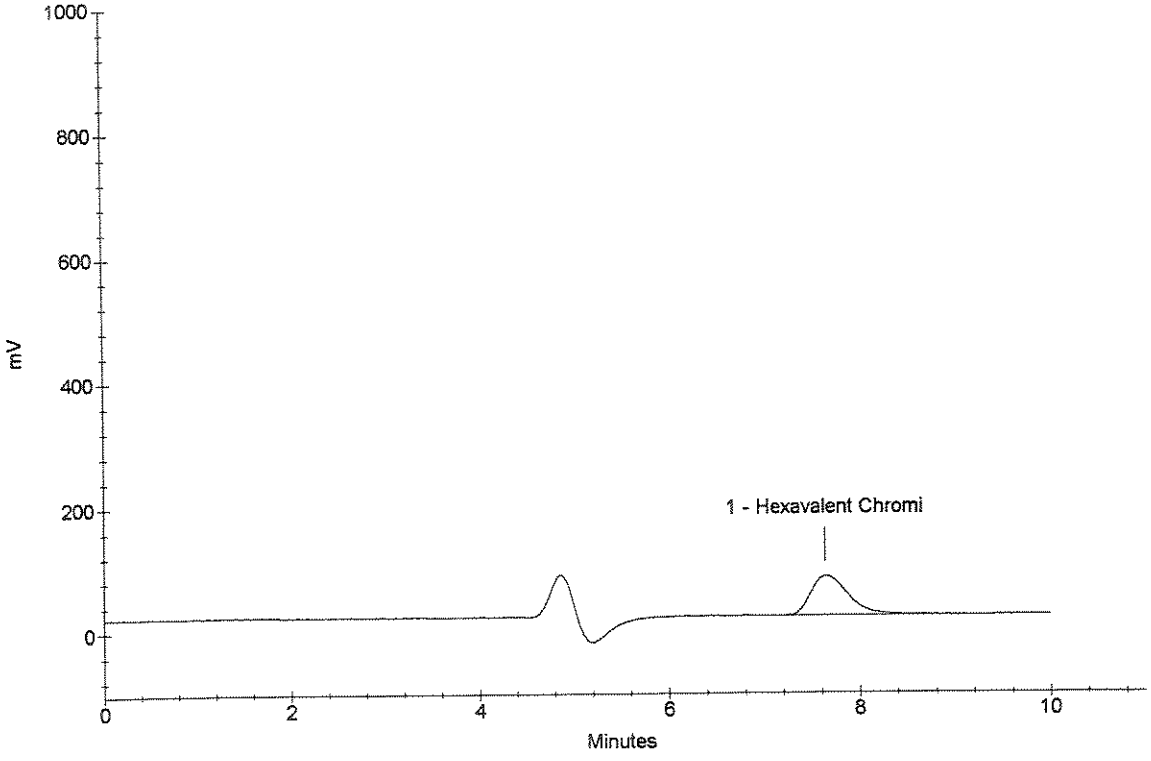
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.64	Hexavalent Chromi	0.5101	1702084

1116922



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117196
Data File Name : ...\716_063.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:28:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

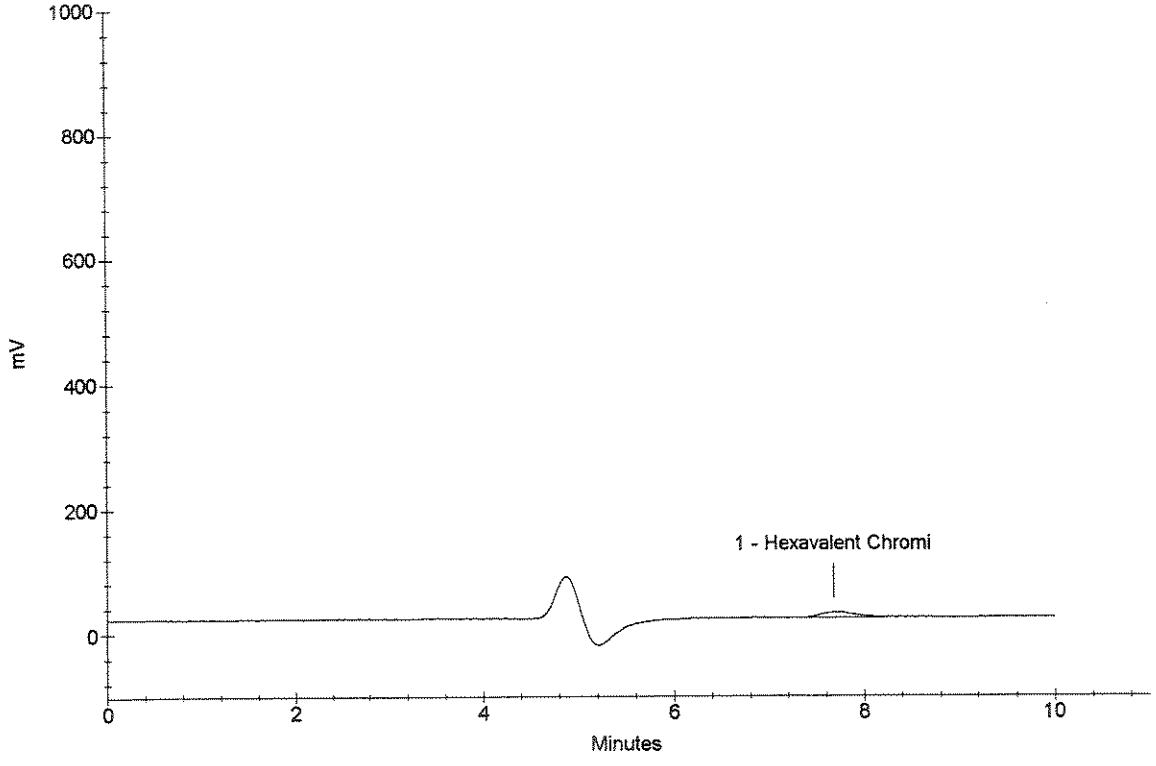
Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.0589	203217

OK
7/17/08
1117196



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117197
Data File Name : ...\716_064.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:38:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 10.00
Sample Type : Sample Analysis
Sample Comment :

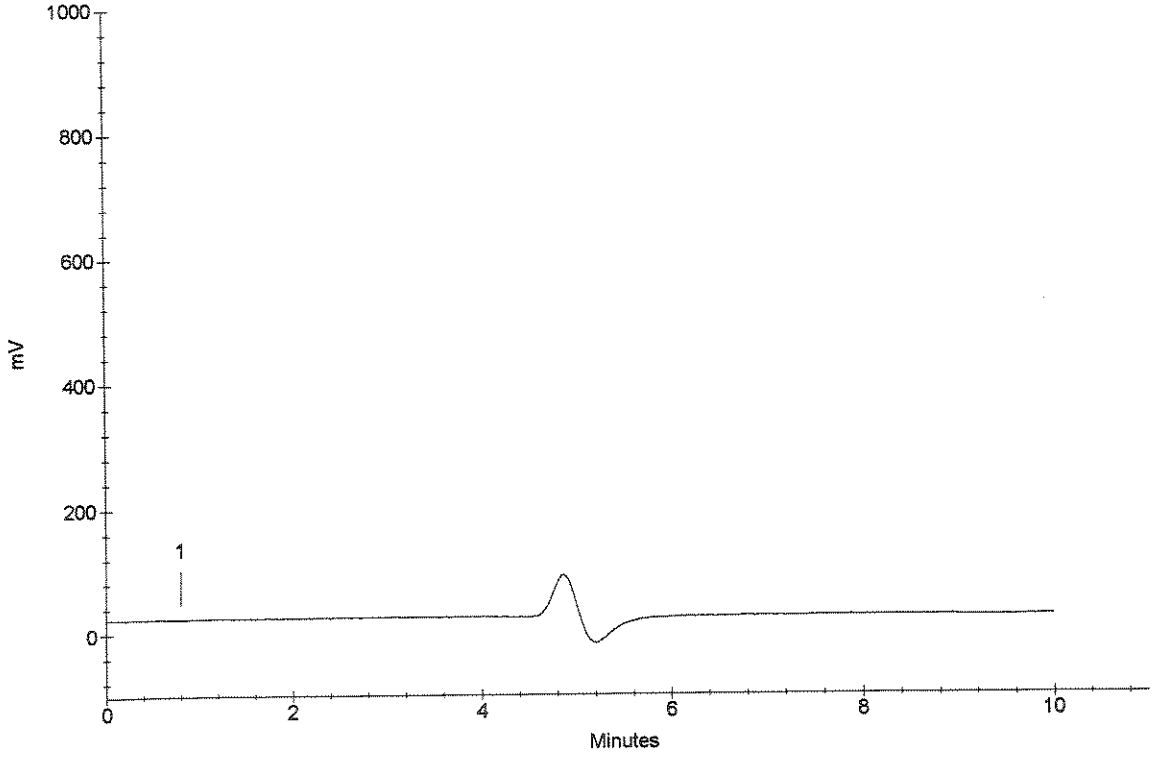
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/18/08

1117197



00867

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\716_065.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:49:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

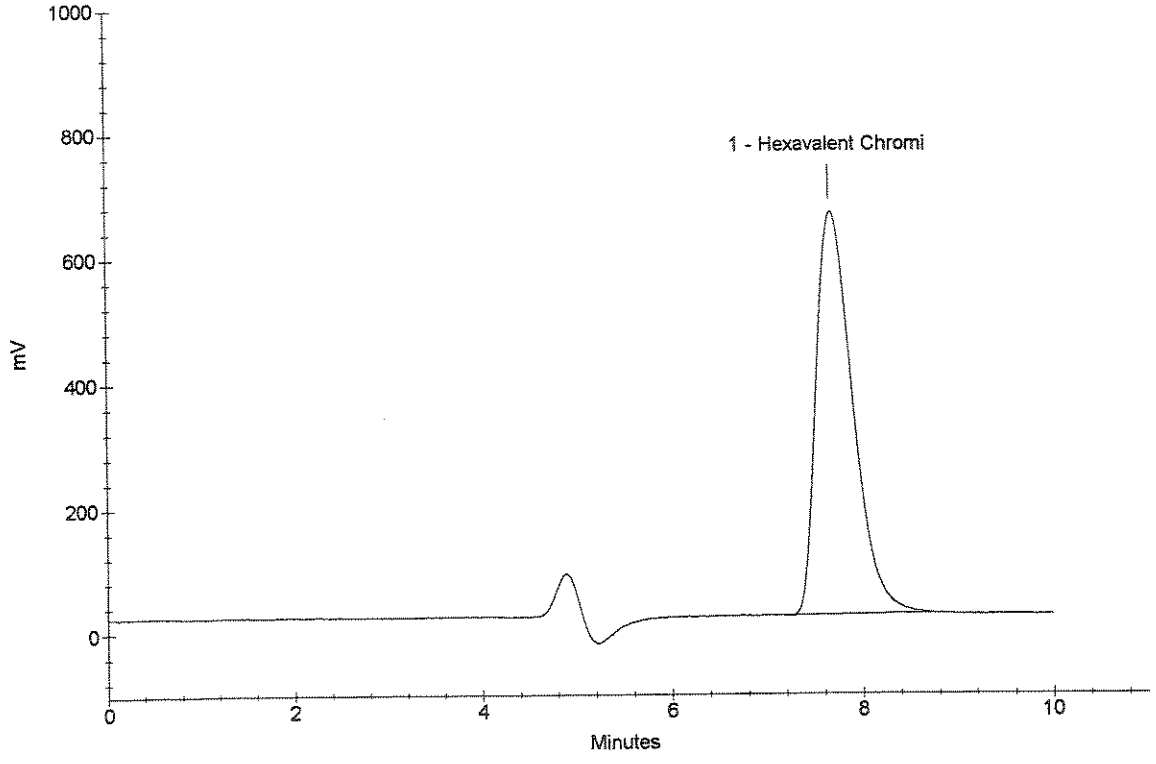
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.5127	17041351

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\716_066.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 21:59:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

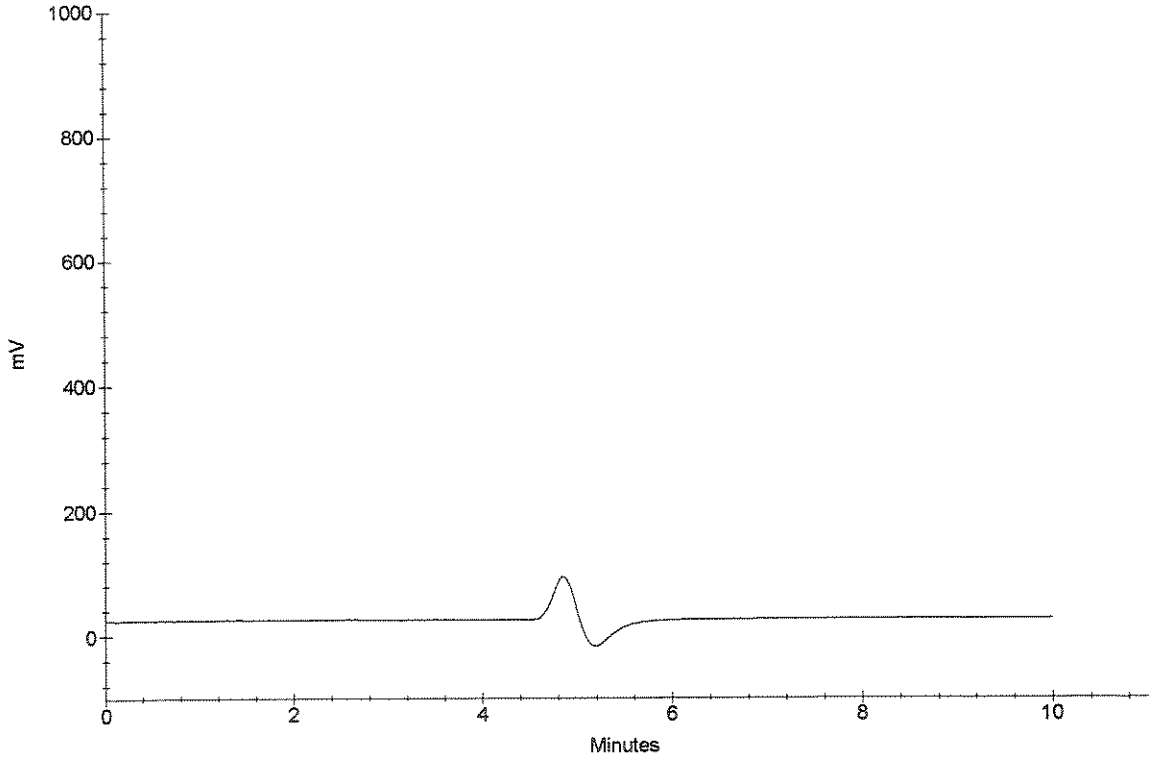
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/16/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065
Data File Name : ...\716_067.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 22:10:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

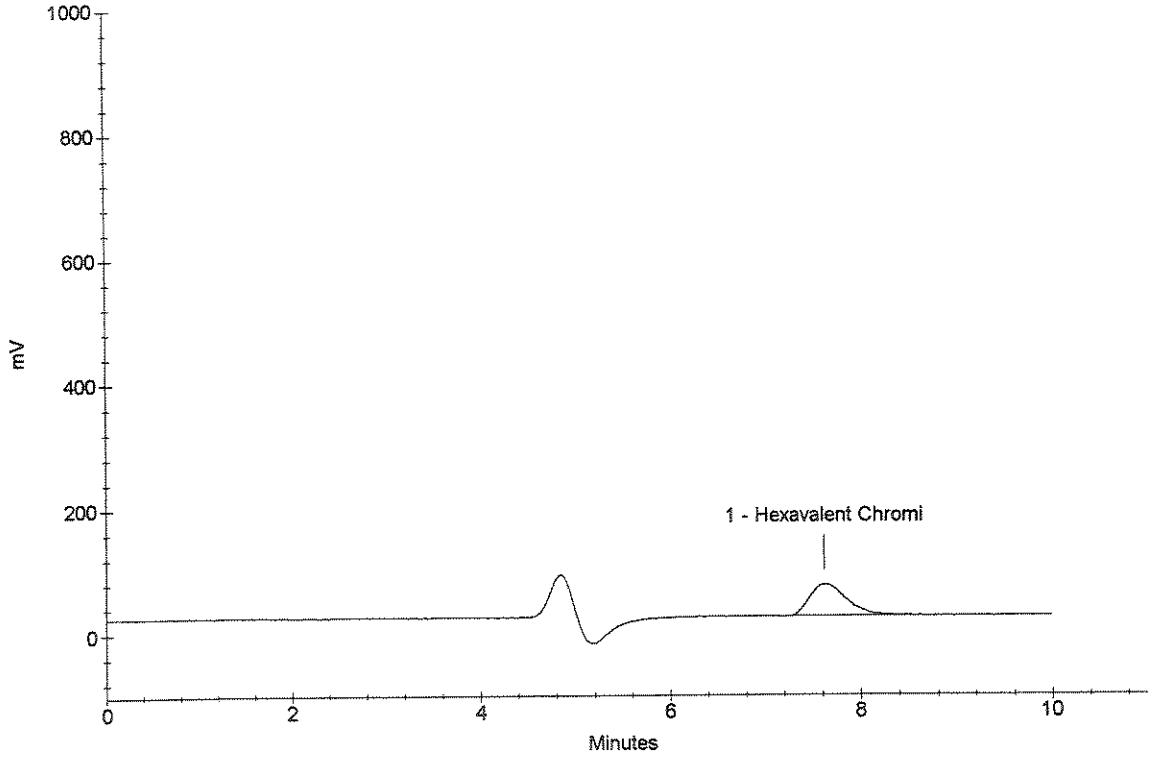
Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.62	Hexavalent Chromi	0.8090	1351316

1112065



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065 DUP
Data File Name : ...\716_068.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 22:20:34

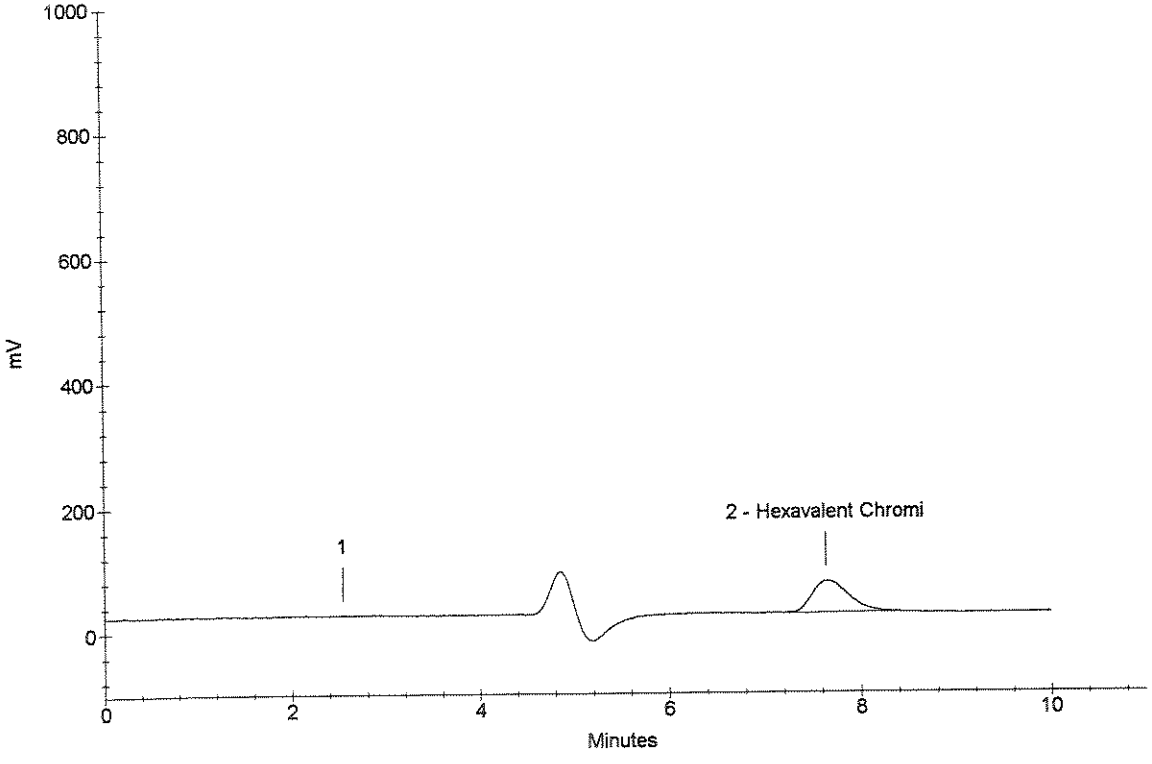
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.64	Hexavalent Chromi	0.8022	1340119



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1112065 SPK
Data File Name : ...\716_069.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 22:30:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 20.00
Sample Type : Sample Analysis
Sample Comment :

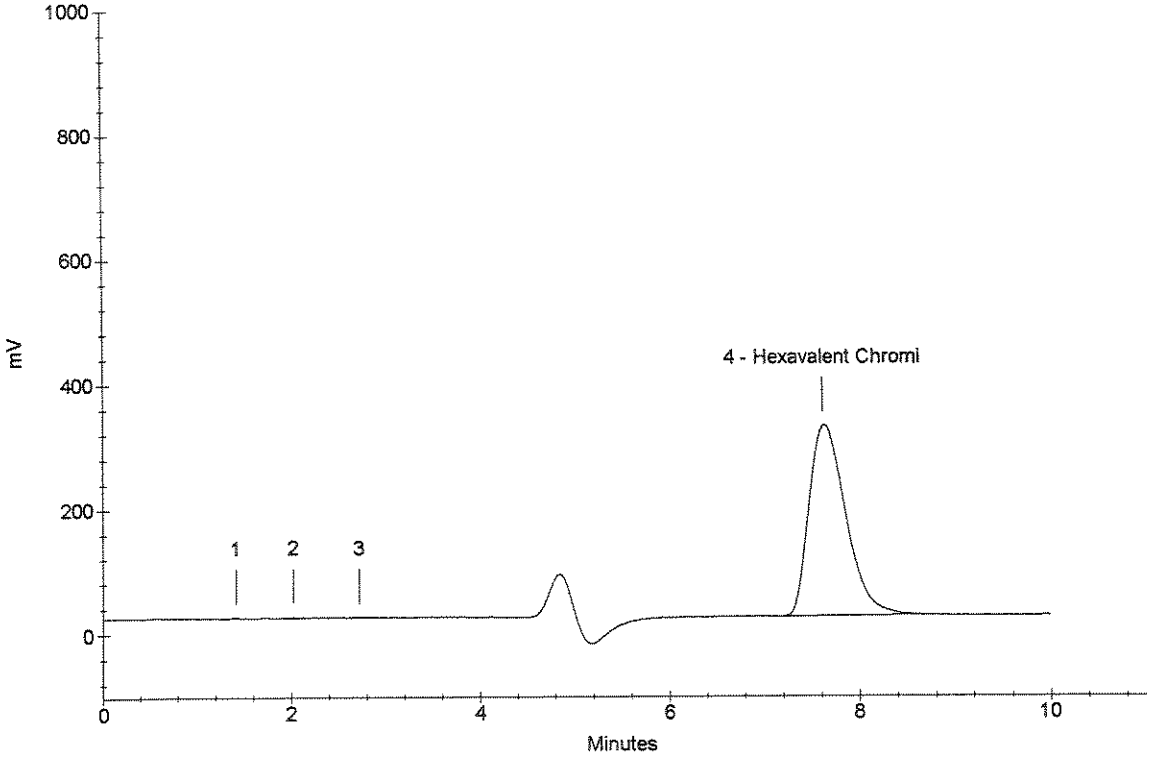
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
4	7.62	Hexavalent Chromi	4.9122	8167520

7/8/08

1112065 SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\716_070.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 09:14:40

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

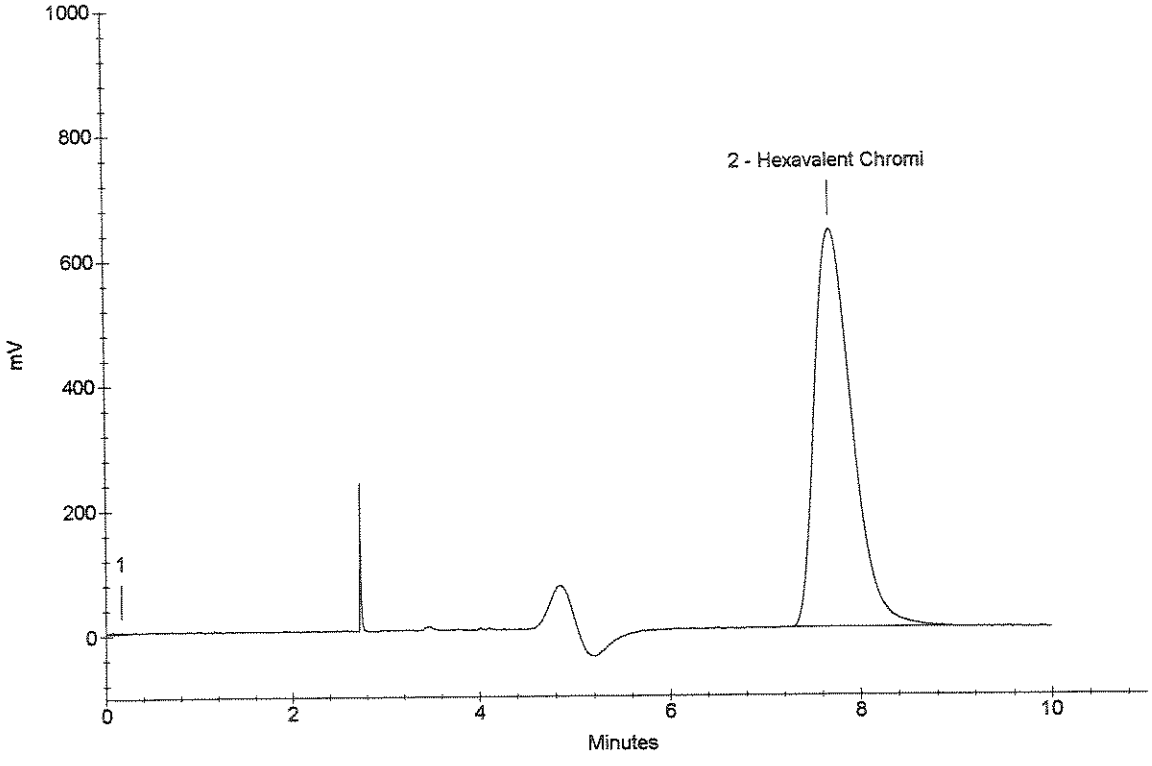
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.70	Hexavalent Chromi	0.5152	17124147

OK
7/17/08
CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\716_071.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 09:25:04

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/15/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

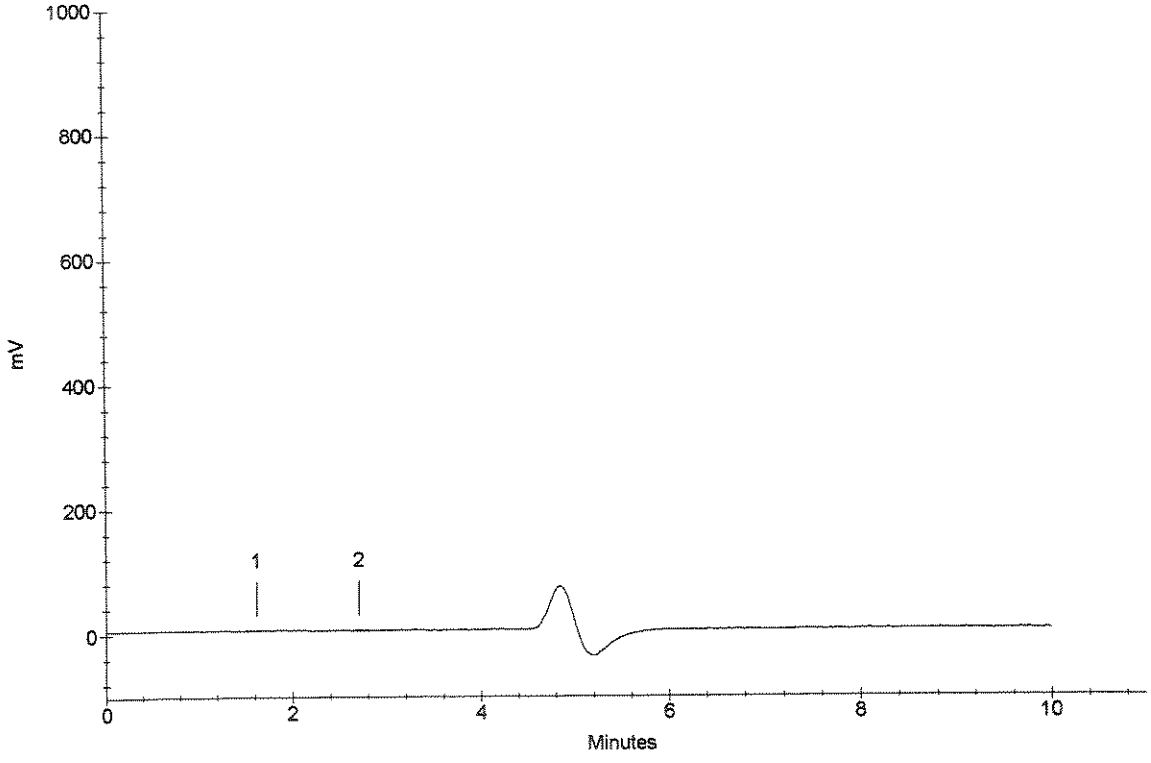
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
8/18/08

CCB



Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1

Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08

Curve Date: 07/16/08 **Loop size:** 100 uL Loop

Analyst: C. Woods **Analysis Date:** 7-16-08

Standards Prep Dates & Log ID's:

Std Type	*Date Rec'd*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Standard Stock	03/~~14~~/07 19	WC76254G		Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/~~14~~/07 19	WC76254G 7/22/08		Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	~~11/28/05~~ 12/13/07	WC85083G 18		I/CCV	Daily	SAME AS WC85001D
LCS / MS Insoluble Stock	01/11/08 Soils Only	WC85095H Soils Only		Insoluble LCS/MS	Daily	SAME AS WC85001C
				Soluble LCS	Daily	SAME AS WC85001E

Comments:

Instrument software prevents analytes with no peak area from being used in the curve calculation. The method requires the use of a zero point, so to ensure the use of our zero, the quanitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

Run #: 164119
Analyte: CR+6 218.6 CR+6 HEX-CHROM BY IC
Printed: 07/21/08 15:00

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	11.7		100.0	0.0100			07/17/08		ASPB
CHK5		1119457	WATER	0.522		1.0	0.0100	104.4		07/17/08		
BLK4		1119458	WATER	0.0100	U	1.0	0.0100			07/17/08		
SPKB		1119460	WATER	0.202		1.0	0.0100	101.3		07/17/08		
ESMP	R2844803	1114420	WATER	12.6		100.0	0.0100			07/17/08		ASPB
ESMP	R2844803	1114421	WATER	13.4		100.0	0.0100			07/17/08	QC	ASPB
LDUP		1119461	WATER	13.5		100.0	0.0100		0.82	07/17/08		
SPK1		1119462	WATER	34.0		100.0	0.0100	102.9		07/17/08		
ESMP	R2844803	1114756	WATER	32.5		100.0	0.0100			07/17/08		ASPB

Records printed: 9

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-717.sch 01-11-08 Data Manually Entered

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
1	CCV	Sample		cr6-716.met	717_001.dxd	1	
2	CCB	Sample		cr6-716.met	717_002.dxd	1	
3	LCS	Sample		cr6-716.met	717_003.dxd	1	
4	1114756	Sample		cr6-716.met	717_004.dxd	100	
5	1114419	Sample		cr6-716.met	717_005.dxd	100	
6	1114420	Sample		cr6-716.met	717_006.dxd	100	
7	1114421	Sample		cr6-716.met	717_007.dxd	100	
8	1114421 DUP	Sample		cr6-716.met	717_008.dxd	100	
9	1114421 SPK	Sample		cr6-716.met	717_009.dxd	100	
10	CCV	Sample		cr6-716.met	717_010.dxd	1	
11	CCB	Sample		cr6-716.met	717_011.dxd	1	
12	PREP BLK SOIL	Sample		cr6-716.met	717_012.dxd	1	
13	PREP BLK SOIL	Sample		cr6-716.met	717_013.dxd	1	
14	LCS SOIL	Sample		cr6-716.met	717_014.dxd	40	
15	LCS SOIL	Sample		cr6-716.met	717_015.dxd	40	
16	1115736	Sample		cr6-716.met	717_016.dxd	1	
17	1115736	Sample		cr6-716.met	717_017.dxd	1	
18	1115737	Sample		cr6-716.met	717_018.dxd	1	
19	1115737	Sample		cr6-716.met	717_019.dxd	1	
20	1115738	Sample		cr6-716.met	717_020.dxd	1	
21	1115738	Sample		cr6-716.met	717_021.dxd	1	
22	1115739	Sample		cr6-716.met	717_022.dxd	1	
23	1115739	Sample		cr6-716.met	717_023.dxd	1	
24	1116251	Sample		cr6-716.met	717_024.dxd	1	
25	1116251	Sample		cr6-716.met	717_025.dxd	1	
26	1116253	Sample		cr6-716.met	717_026.dxd	1	
27	1116253	Sample		cr6-716.met	717_027.dxd	1	
28	1116254	Sample		cr6-716.met	717_028.dxd	1	
29	1116254	Sample		cr6-716.met	717_029.dxd	1	
30	1116255	Sample		cr6-716.met	717_030.dxd	1	
31	1116255	Sample		cr6-716.met	717_031.dxd	1	
32	1116256	Sample		cr6-716.met	717_032.dxd	1	
33	1116256	Sample		cr6-716.met	717_033.dxd	1	
34	1116257	Sample		cr6-716.met	717_034.dxd	1	
35	1116257	Sample		cr6-716.met	717_035.dxd	1	
36	1116257 DUP	Sample		cr6-716.met	717_036.dxd	1	
37	1116257 DUP	Sample		cr6-716.met	717_037.dxd	1	
38	1116257 SOL	Sample		cr6-716.met	717_038.dxd	2	
39	1116257 SOL	Sample		cr6-716.met	717_039.dxd	2	
40	1116257 INSOL	Sample		cr6-716.met	717_040.dxd	40	
41	1116257 INSOL	Sample		cr6-716.met	717_041.dxd	40	
42	1116257 PVS	Sample		cr6-716.met	717_042.dxd	2	
43	1116257 PVS	Sample		cr6-716.met	717_043.dxd	2	
44	CCV	Sample		cr6-716.met	717_044.dxd	1	
45	CCB	Sample		cr6-716.met	717_045.dxd	1	

Analyst: CWOODS
Pipets: E2, Ty, Mine

4 copies: 44803, 44862, 44885, 44902

Reviewed & Approved
By: BBowe
Date: 7/23/08

J-1505

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-717.sch

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
46	PREP BLK SOIL	Sample		cr6-716.met	717_046.dxd	1	DIGESTED 7/16/08
47	PREP BLK SOIL	Sample		cr6-716.met	717_047.dxd	1	DIGESTED 7/16/08
48	LCS SOIL	Sample		cr6-716.met	717_048.dxd	40	DIGESTED 7/16/08
49	LCS SOIL	Sample		cr6-716.met	717_049.dxd	40	DIGESTED 7/16/08
50	1116258	Sample		cr6-716.met	717_050.dxd	1	
51	1116258	Sample		cr6-716.met	717_051.dxd	1	
52	1116258 DUP	Sample		cr6-716.met	717_052.dxd	1	
53	1116258 DUP	Sample		cr6-716.met	717_053.dxd	1	
54	1116258 SOL SPK	Sample		cr6-716.met	717_054.dxd	2	
55	1116258 SOL SPK	Sample		cr6-716.met	717_055.dxd	2	
56	1116258 INSOL SPK	Sample		cr6-716.met	717_056.dxd	40	
57	1116258 INSOL SPK	Sample		cr6-716.met	717_057.dxd	40	
58	1116258 PVS	Sample		cr6-716.met	717_058.dxd	2	
59	1116258 PVS	Sample		cr6-716.met	717_059.dxd	2	
60	1116264	Sample		cr6-716.met	717_060.dxd	1	
61	1116264	Sample		cr6-716.met	717_061.dxd	1	
62	1116265	Sample		cr6-716.met	717_062.dxd	1	
63	1116265	Sample		cr6-716.met	717_063.dxd	1	
64	1116267	Sample		cr6-716.met	717_064.dxd	1	
65	1116267	Sample		cr6-716.met	717_065.dxd	1	
66	1116269	Sample		cr6-716.met	717_066.dxd	1	
67	1116269	Sample		cr6-716.met	717_067.dxd	1	
68	1116271	Sample		cr6-716.met	717_068.dxd	1	
69	1116271	Sample		cr6-716.met	717_069.dxd	1	
70	1116273	Sample		cr6-716.met	717_070.dxd	1	
71	1116273	Sample		cr6-716.met	717_071.dxd	1	
72	1116274	Sample		cr6-716.met	717_072.dxd	1	
73	1116274	Sample		cr6-716.met	717_073.dxd	1	
74	1116275	Sample		cr6-716.met	717_074.dxd	1	
75	1116275	Sample		cr6-716.met	717_075.dxd	1	
76	1116276	Sample		cr6-716.met	717_076.dxd	1	
77	1116276	Sample		cr6-716.met	717_077.dxd	1	
78	CCV	Sample		cr6-716.met	717_078.dxd	1	
79	CCB	Sample		cr6-716.met	717_079.dxd	1	
80	1116277	Sample		cr6-716.met	717_080.dxd	1	
81	1116277	Sample		cr6-716.met	717_081.dxd	1	
82	1116278	Sample		cr6-716.met	717_082.dxd	1	
83	1116278	Sample		cr6-716.met	717_083.dxd	1	
84	1116279	Sample		cr6-716.met	717_084.dxd	1	
85	1116279	Sample		cr6-716.met	717_085.dxd	1	
86	1116802	Sample		cr6-716.met	717_086.dxd	1	
87	1116802	Sample		cr6-716.met	717_087.dxd	1	
88	1116802 DUP	Sample		cr6-716.met	717_088.dxd	1	
89	1116802 DUP	Sample		cr6-716.met	717_089.dxd	1	
90	1116802 SOL SPK	Sample		cr6-716.met	717_090.dxd	2	

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-717.sch

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
91	1116802 SOL SPK	Sample		cr6-716.met	717_091.dxd	2	
92	1116802 INSOL SPK	Sample		cr6-716.met	717_092.dxd	40	
93	1116802 INSOL SPK	Sample		cr6-716.met	717_093.dxd	40	
94	1116802 PVS	Sample		cr6-716.met	717_094.dxd	2	
95	1116802 PVS	Sample		cr6-716.met	717_095.dxd	2	
96	1116803	Sample		cr6-716.met	717_096.dxd	1	
97	1116803	Sample		cr6-716.met	717_097.dxd	1	
98	1116804	Sample		cr6-716.met	717_098.dxd	1	
99	1116804	Sample		cr6-716.met	717_099.dxd	1	
100	1116805	Sample		cr6-716.met	717_100.dxd	1	
101	1116805	Sample		cr6-716.met	717_101.dxd	1	
102	1116806	Sample		cr6-716.met	717_102.dxd	1	
103	1116806	Sample		cr6-716.met	717_103.dxd	1	
104	1116807	Sample		cr6-716.met	717_104.dxd	1	
105	1116807	Sample		cr6-716.met	717_105.dxd	1	
106	1116808	Sample		cr6-716.met	717_106.dxd	1	
107	1116808	Sample		cr6-716.met	717_107.dxd	1	
108	CCV	Sample		cr6-716.met	717_108.dxd	1	
109	CCB	Sample		cr6-716.met	717_109.dxd	1	
110	PREP BLANK SOIL	Sample		cr6-716.met	717_110.dxd	1	
111	PREP BLANK SOIL	Sample		cr6-716.met	717_111.dxd	1	All samples to end of run need re-digest BB 7/24/08
112	LCS SOIL	Sample		cr6-716.met	717_112.dxd	40	
113	LCS SOIL	Sample		cr6-716.met	717_113.dxd	40	
114	1116809	Sample		cr6-716.met	717_114.dxd	1	
115	1116809	Sample		cr6-716.met	717_115.dxd	1	
116	1116809 DUP	Sample		cr6-716.met	717_116.dxd	1	
117	1116809 DUP	Sample		cr6-716.met	717_117.dxd	1	
118	1116809 SOL	Sample		cr6-716.met	717_118.dxd	2	
119	1116809 SOL	Sample		cr6-716.met	717_119.dxd	2	
120	1116809 INSOL	Sample		cr6-716.met	717_120.dxd	40	
121	1116809 INSOL	Sample		cr6-716.met	717_121.dxd	40	
122	1116809 PVS	Sample		cr6-716.met	717_122.dxd	2	
123	1116809 PVS	Sample		cr6-716.met	717_123.dxd	2	
124	1116810	Sample		cr6-716.met	717_124.dxd	1	
125	1116810	Sample		cr6-716.met	717_125.dxd	1	
126	1116811	Sample		cr6-716.met	717_126.dxd	1	
127	1116811	Sample		cr6-716.met	717_127.dxd	1	
128	1116812	Sample		cr6-716.met	717_128.dxd	1	
129	1116812	Sample		cr6-716.met	717_129.dxd	1	
130	1116813	Sample		cr6-716.met	717_130.dxd	1	
131	1116813	Sample		cr6-716.met	717_131.dxd	1	
132	1116814	Sample		cr6-716.met	717_132.dxd	1	
133	1116814	Sample		cr6-716.met	717_133.dxd	1	
134	1116815	Sample		cr6-716.met	717_134.dxd	1	
135	1116815	Sample		cr6-716.met	717_135.dxd	1	

Schedule File: J:\ACQUDATA\IC\SCHEDULE\IC#1\As-7\As7-717.sch

Line	Sample	Sample Type	Level	Method	Data File	Dilution	Comment
136	1116816	Sample		cr6-716.met	717_136.dxd	1	
137	1116816	Sample		cr6-716.met	717_137.dxd	1	
138	1116817	Sample		cr6-716.met	717_138.dxd	1	
139	1116817	Sample		cr6-716.met	717_139.dxd	1	
140	1116818	Sample		cr6-716.met	717_140.dxd	1	
141	1116818	Sample		cr6-716.met	717_141.dxd	1	
142	1116819	Sample		cr6-716.met	717_142.dxd	1	
143	1116819	Sample		cr6-716.met	717_143.dxd	1	
144	1117272	Sample		cr6-716.met	717_144.dxd	1	
145	1117272	Sample		cr6-716.met	717_145.dxd	1	
146	1117273	Sample		cr6-716.met	717_146.dxd	1	
147	1117273	Sample		cr6-716.met	717_147.dxd	1	
148	CCV	Sample		cr6-716.met	717_148.dxd	1	
149	CCB	Sample		cr6-716.met	717_149.dxd	1	

Not reported
BB 7/24/08

Default Method Path: J:\ACQUDATA\IC\METHOD.ACI\IC#1\CR6
Default Data Path: J:\ACQUDATA\IC\DATA\IC#1\CR6\071708
Comment:

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: C. Woods

Date: 7-17-08

Hexavalent Chromium: Method 7199 (Method 218.6)

Submission Number	Sample ID	Sample pH	Analysis Date
R-44803	1114419	9.42	7/17/08
	1114420	9.41	7/17/08
	1114421	9.42	7/17/08
	1114756	9.39	7/17/08

*Note: Sample pH must be between 9.3 and 9.7 for analysis. pH is taken just prior to analysis.

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115737
Data File Name : ...\717_018.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 12:21:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

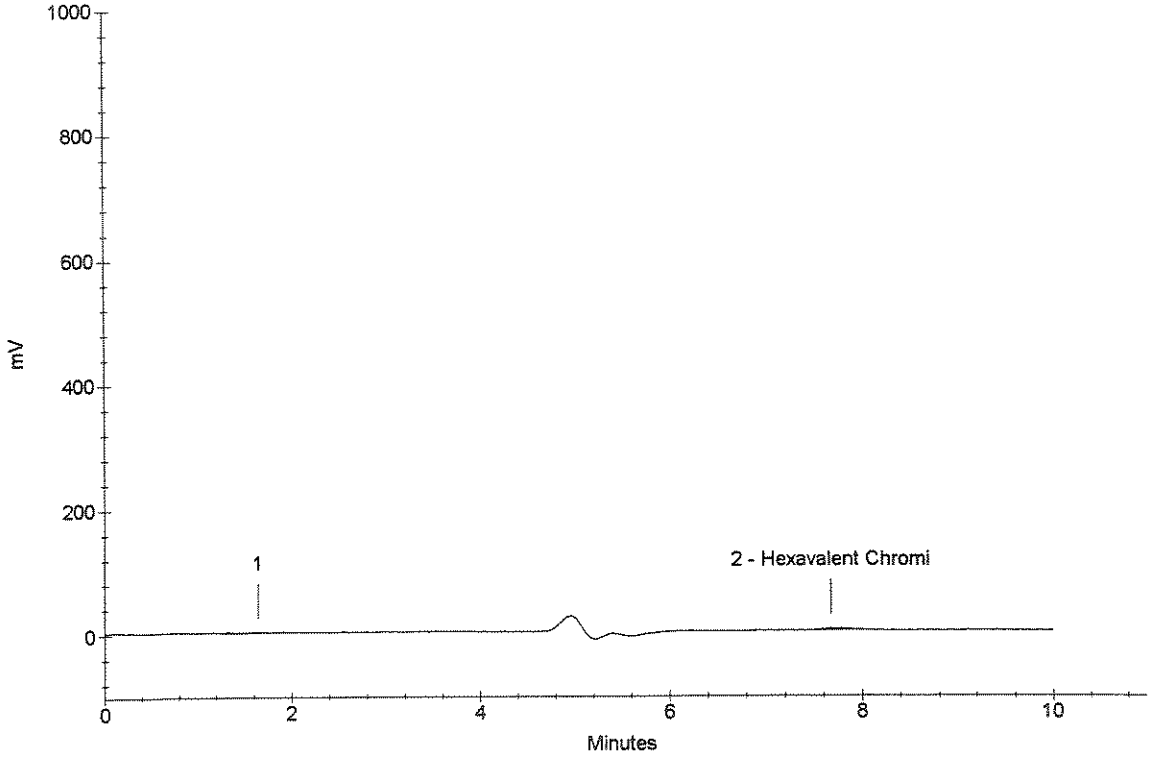
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.68	Hexavalent Chromi	0.0015	56617

7/17/08 L x 100/2.49 = 0.0602

1115737



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115737
Data File Name : ...\717_019.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 12:32:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

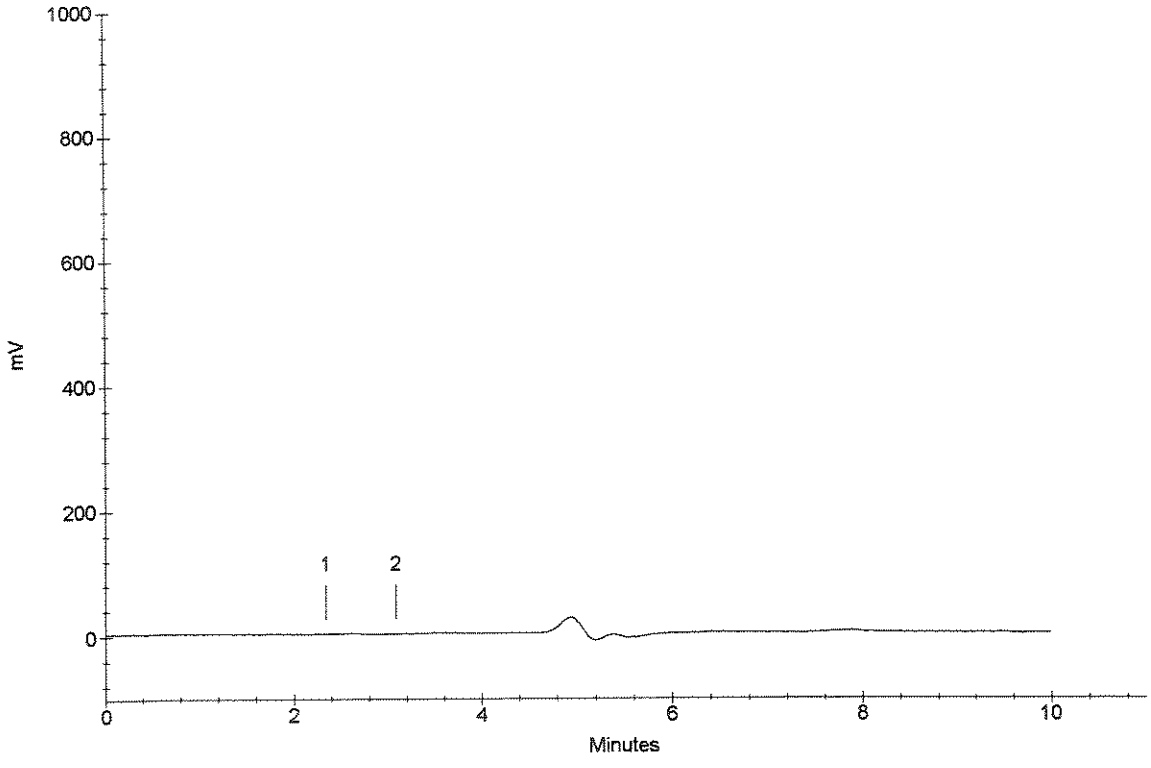
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

ok
7/17/08

1115737



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115738
Data File Name : ...\717_020.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 12:42:33

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

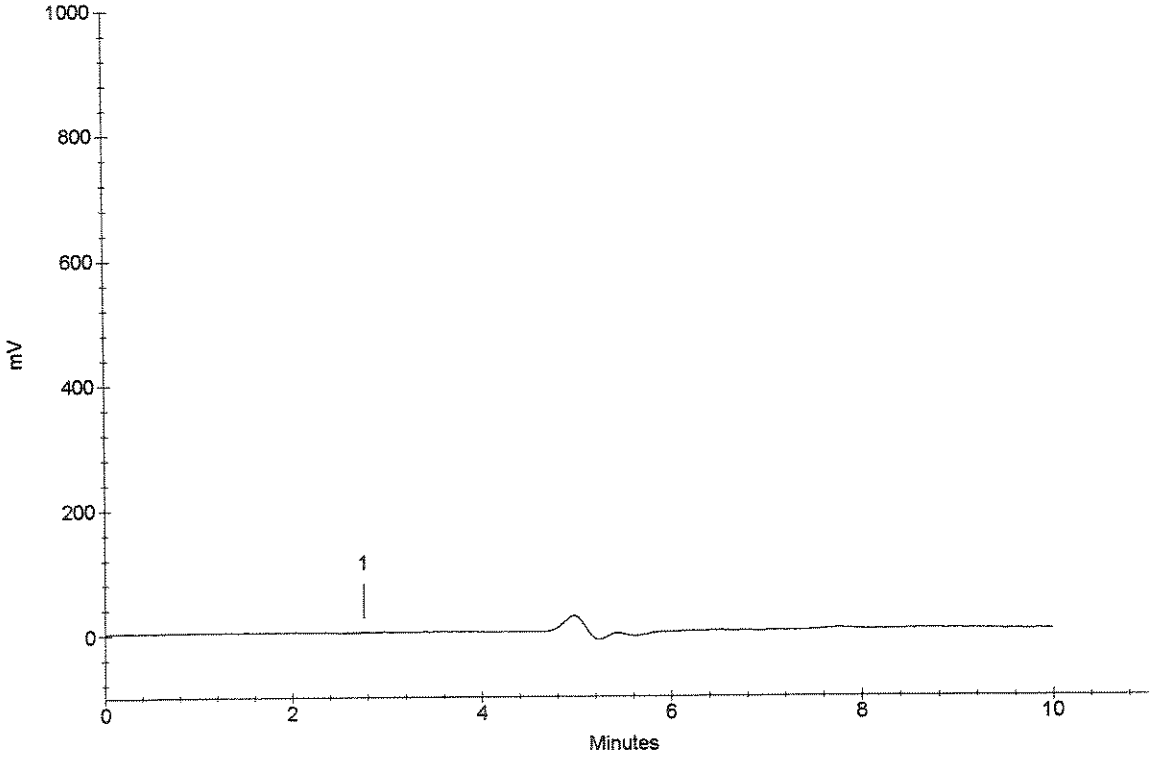
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

ok
7/17/08

1115738



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115738
Data File Name : ...\717_021.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 12:52:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

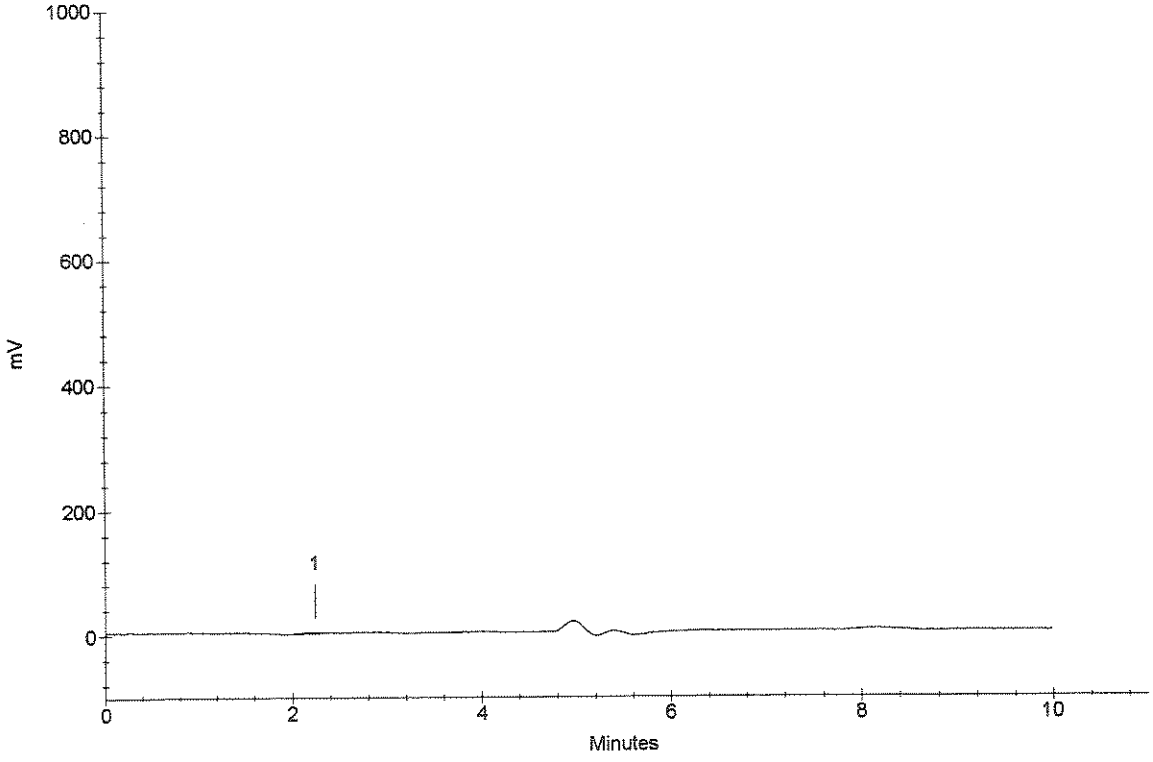
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CK 7/17/08

1115738



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115739
Data File Name : ...\717_022.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:03:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

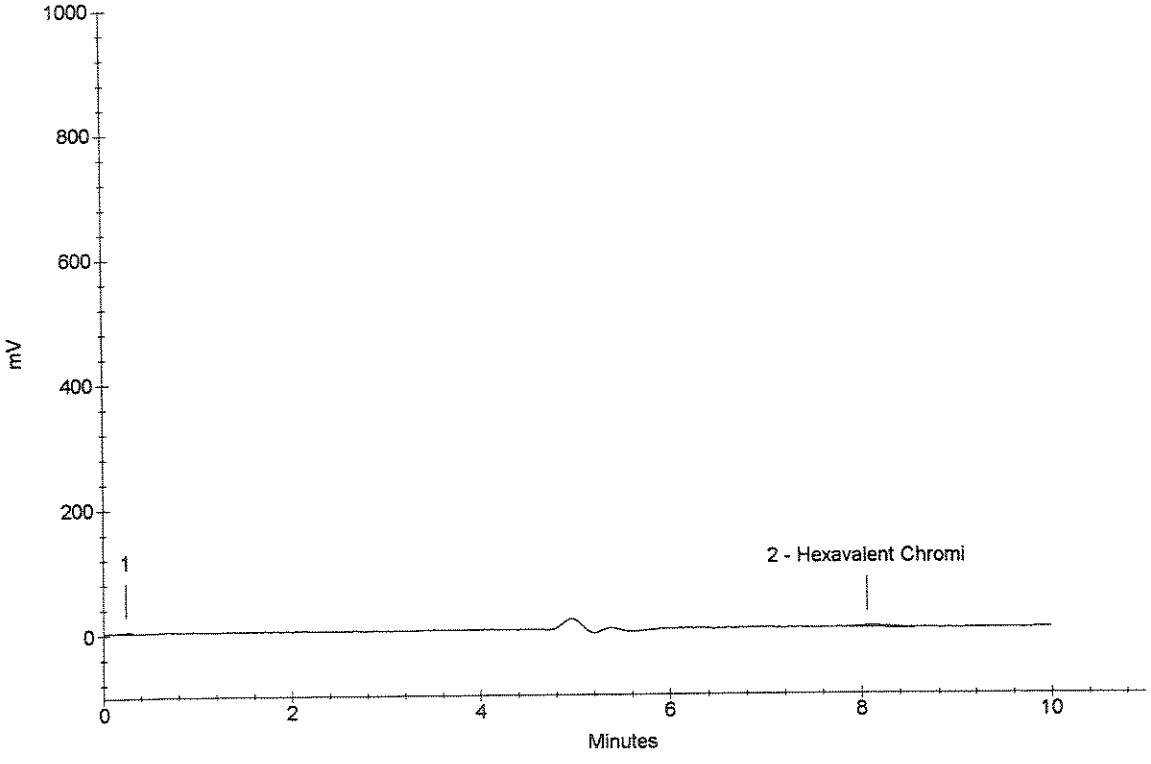
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.06	Hexavalent Chromi OK	0.0022	79090

7/17/08 1115739 L x 100/2.49 = 0.0884



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1115739
Data File Name : ...\717_023.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:13:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

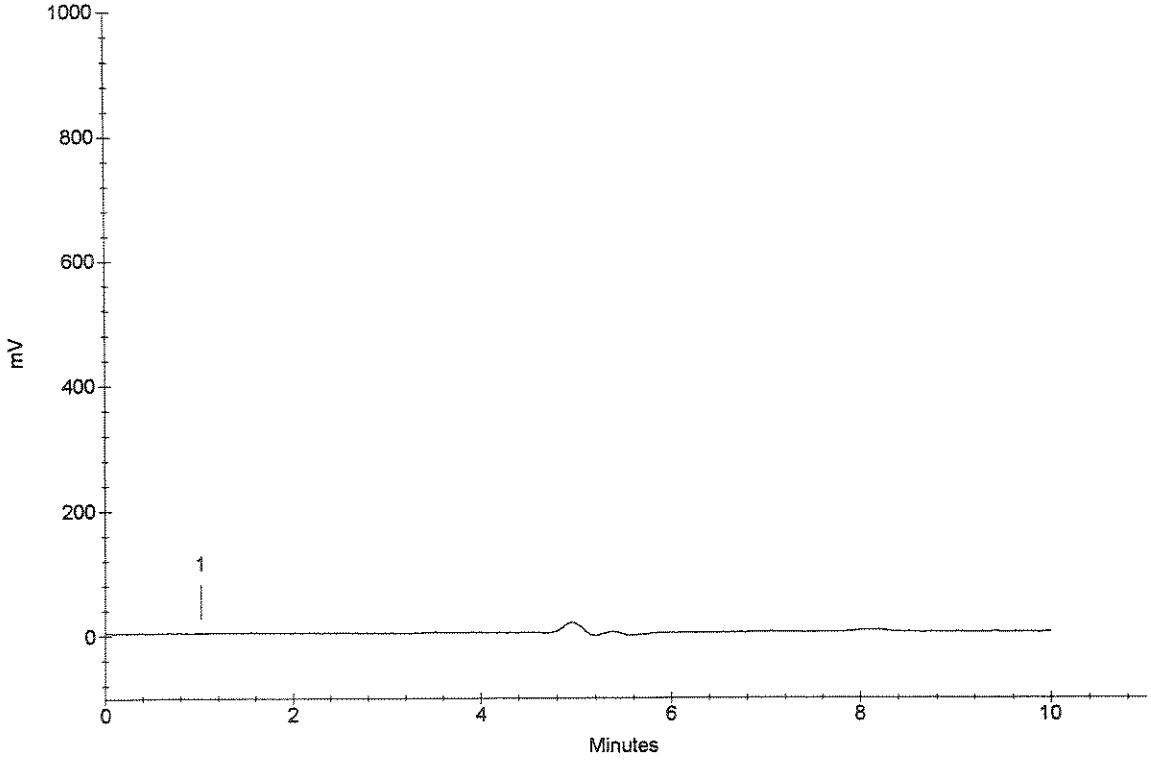
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08

1115739



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116251
Data File Name : ...\717_024.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:24:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

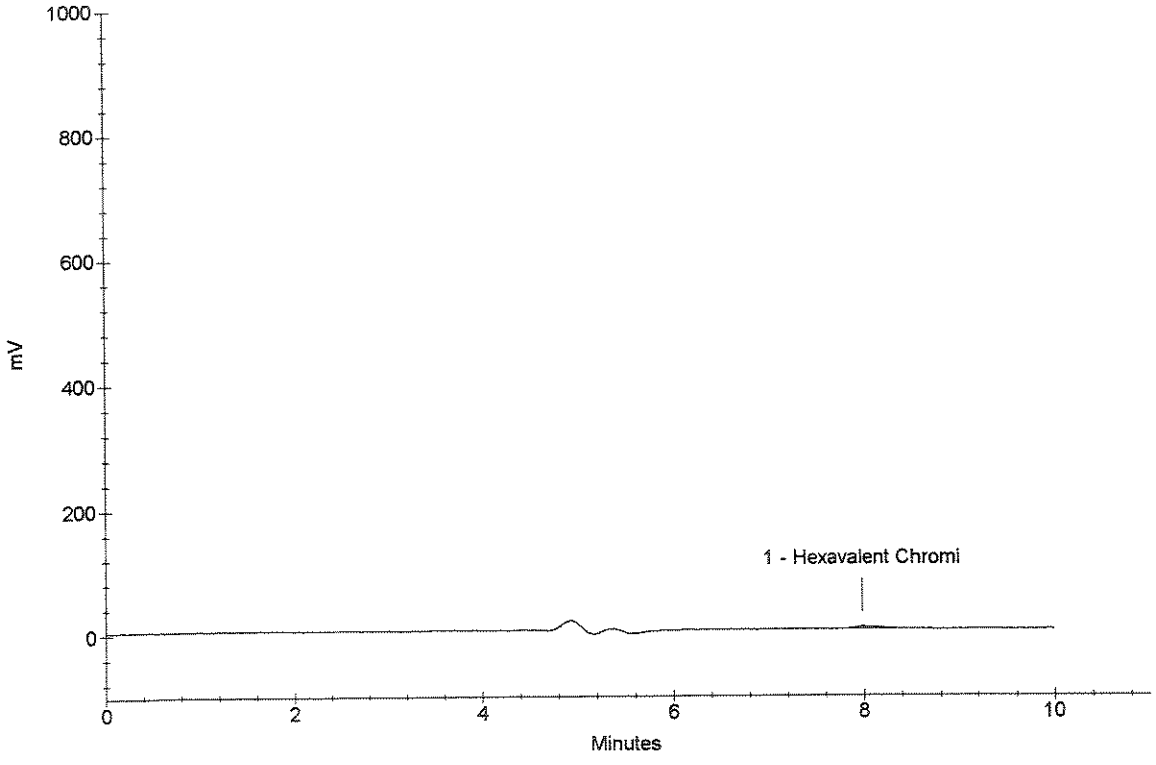
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.98	Hexavalent Chromi	0.0016	60324

OK 7/13/08

1116251

$1 \times \frac{100}{2.50} = 0.0640$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116251
Data File Name : ...\717_025.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:34:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

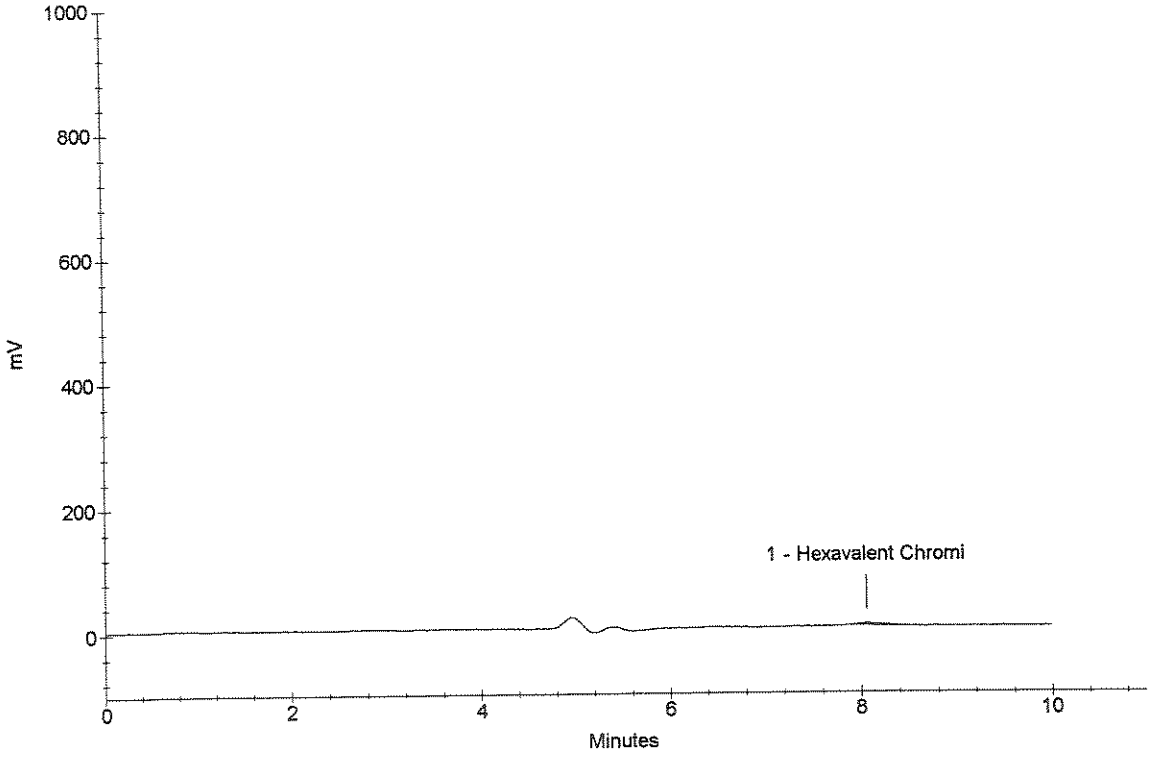
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	0.0012	47859

OK 7/17/08 1116251

$1 \times \frac{100}{250} = 0.0480$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116253
Data File Name : ...\717_026.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:44:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

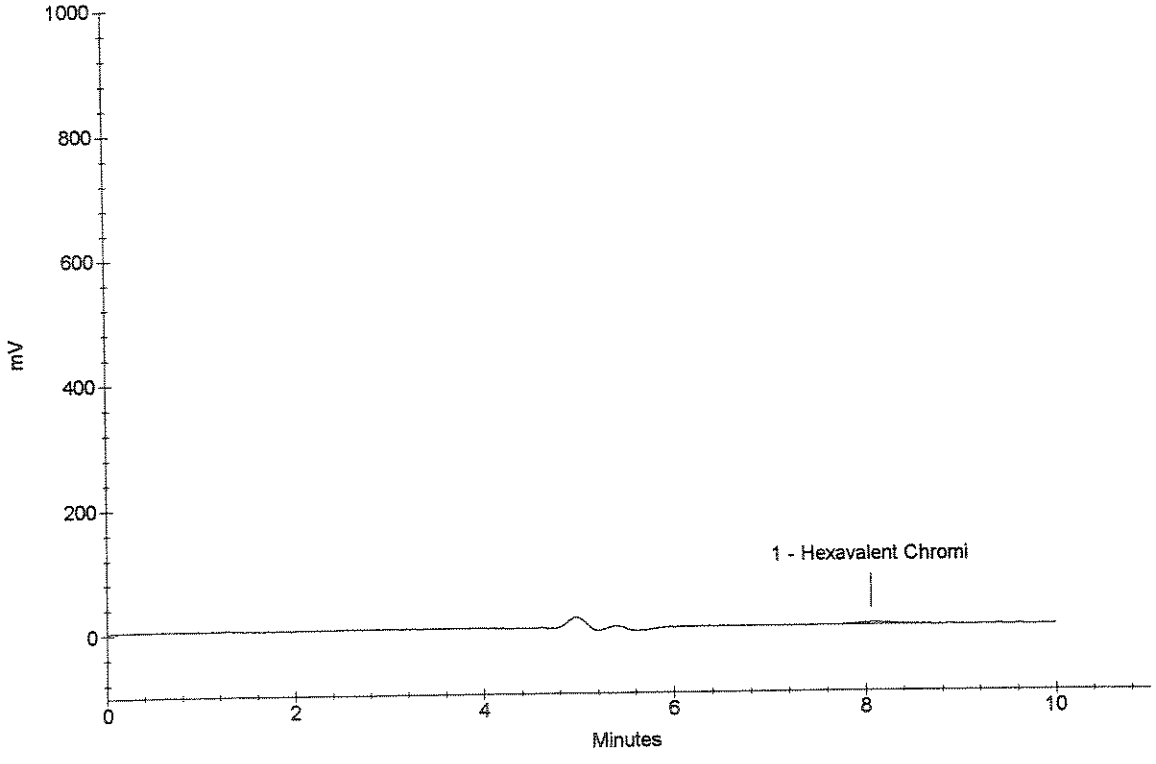
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi OK	0.0023	82835

7/17/08 1116253 $\frac{L}{2.51} \times 100 = 0.0916$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116253
Data File Name : ...\717_027.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 13:55:19

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

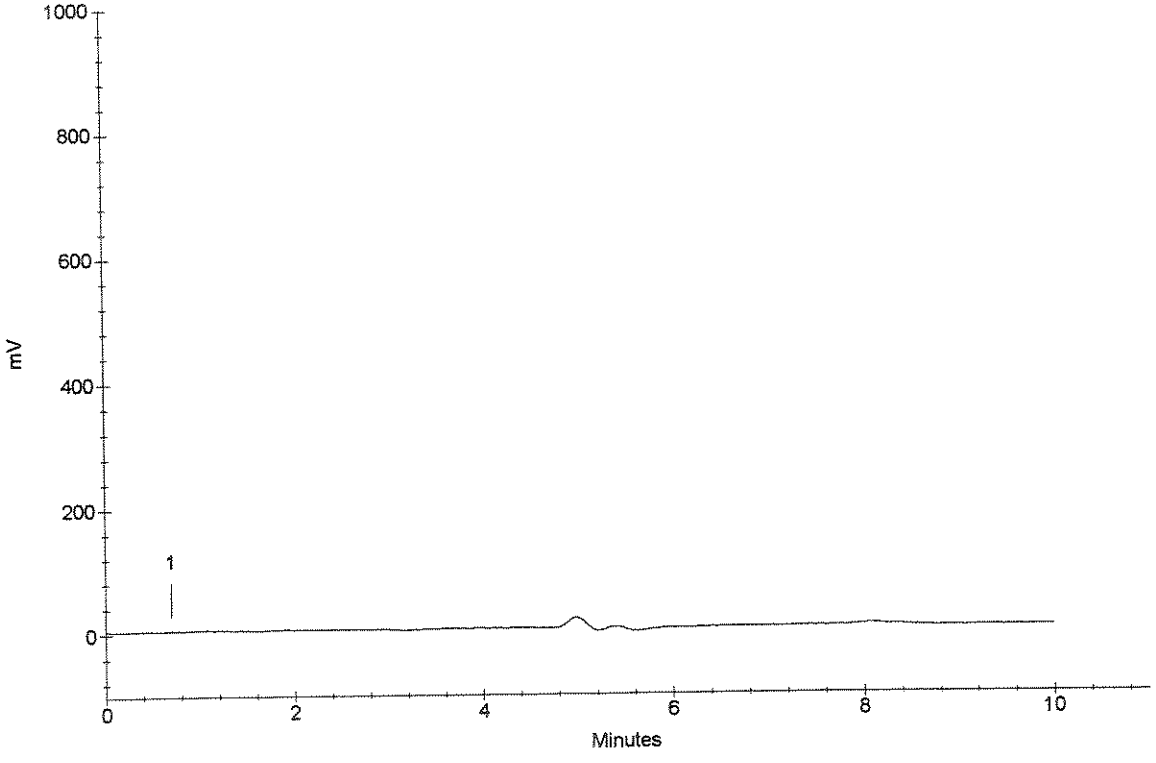
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08

1116253



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116254
Data File Name : ...\717_028.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:05:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

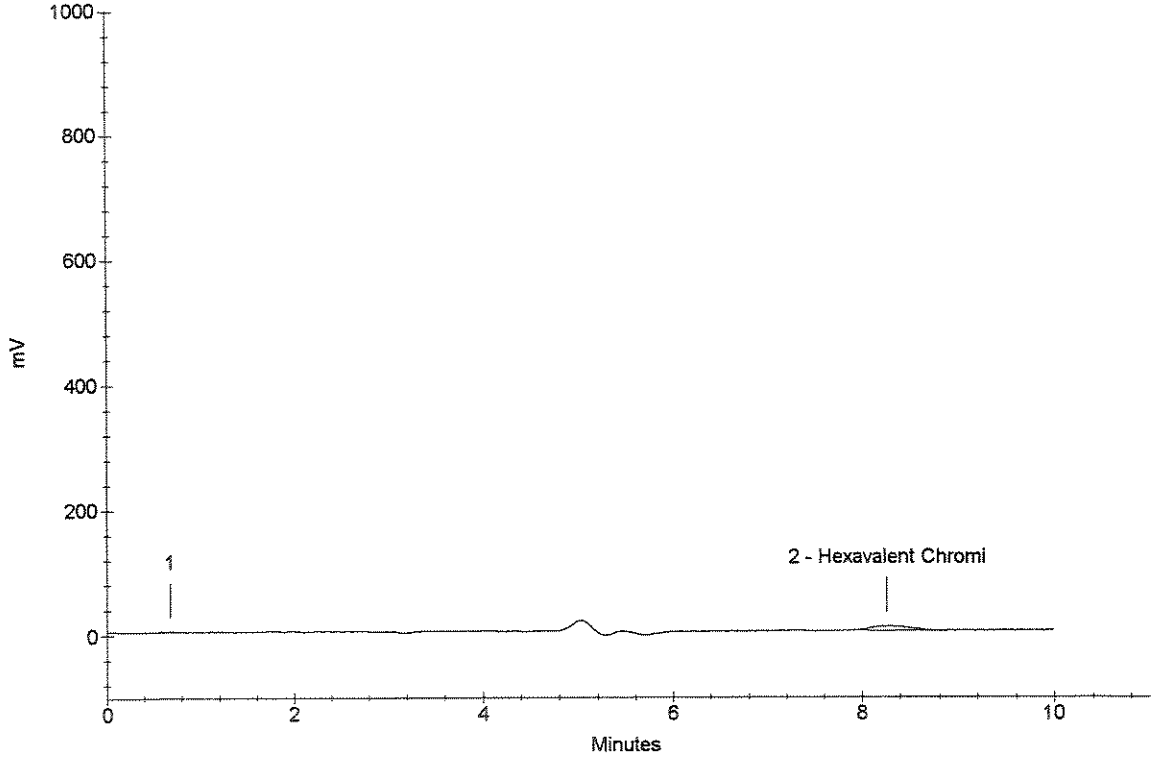
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.26	Hexavalent Chromi	0.0056	192694

OK 7/17/08 1 x 100/2.51 = 0.223

1116254



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116254
Data File Name : ...\717_029.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:16:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

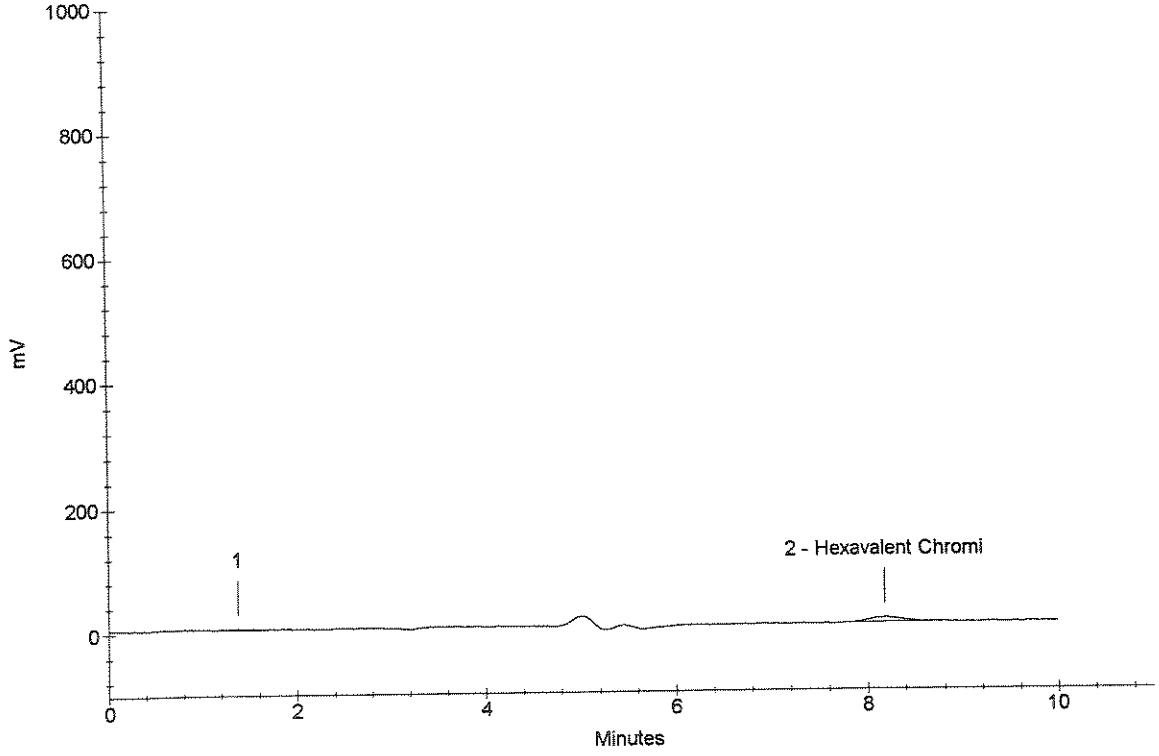
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.18	Hexavalent Chromi OK	0.0045	157413

7/17/08 1116254 L x100 / 2.51 = 0.179



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116255
Data File Name : ...\717_030.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:26:33

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

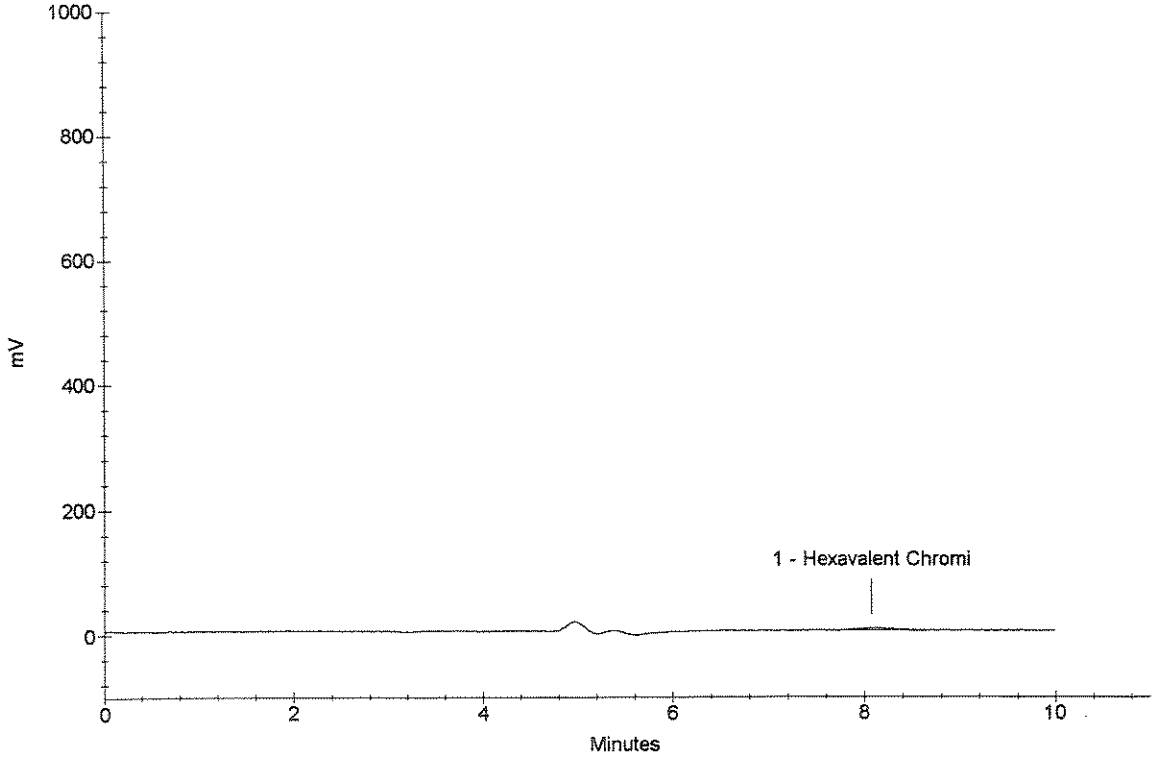
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.08	Hexavalent Chromi OK	0.0024	85713

7/19/08
1116255

$\frac{L}{2.51} \times 100 = 0.0956$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116255
Data File Name : ...\717_031.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:36:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

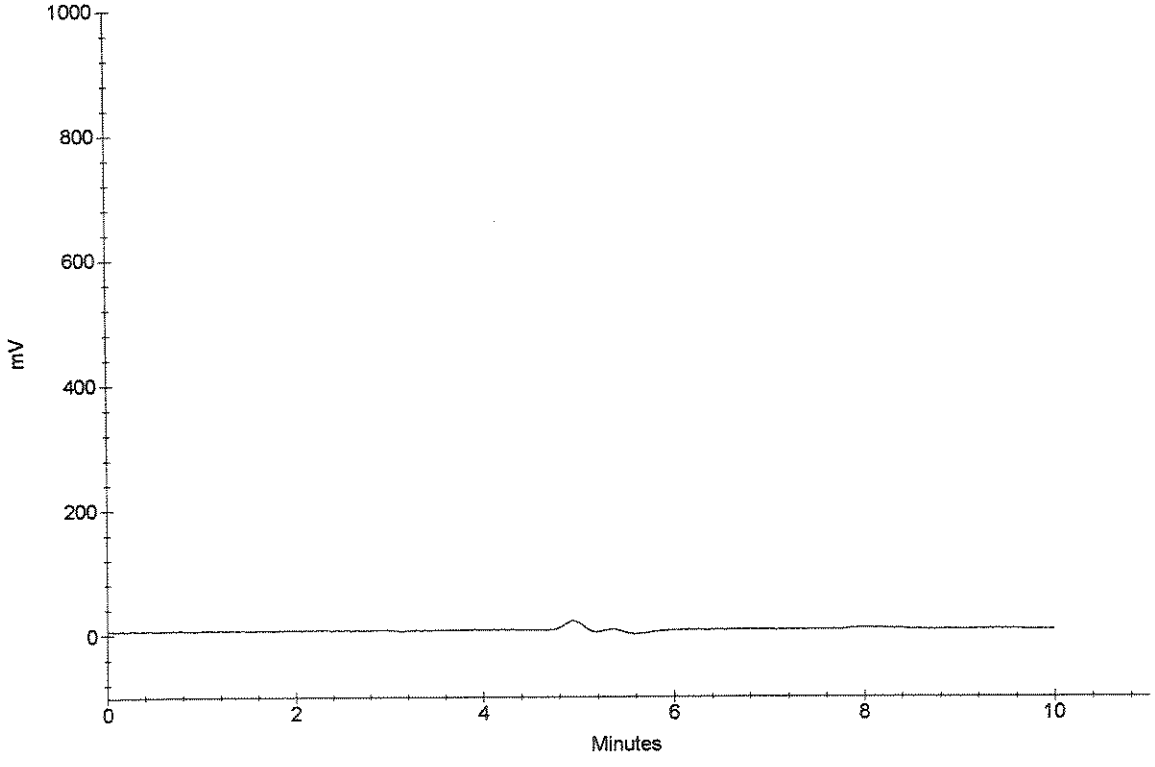
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116255



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116256
Data File Name : ...\717_032.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:47:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

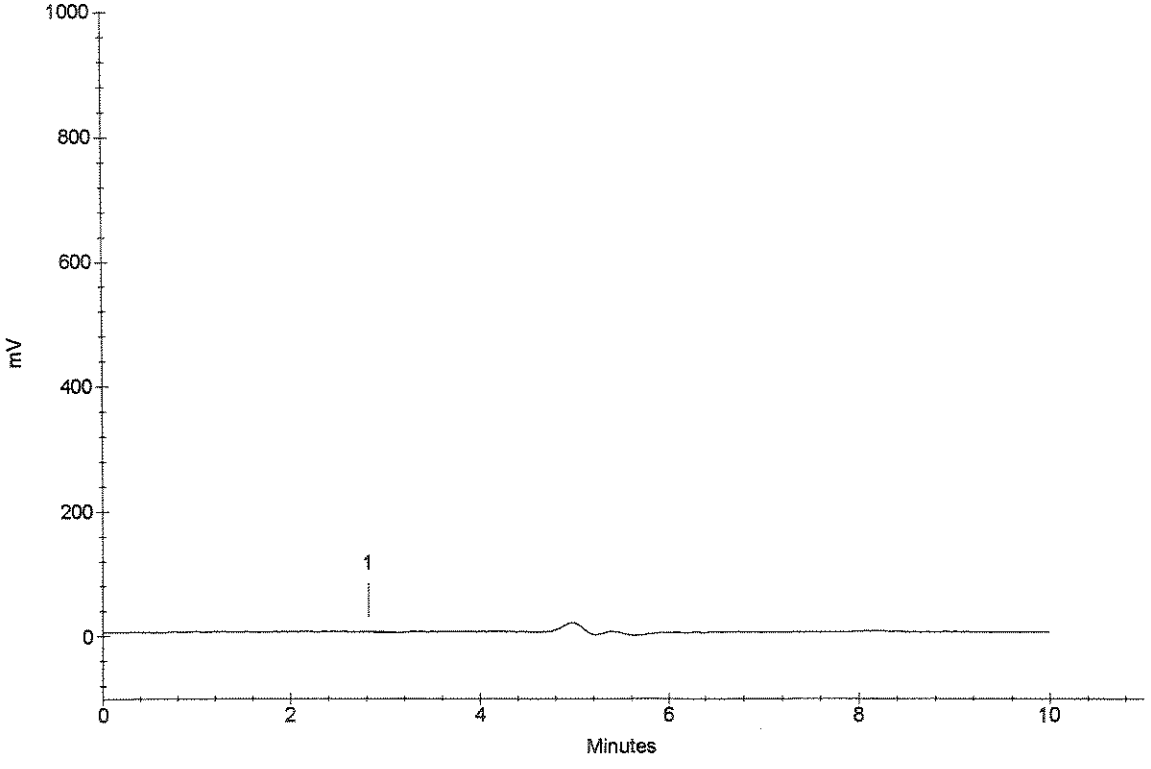
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116256



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116256
Data File Name : ...\717_033.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 14:57:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

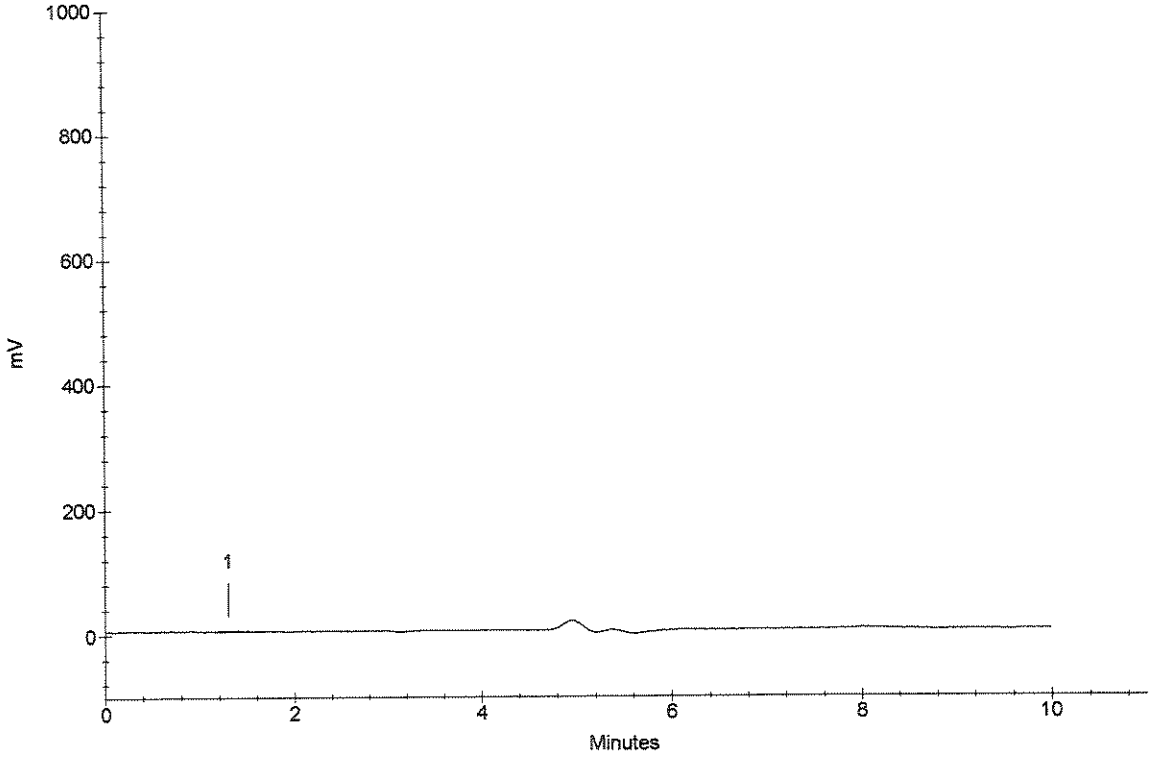
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116256



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257
Data File Name : ...\717_034.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 15:08:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

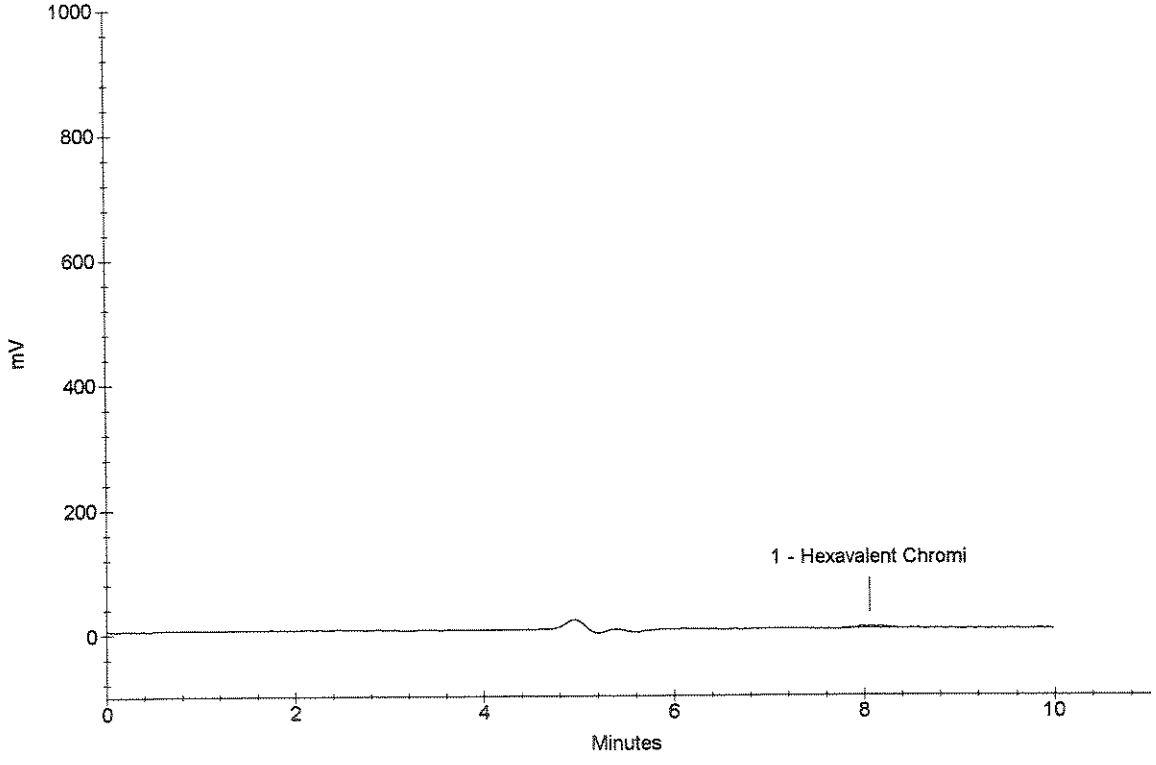
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	0.0018	66119

OK

7/18/08 L x 100 / 252 = 0.0714

1116257



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257
Data File Name : ...\717_035.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 15:18:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

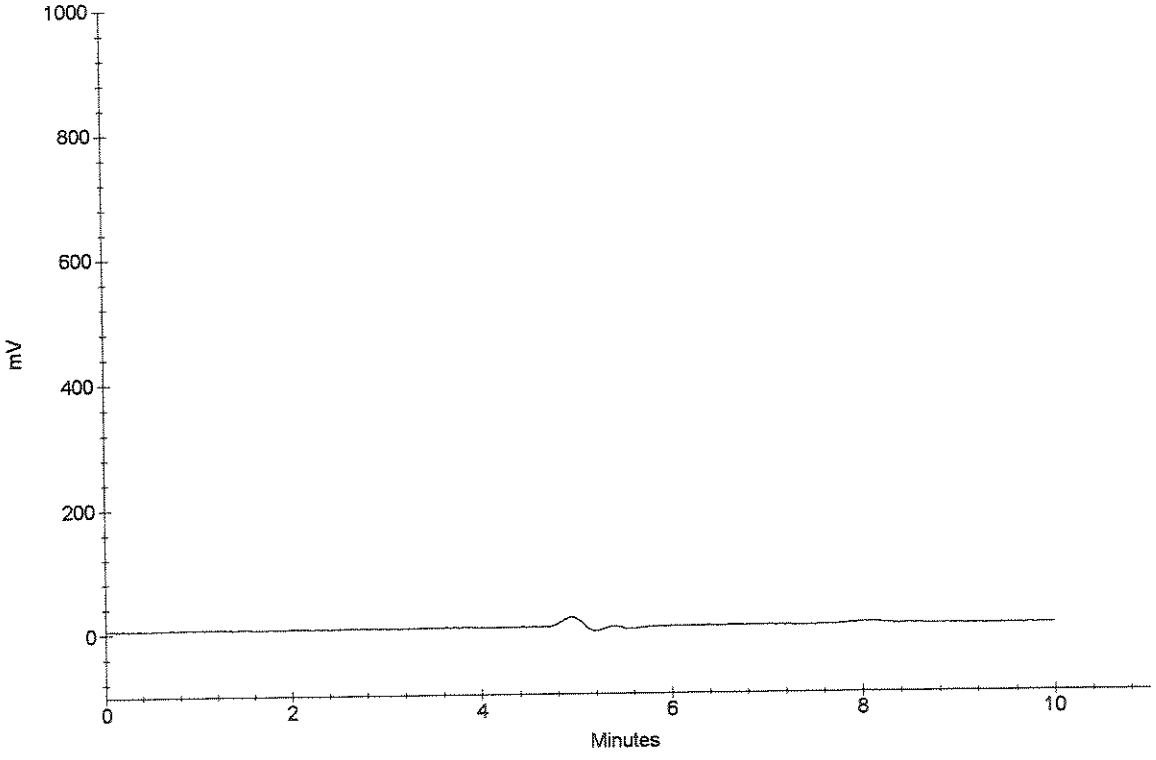
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CMT 7/18/08

1116257



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 DUP
Data File Name : ...\717_036.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 15:28:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

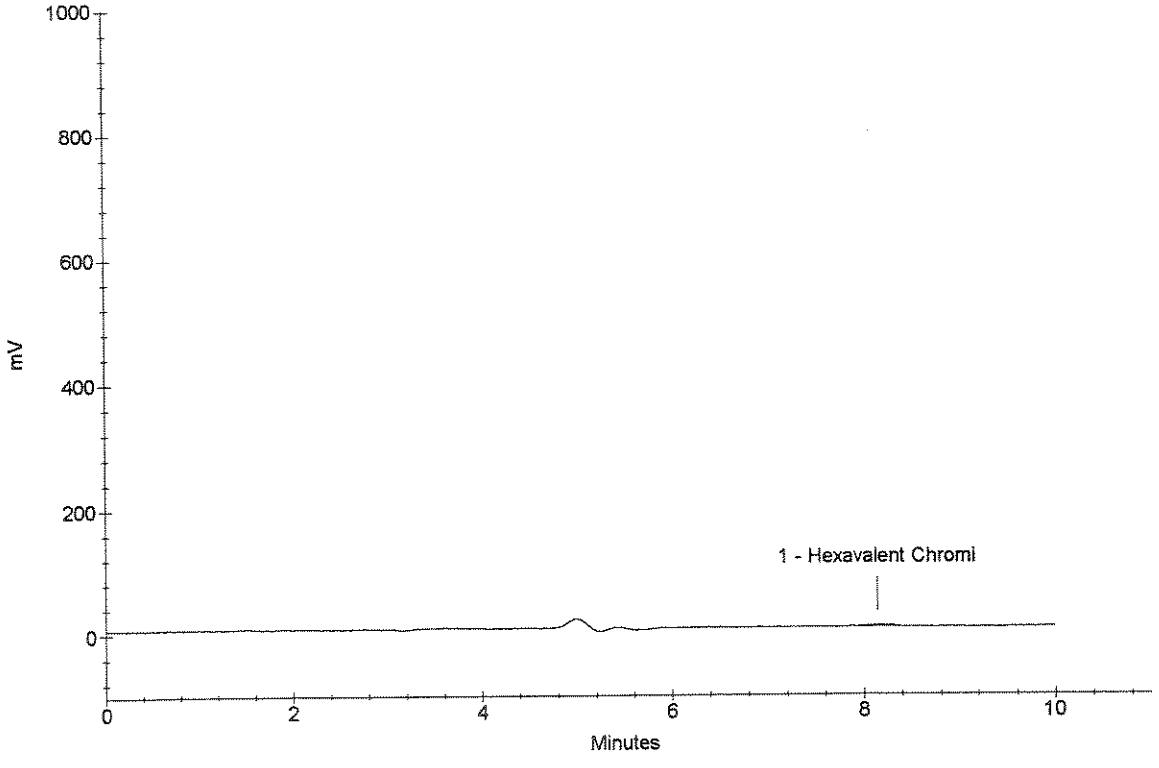
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.14	Hexavalent Chromi OK	0.0010	41892

7/18/08 1 x 100/2.48 = 0.0403

1116257 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 DUP
Data File Name : ...\717_037.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 15:39:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

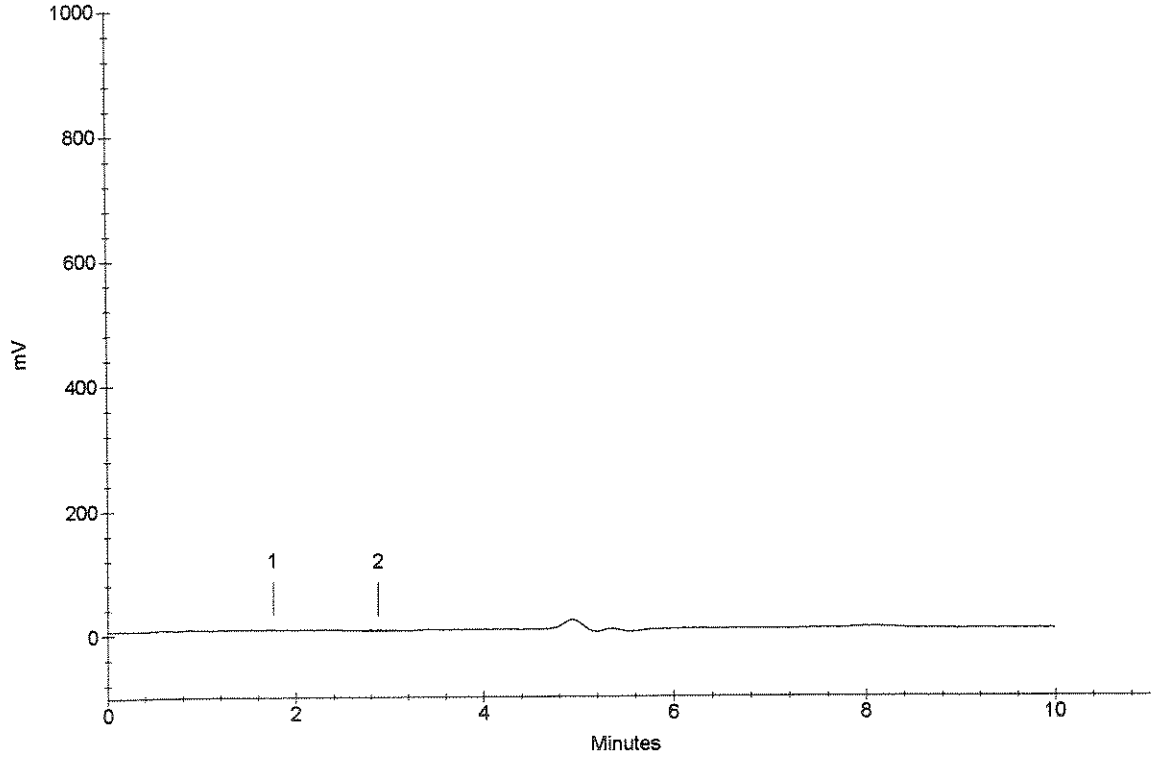
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116257 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 SOL
Data File Name : ...\717_038.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 15:49:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

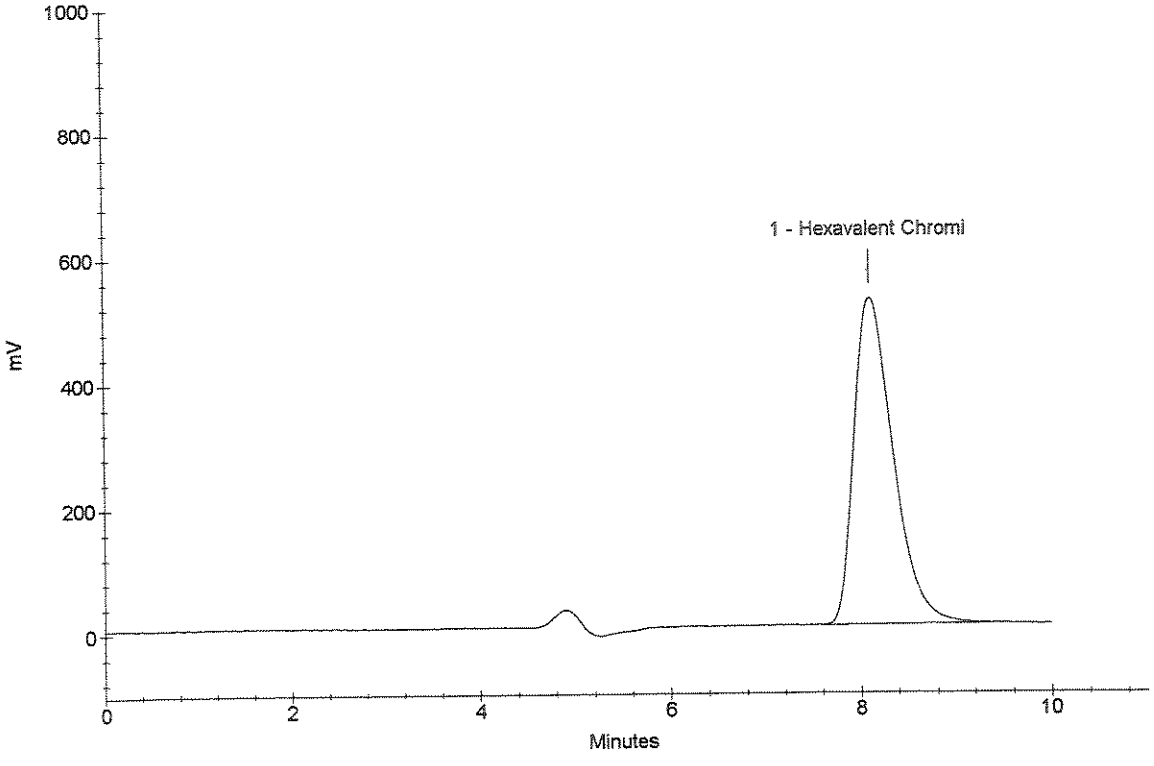
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.12	Hexavalent Chromi	0.8966	14901522

OK 7/18/08

1116257 SOL

$\times \frac{100}{2.49} = 36.0$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 SOL
Data File Name : ...\717_039.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:00:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

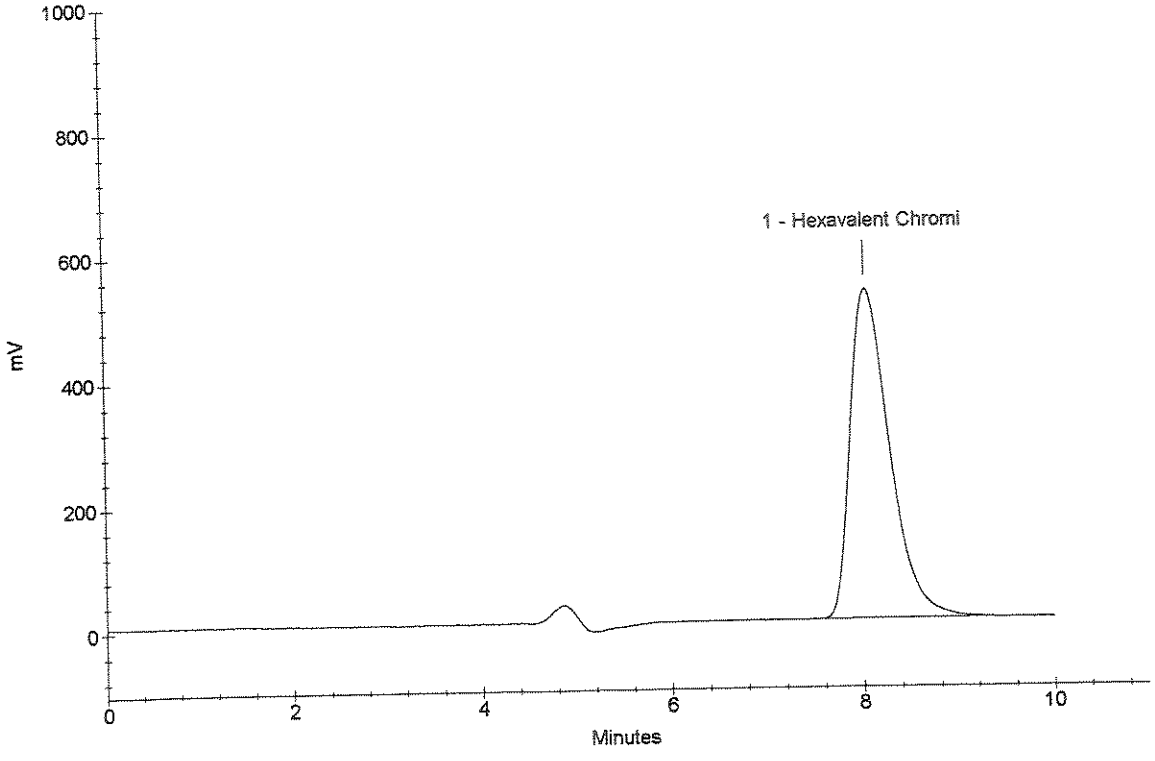
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	0.8927	14836194

OK 7/18/08

1116257 SOL

$L \times \frac{100}{2.49} = 35.9$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 INSOL
Data File Name : ...\717_040.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:10:33

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

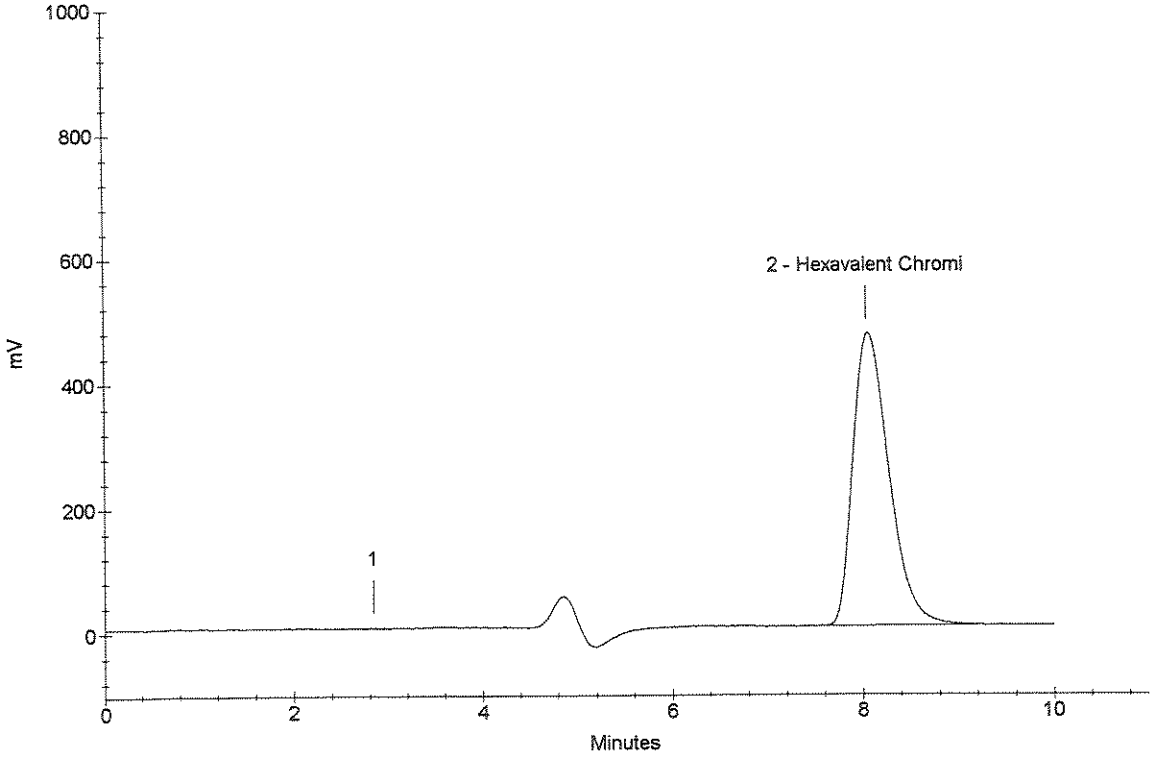
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.06	Hexavalent Chromi	14.7489	12257704

OK 7/18/08

$L \times \frac{100}{2.49} = 592$

1116257 INSOL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 INSOL
Data File Name : ...\717_041.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:20:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

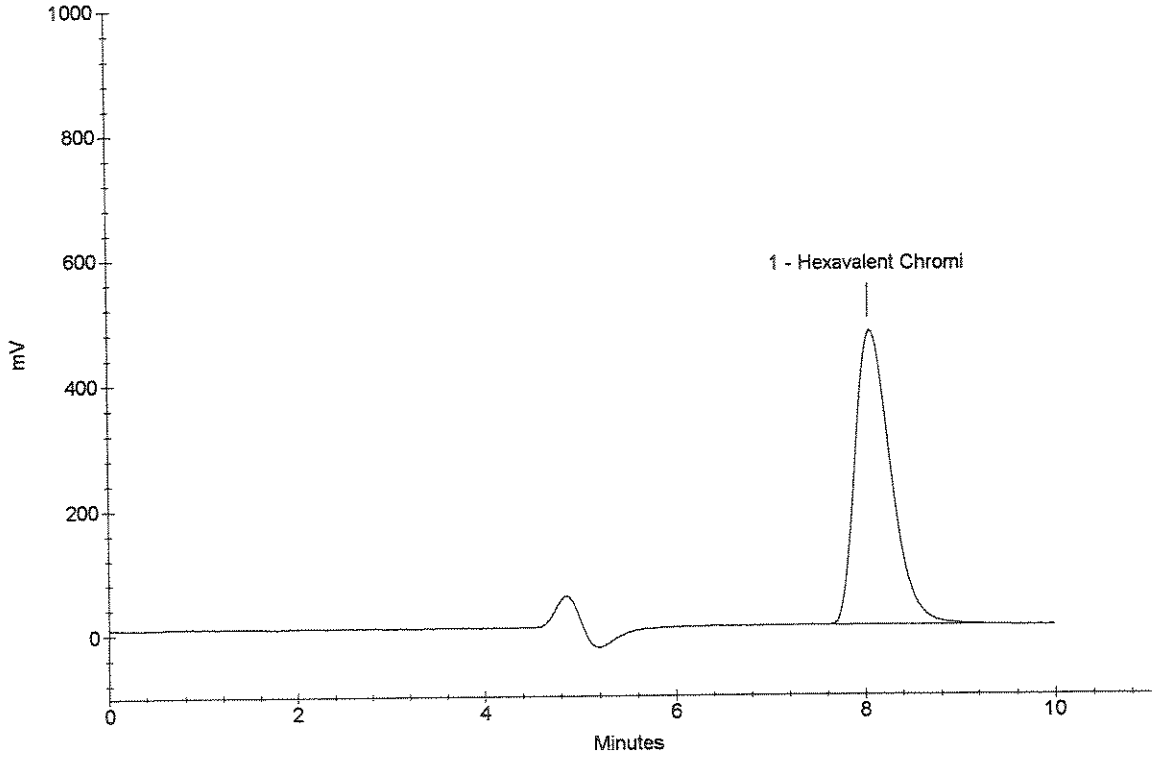
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name		Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	OK	14.7667	12272509

7/18/08 $L \times \frac{100}{2.49} = 593$

1116257 INSOL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 PVS
Data File Name : ...\717_042.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:31:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

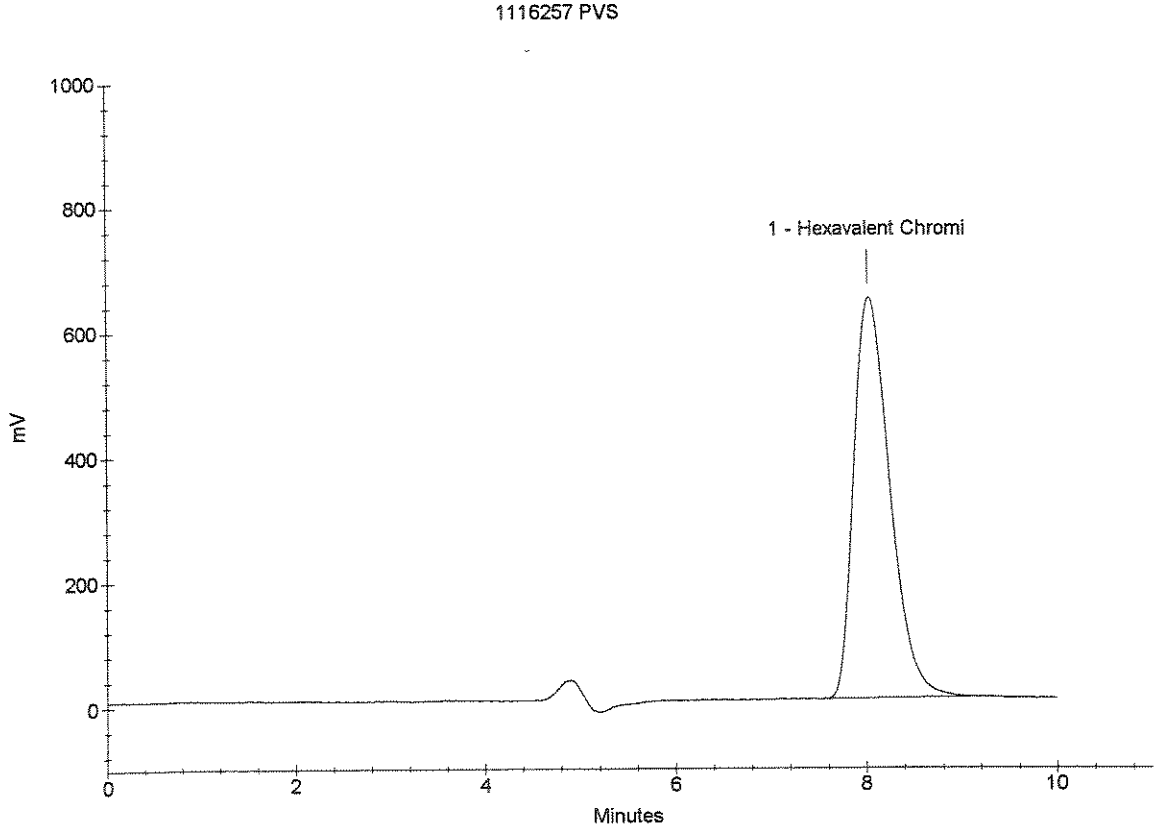
Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	1.0124	16825945

7/18/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116257 PVS
Data File Name : ...\717_043.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:41:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

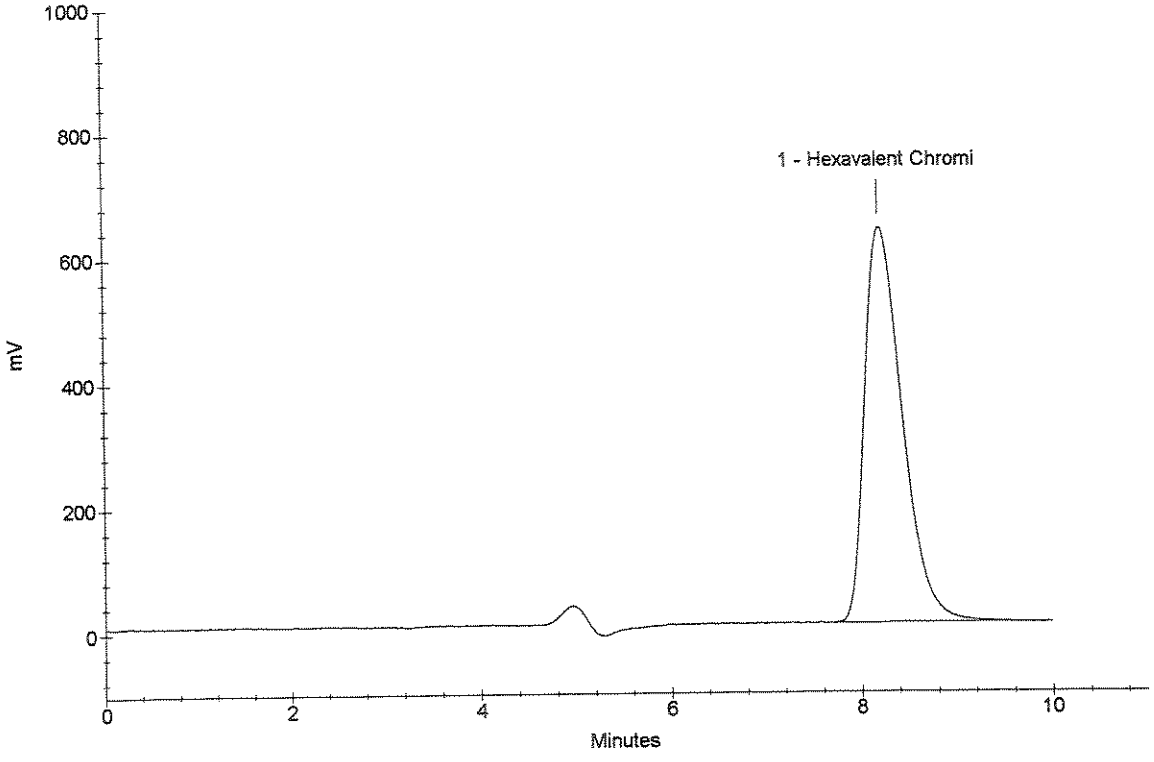
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.22	Hexavalent Chromi	1.0339	17182892

OK
7/17/08

1116257 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\717_044.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 16:52:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

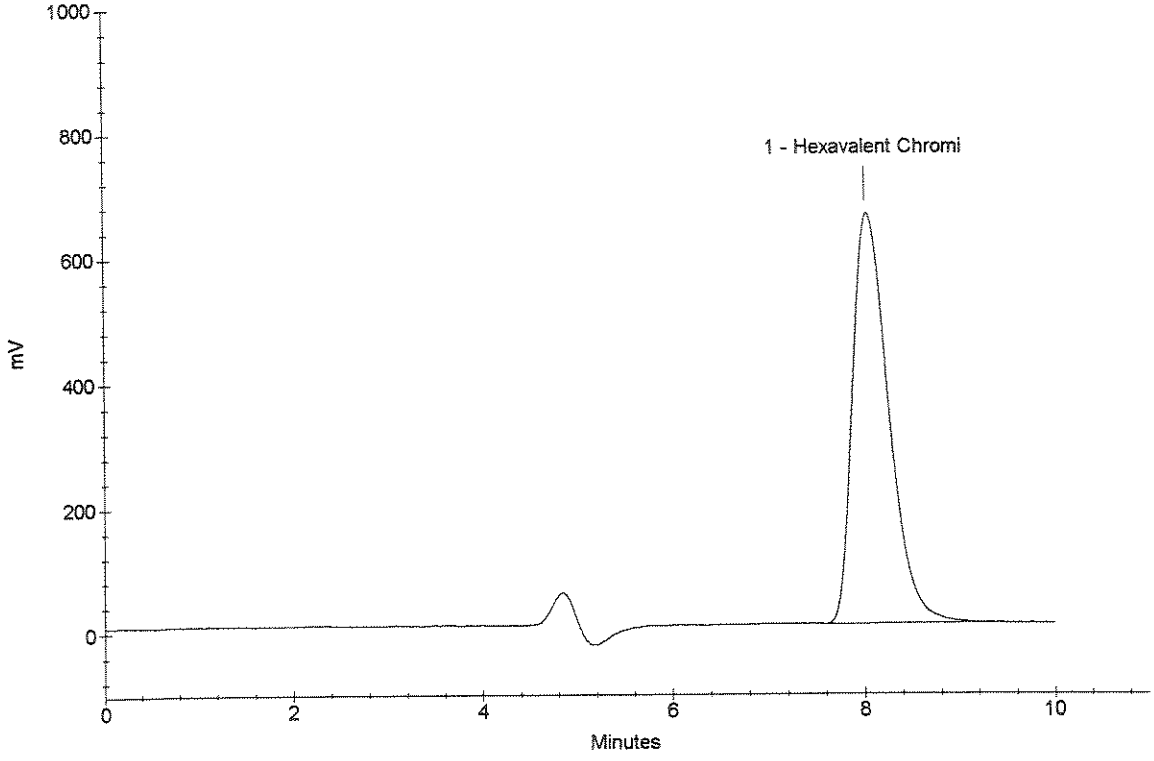
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	0.5148	17111268

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\717_045.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:02:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

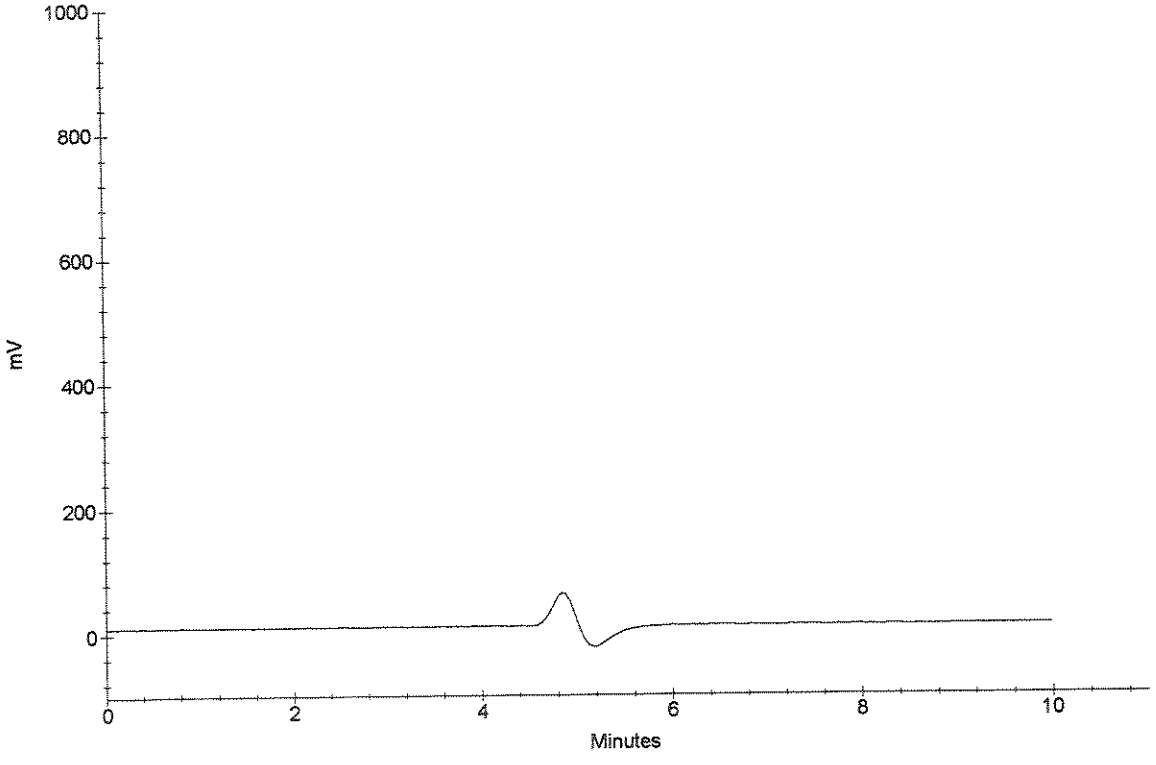
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CMT 7/18/08

CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PREP BLK SOIL
Data File Name : ...\717_046.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:12:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : DIGESTED 7/16/08

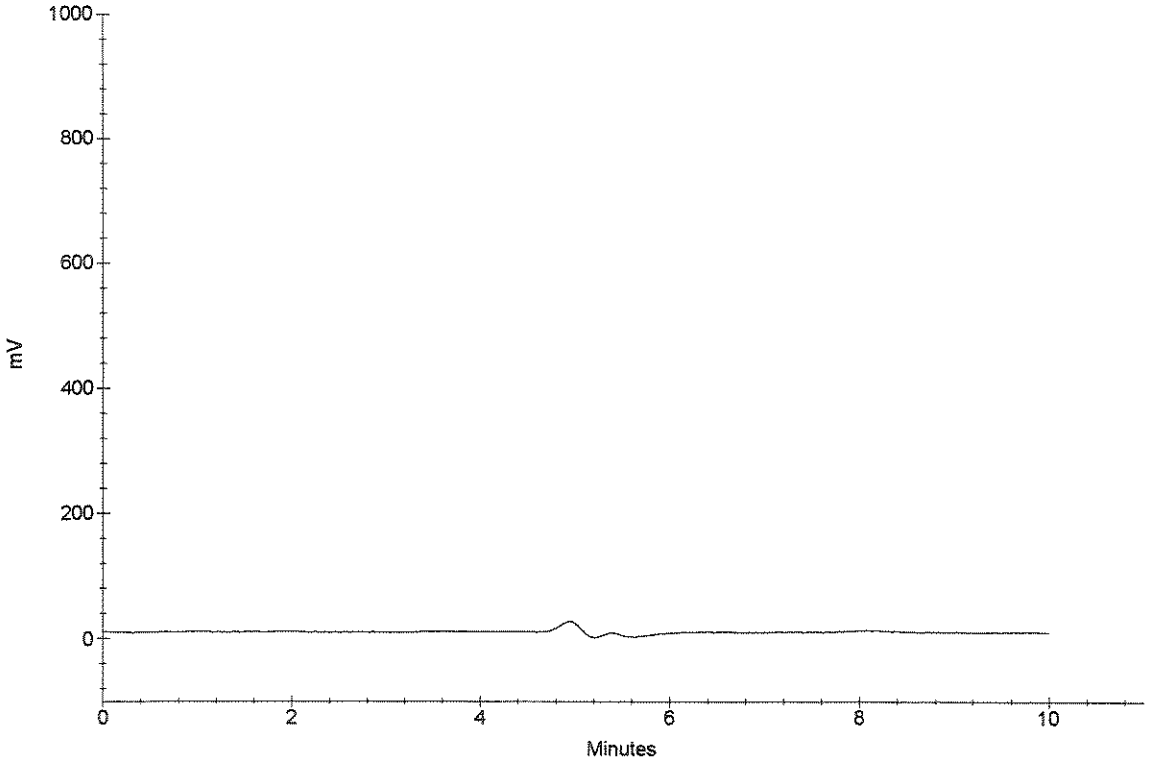
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

PREP BLK SOIL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PREP BLK SOIL
Data File Name : ...\717_047.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:23:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : DIGESTED 7/16/08

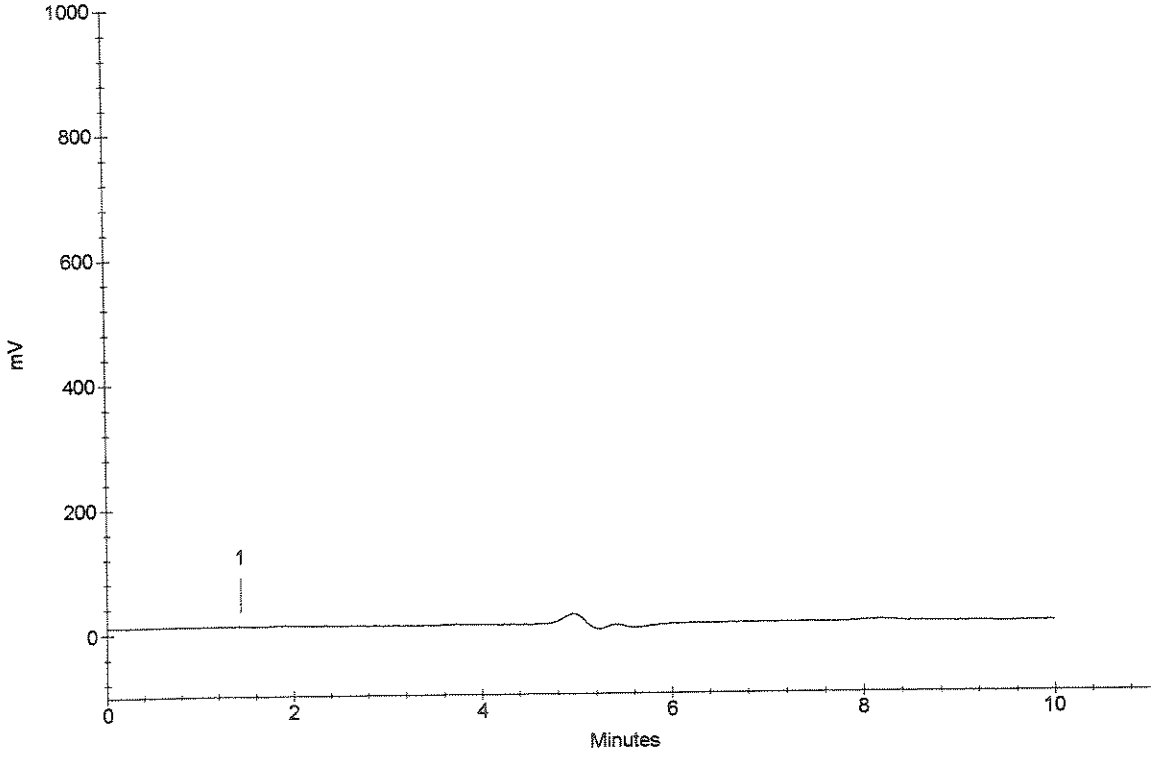
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
cw 7/18/08

PREP BLK SOIL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS SOIL
Data File Name : ...\717_048.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:33:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : DIGESTED 7/16/08

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

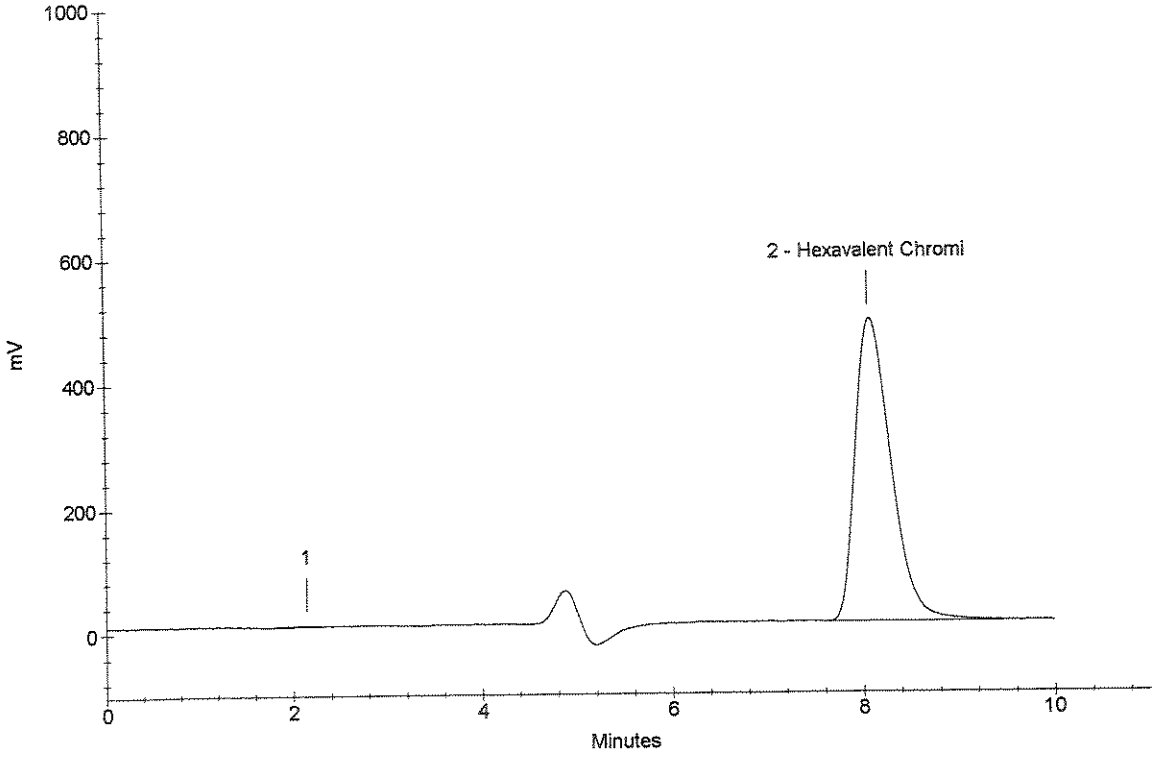
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.08	Hexavalent Chromi	15.1287	12573147

OK 7/17/08

$15.1287 \times \frac{100}{2.50} = 605$

LCS SOIL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS SOIL
Data File Name : ...\717_049.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:44:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : DIGESTED 7/16/08

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

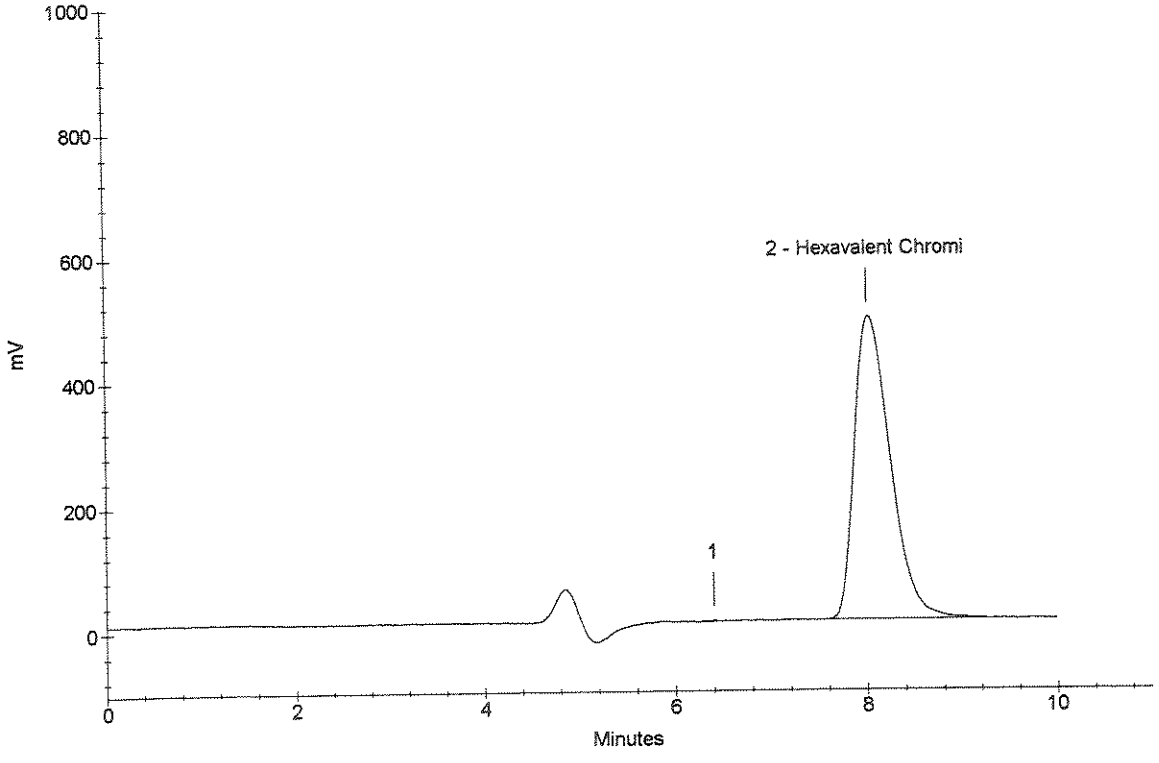
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.04	Hexavalent Chromi	15.0725	12526445

OK 7/18/08

LCS SOIL

$\frac{L \times 100}{250} = 603$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258
Data File Name : ...\717_050.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 17:54:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

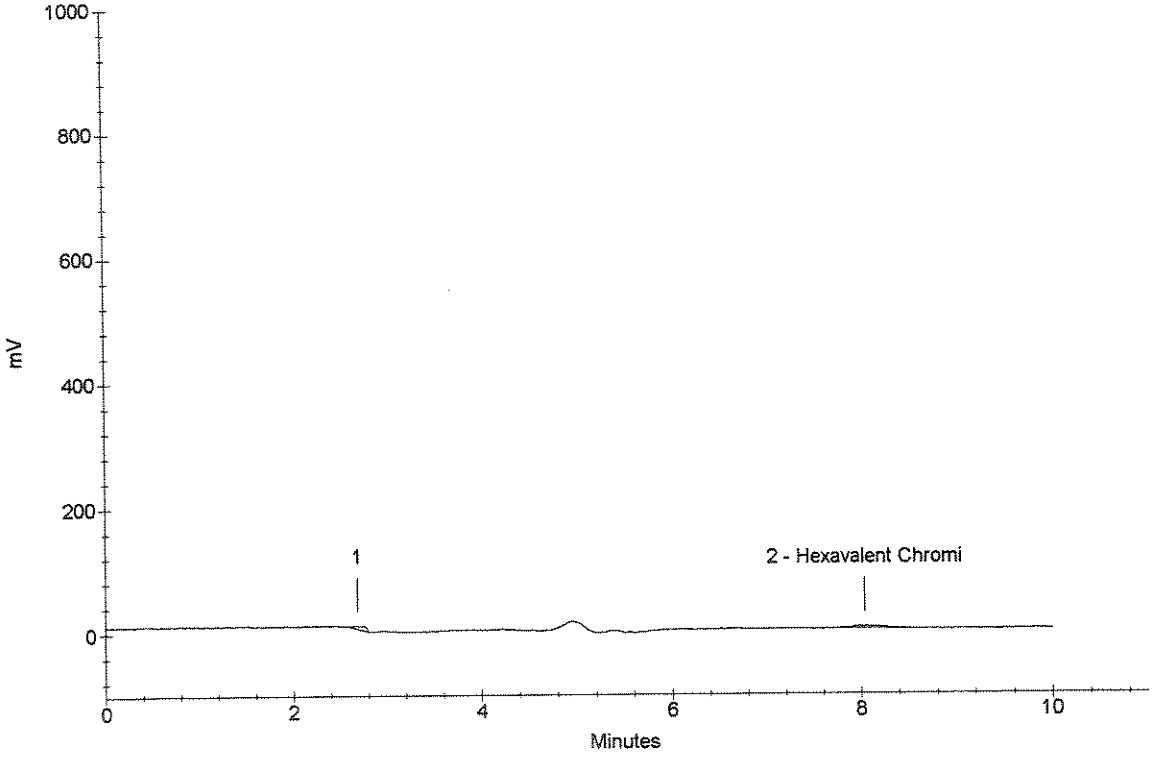
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.04	Hexavalent Chromi	0.0023	84480

7/18/08
1116258

$\frac{L}{2.50} \times 100 = 0.0920$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258
Data File Name : ...\717_051.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:04:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

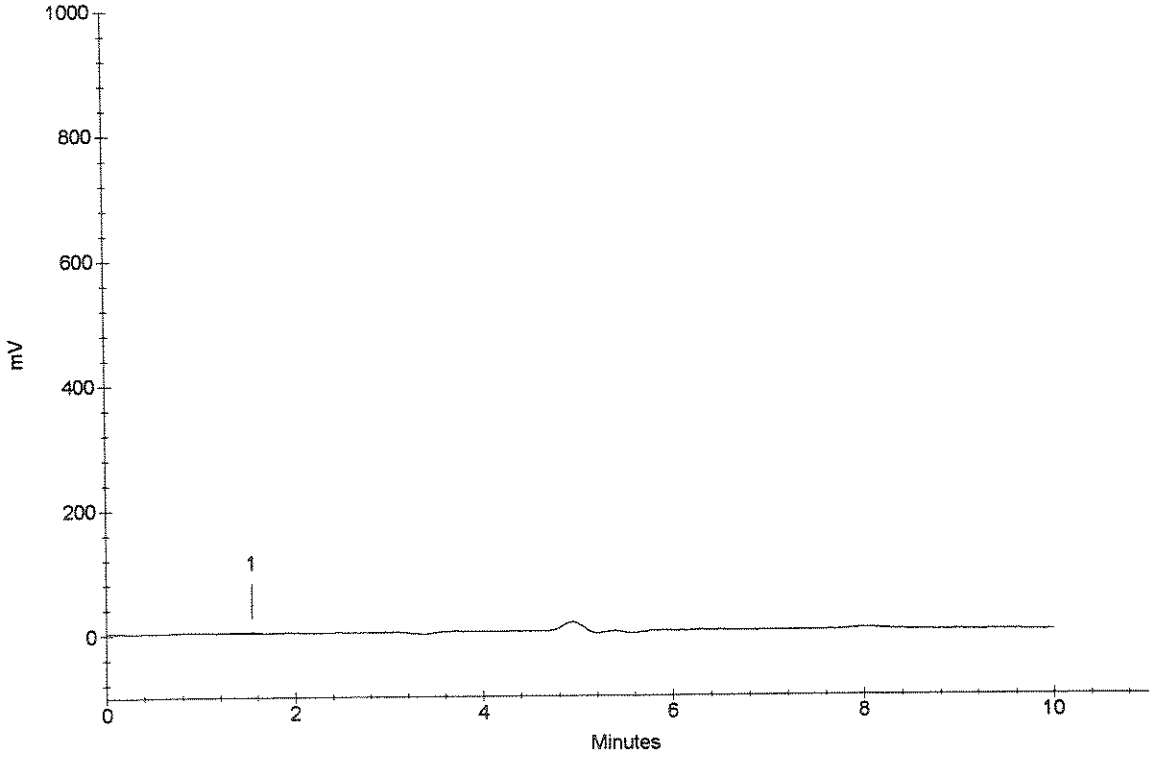
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116258



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 DUP
Data File Name : ...\717_052.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:15:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

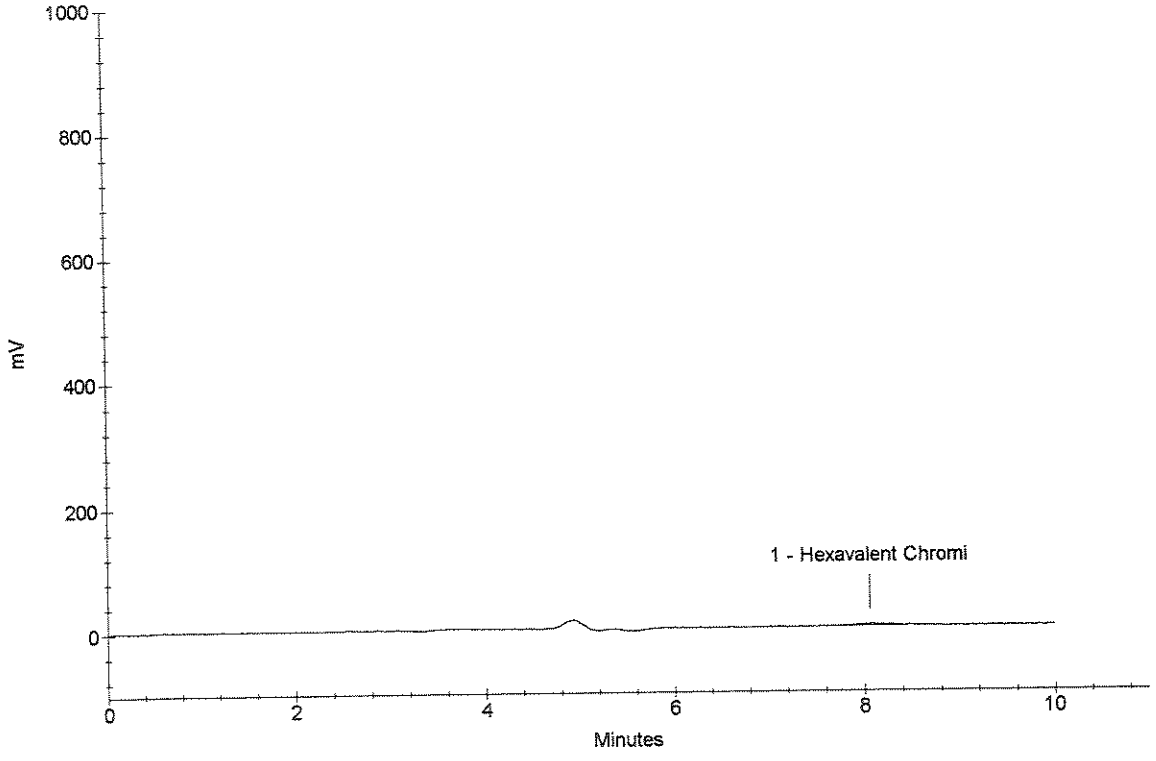
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi OK	0.0012	47205

7/18/08 L x 100/253 = 0.0474

1116258 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 DUP
Data File Name : ...\717_053.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:25:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

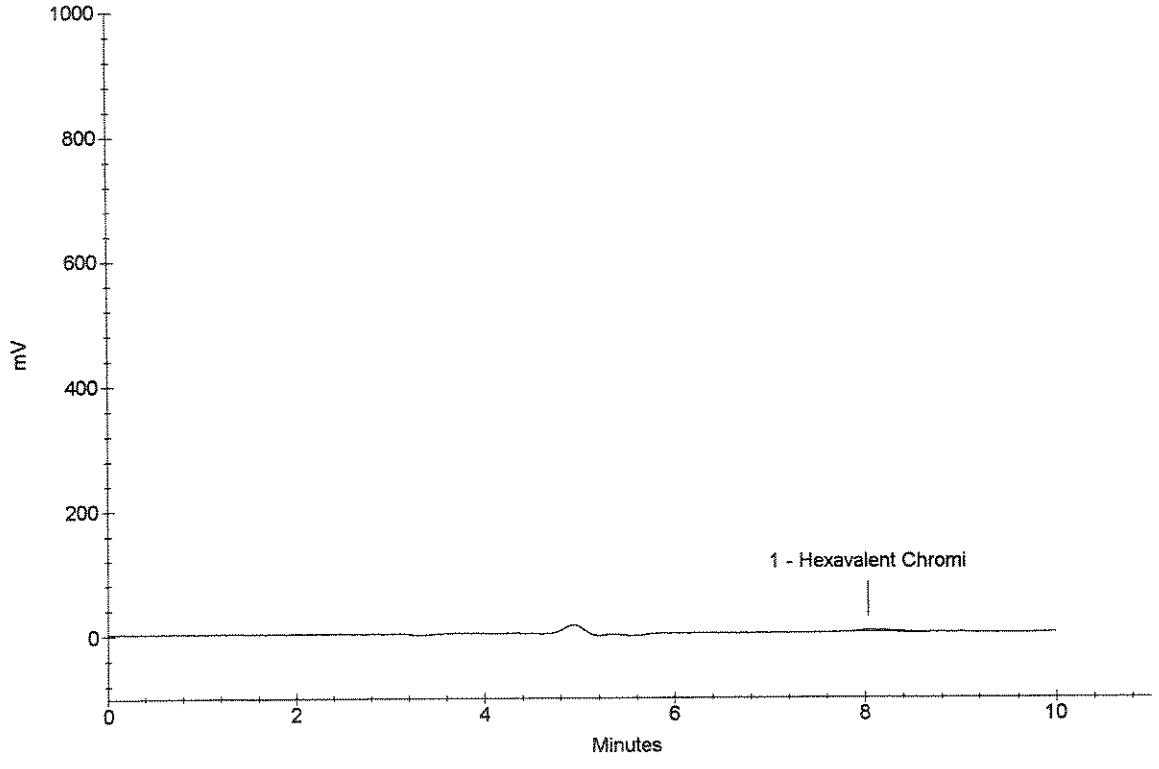
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi OK	0.0020	73409

7/17/08 1116258 DUP

$\frac{L \times 100}{2.53} = 0.0791$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 SOL SPK
Data File Name : ...\717_054.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:36:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

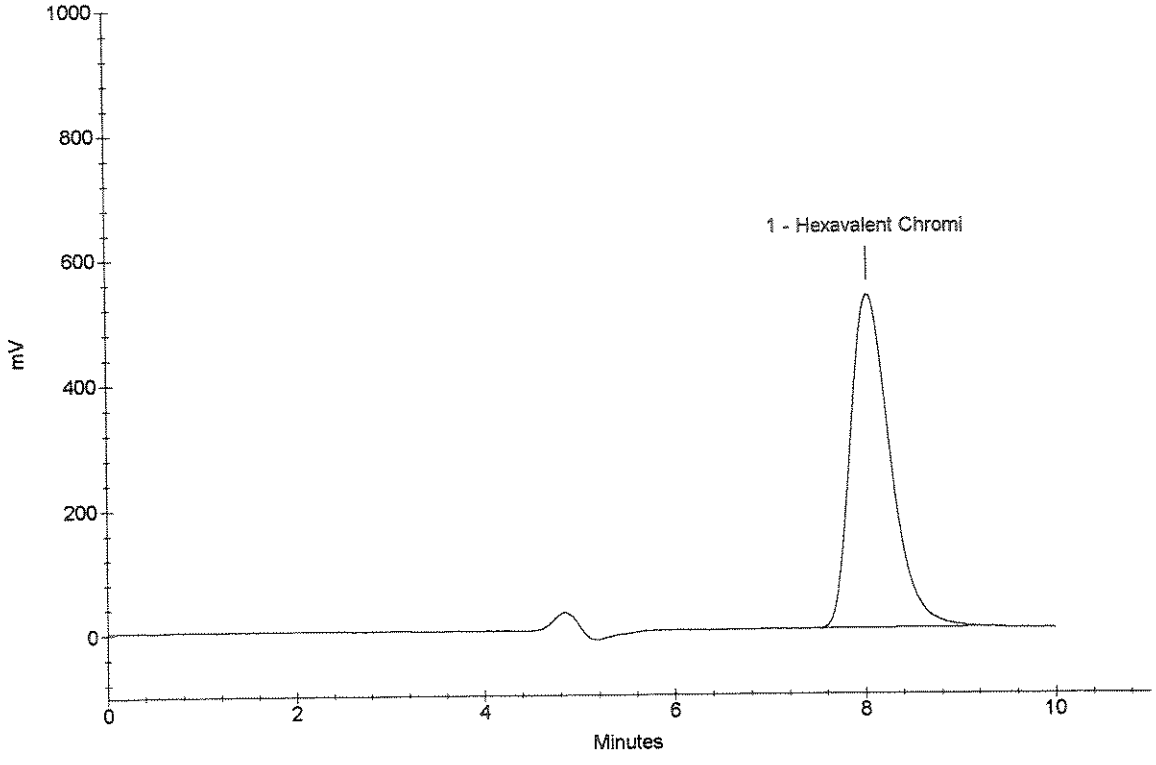
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi OK	0.9206	15300558

7/17/08 $\frac{L \times 100}{2.55} = 36.1$

1116258 SOL SPK



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 SOL SPK
Data File Name : ...\717_055.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:46:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

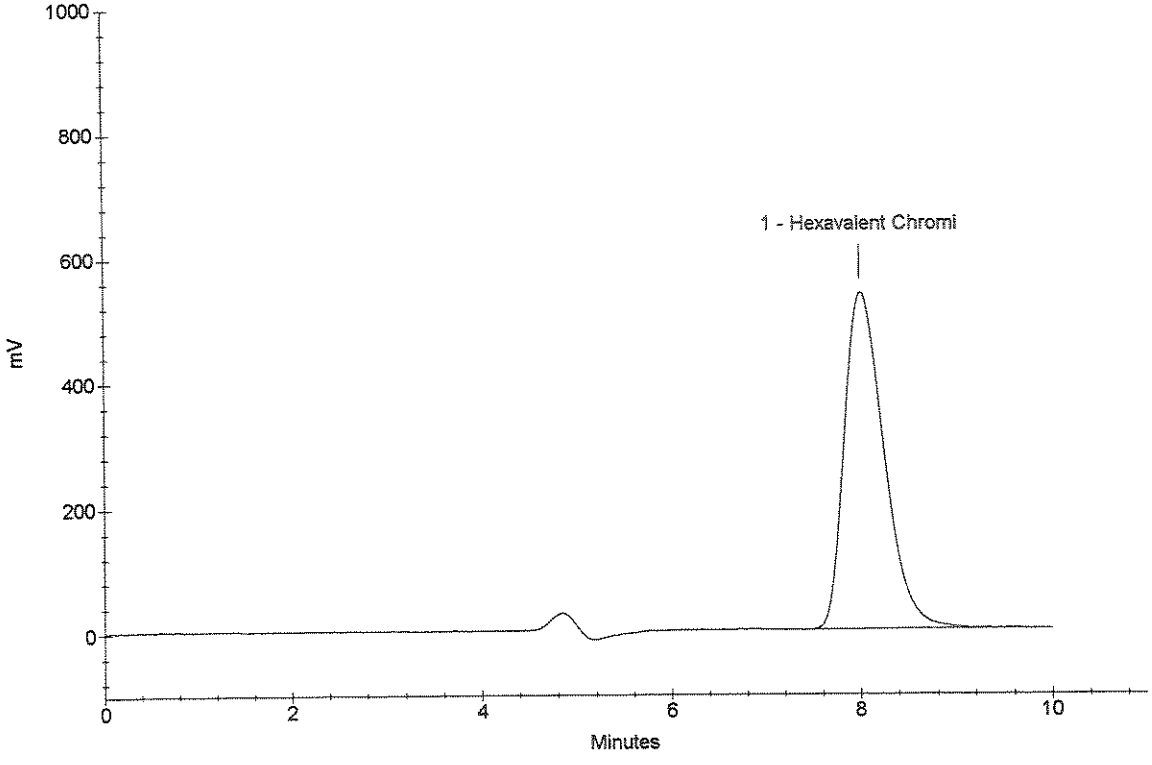
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.02	Hexavalent Chromi OK	0.9284	15430317

7/18/08
1116258 SOL SPK

$\frac{L}{2.55} \times 100 = 36.4$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 INSOL SPK
Data File Name : ...\717_056.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 18:56:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

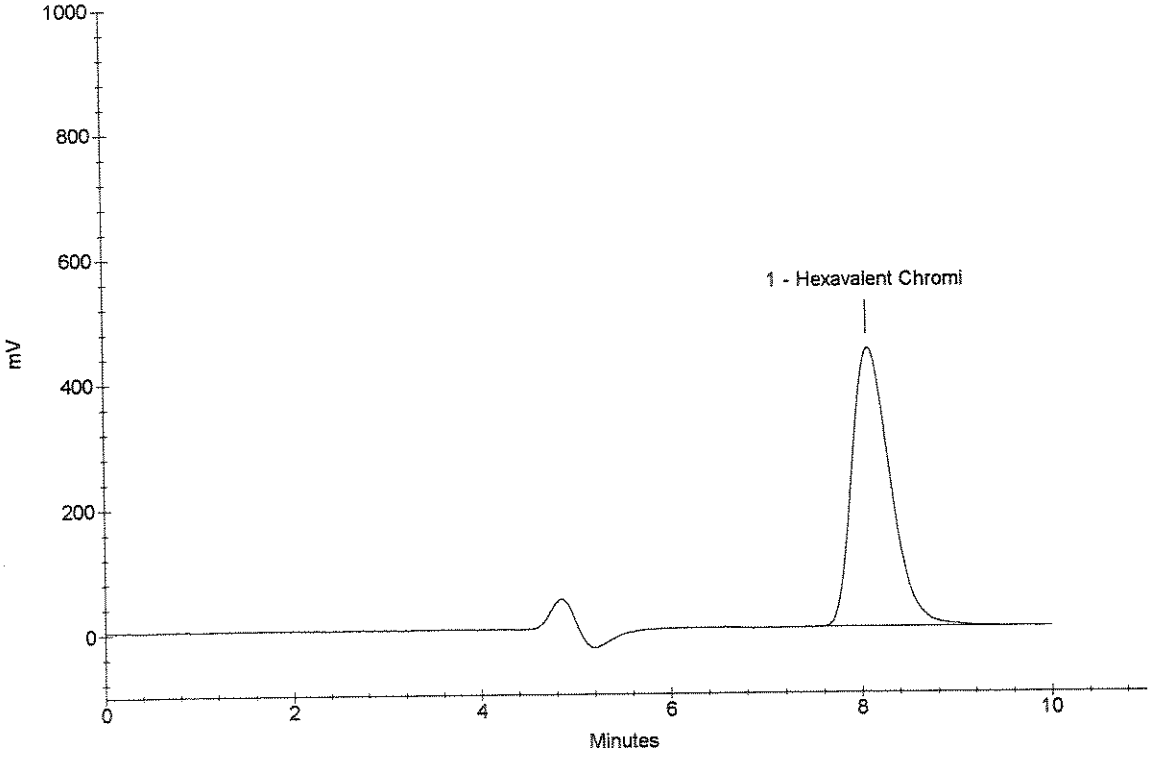
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.08	Hexavalent Chromi	14.9387	12415369

OK
7/18/08
1116258 INSOL SPK

$\frac{L}{2.58} \times 100 = 579$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 INSOL SPK
Data File Name : ...\717_057.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:07:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

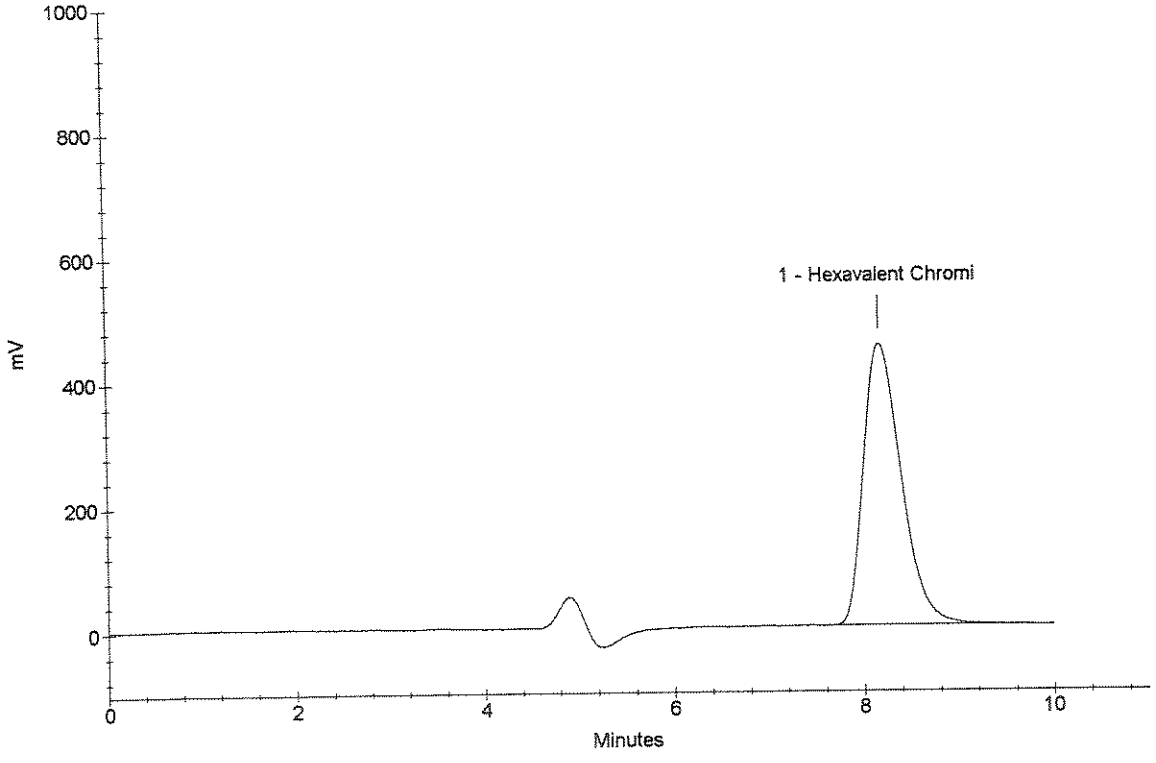
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.18	Hexavalent Chromi OK	14.8501	12341717

7/17/08

1116258 INSOL SPK

$\frac{L}{2.58} \times 100 = 576$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 PVS
Data File Name : ...\717_058.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:17:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

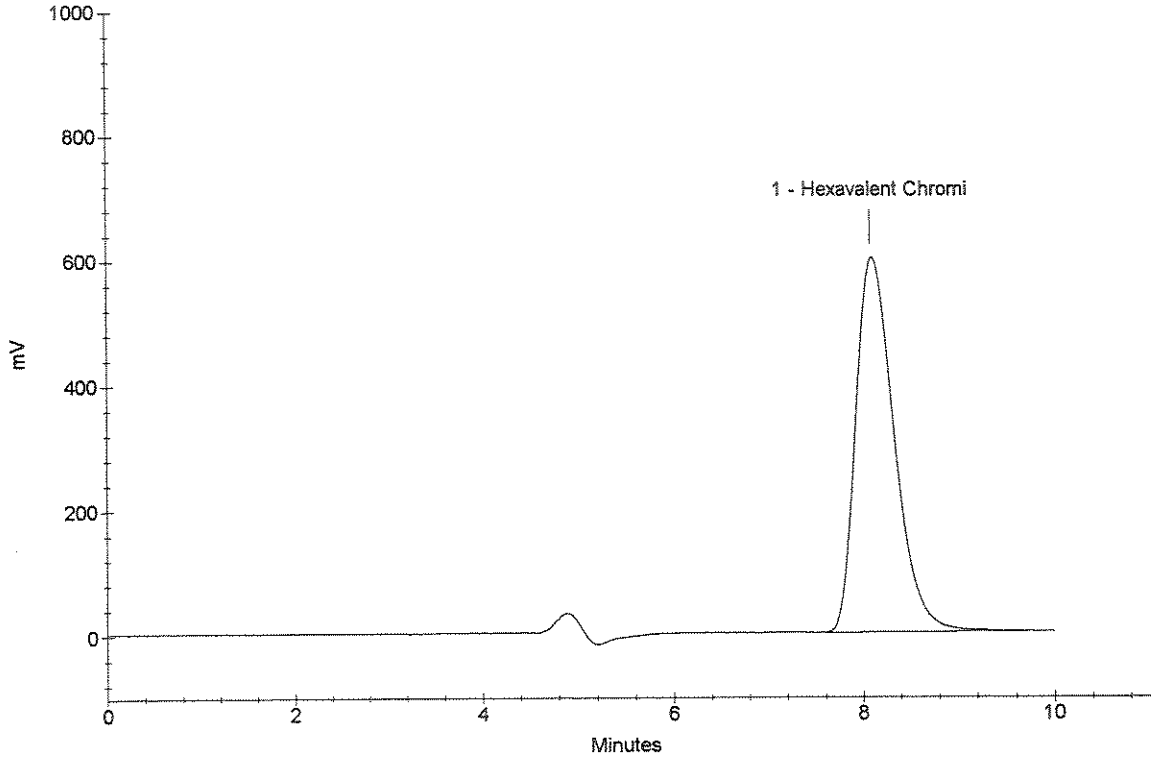
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.10	Hexavalent Chromi	1.0167	16897242

OK
7/18/08

1116258 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116258 PVS
Data File Name : ...\717_059.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:28:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

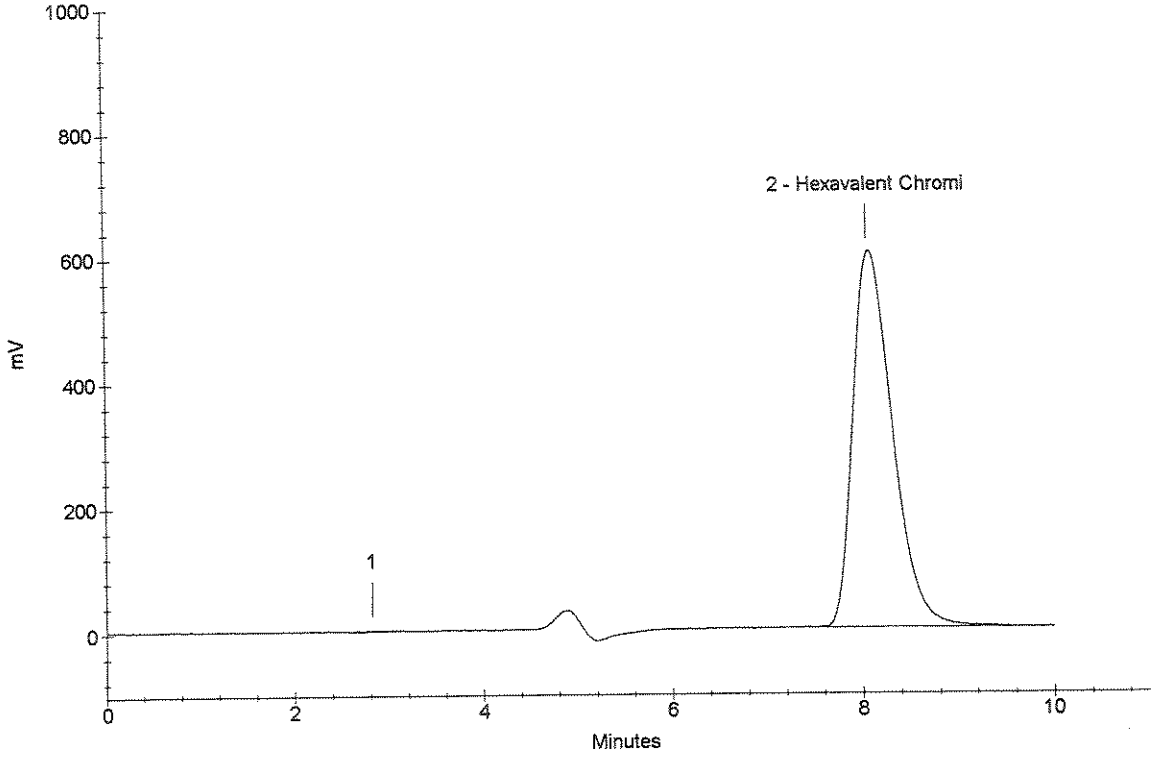
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.08	Hexavalent Chromi	1.0270	17067090

7/17/08

1116258 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116264
Data File Name : ...\717_060.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:38:33

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

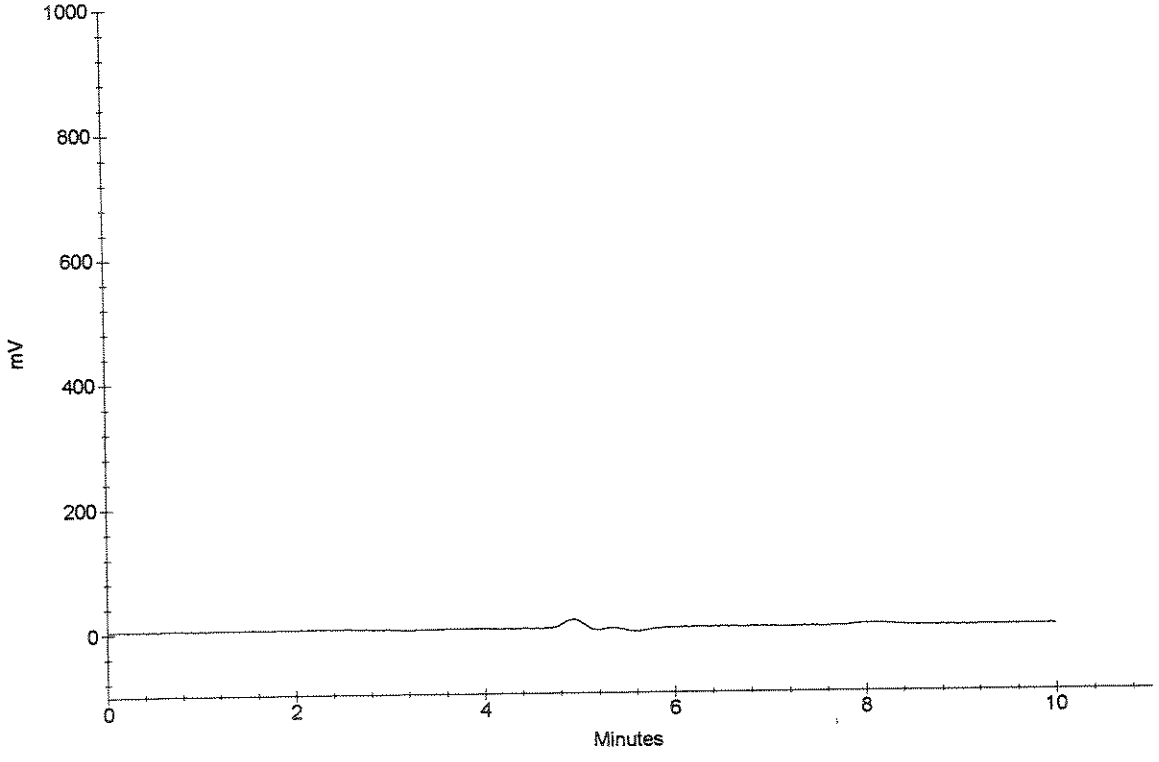
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116264



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116264
Data File Name : ...\717_061.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:48:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

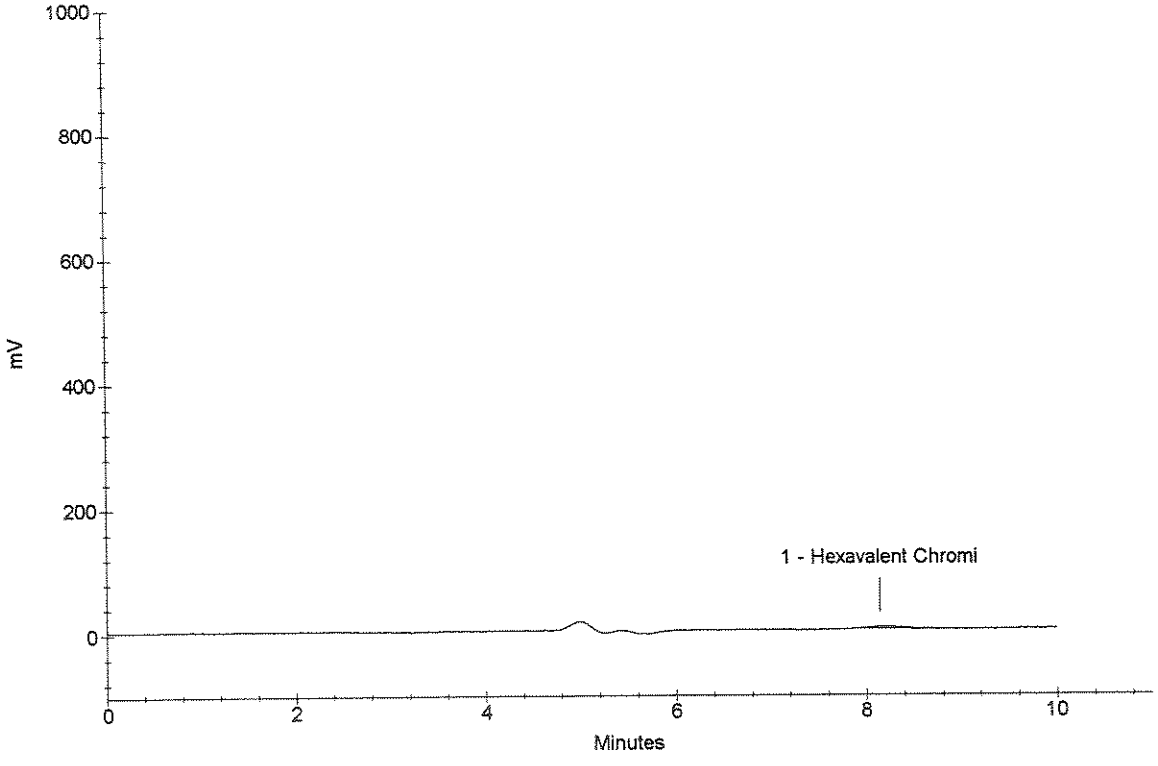
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.14	Hexavalent Chromi	0.0023	83363

OK 7/18/08 L x 100/2.50 = 0.0920

1116264



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116265
Data File Name : ...\717_062.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 19:59:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

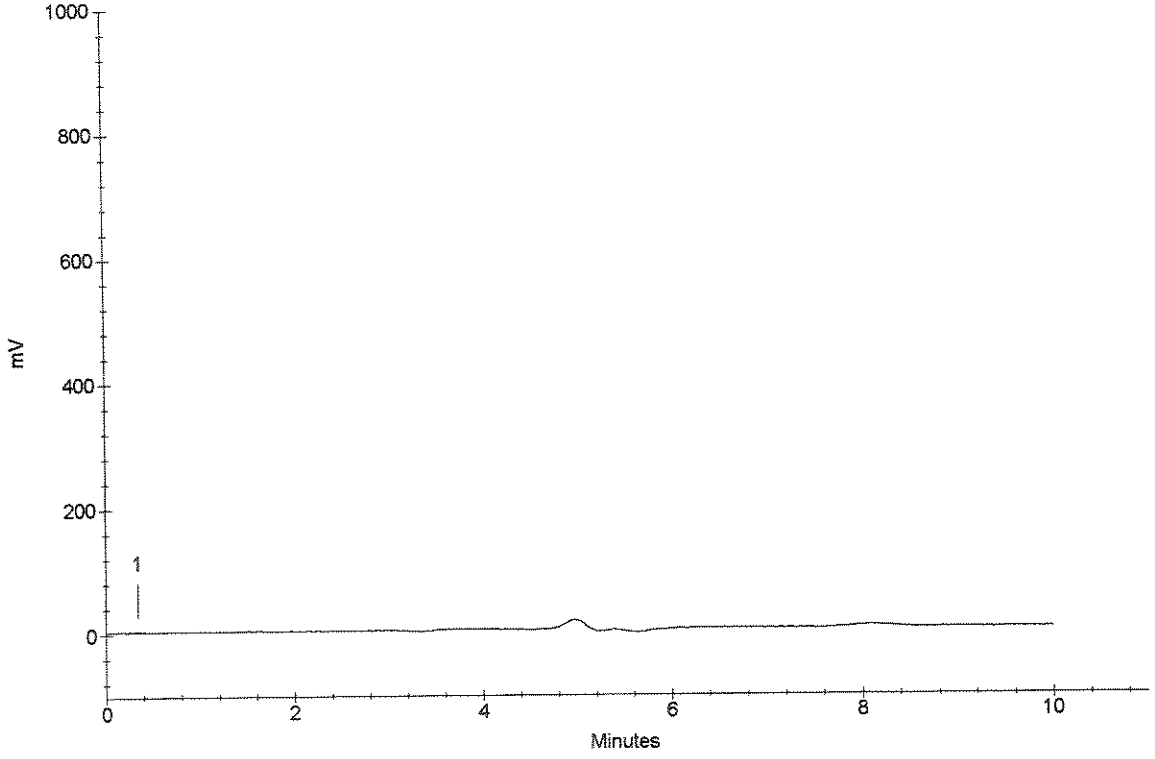
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08

1116265



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116265
Data File Name : ...\717_063.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 20:09:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

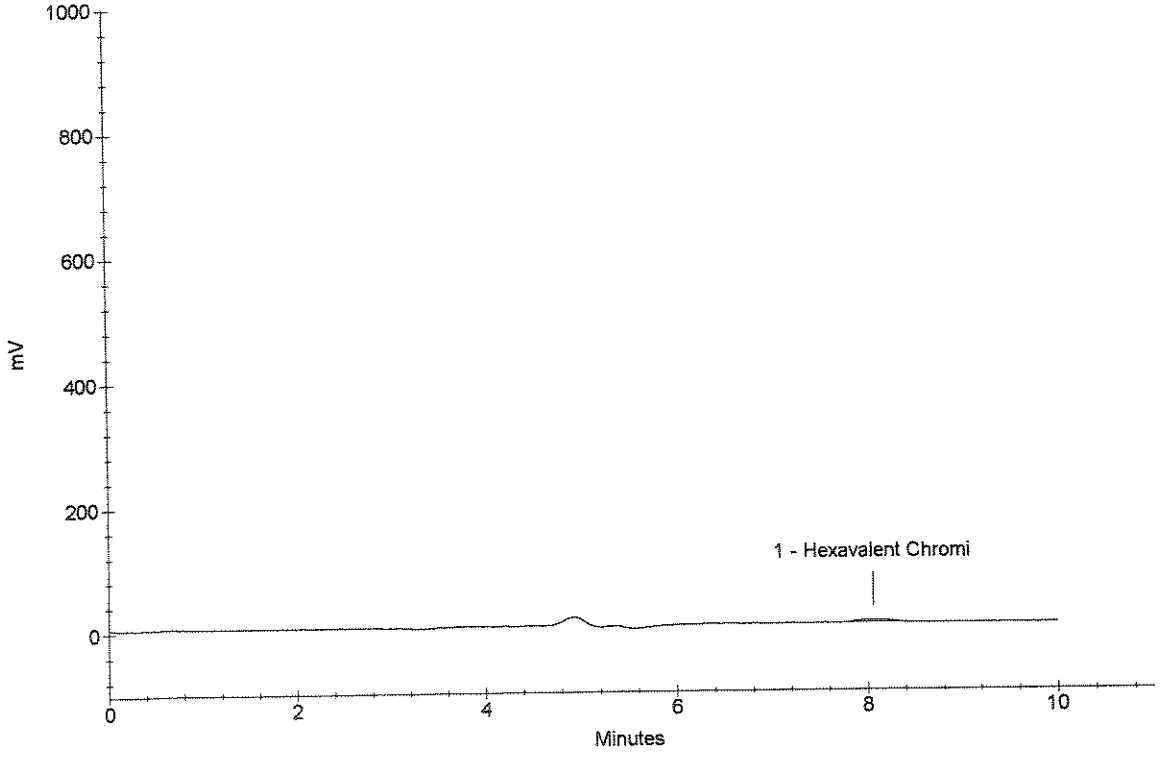
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	0.0020	75420

OK
7/17/08
1116265

$L \times \frac{100}{2.50} = 0.0800$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116267
Data File Name : ...\717_064.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 20:20:08

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

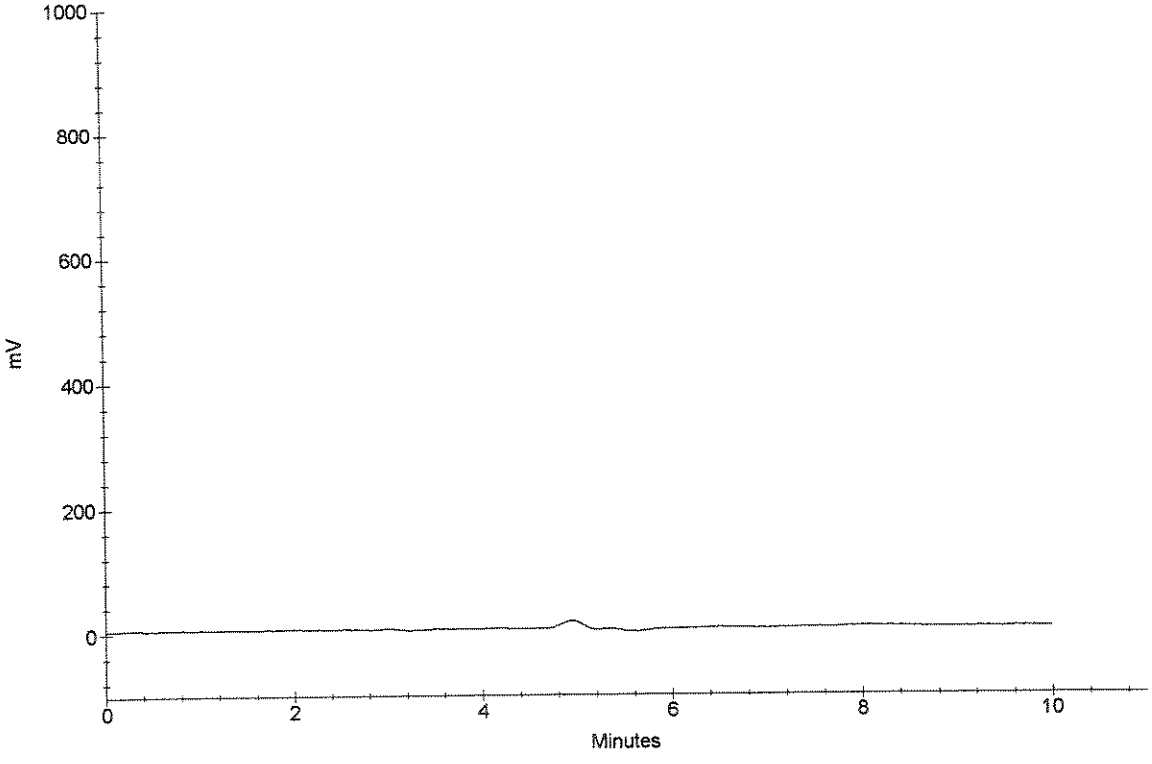
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08

1116267



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116267
Data File Name : ...\717_065.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 20:30:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

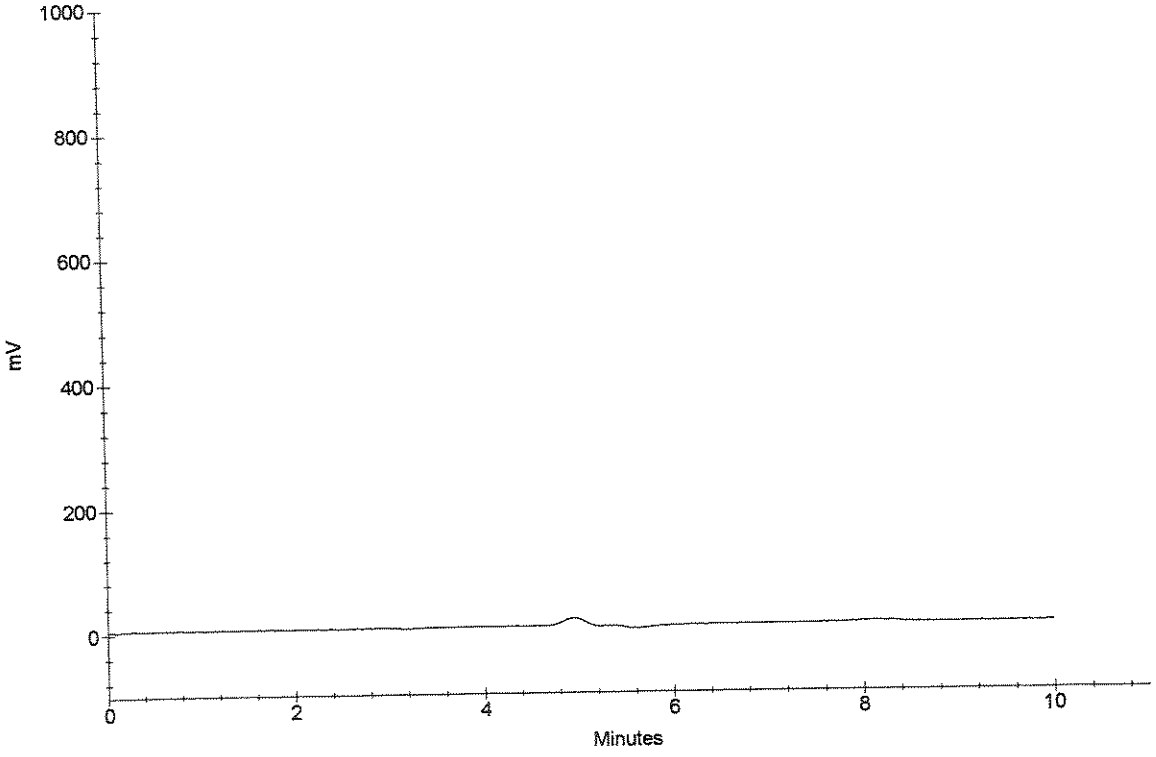
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CM 7/18/08

1116267



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116269
Data File Name : ...\717_066.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 20:40:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

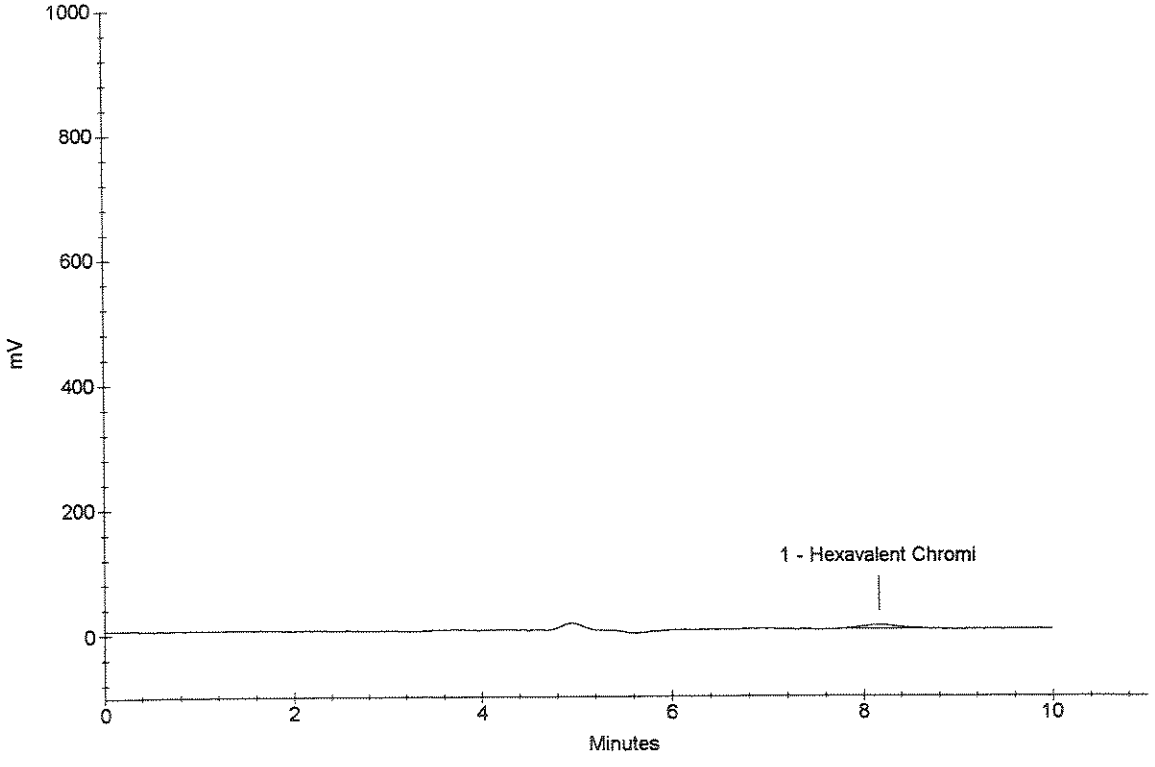
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.16	Hexavalent Chromi	0.0047	163903

OK 7/18/08 L x 100/2.58 = 0.182

1116269



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116269
Data File Name : ...\717_067.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 20:51:20

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

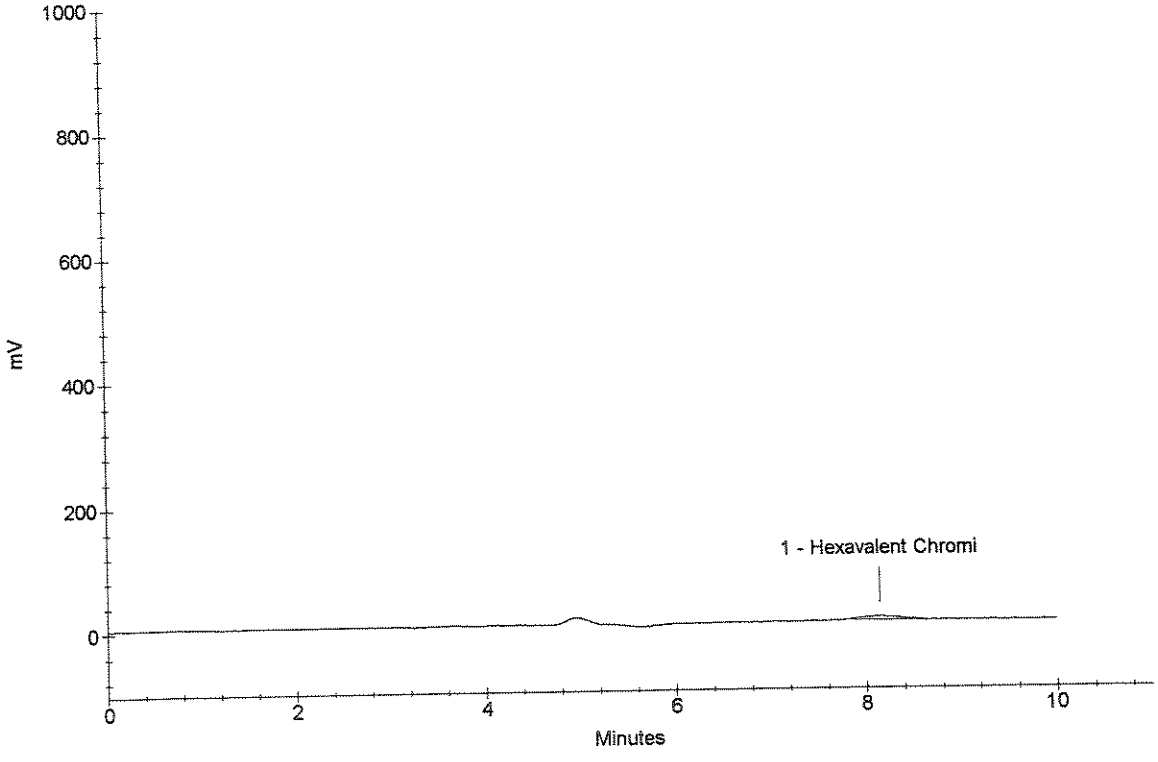
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.14	Hexavalent Chromi	0.0044	154561

OK

7/18/08 1116269 $\frac{1 \times 100}{2.58} = 0.171$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116271
Data File Name : ...\717_068.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:01:44

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

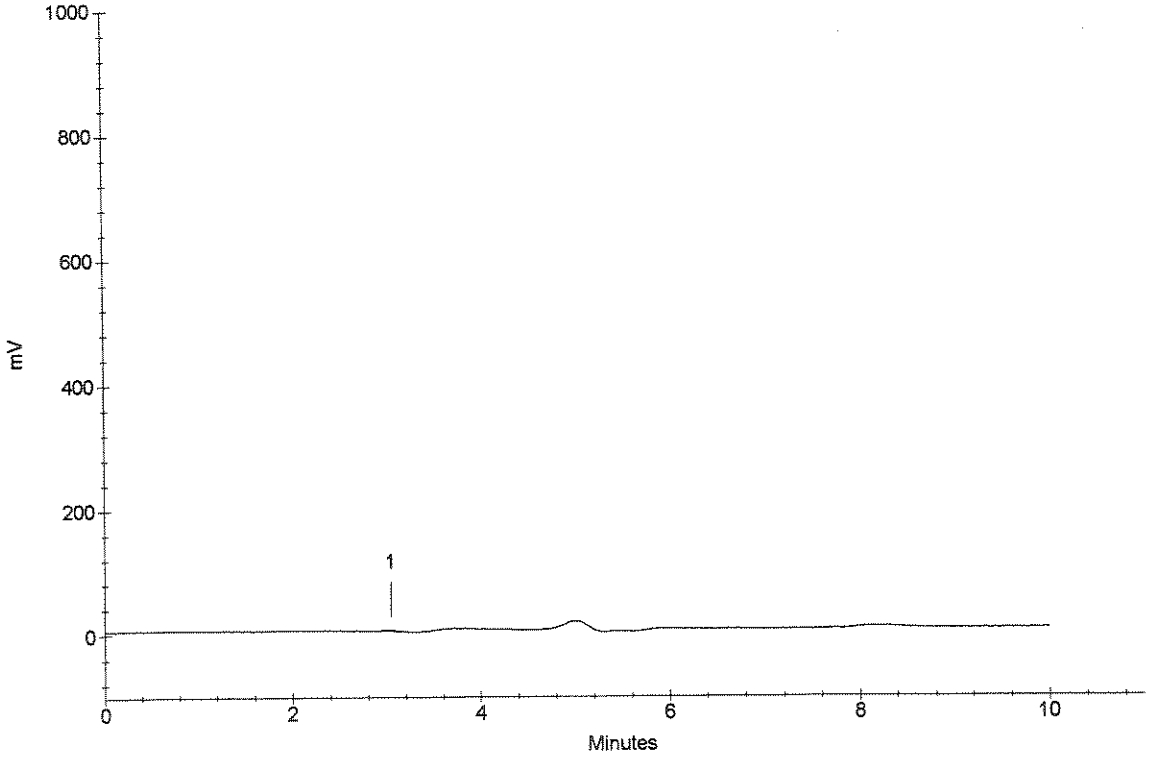
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116271



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116271
Data File Name : ...\717_069.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:12:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

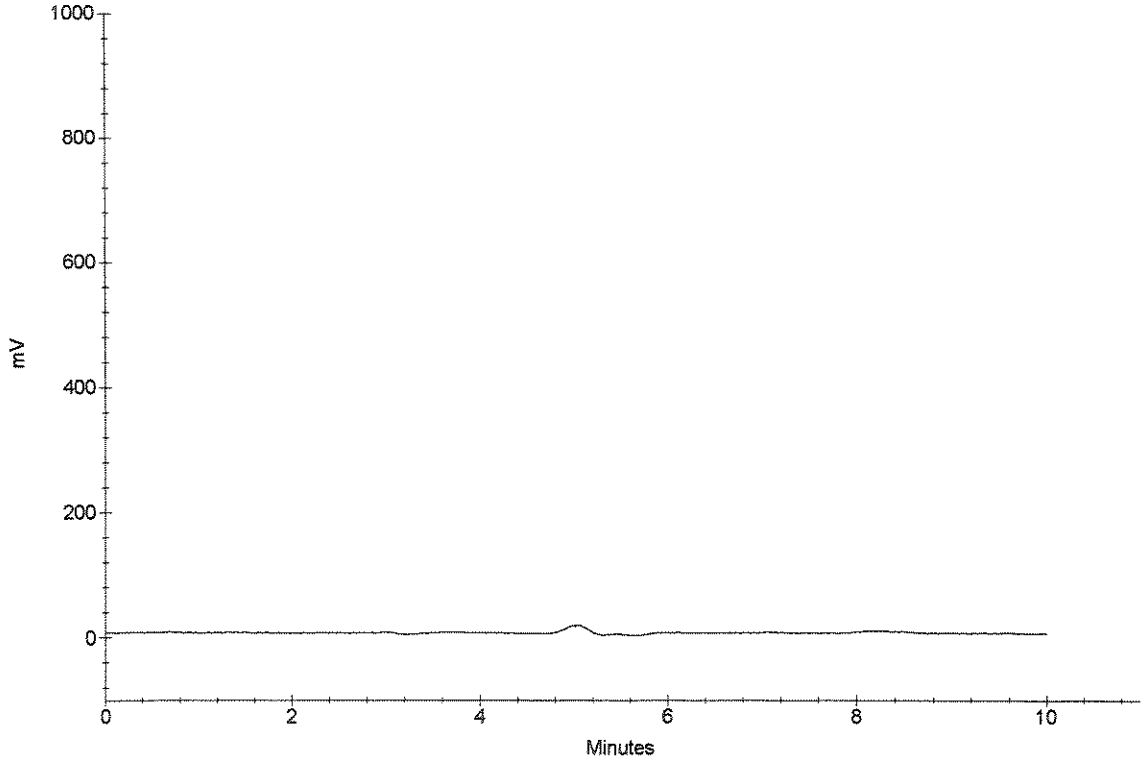
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116271



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116273
Data File Name : ...\717_070.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:22:32

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

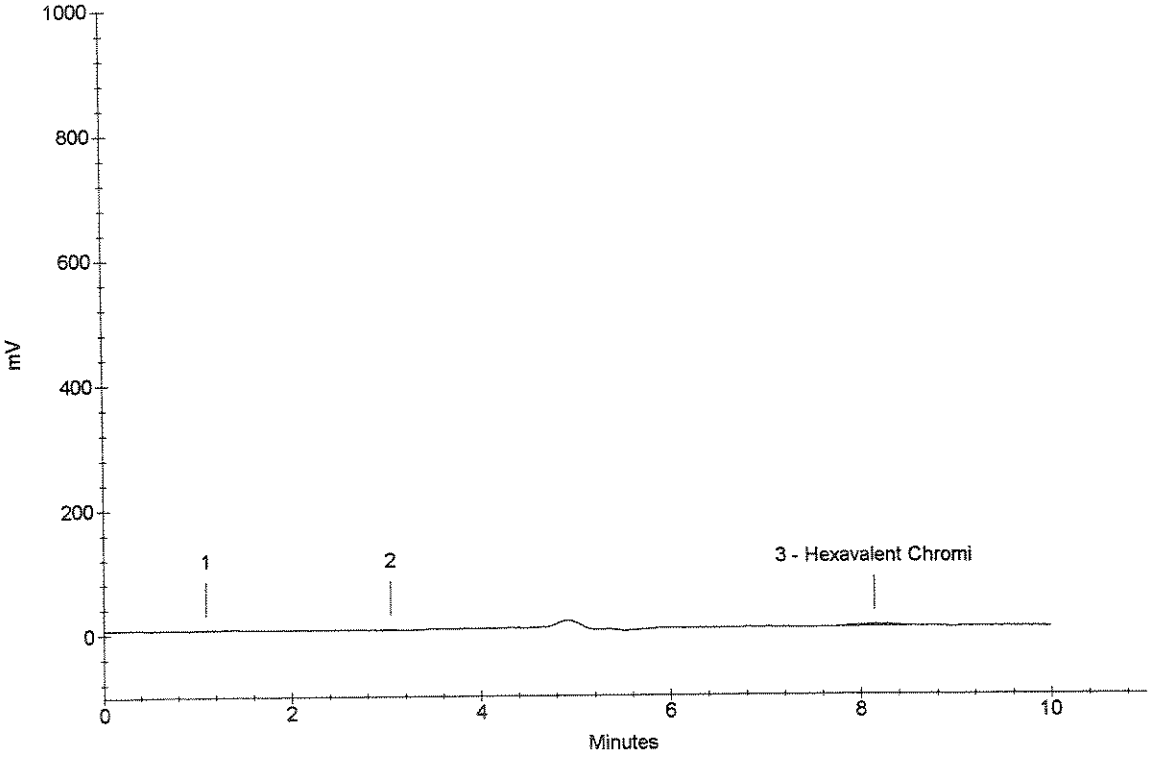
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.14	Hexavalent Chromi	0.0024	87565

OK

7/17/08 L x 100/2.50 = 0.0960

1116273



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116273
Data File Name : ...\717_071.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:32:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

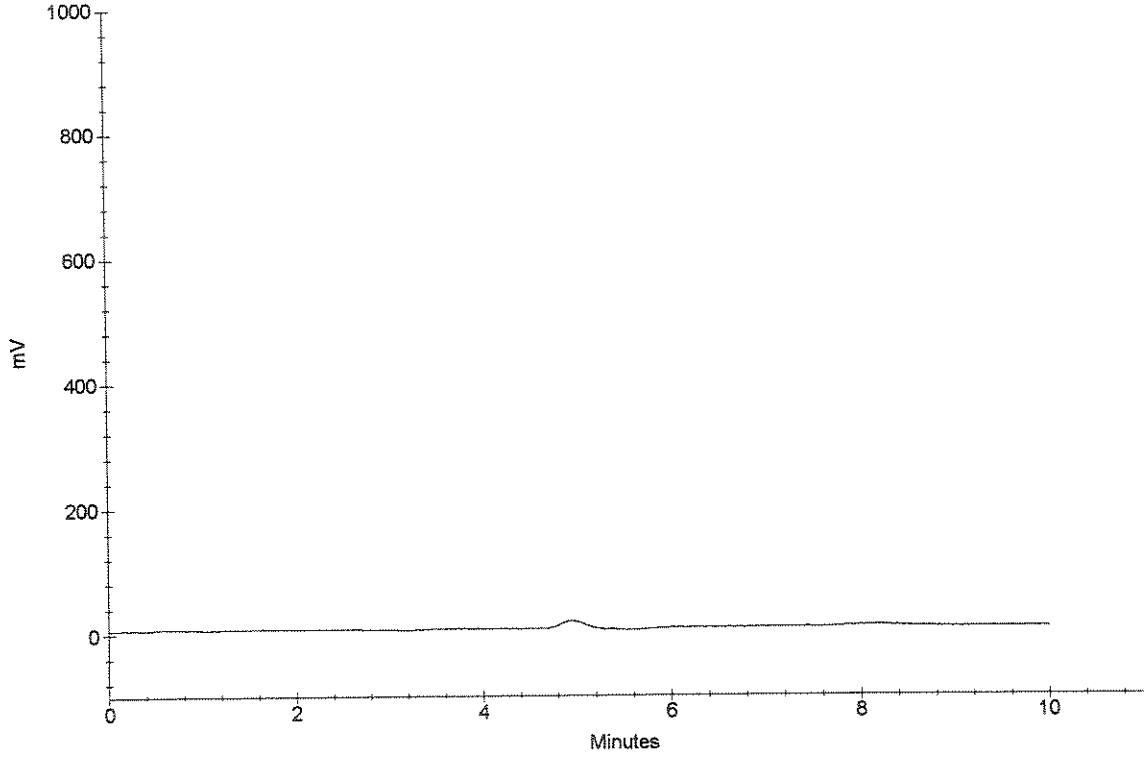
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116273



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116274
Data File Name : ...\717_072.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:43:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

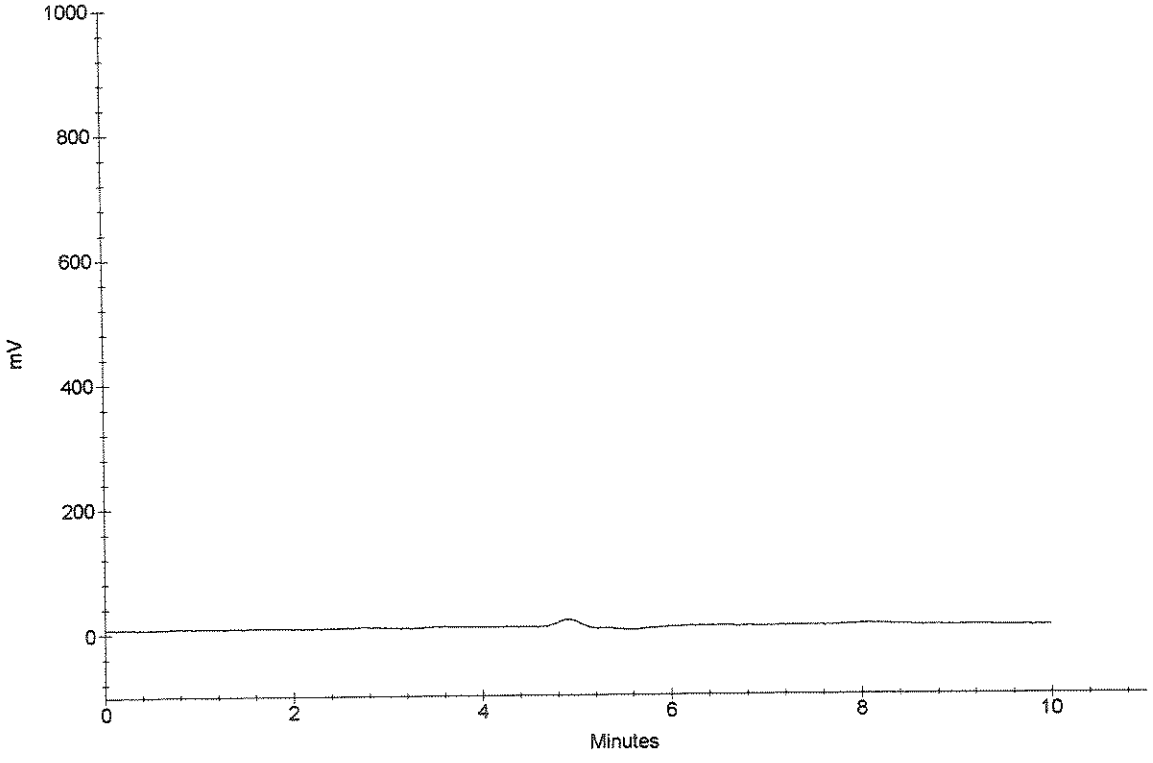
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CW 7/18/08

1116274



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116274
Data File Name : ...\717_073.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 21:53:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

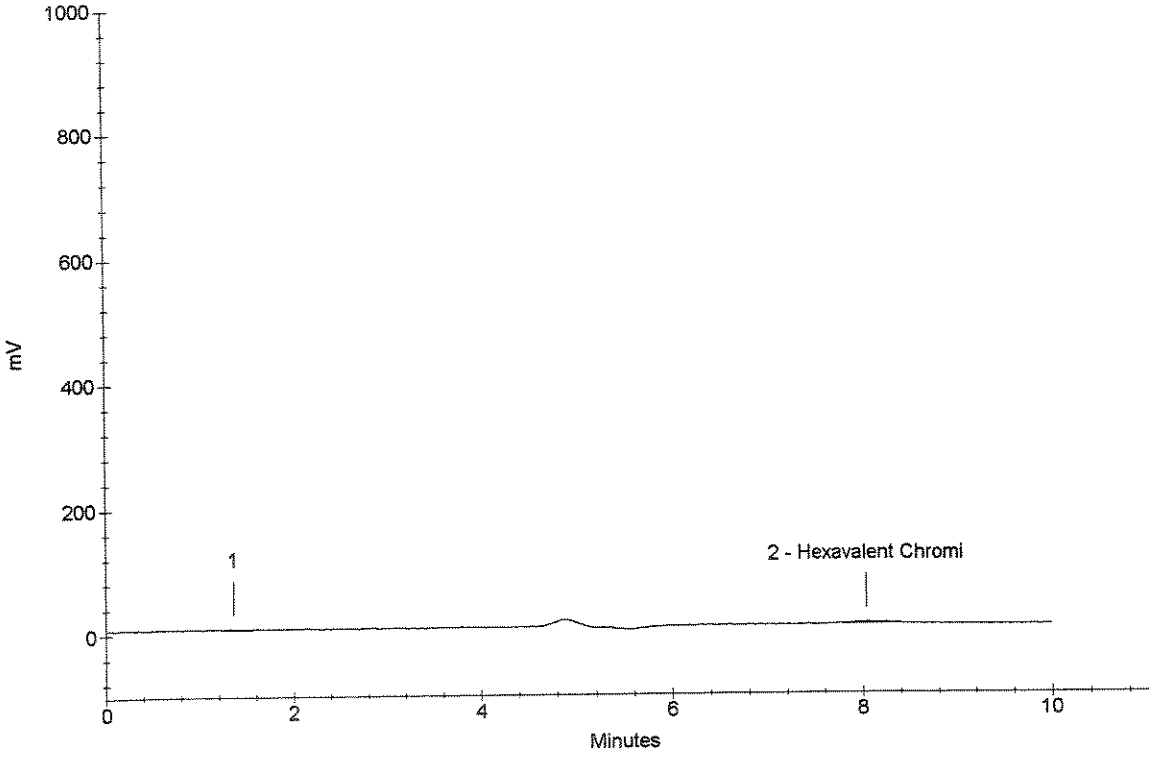
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.04	Hexavalent Chromi	0.0017	64717

7/17/08
1116274

$\frac{L}{2.53} \times 100 = 0.0672$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116277
Data File Name : ...\717_080.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:06:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

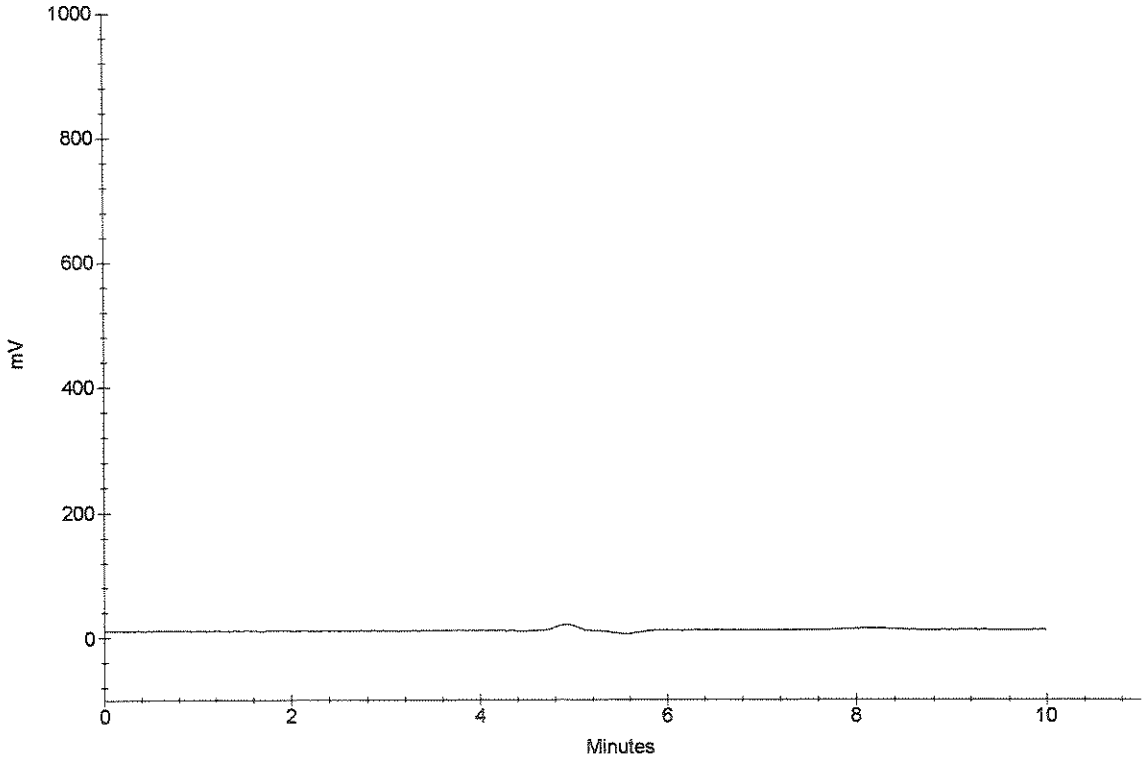
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/17/08
1116277



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116277
Data File Name : ...\717_081.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:16:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

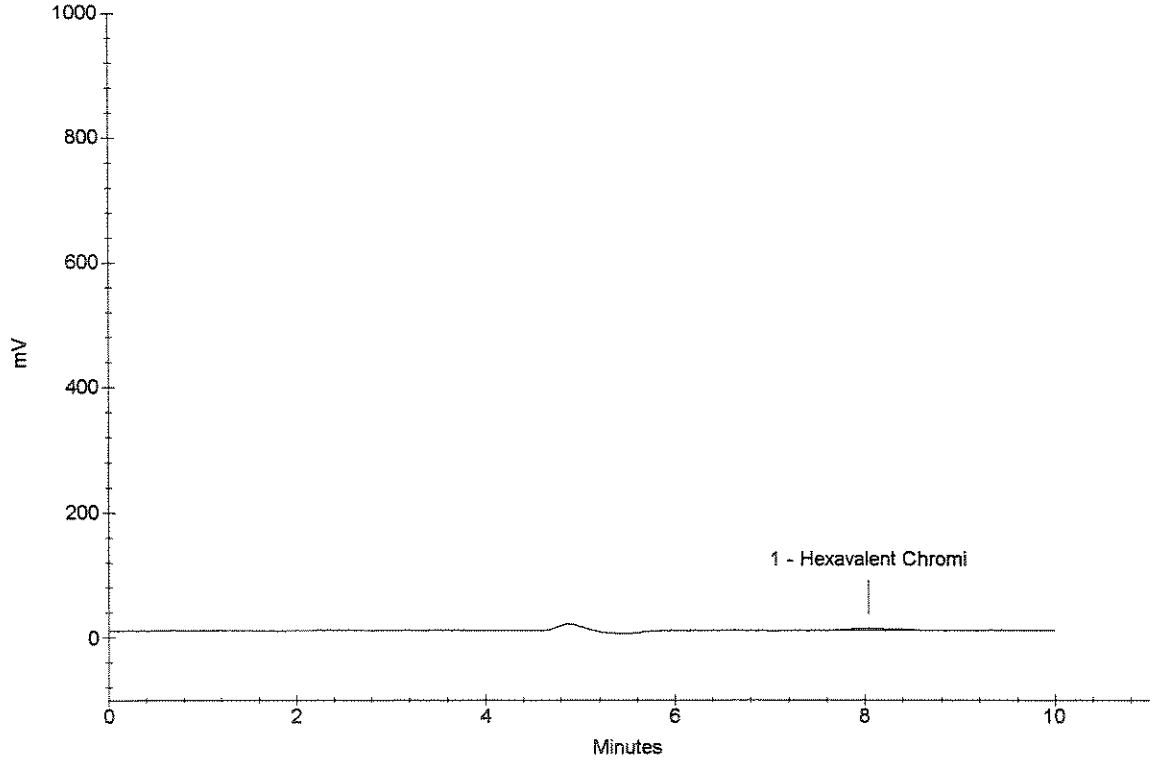
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	0.0025	89802

OK 7/17/08 x100/2.50 = 0.100

1116277



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116278
Data File Name : ...\717_082.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:27:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

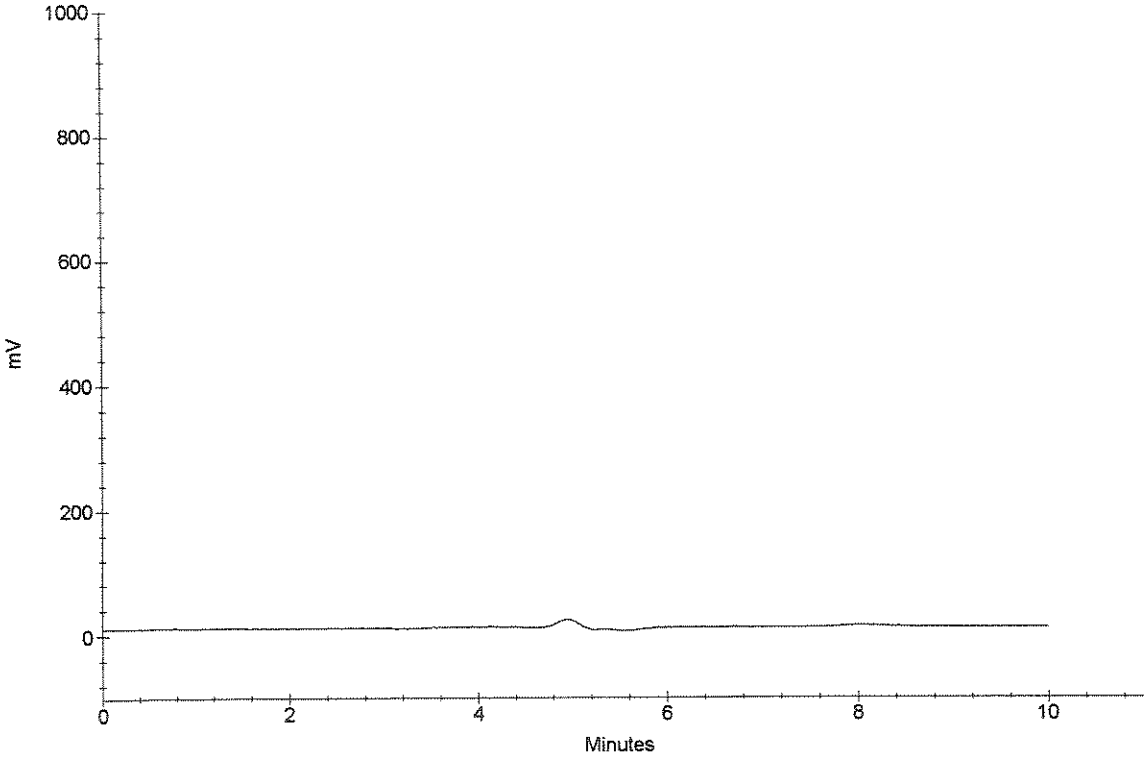
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116278



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116278
Data File Name : ...\717_083.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:37:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

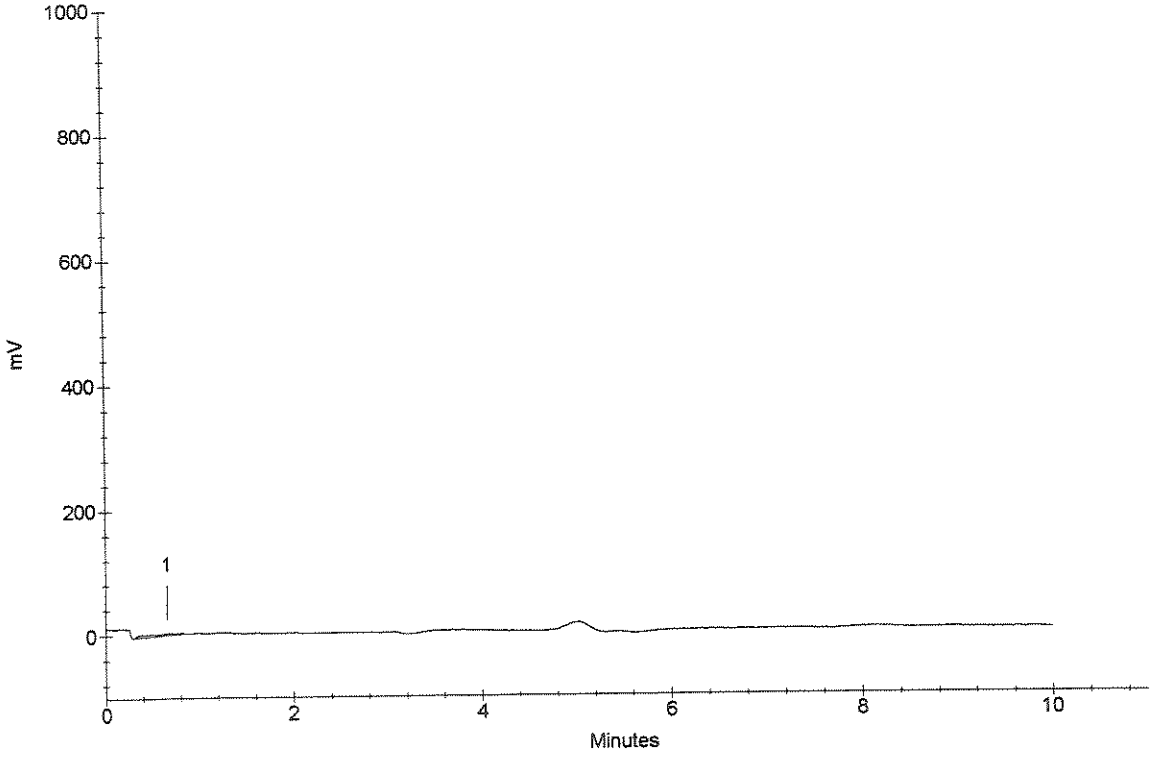
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CVT 7/18/08

1116278



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116279
Data File Name : ...\717_084.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:48:11

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

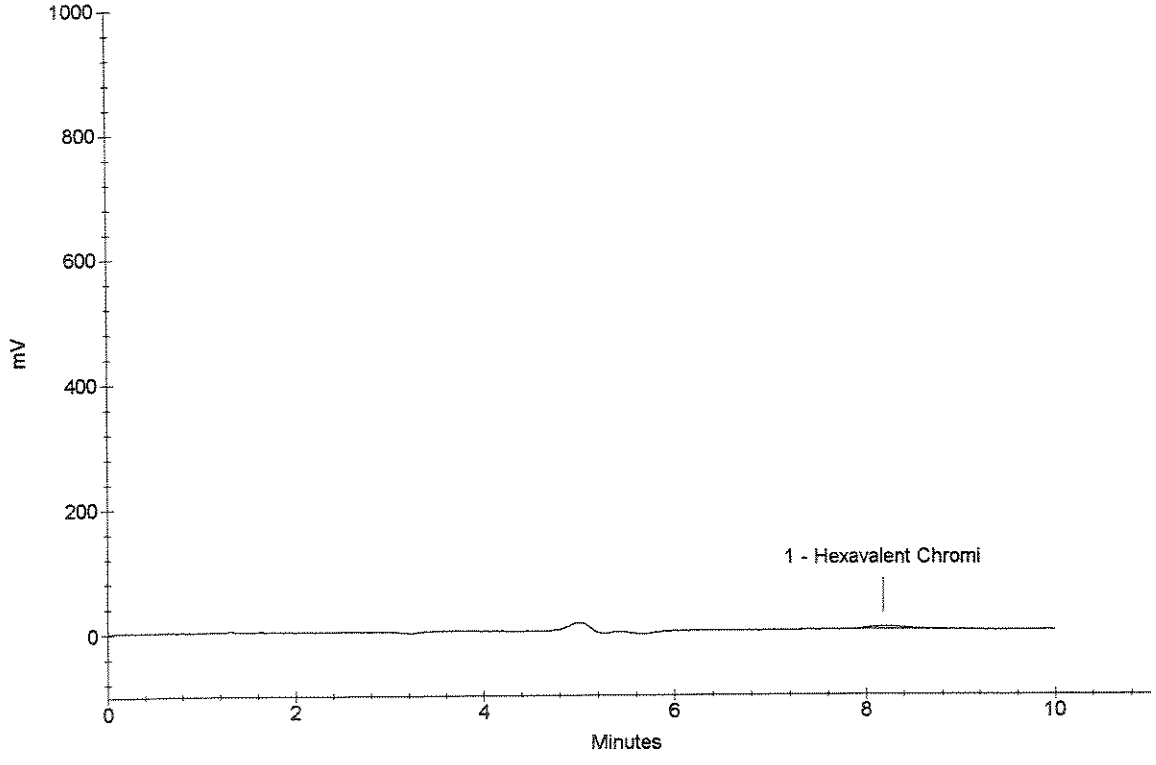
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.18	Hexavalent Chromi	0.0029	104751

OK
7/18/08
1116279
$\frac{\text{L} \times 100}{2.58} = 0.112$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116279
Data File Name : ...\717_085.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/17/08 23:58:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

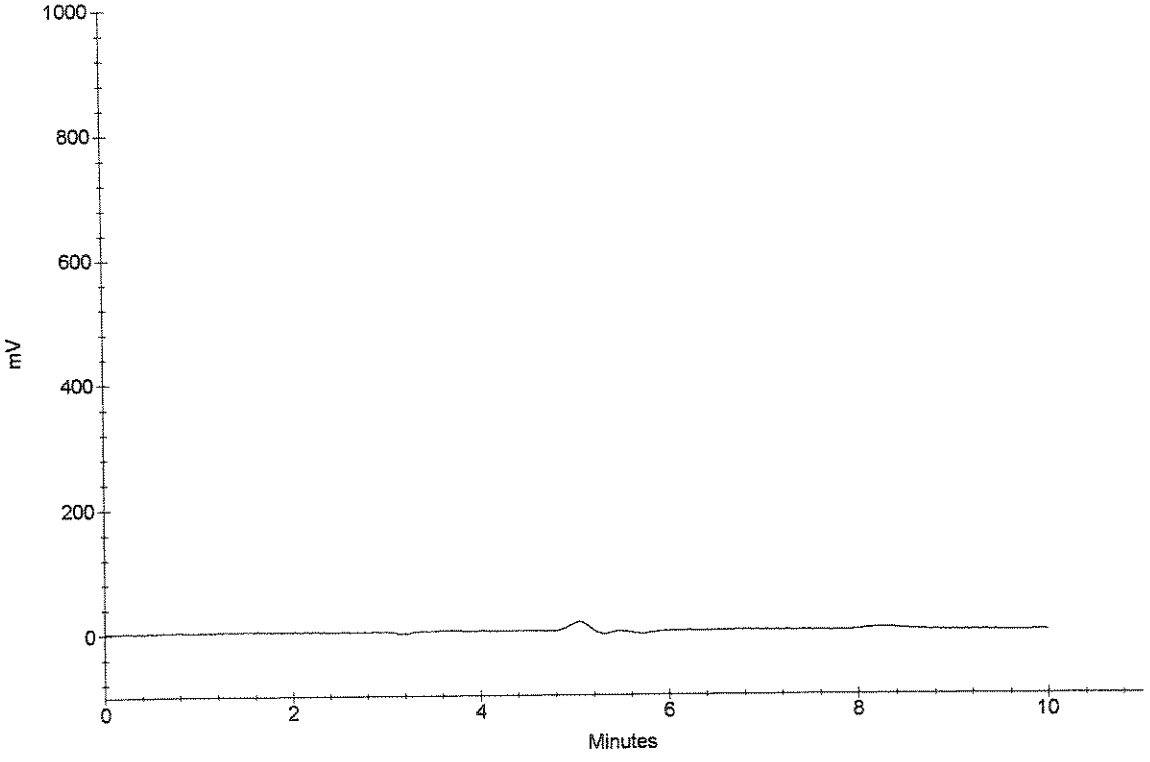
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116279



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802
Data File Name : ...\717_086.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 00:08:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

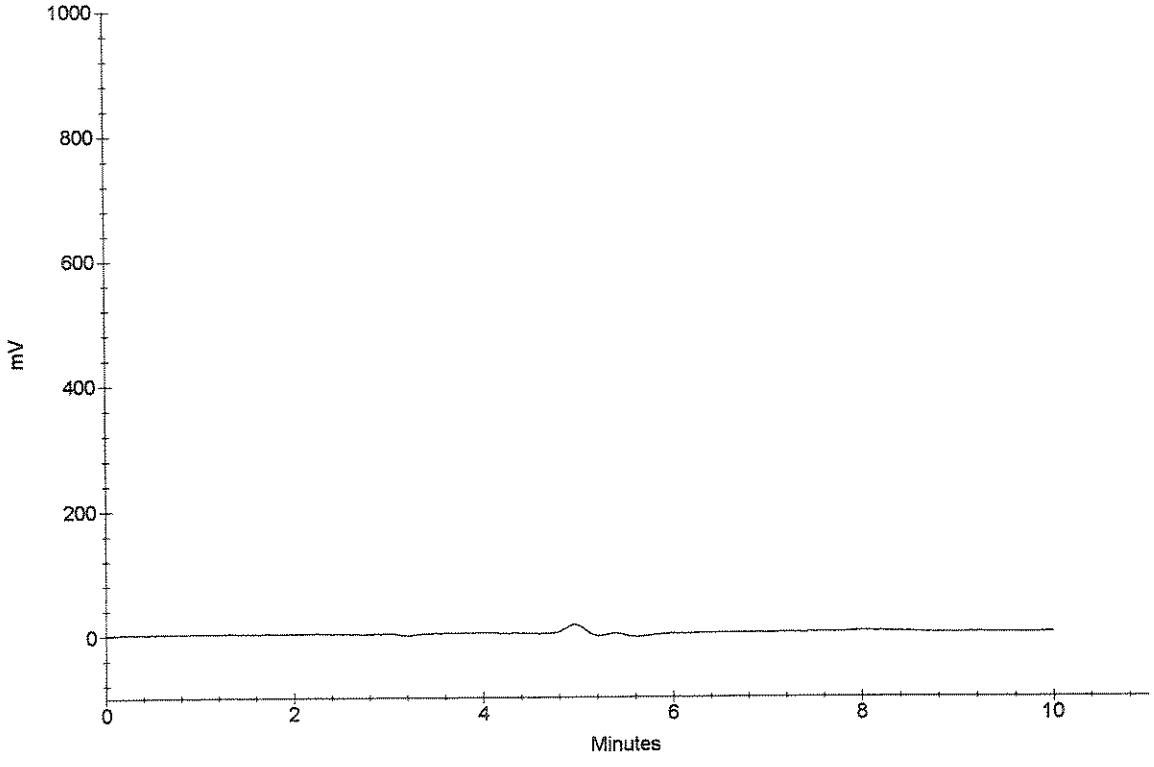
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116802



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802
Data File Name : ...\717_087.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 00:19:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

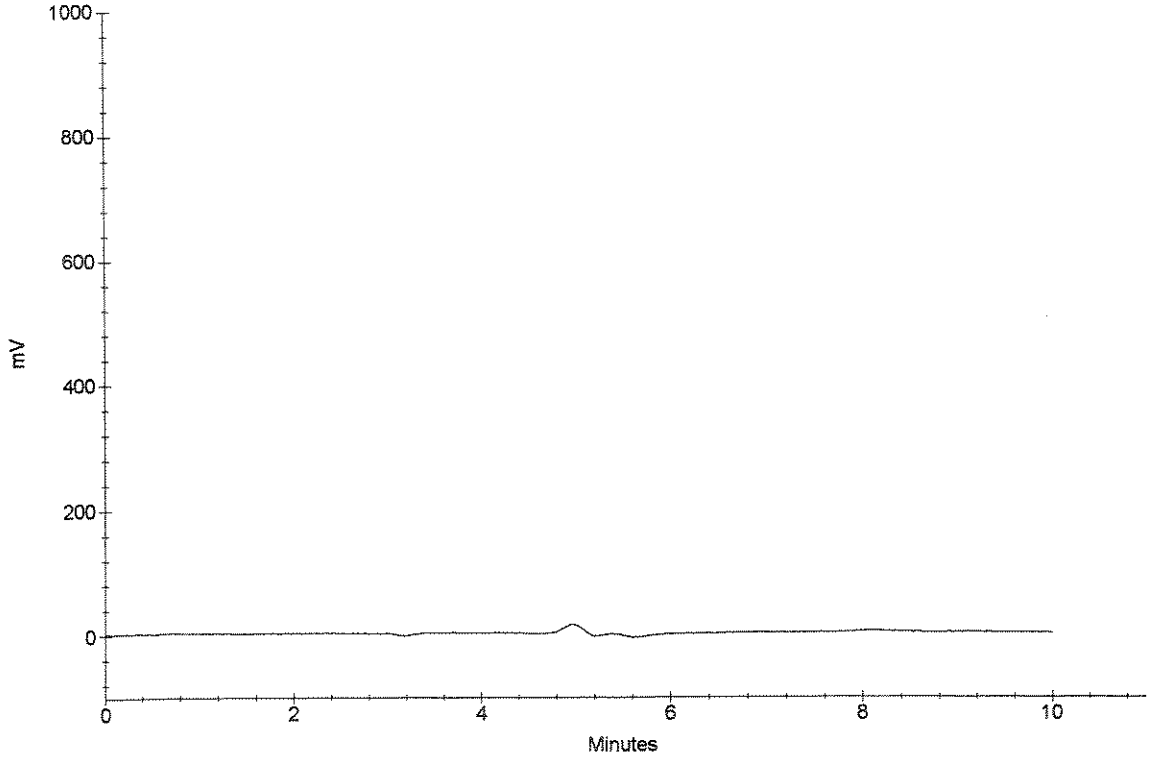
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116802



00345

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 DUP
Data File Name : ...\717_088.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 00:29:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

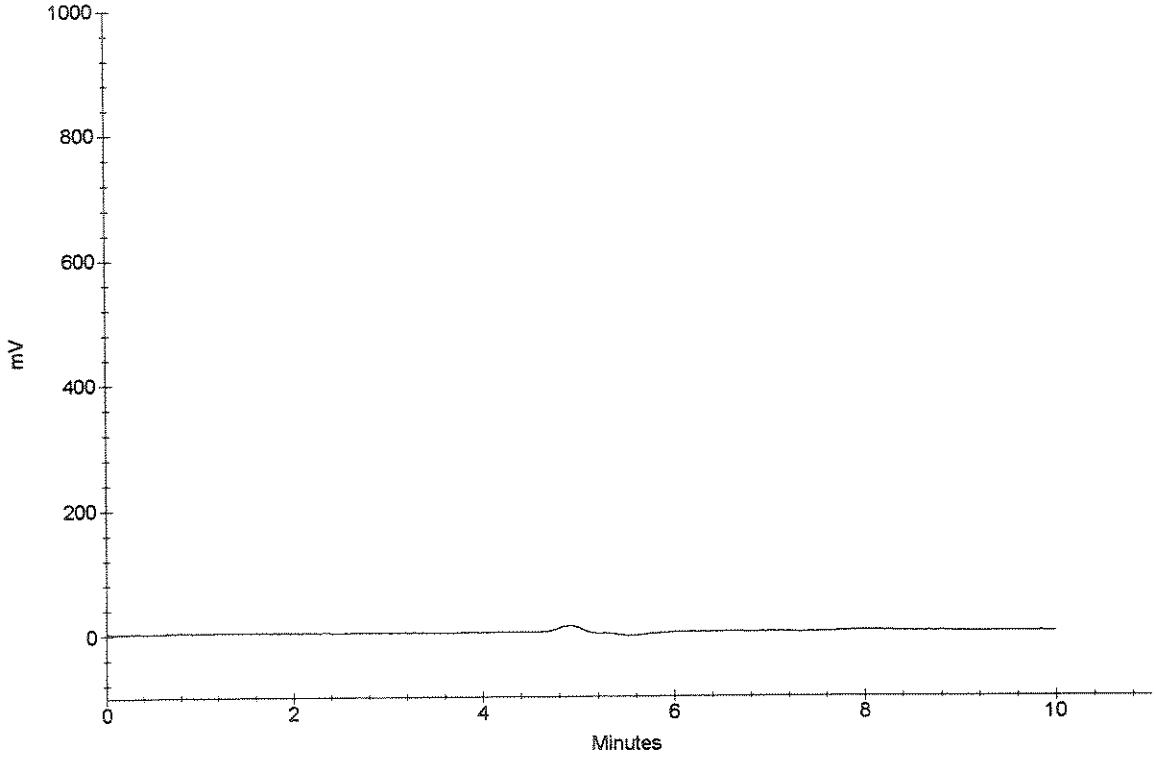
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

7/18/08

1116802 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 DUP
Data File Name : ...\717_089.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 00:40:09

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

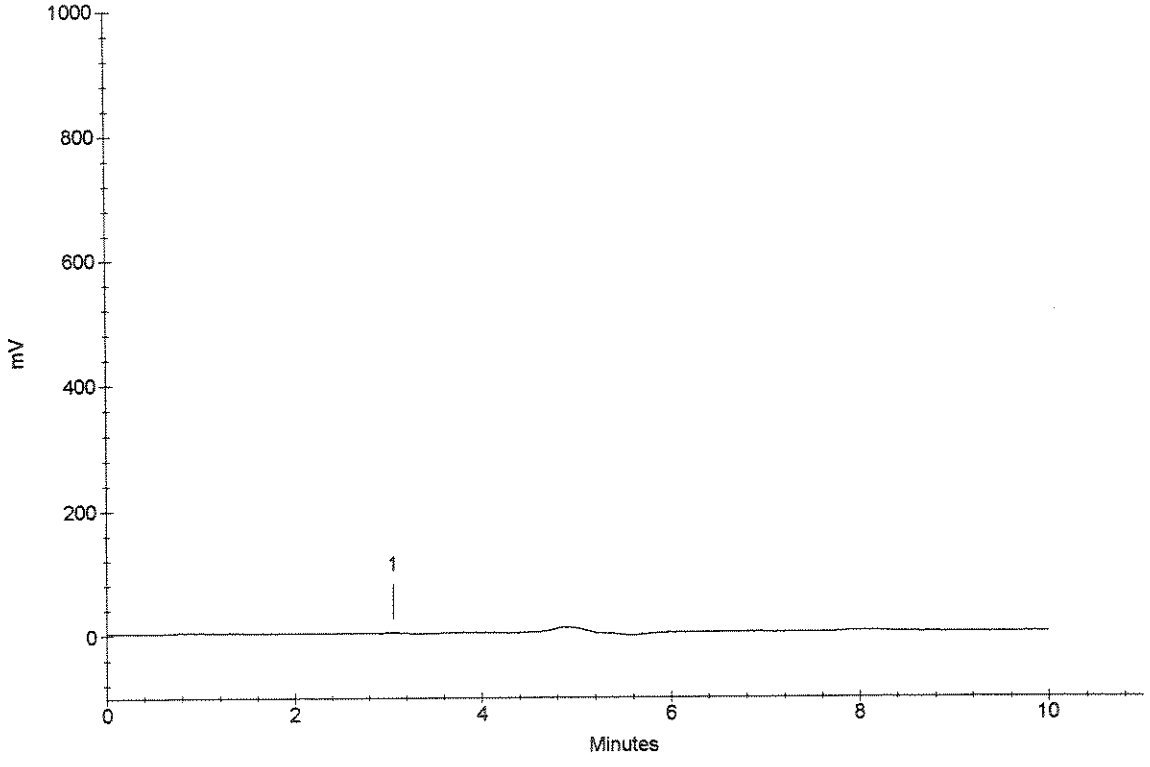
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116802 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 SOL SPK
Data File Name : ...\717_090.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 00:50:33

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

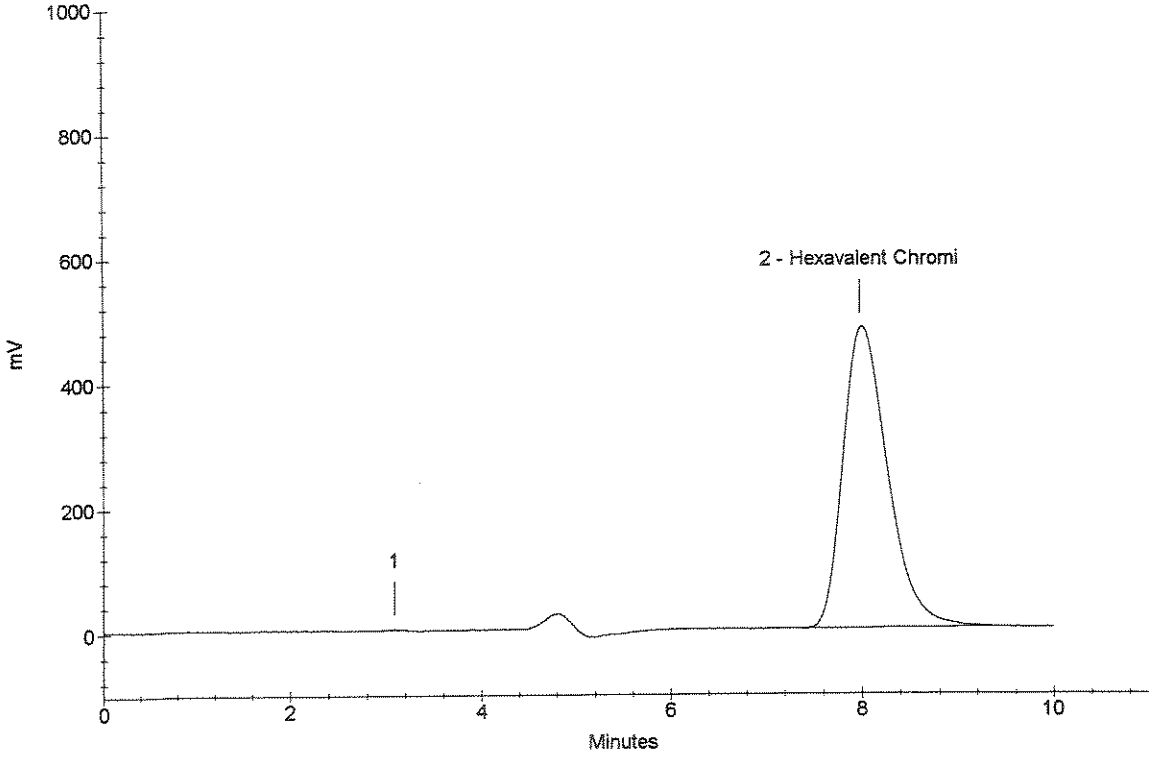
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.00	Hexavalent Chromi	0.9263	15395491

7/18/08
1116802 SOL SPK

$L \times \frac{100}{2.52} = 36.8$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 SOL SPK
Data File Name : ...\717_091.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:00:57

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

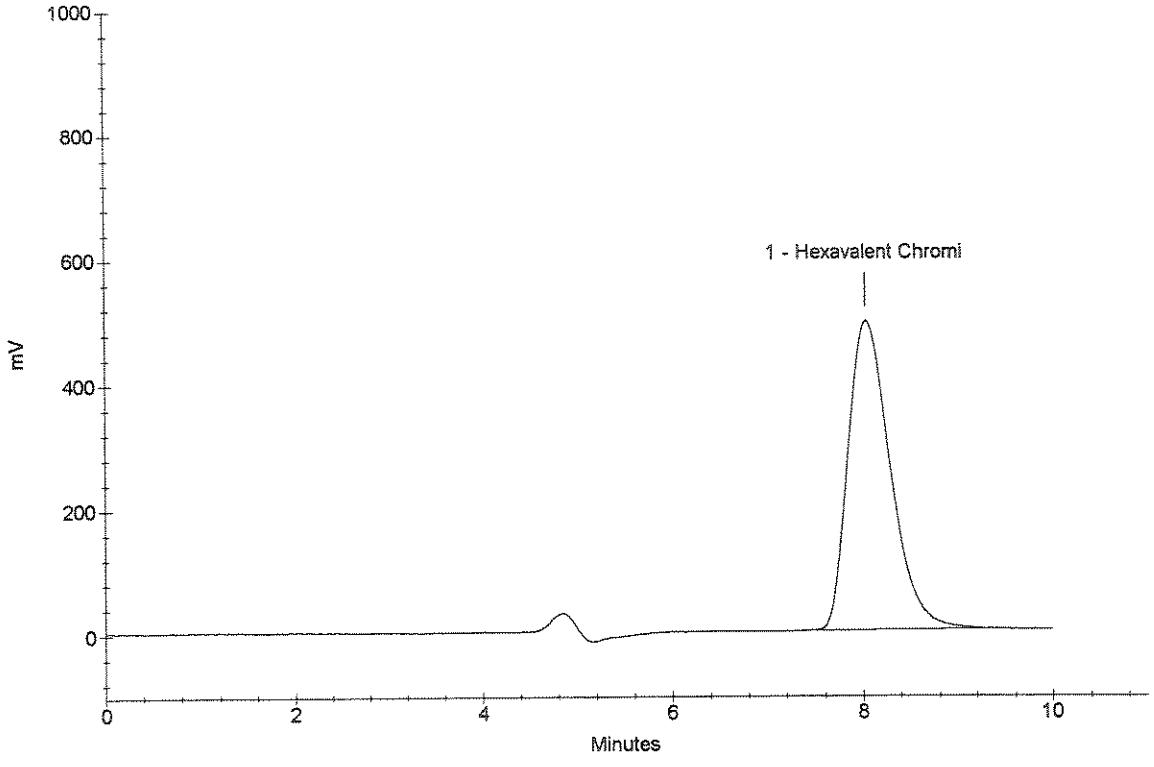
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	0.9183	15262389

7/18/08
1116802 SOL SPK

$L \times \frac{100}{2.52} = 36.4$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 INSOL SPK
Data File Name : ...\717_092.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:11:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

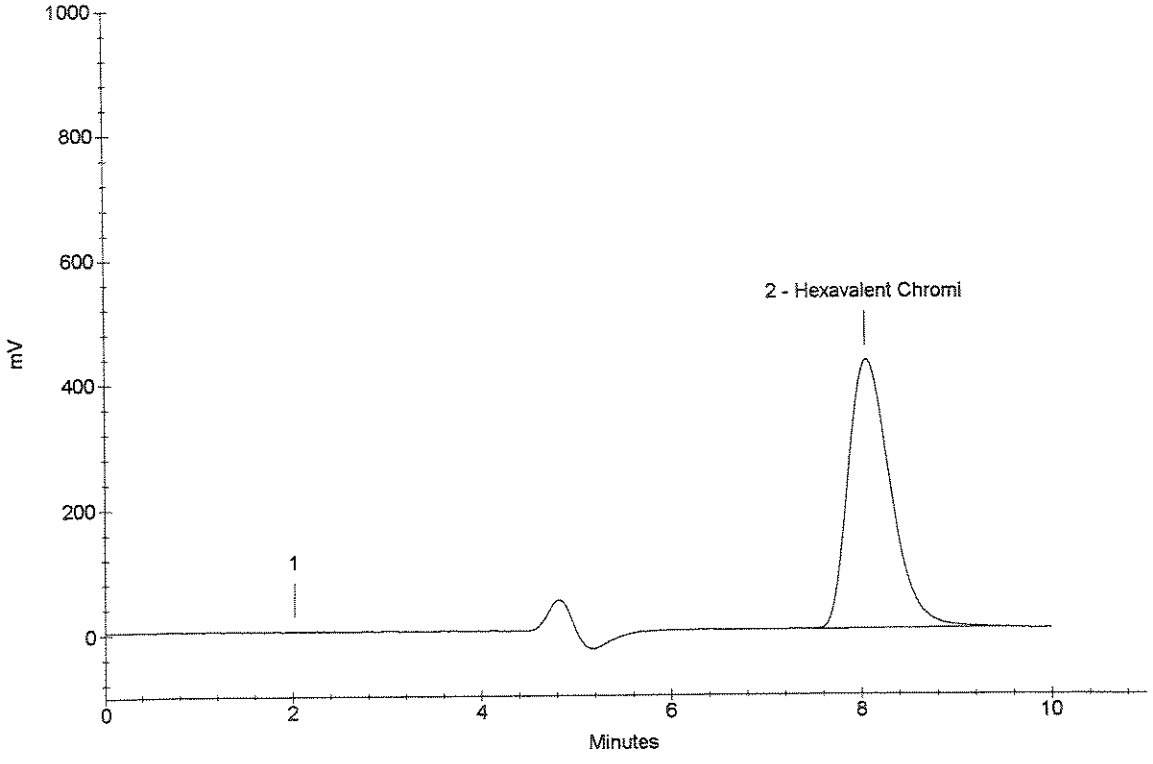
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.06	Hexavalent Chromi OK	15.7918	13123918

CM 7/18/08
1116802 INSOL SPK

L x 100/2.50 = 632



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 INSOL SPK
Data File Name : ...\717_093.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:21:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

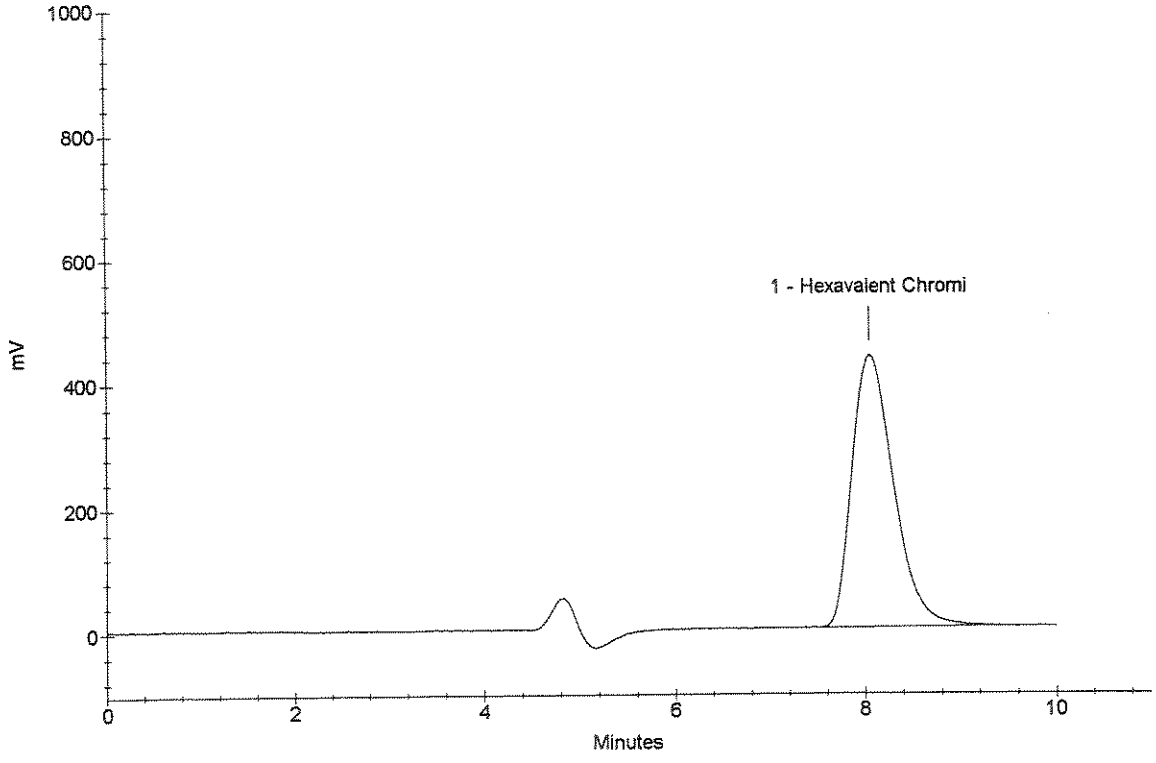
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.06	Hexavalent Chromi	15.8609	13181293

OK
7/18/08

1116802 INSOL SPK

$\frac{L}{2.50} \times 100 = 634$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 PVS
Data File Name : ...\717_094.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:32:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

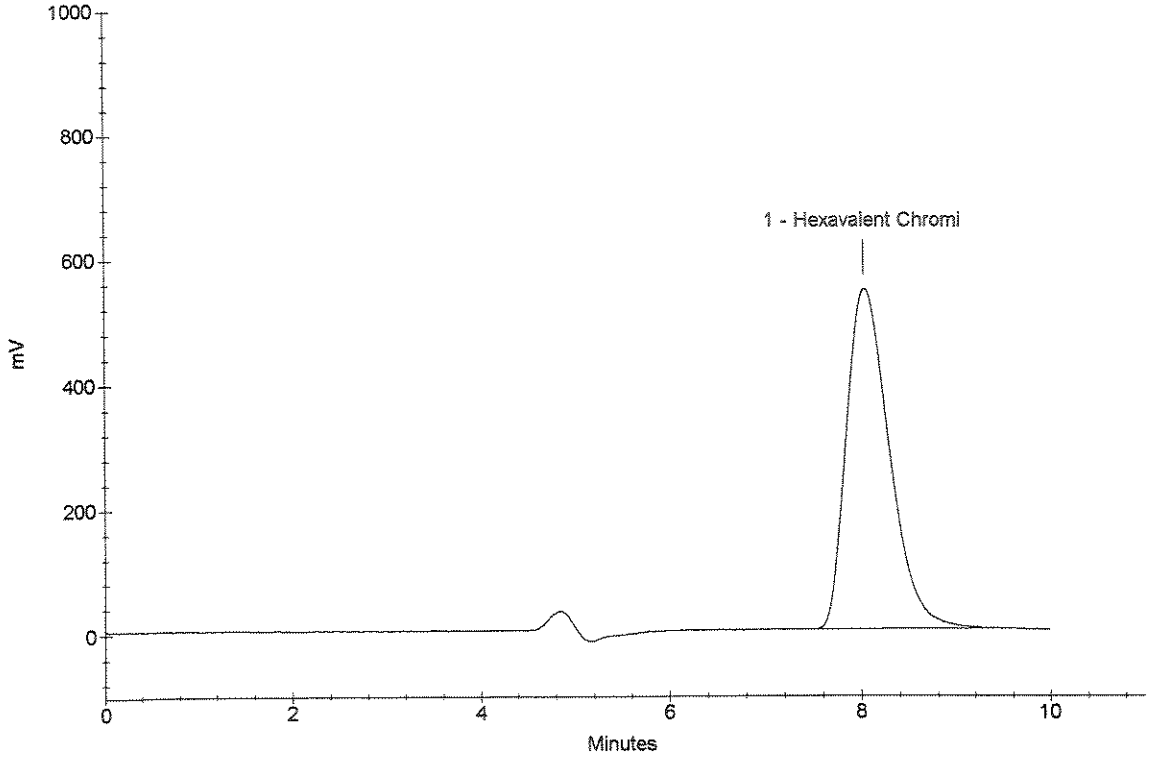
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	1.0201	16953462

7/18/08

1116802 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116802 PVS
Data File Name : ...\717_095.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:42:34

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

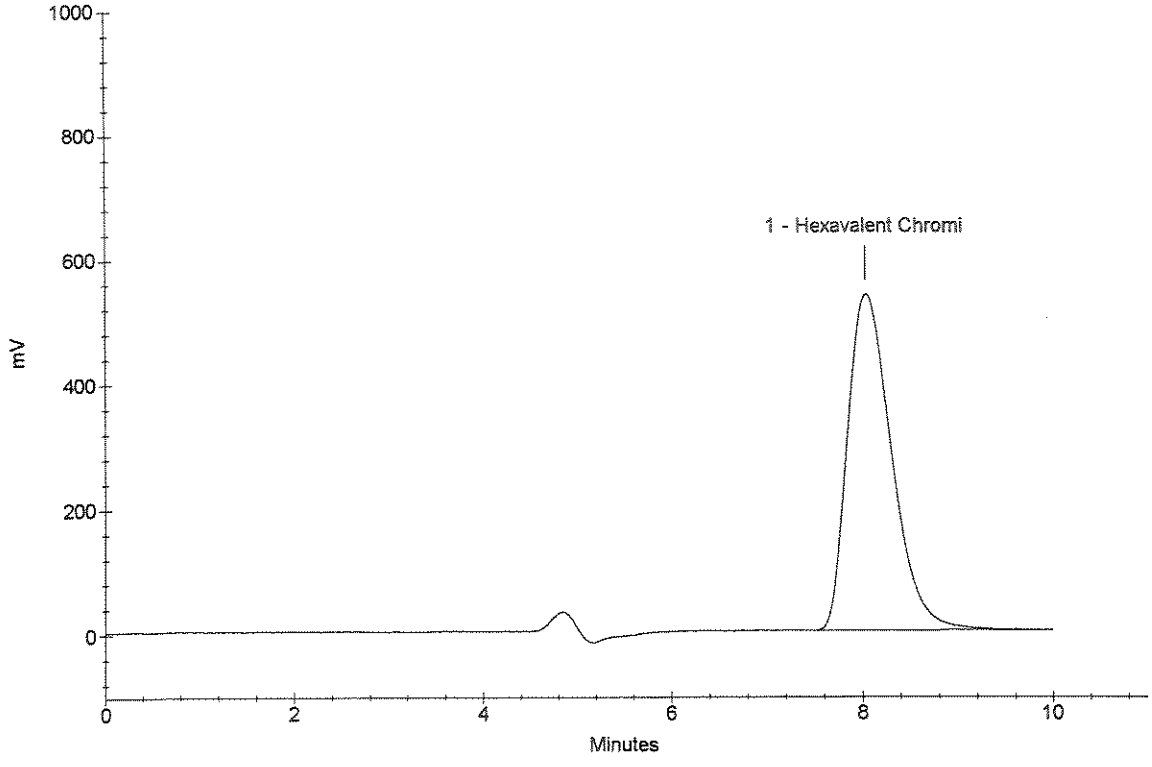
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.04	Hexavalent Chromi	1.0320	17151512

7/18/08

1116802 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116803
Data File Name : ...\717_096.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 01:52:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

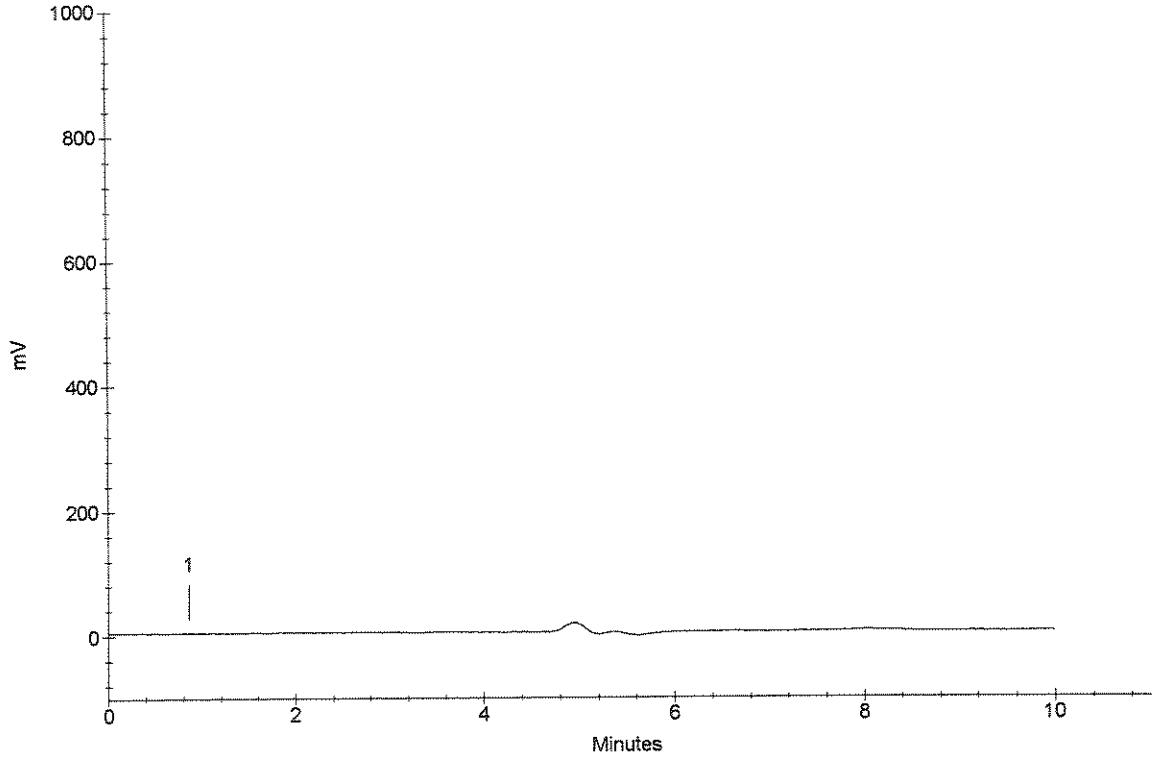
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK 7/16/8

1116803



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116803
Data File Name : ...\717_097.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:03:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

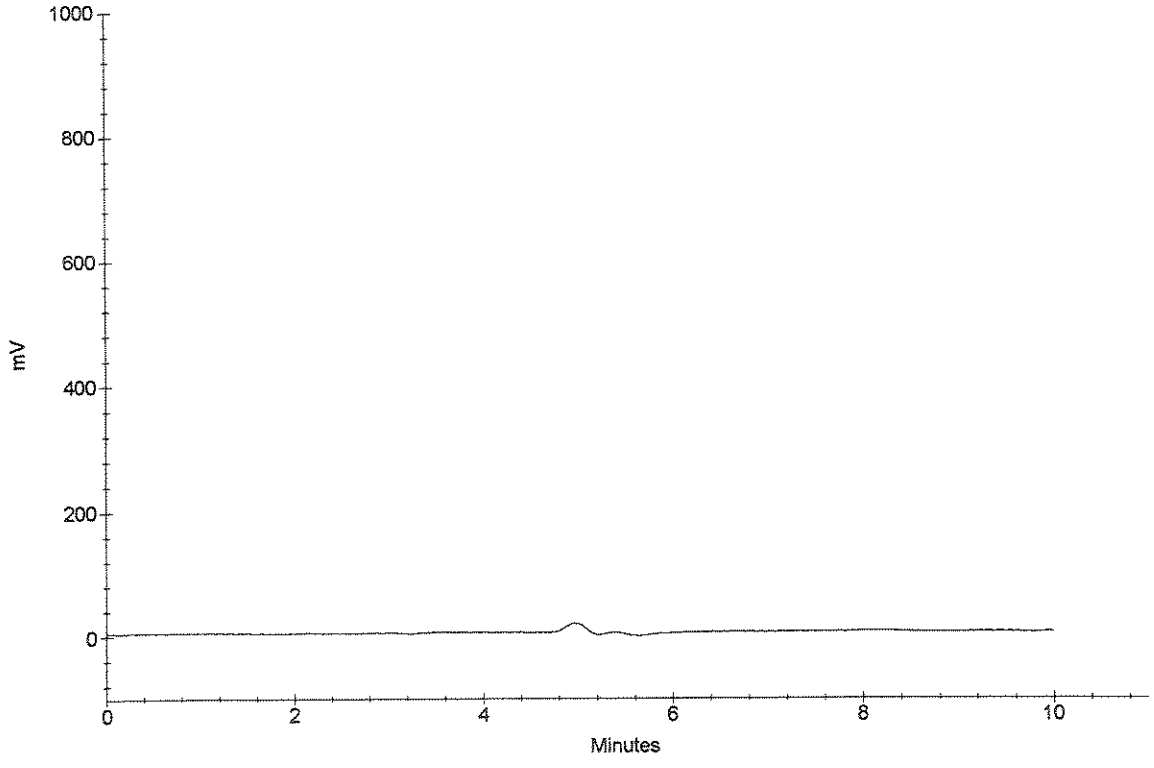
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116803



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116804
Data File Name : ...\717_098.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:13:46

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

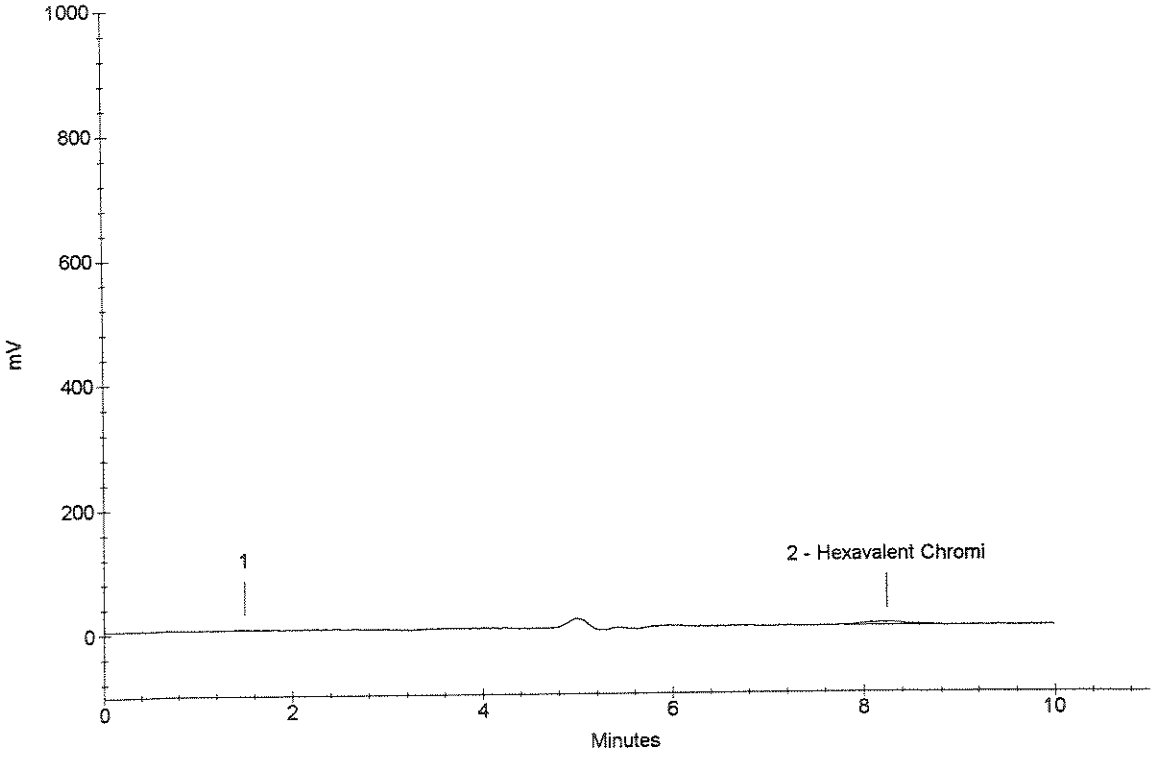
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.24	Hexavalent Chromi	0.0038	132793

OK

7/18/08 1116804 $1 \times \frac{100}{2.51} = 0.151$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116804
Data File Name : ...\717_099.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:24:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

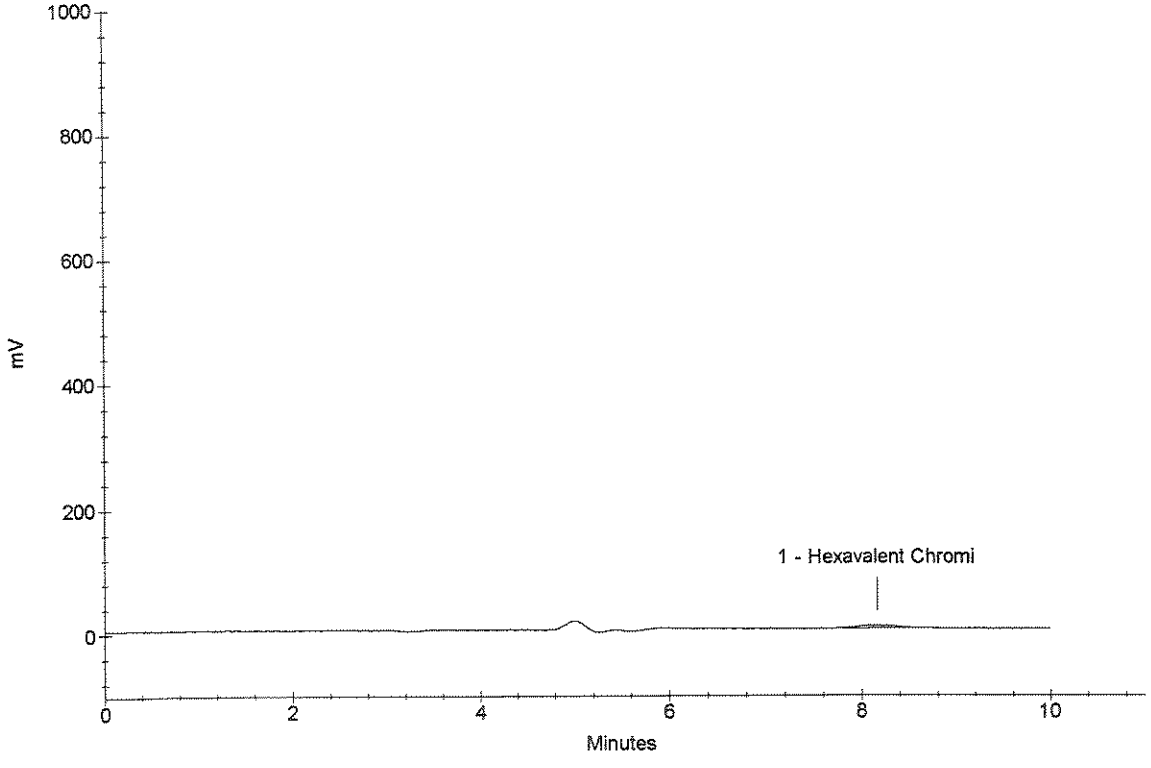
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.16	Hexavalent Chromi OK	0.0032	114053

7/19/08
1116804

$L \times \frac{100}{2.51} = 0.127$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116805
Data File Name : ...\717_100.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:34:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

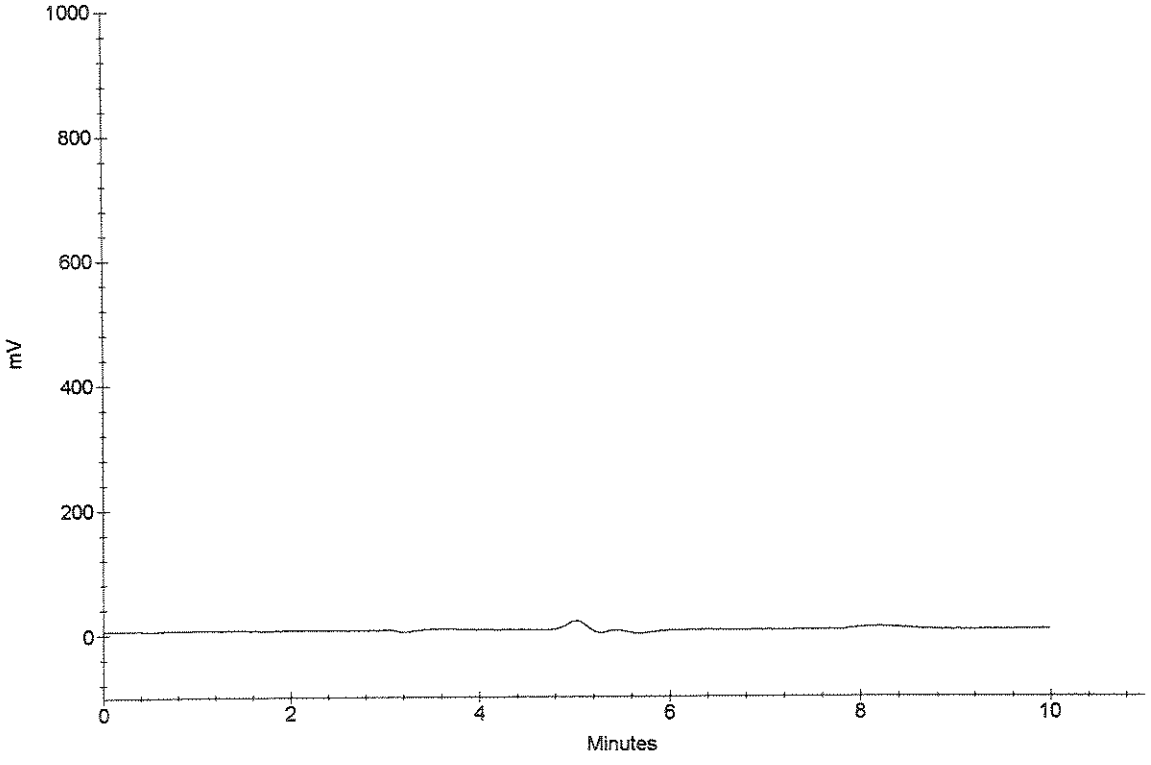
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116805



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116805
Data File Name : ...\717_101.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:44:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

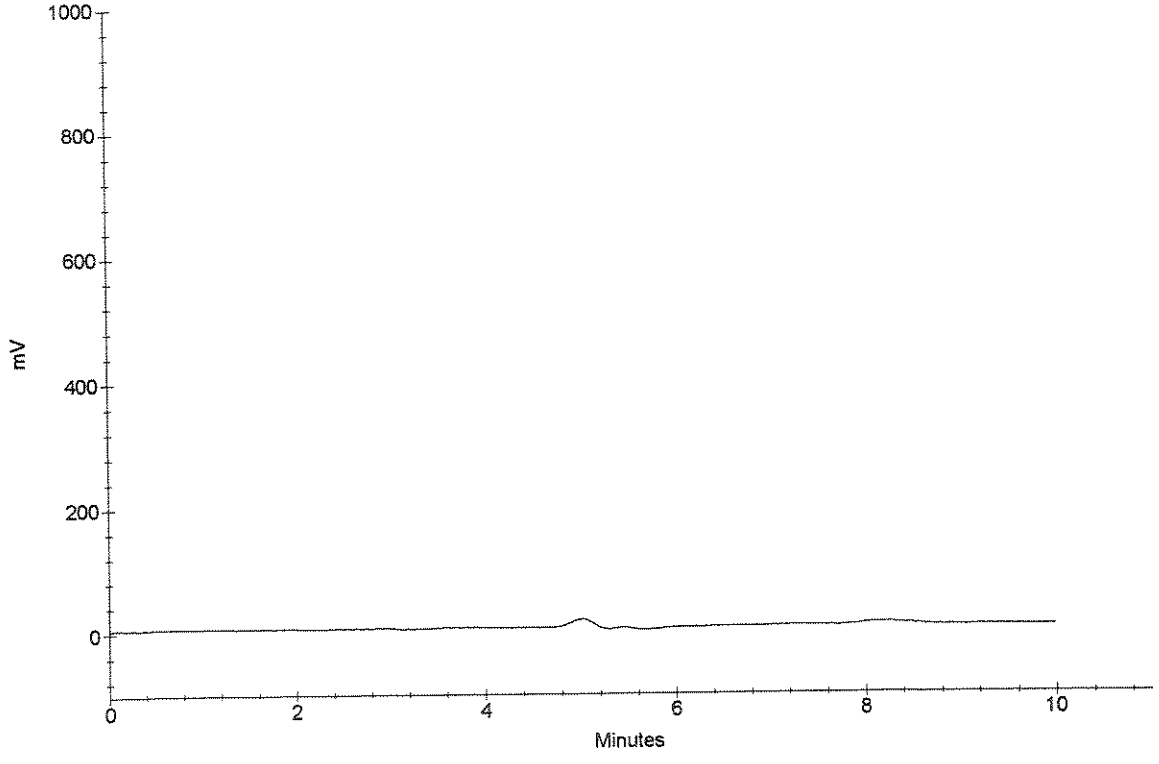
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

7/18/08

1116805



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116806
Data File Name : ...\717_102.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 02:55:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

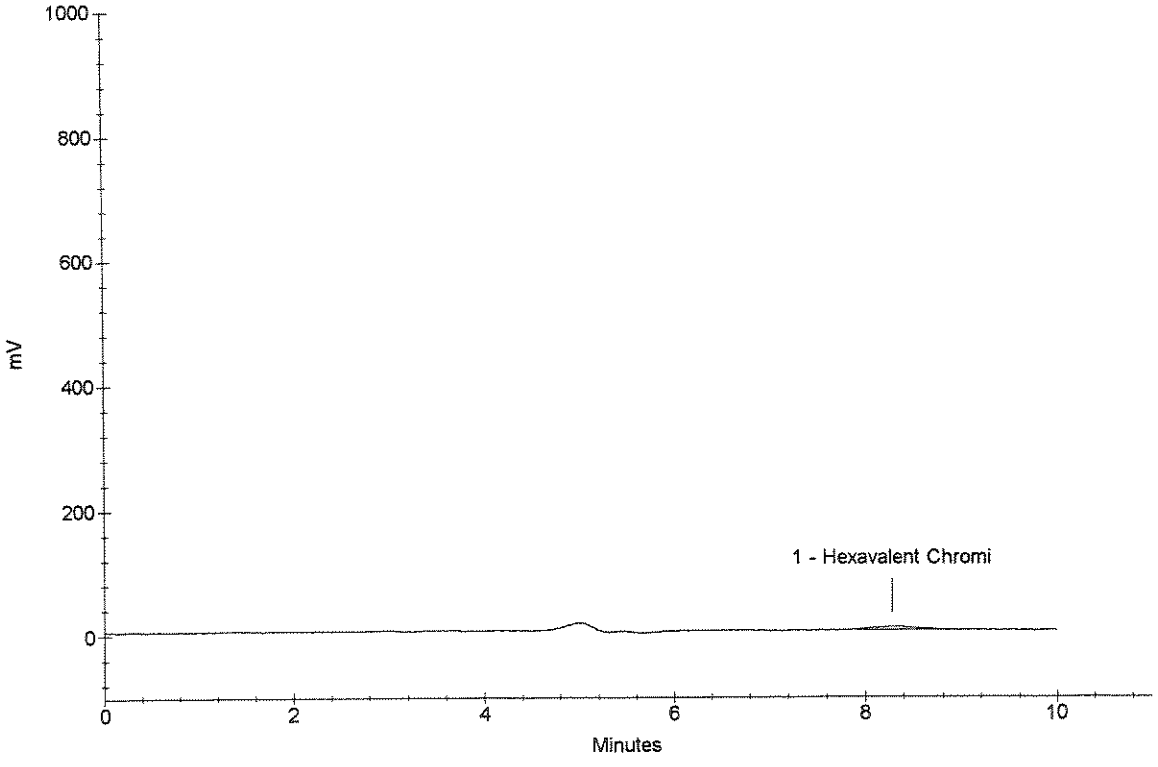
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.28	Hexavalent Chromi	0.0043	148744

7/18/08 L x 100/2.55 = 0.169
1116806



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116806
Data File Name : ...\717_103.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:05:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

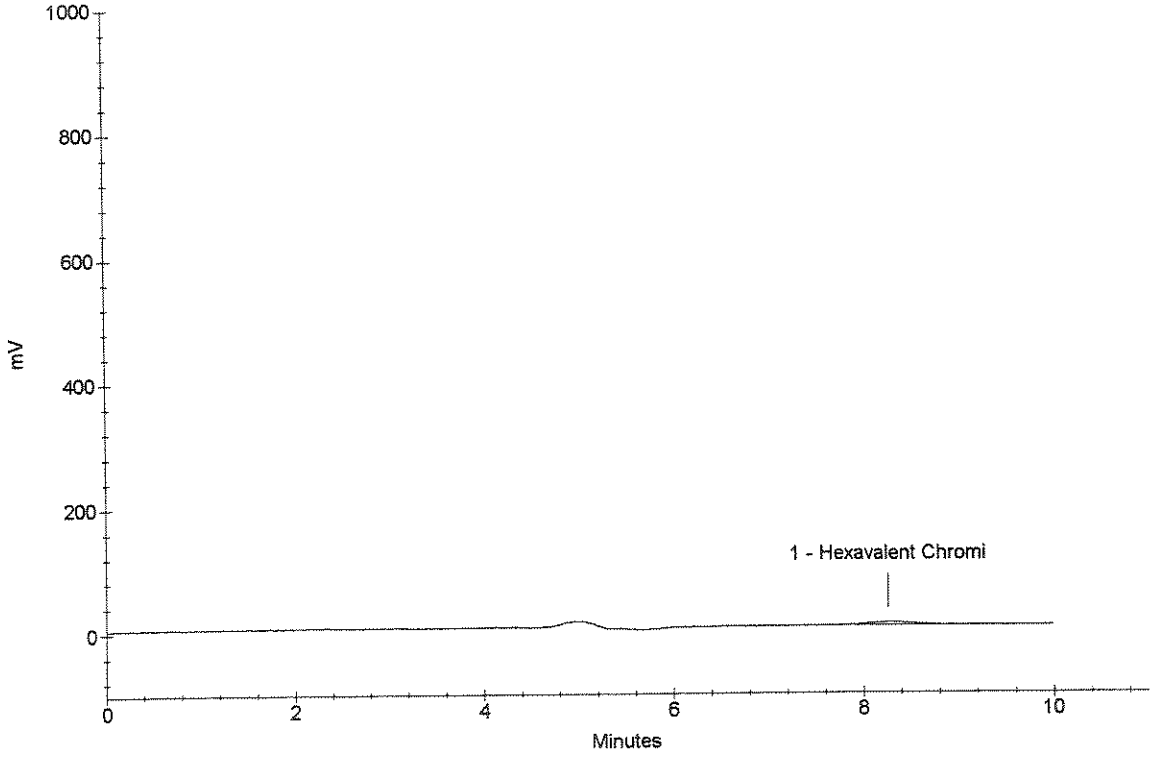
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.26	Hexavalent Chromi	0.0037	129553

OK
CW 7/18/08
1116806

$\frac{L}{2.55} \times 100 = 0.145$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116807
Data File Name : ...\717_104.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:16:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

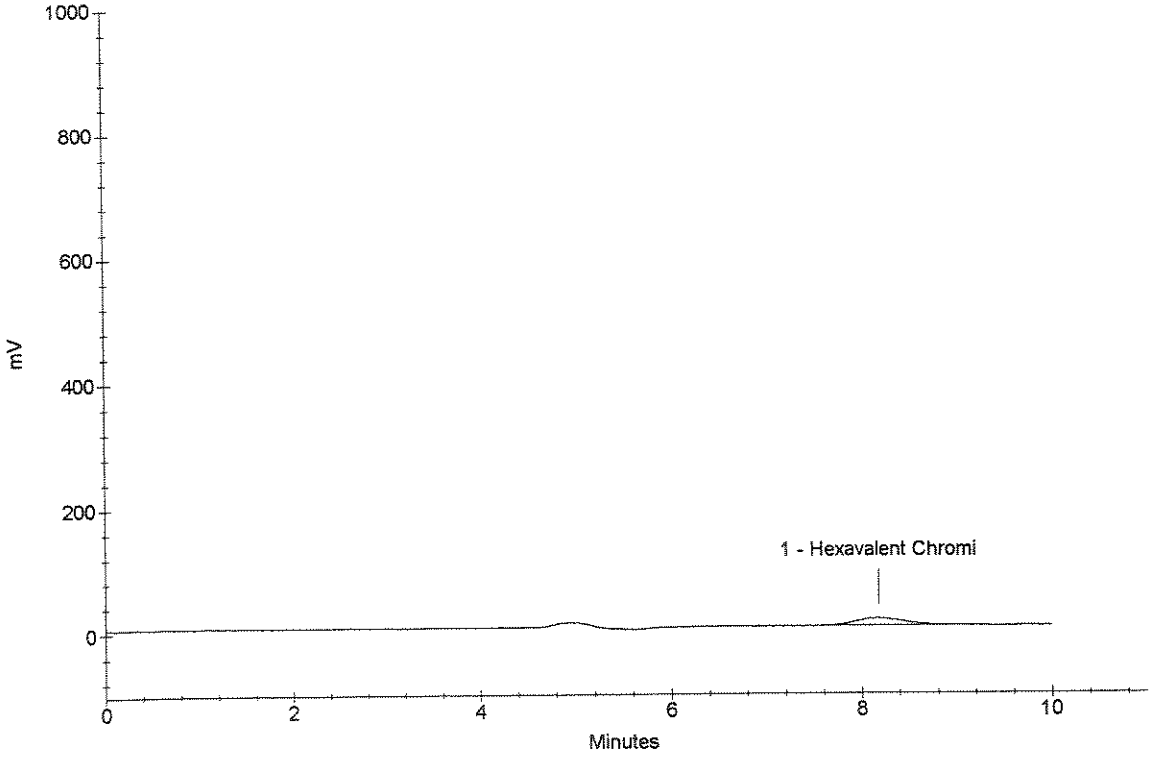
Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.18	Hexavalent Chromi	0.0110	371850

9x

7/18/08

1116807

$\frac{L}{} \times \frac{100}{2.57} = 0.428$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116807
Data File Name : ...\717_105.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:26:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

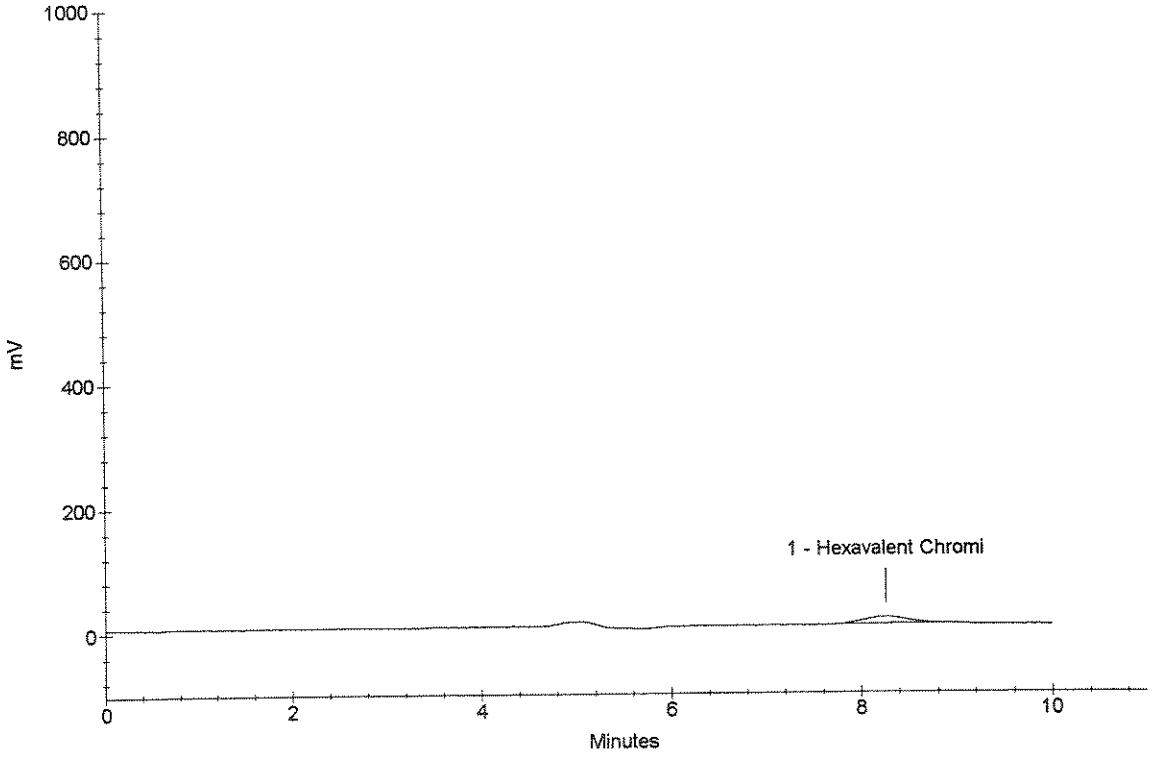
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.26	Hexavalent Chromi	0.0097	330260

OK
7/18/08
1116807

$\frac{L}{} \times \frac{100}{2.57} = 0.377$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116808
Data File Name : ...\717_106.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:36:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

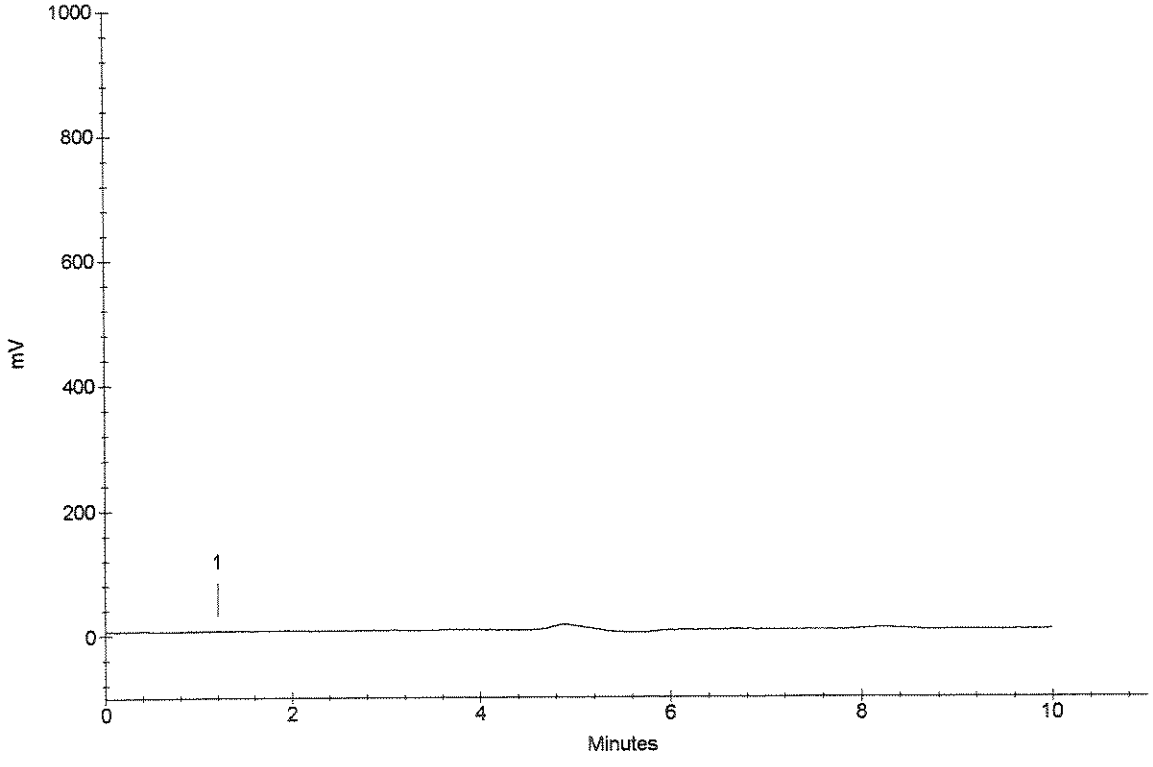
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116808



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116808
Data File Name : ...\717_107.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:47:23

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

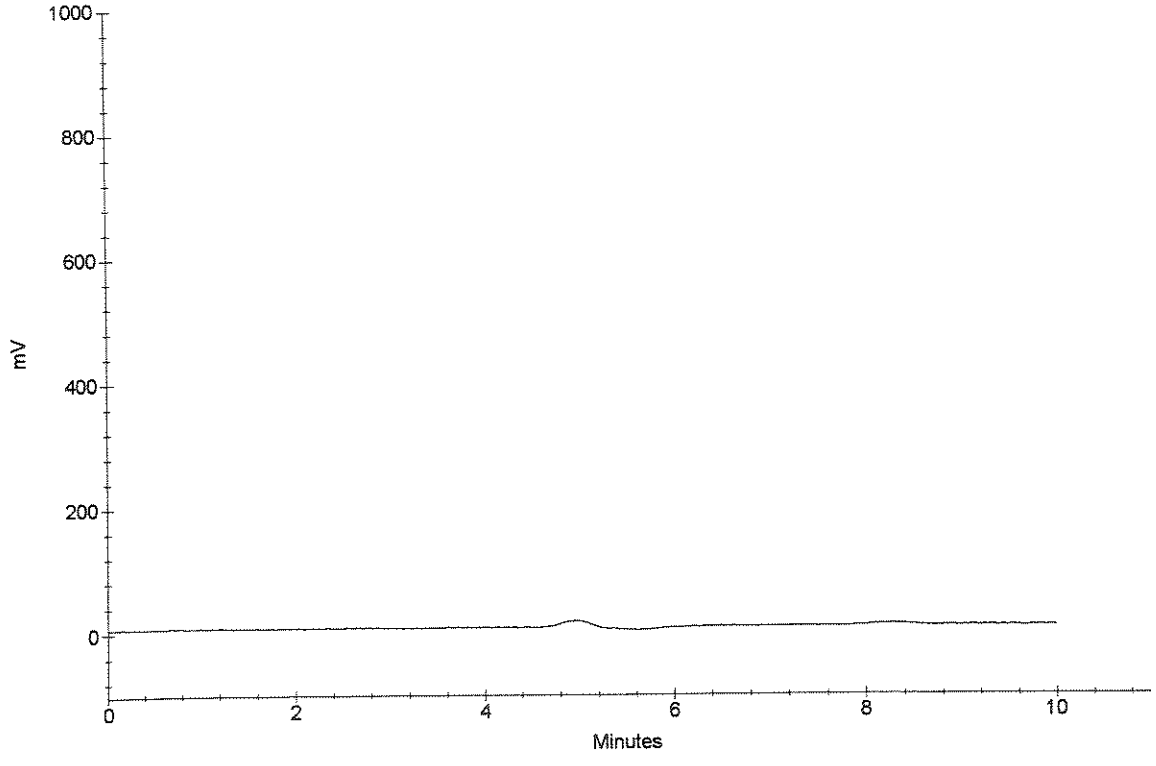
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
1116808 7/18/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\717_108.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 03:57:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

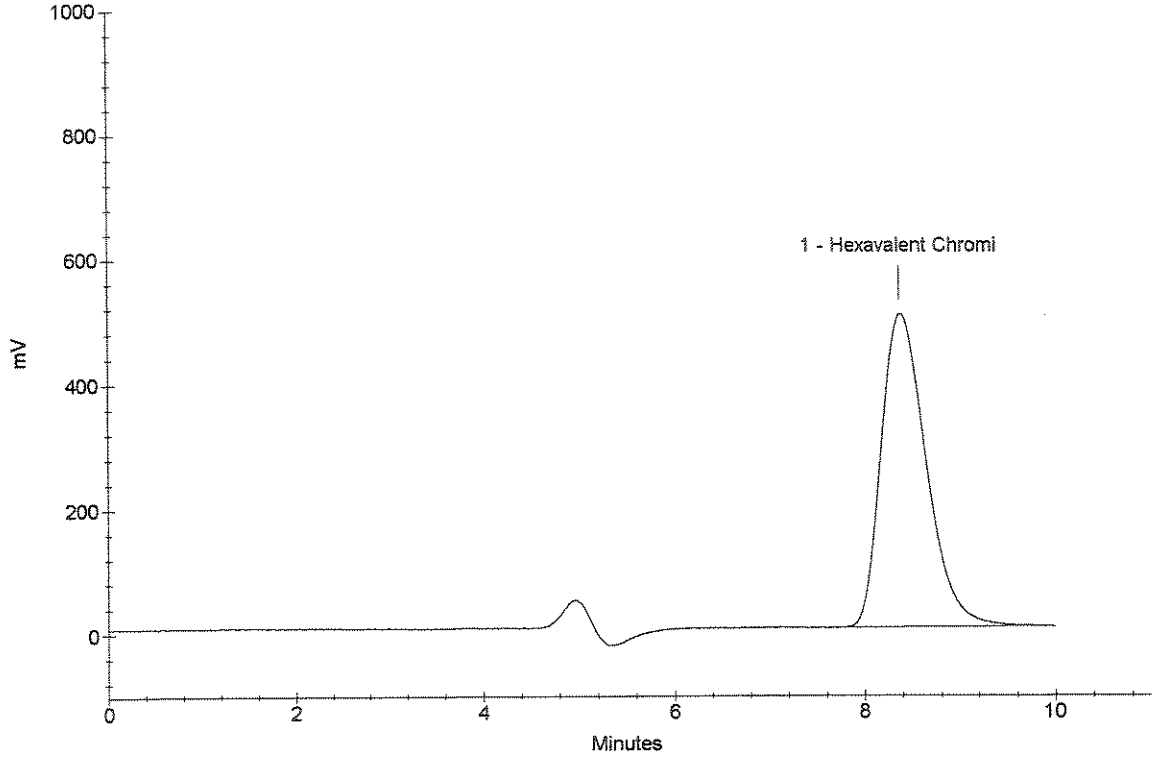
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.38	Hexavalent Chromi	0.4886	16239896

OK
7/18/08

CCV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\717_109.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 04:08:12

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

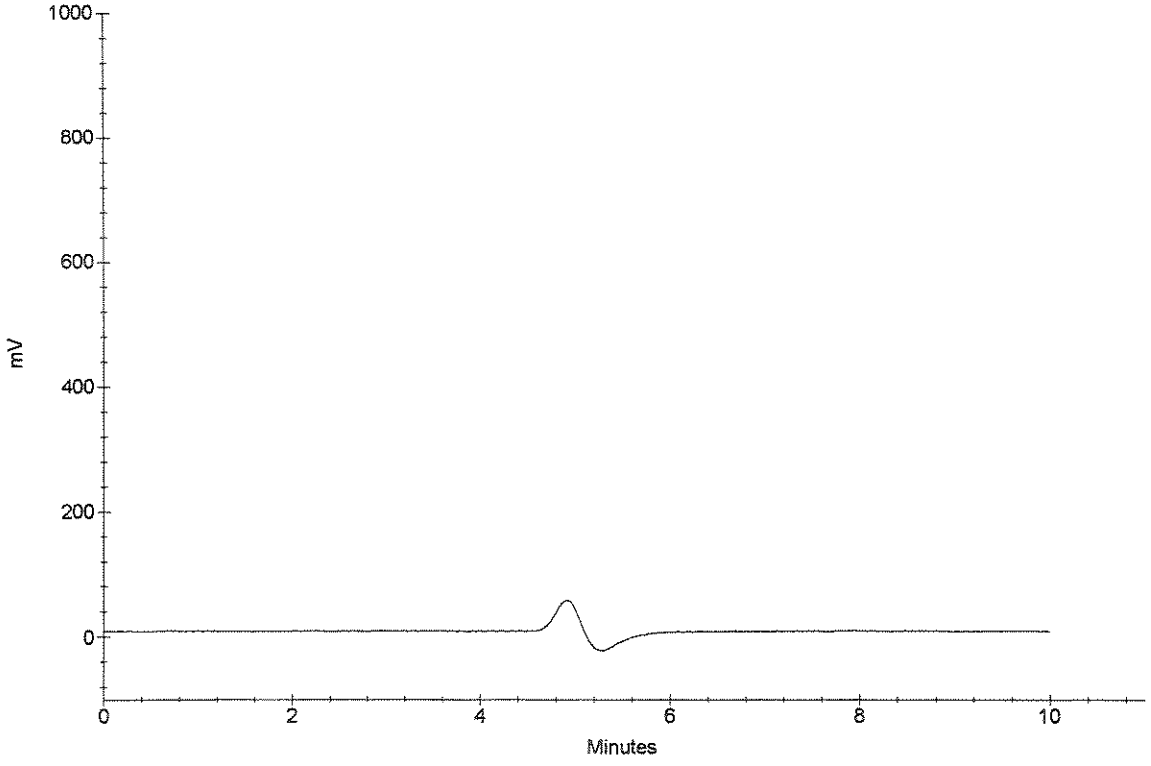
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08
CCB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PREP BLANK SOIL
Data File Name : ...\717_110.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 04:18:36

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 7-17-08 Digest

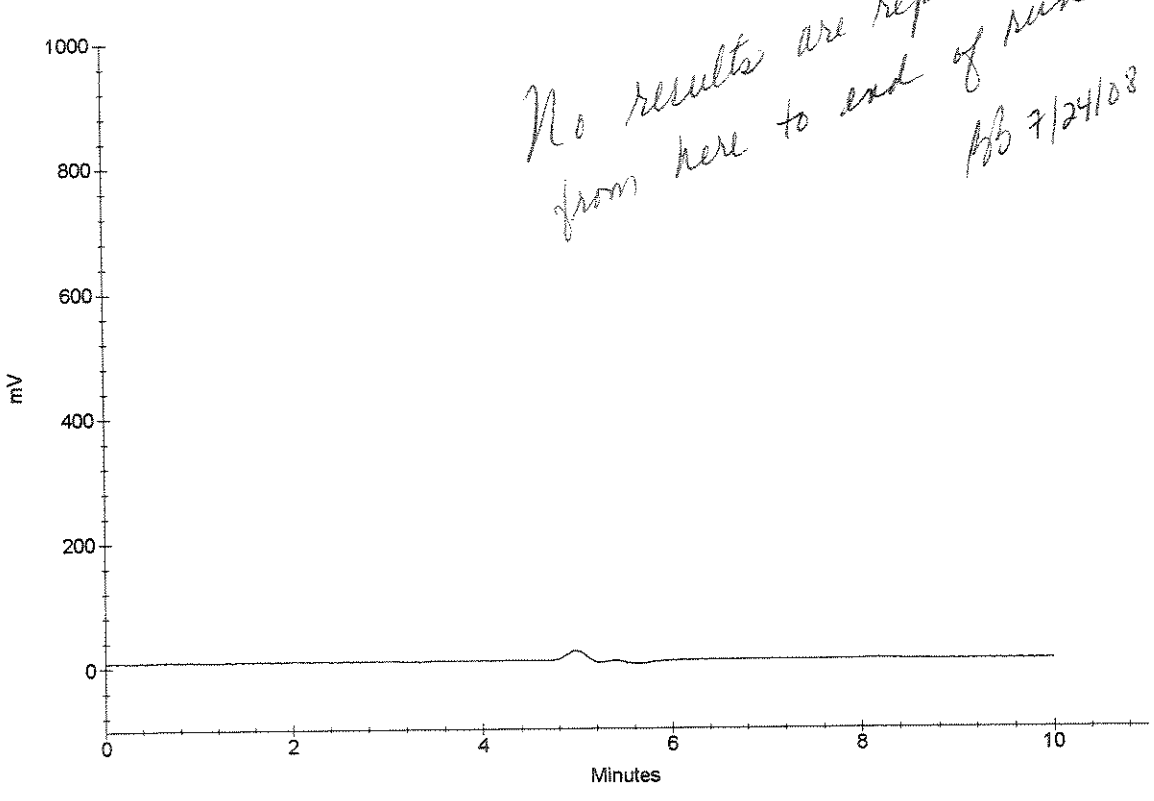
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

No results are reported from here to end of run
BB 7/24/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : PREP BLANK SOIL
Data File Name : ...\717_111.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 04:29:00

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment : 7-17-08 Digest

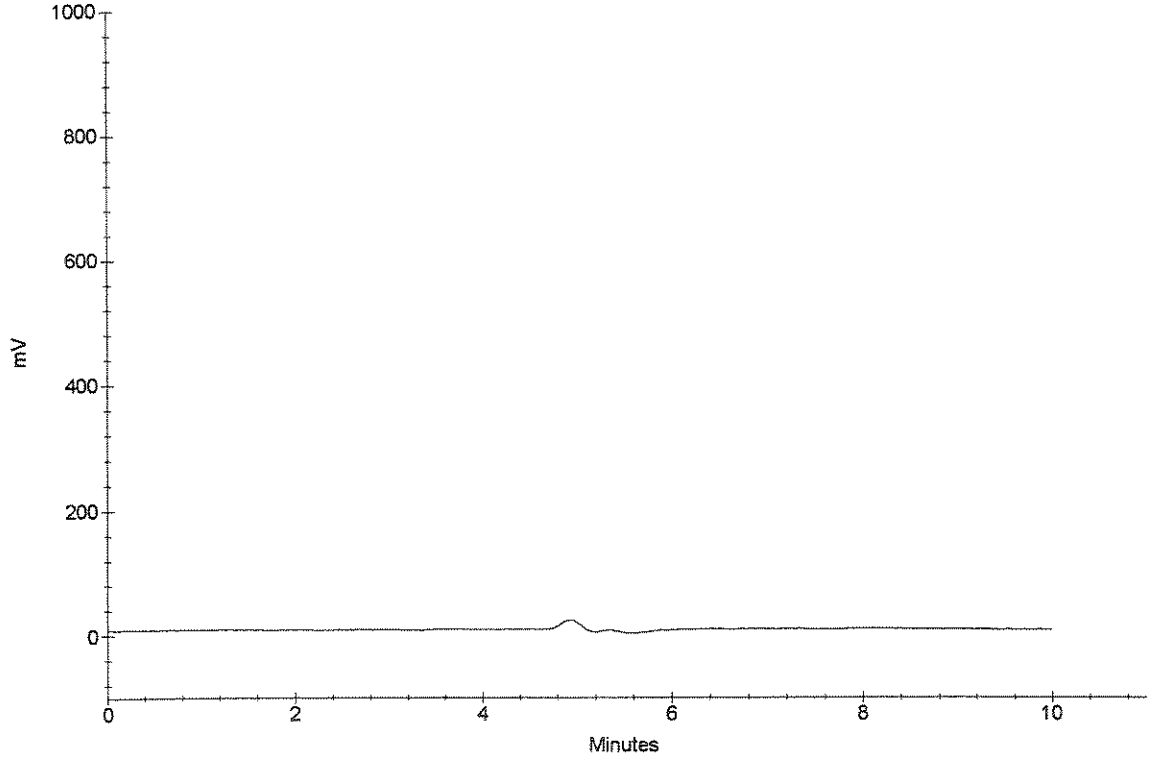
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

PREP BLANK SOIL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS SOIL
Data File Name : ...\717_112.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 04:39:24

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : 7-17-08 Digest

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

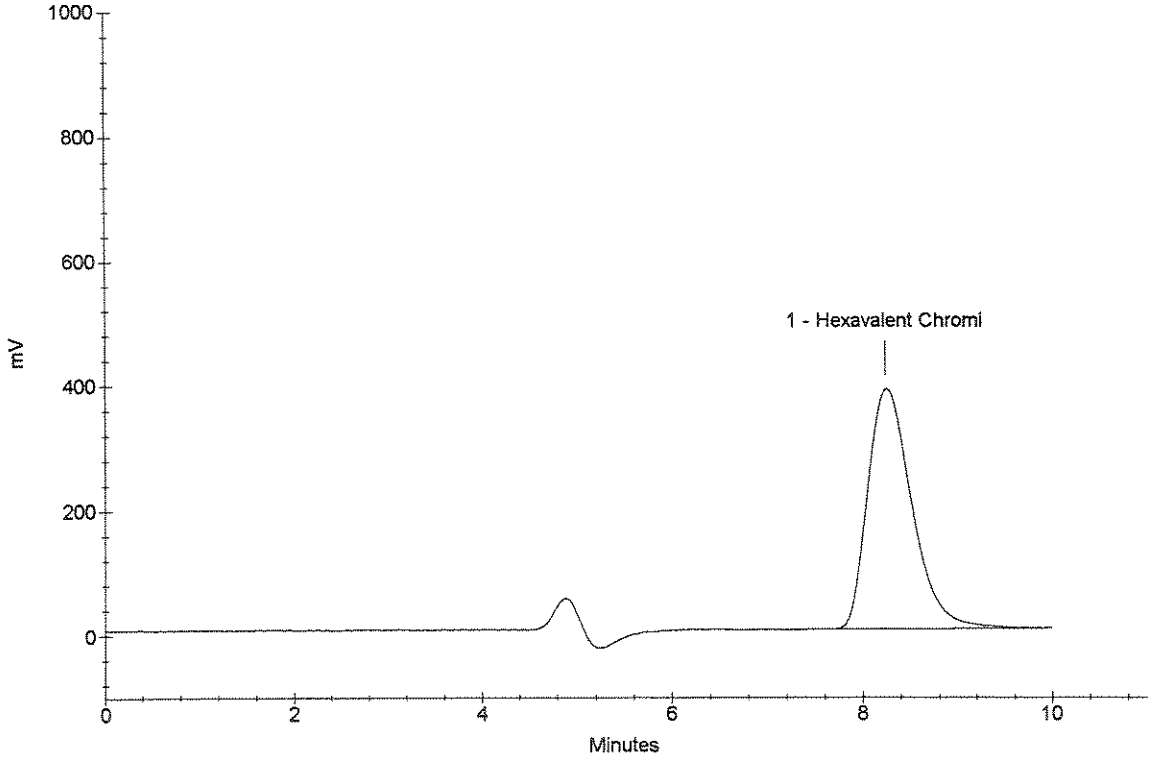
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.24	Hexavalent Chromi OK	14.9445	12420163

CW 7/18/08

LCS SOIL

$\frac{L}{2.50} \times 100 = 598$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS SOIL
Data File Name : ...\717_113.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 04:49:48

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment : 7-17-08 Digest

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

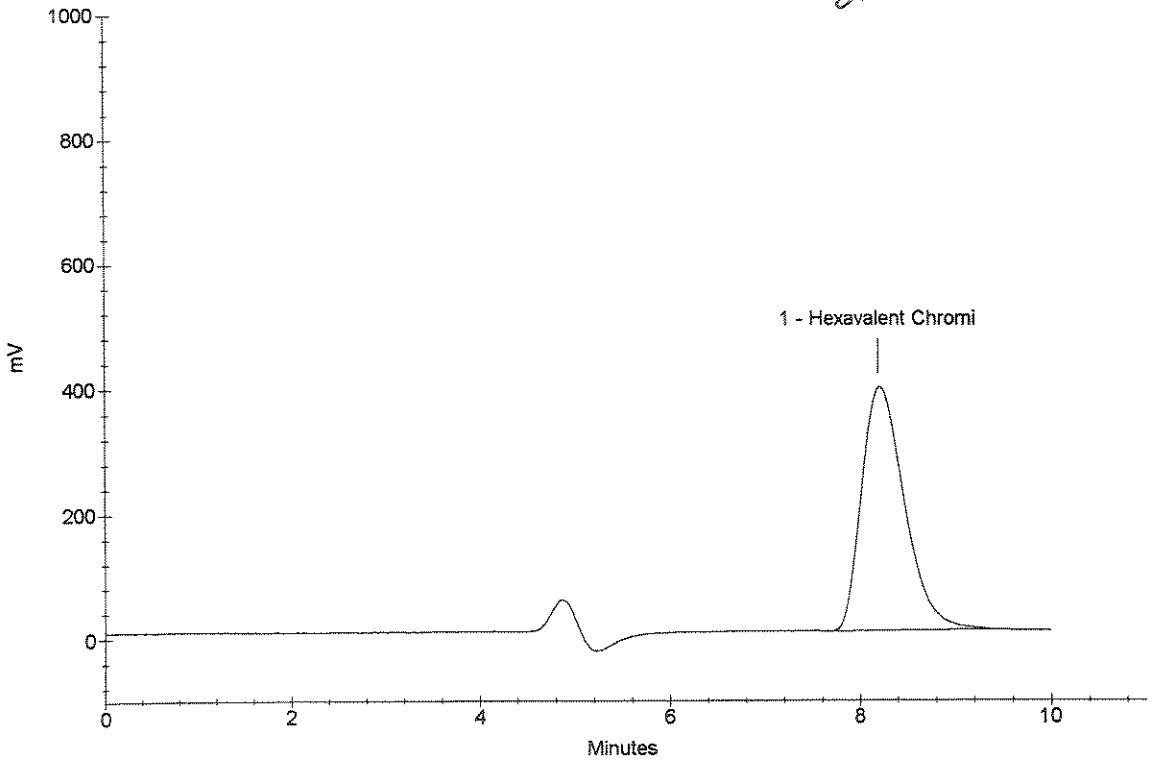
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.20	Hexavalent Chromi	14.6785	12199226

OK
7/18/08

LCS SOIL

14.6785 x 100 / 250 = 587



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809
Data File Name : ...\717_114.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:00:12

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

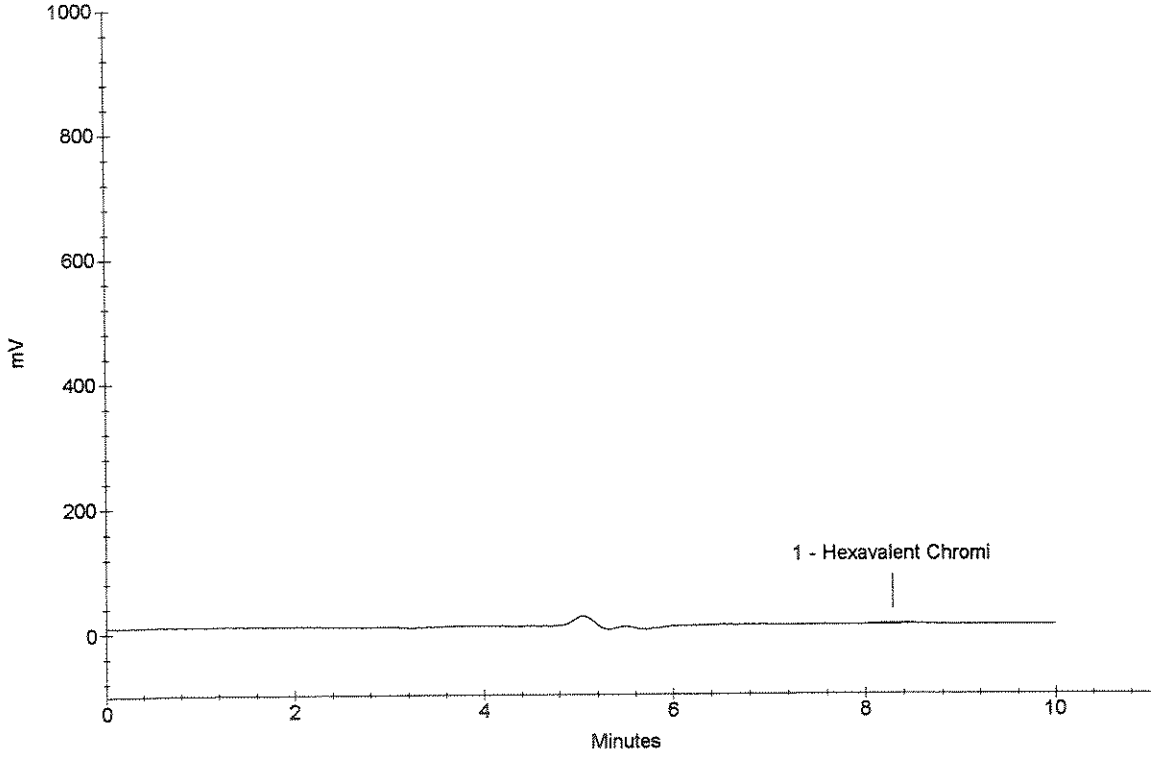
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.28	Hexavalent Chromi	0.0008	35542

7/18/08 1116809 $L \times \frac{100}{2.49} = 0.0321$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809
Data File Name : ...\717_115.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:10:37

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

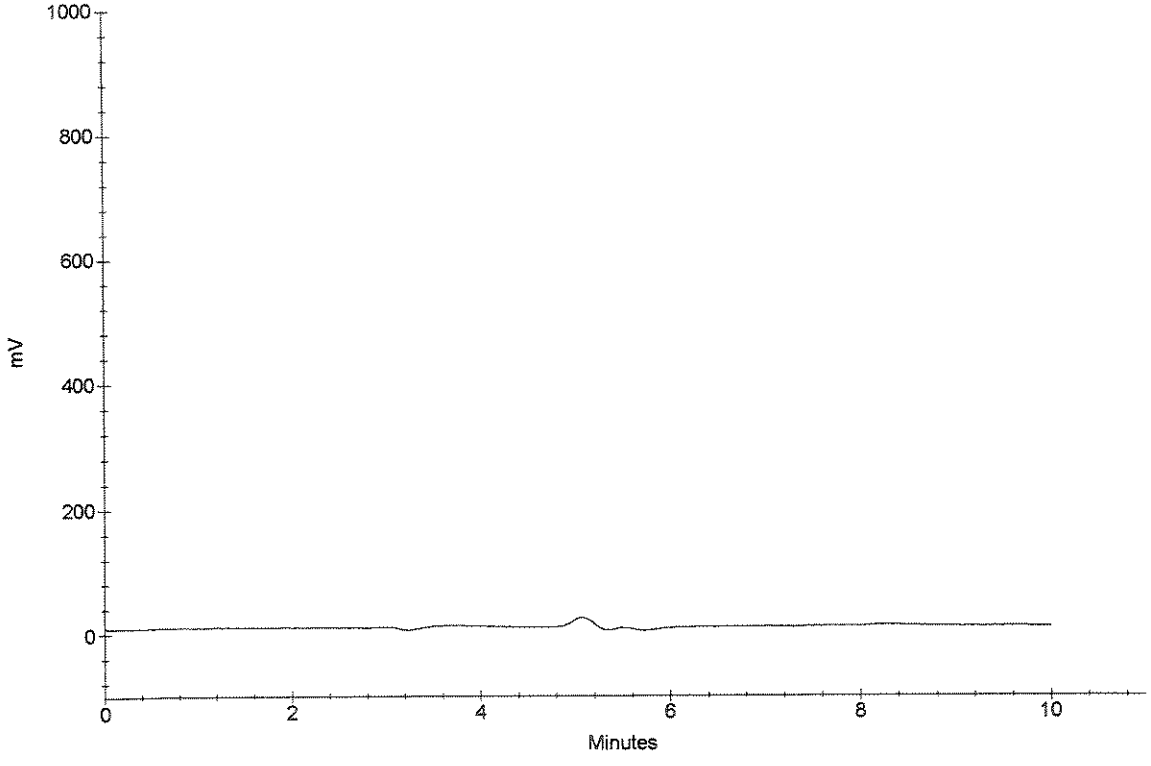
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116809



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 DUP
Data File Name : ...\717_116.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:21:01

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

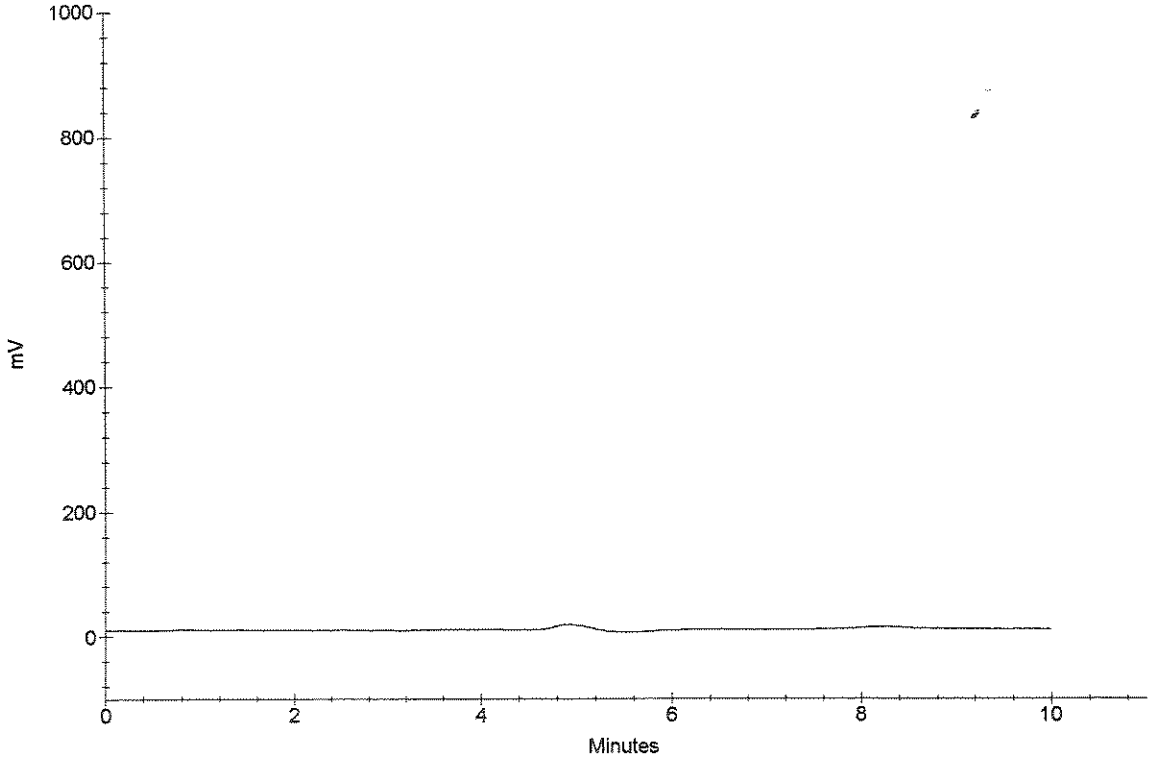
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116809 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 DUP
Data File Name : ...\717_117.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:31:25

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

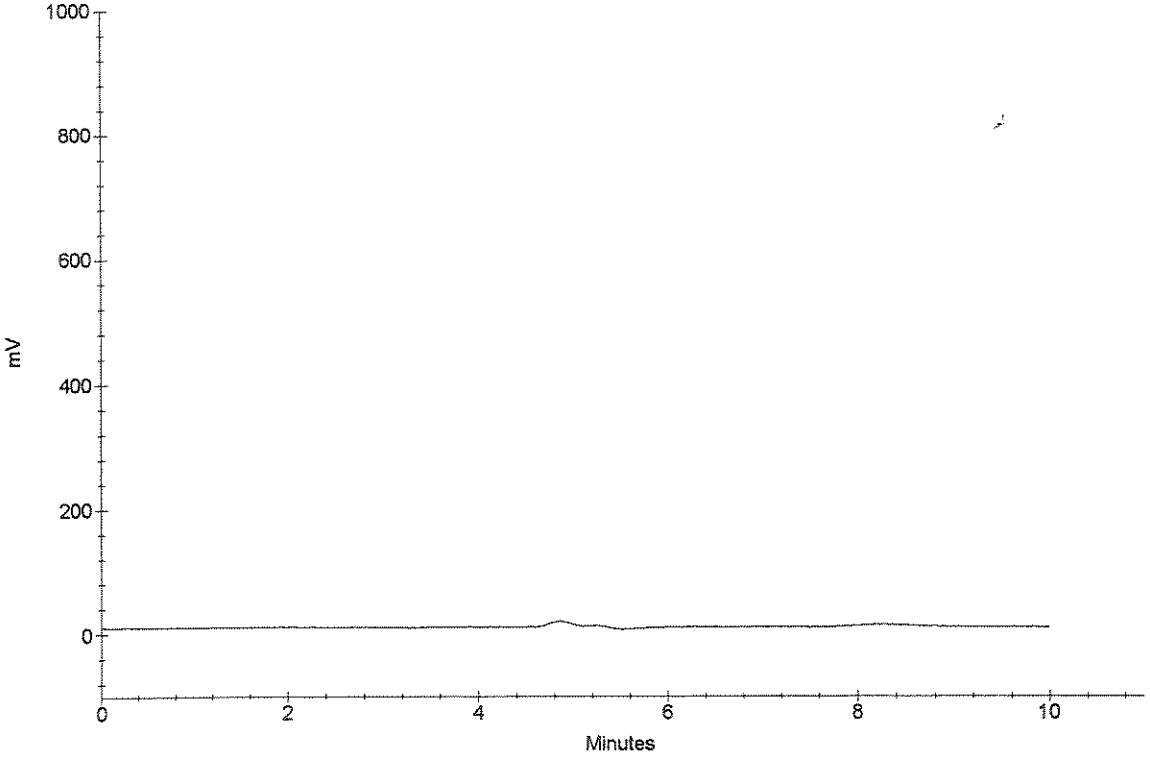
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
CM 7/18/08

1116809 DUP



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 SOL
Data File Name : ...\717_118.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:41:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

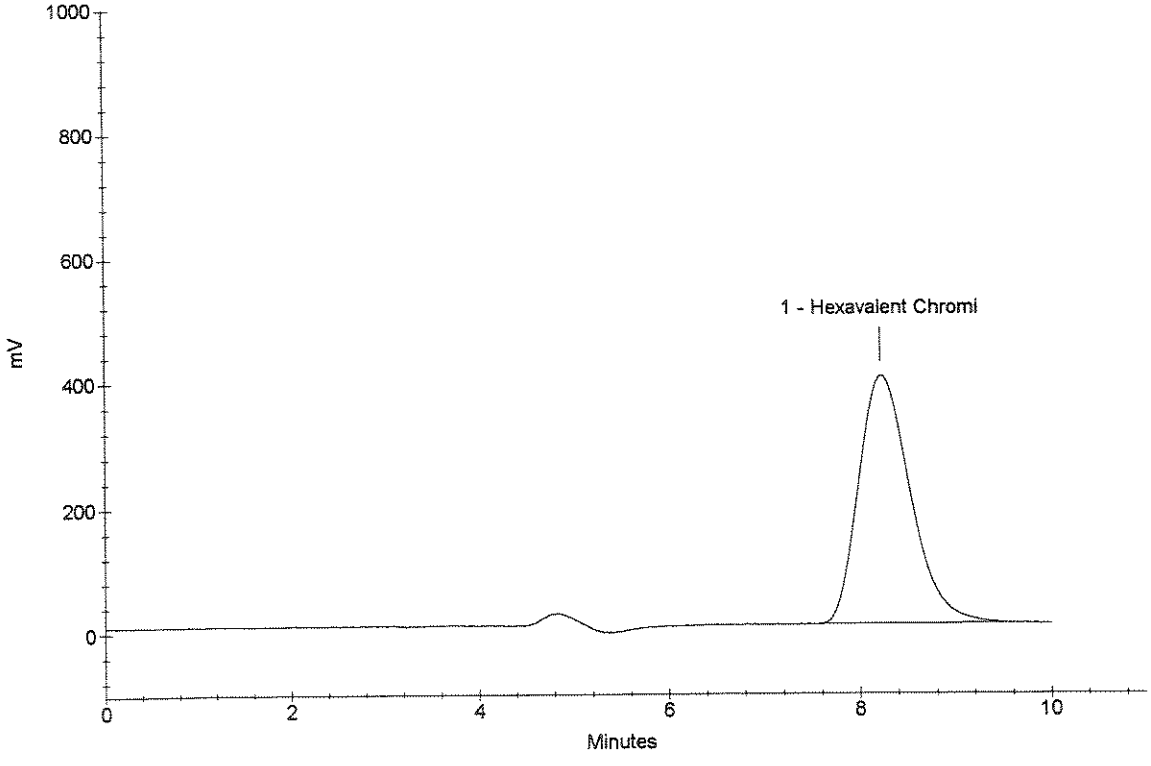
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.22	Hexavalent Chromi	0.8922	14828547

OK

7/18/08 L x 100/2.49 = 35.8

1116809 SOL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 SOL
Data File Name : ...\717_119.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 05:52:13

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

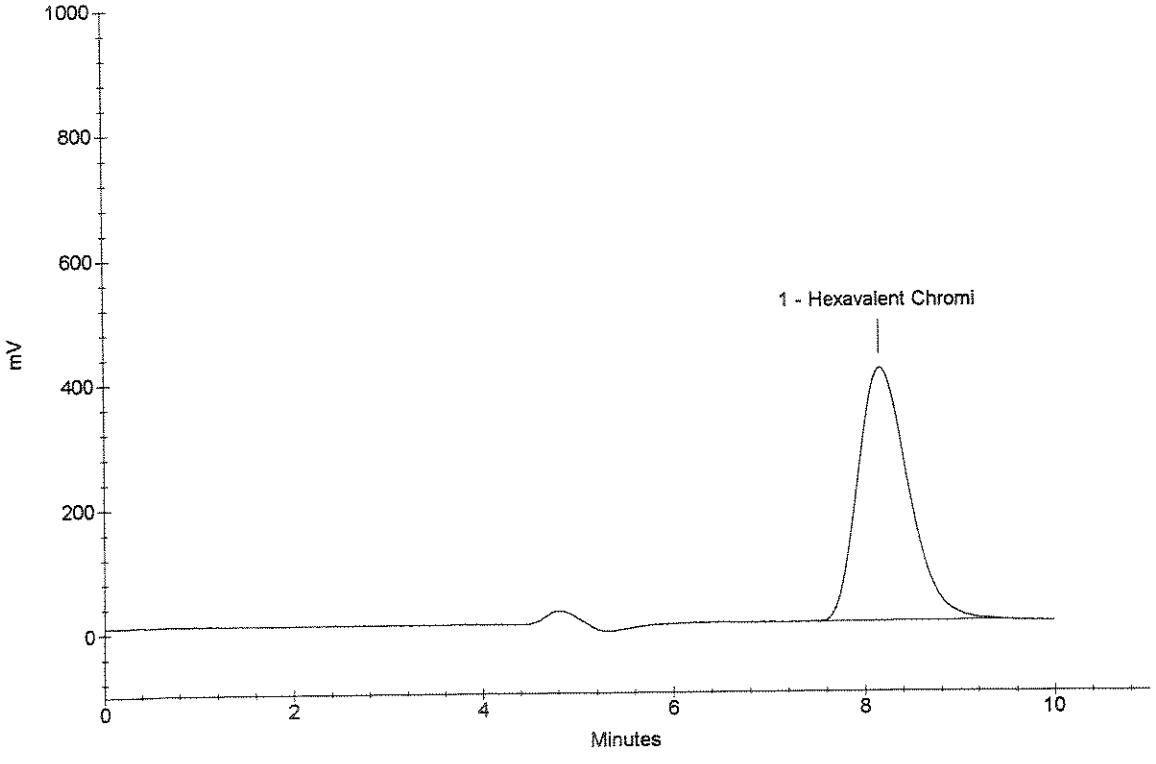
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.16	Hexavalent Chromi	0.8898	14788138

OK 7/18/08 L x 100/2.49 = 35.7

1116809 SOL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 INSOL
Data File Name : ...\717_120.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:02:37

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

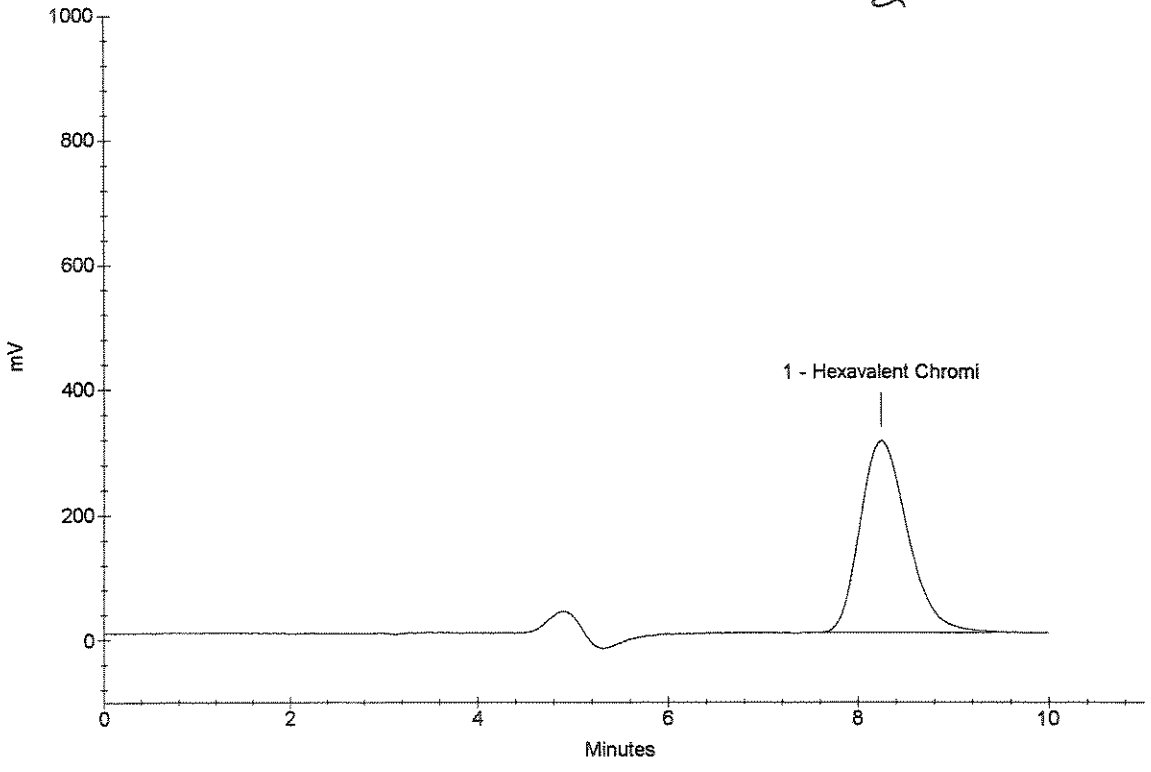
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.24	Hexavalent Chromi	12.7169	10569922

OK 7/18/08

$L \times \frac{100}{2.51} = 507$

1116809 INSOL



00578

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 INSOL
Data File Name : ...\717_121.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:13:01

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 40.00
Sample Type : Sample Analysis
Sample Comment :

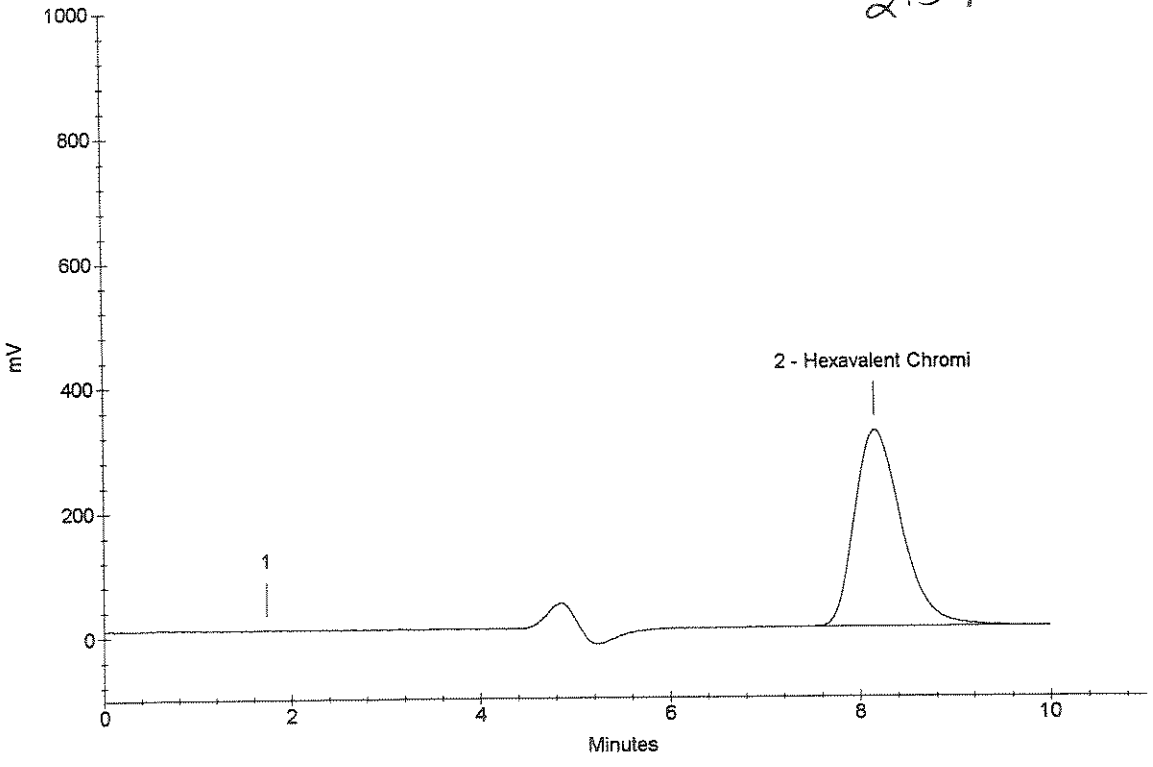
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.16	Hexavalent Chromi OK	12.8704	10697457

7/18/08 L x 100/2.51 = 513

1116809 INSOL



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 PVS
Data File Name : ...\717_122.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:23:25

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

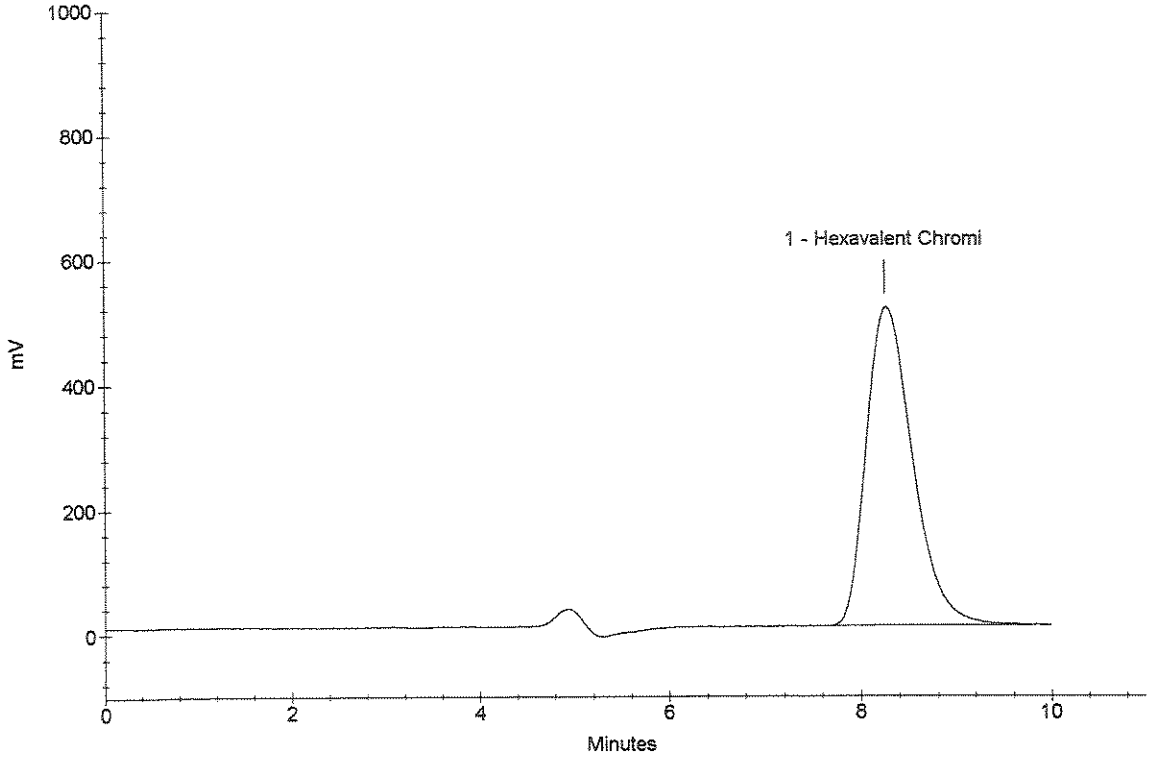
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.26	Hexavalent Chromi	1.0264	17057128

7/18/08

1116809 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116809 PVS
Data File Name : ...\717_123.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:33:50

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 2.00
Sample Type : Sample Analysis
Sample Comment :

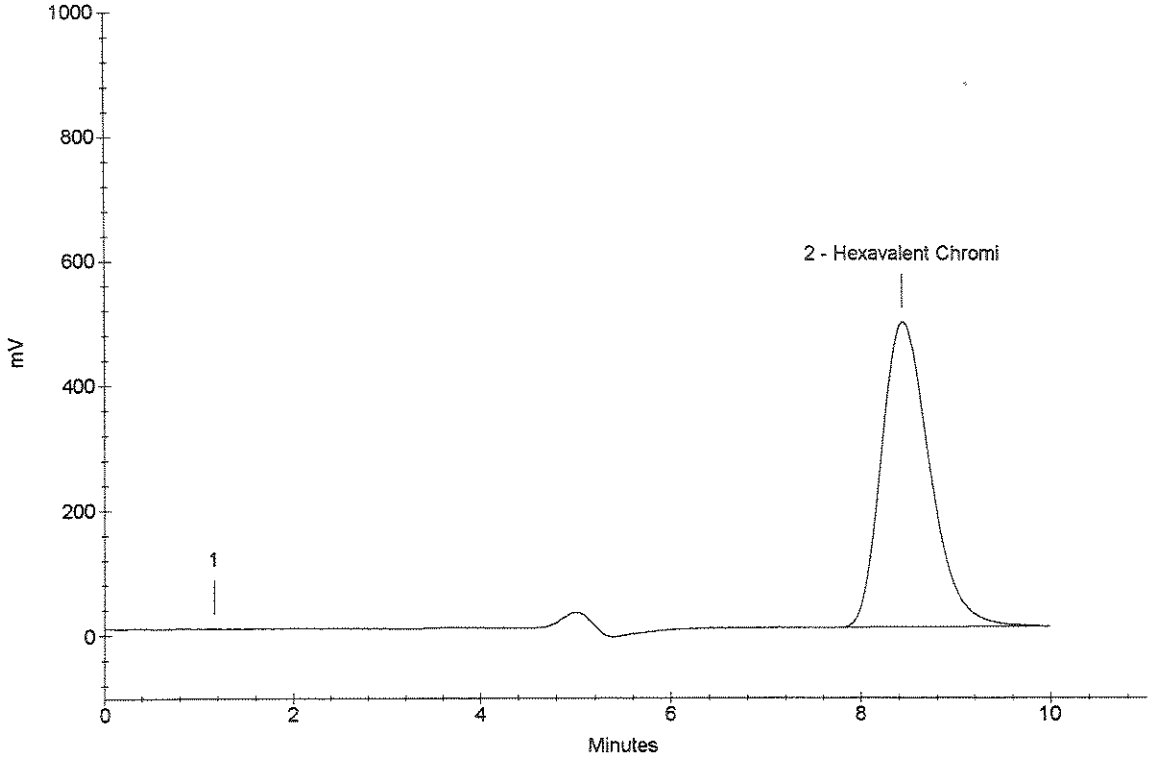
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.44	Hexavalent Chromi	1.0396	17276399

OK
7/18/08

1116809 PVS



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116810
Data File Name : ...\717_124.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:44:14

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

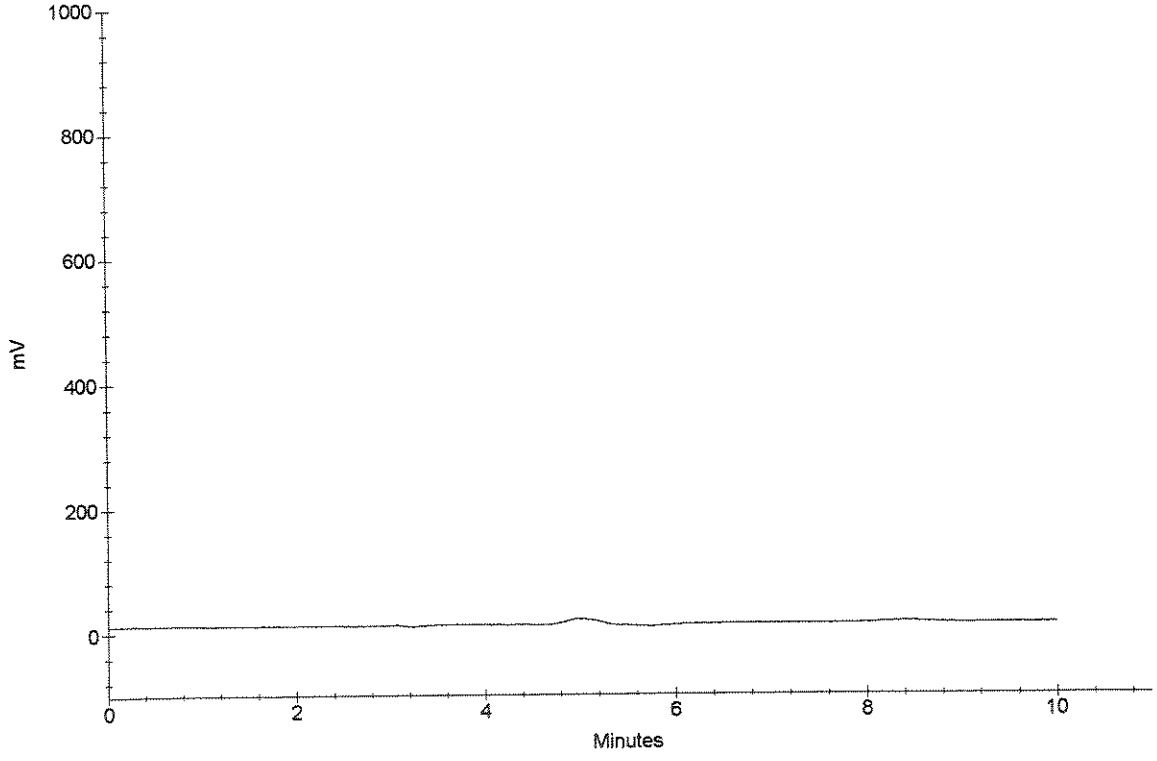
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116810



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116810
Data File Name : ...\717_125.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 06:54:38

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

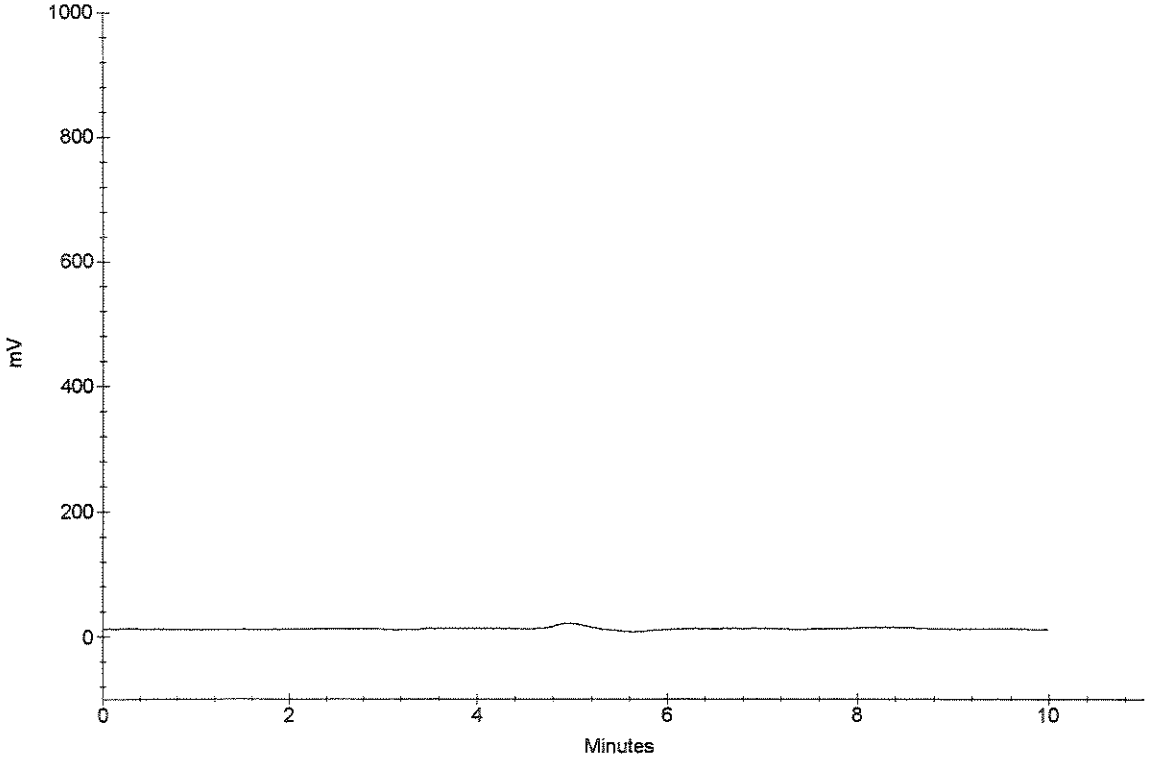
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

7/18/08

1116810



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116811
Data File Name : ...\717_126.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 09:19:00

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

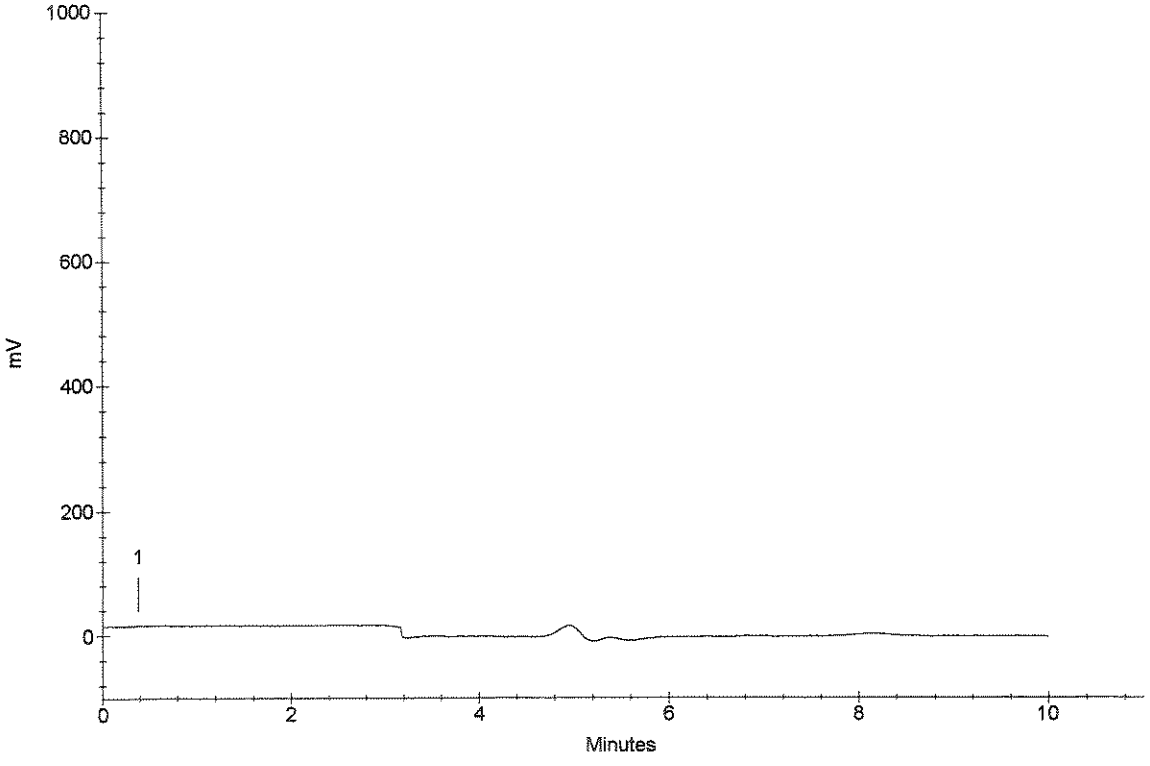
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

---

DK 7/18/08

1116811



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116811
Data File Name : ...\717_127.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 09:29:24

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

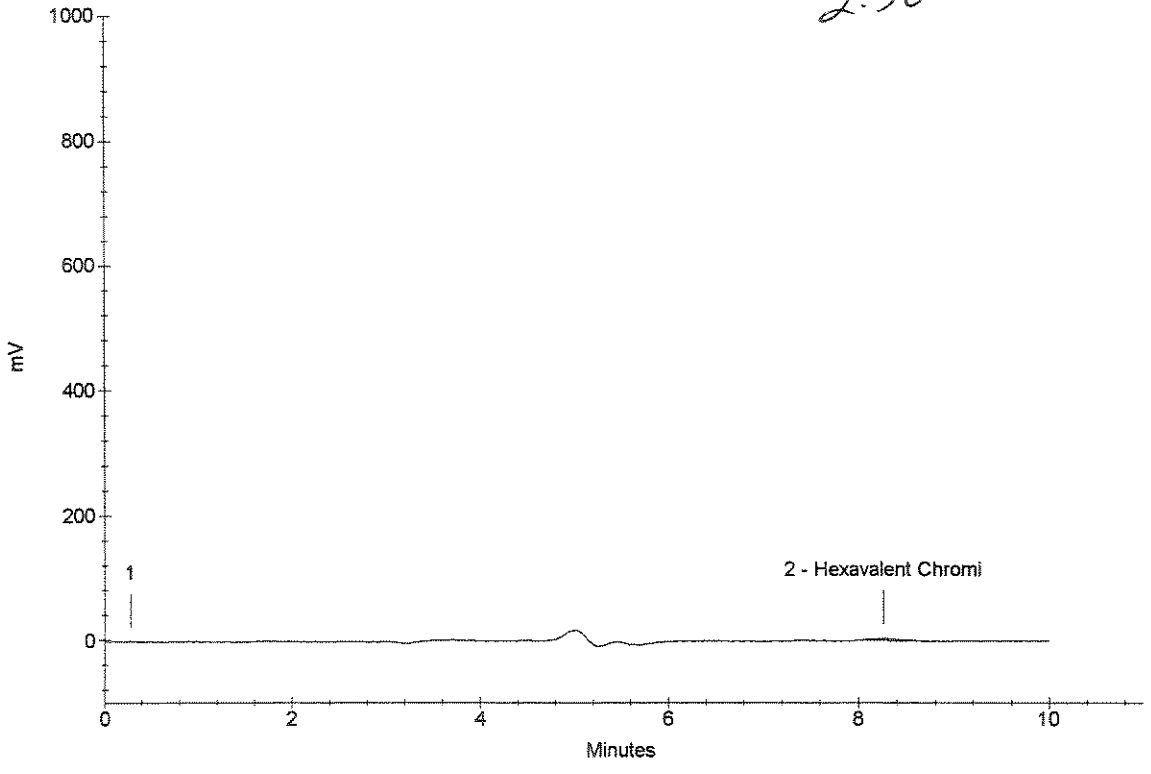
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.26	Hexavalent Chromi	0.0018	68705

OK
7/18/08
1116811

$\frac{L}{2.50} \times 100 = 0.0720$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116812
Data File Name : ...\717_128.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 09:39:48

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

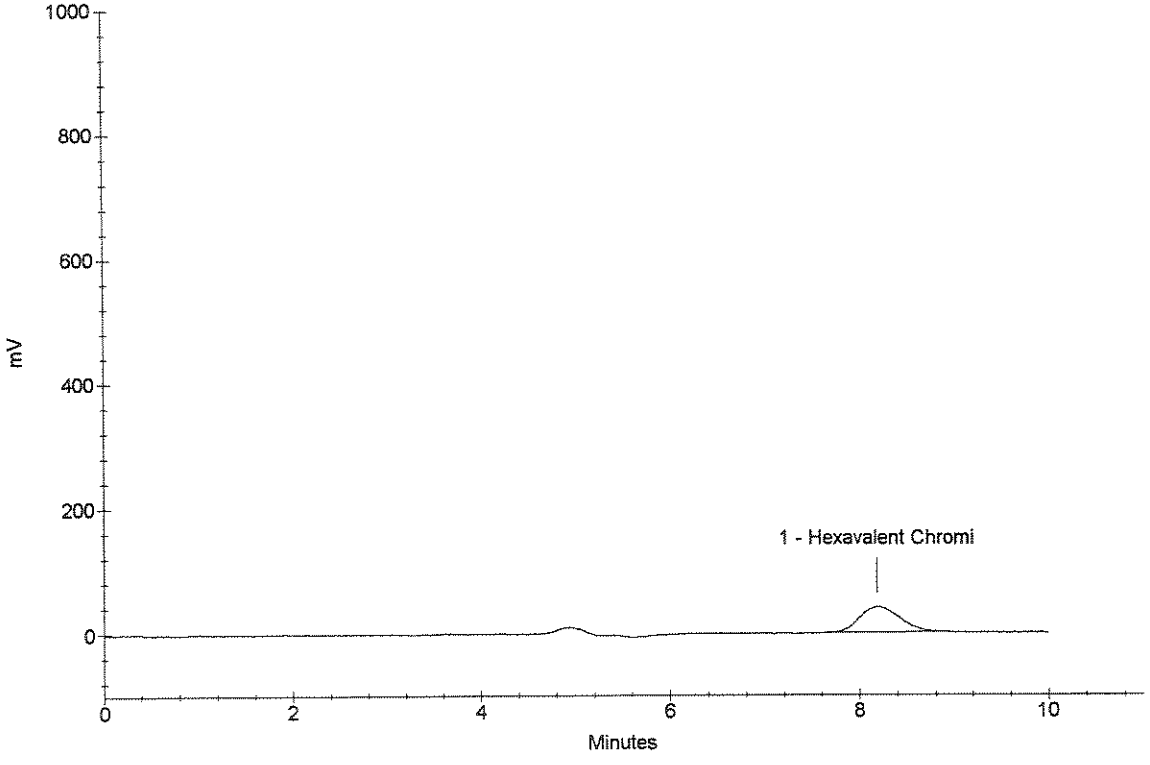
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.18	Hexavalent Chromi	0.0354	1184567

OK
7/18/08
1116812

$\frac{L}{2.49} \times 100 = 1.422$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116812
Data File Name : ...\717_129.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 09:50:12

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

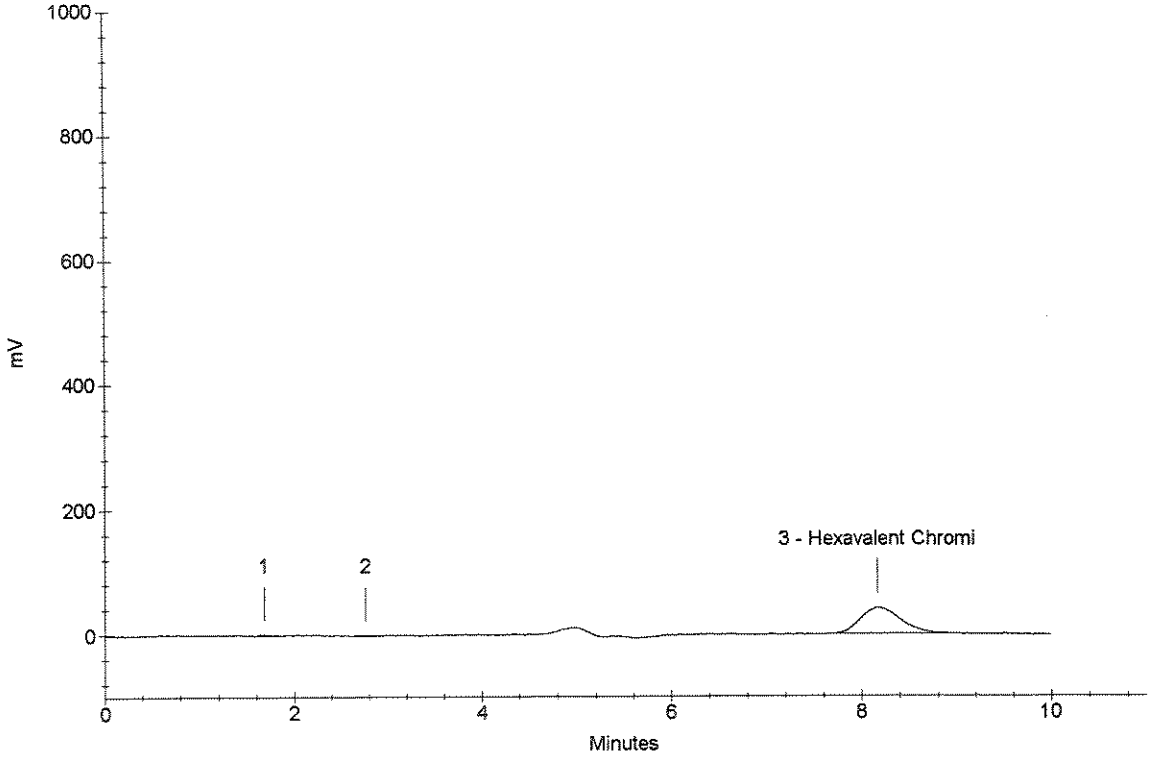
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.16	Hexavalent Chromi	0.0363	1212336

OK
7/18/08
1116812

$\frac{L \times 100}{2.49} = 1.458$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116813
Data File Name : ...\717_130.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:00:37

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

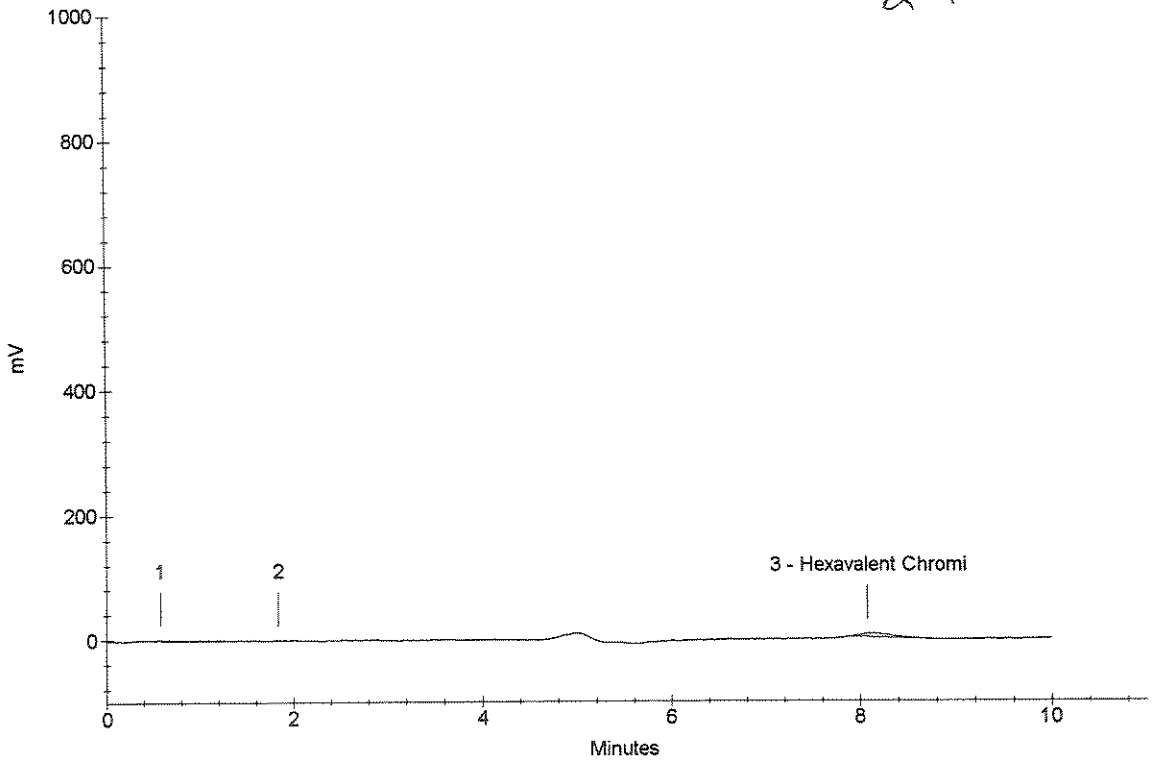
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.08	Hexavalent Chromi OK	0.0039	138340

1116813 7/18/08 × 100/2.49 = 0.157



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116813
Data File Name : ...\717_131.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:11:01

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

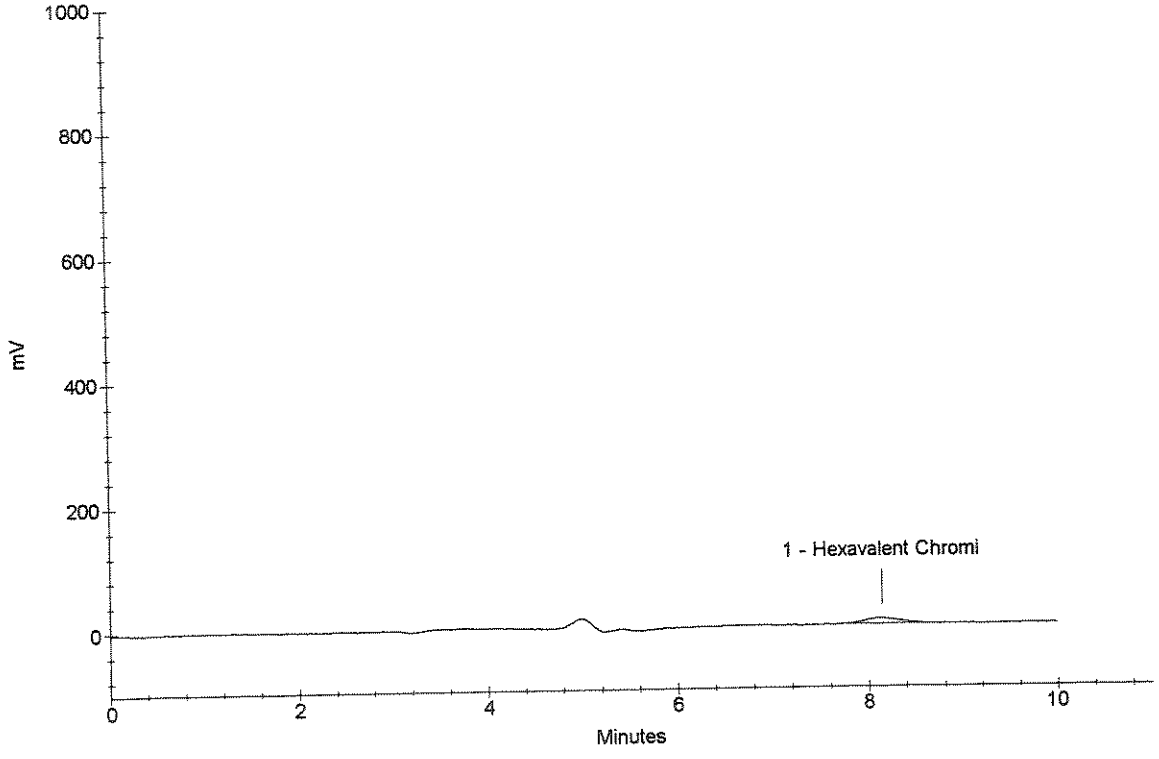
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.14	Hexavalent Chromi OK	0.0069	237789

OK 7/18/08 $\frac{L \times 100}{2.49} = 0.277$

1116813



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116814
Data File Name : ...\717_132.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:21:25

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

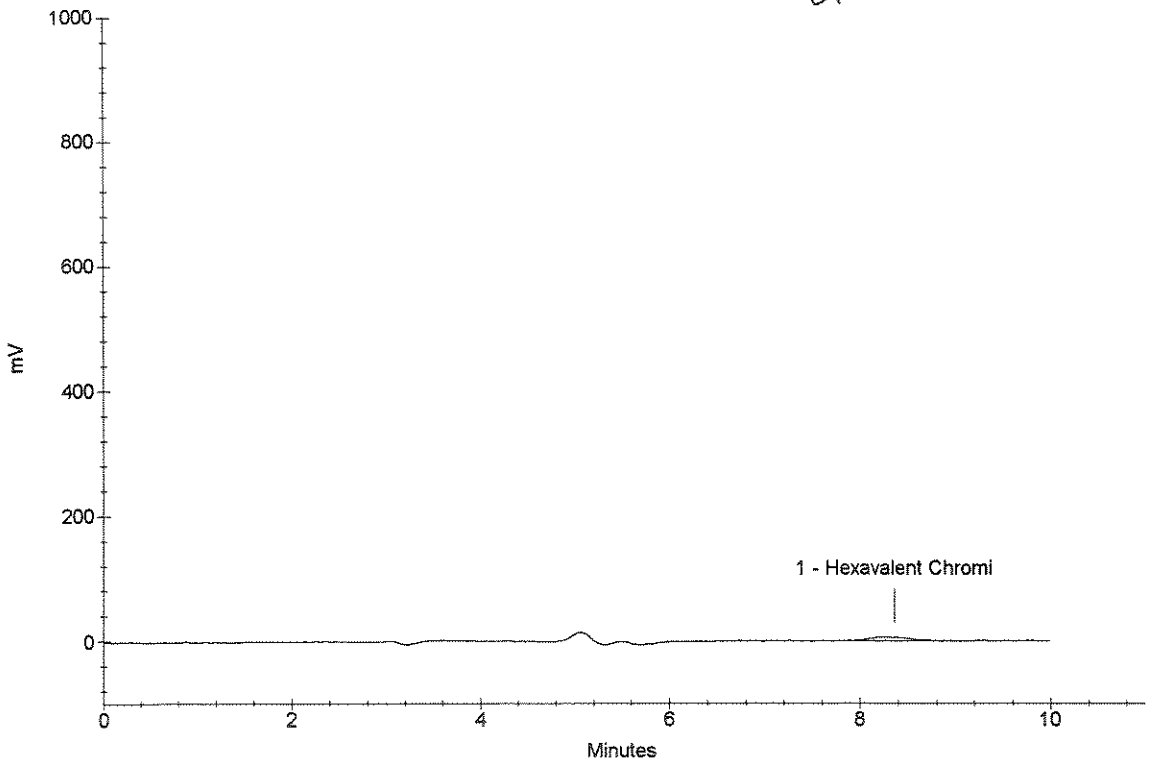
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.36	Hexavalent Chromi	0.0044	153150

7/18/08
1116814

$\frac{L \times 100}{2.49} = 0.177$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116814
Data File Name : ...\717_133.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:31:49

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

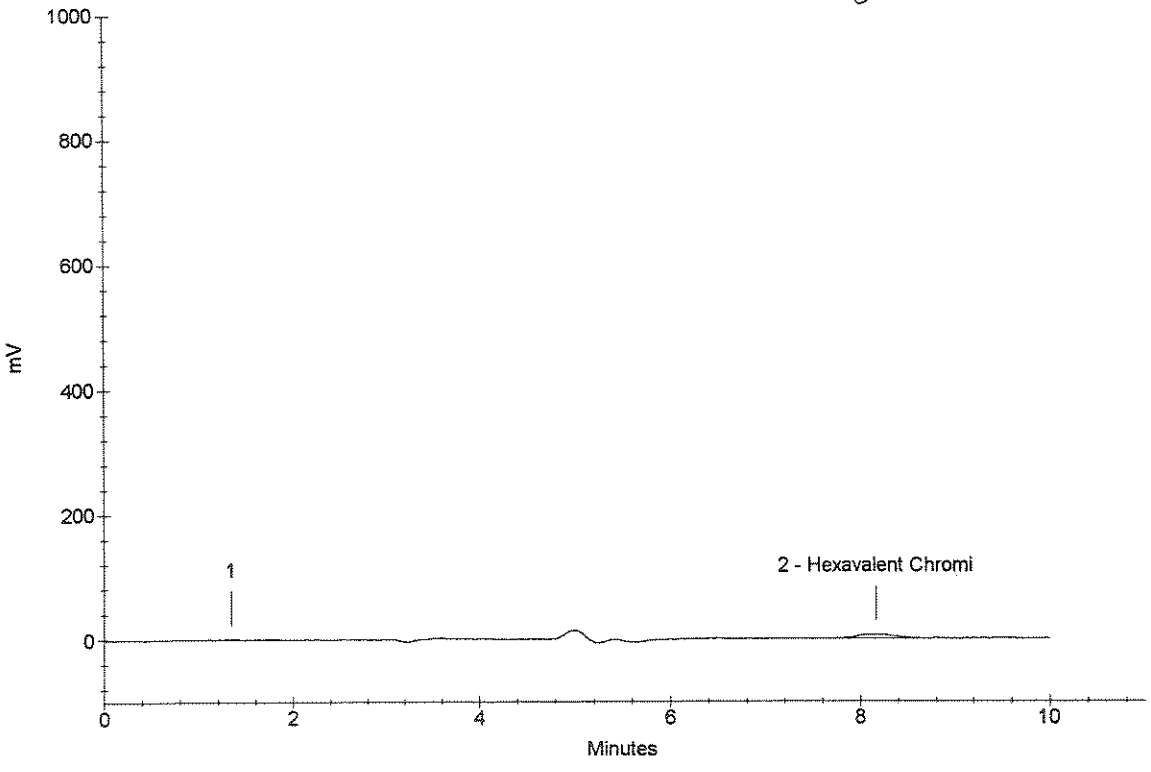
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.16	Hexavalent Chromi	0.0045	157202

OK
7/18/08
1116814

$L \times \frac{100}{2.49} = 0.181$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116815
Data File Name : ...\717_134.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:42:12

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

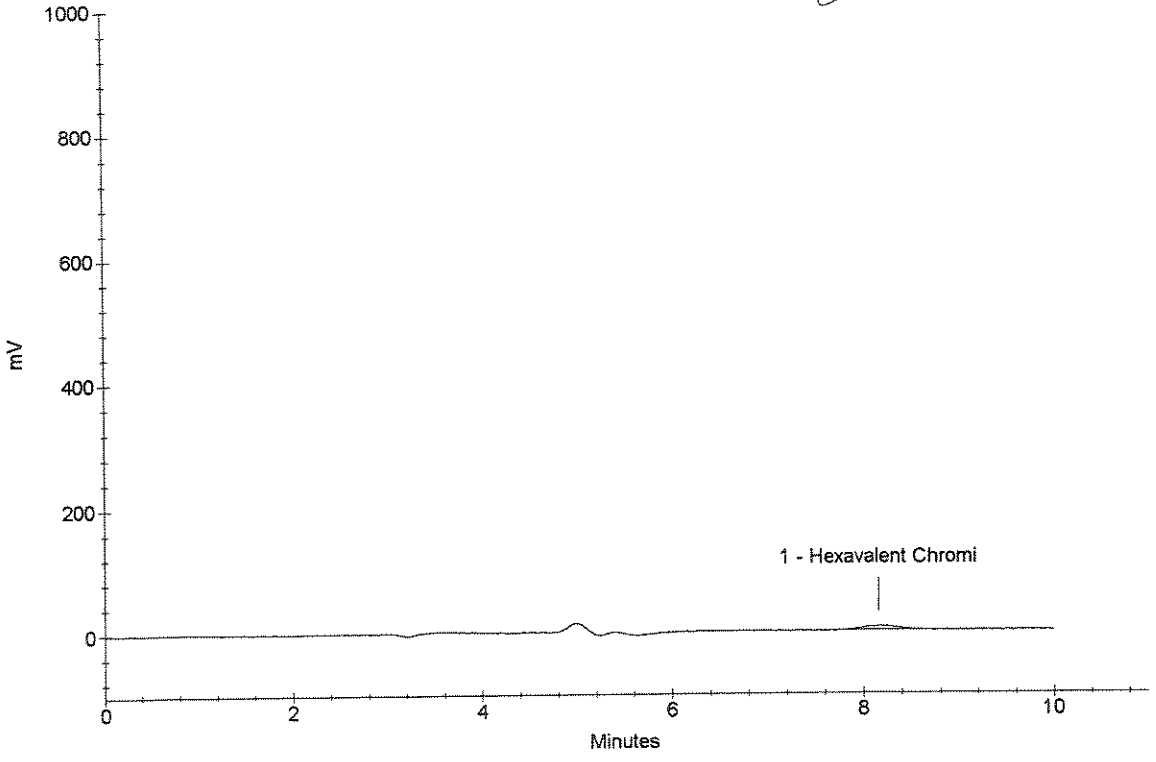
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.16	Hexavalent Chromi	0.0046	160488

7/18/08 1116815 $\frac{L}{2.49} \times 100 = 0.185$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116815
Data File Name : ...\717_135.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 10:52:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

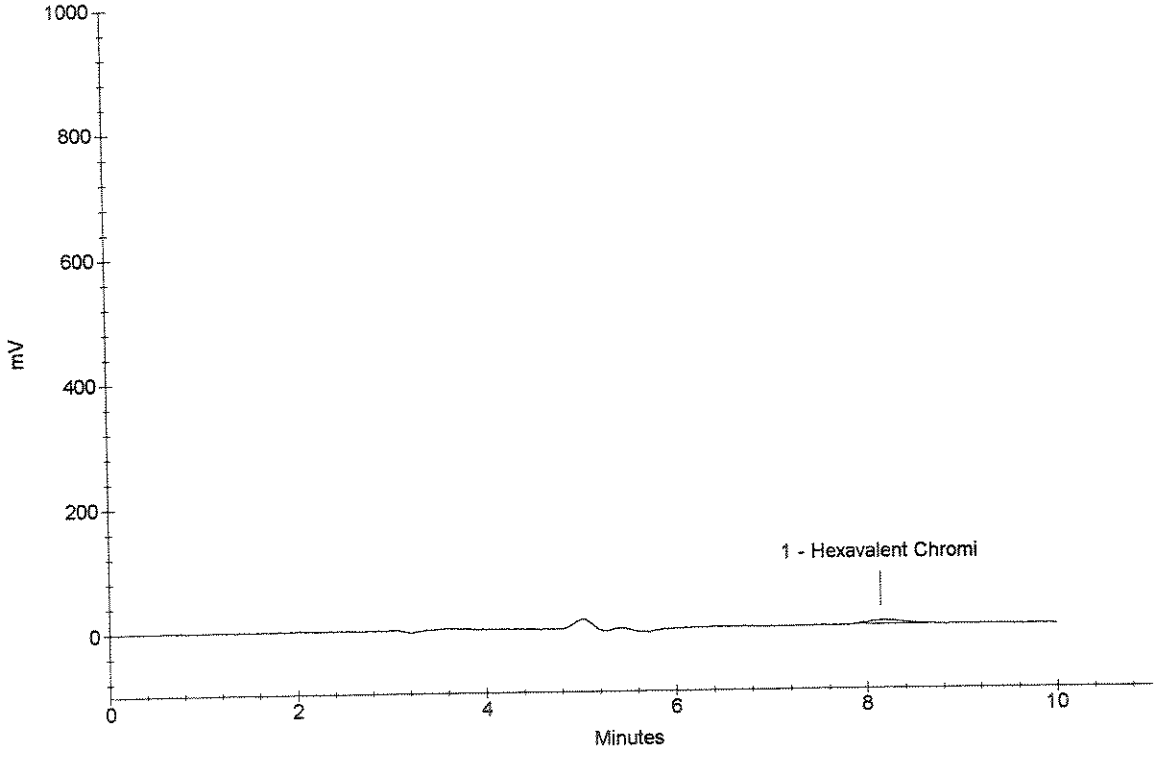
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.14	Hexavalent Chromi OK	0.0039	138574

7/18/8 L ×100 / 2.49 = 0.157

1116815



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116816
Data File Name : ...\717_136.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:02:59

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

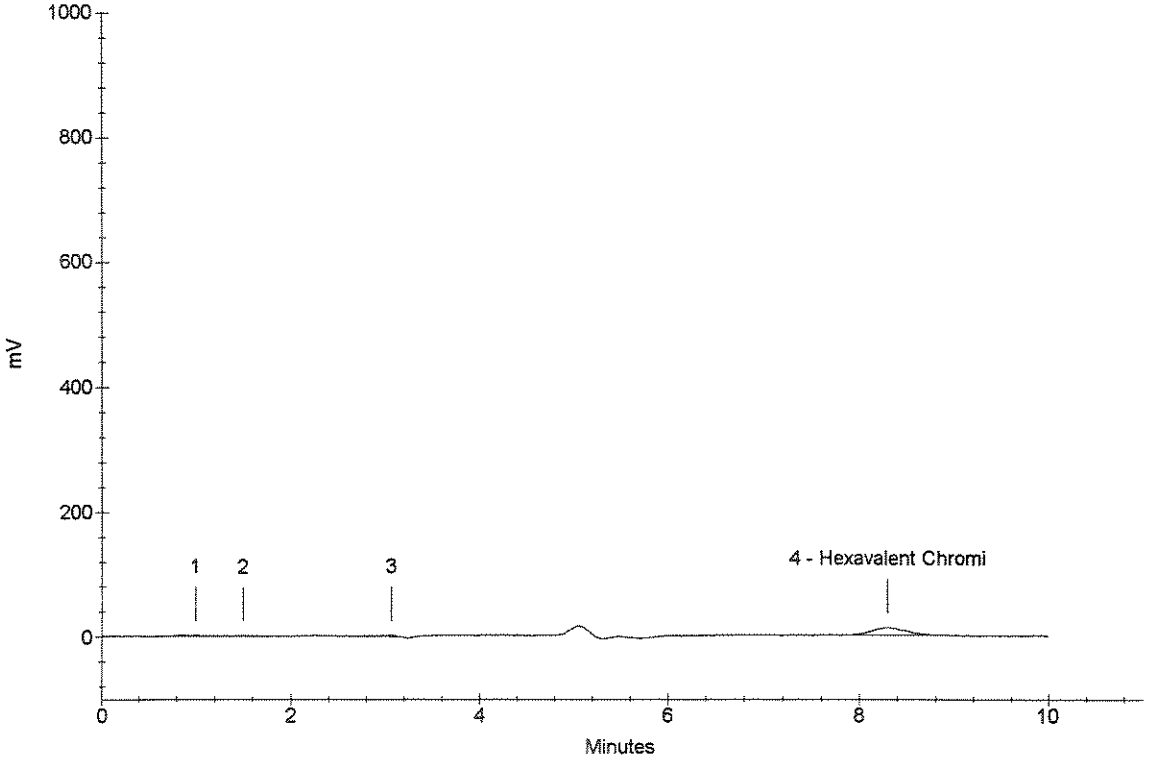
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
4	8.30	Hexavalent Chromi	0.0084	284930

7/18/08 1116816

$\frac{1 \times 100}{2.52} = 0.333$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116816
Data File Name : ...\717_137.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:13:23

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

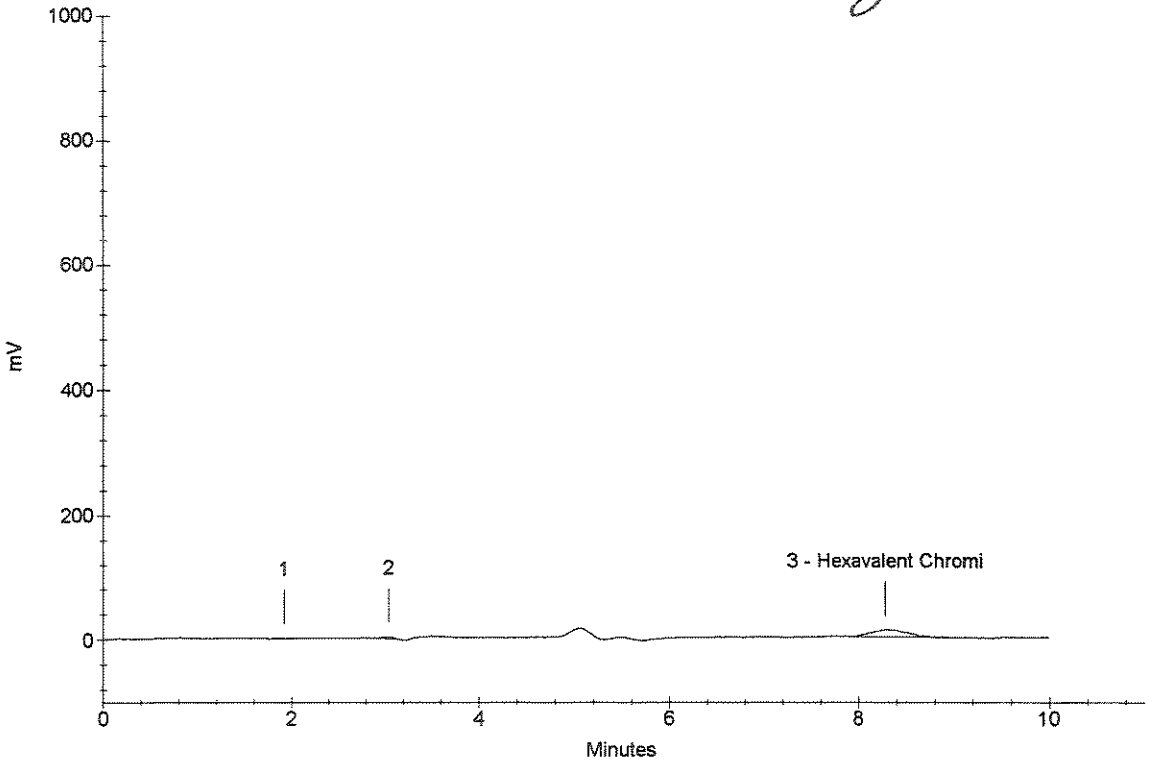
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.28	Hexavalent Chromi	0.0088	299643

OK
7/18/08
1116816
$\frac{L}{2.52} \times 100 = 0.349$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116817
Data File Name : ...\717_138.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:23:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

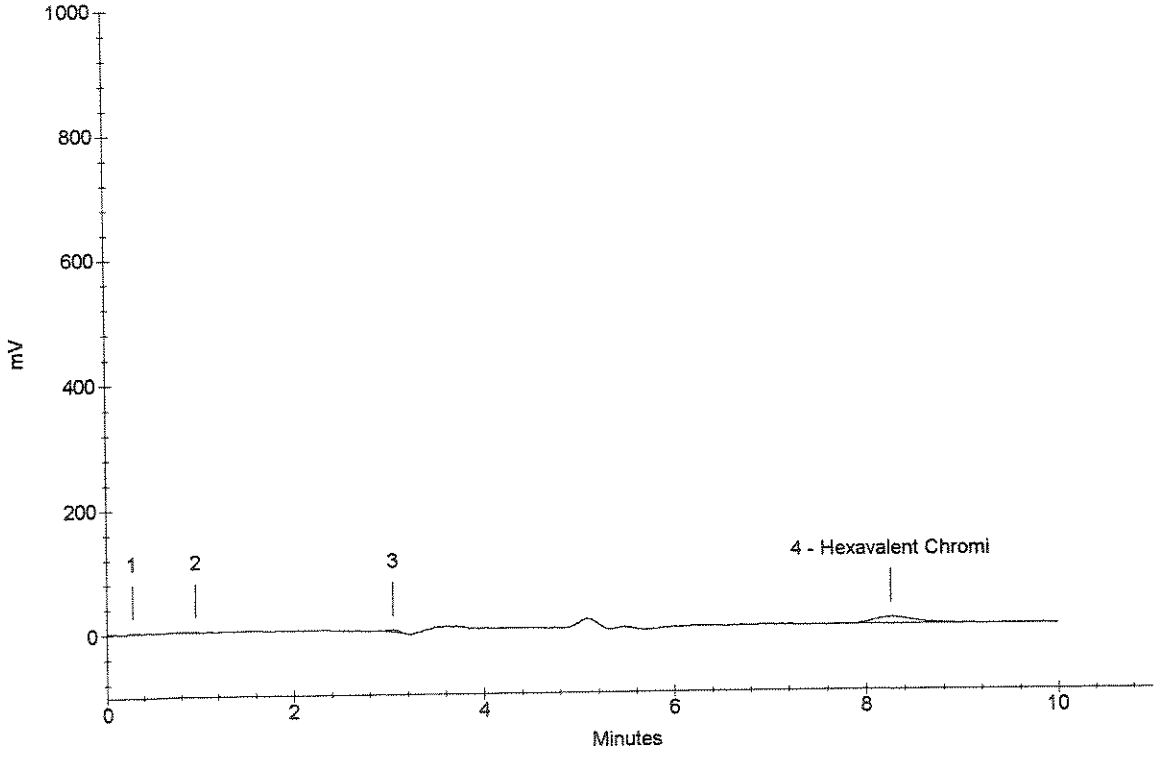
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
4	8.26	Hexavalent Chromi	0.0087	298201

OK 7/18/08

1116817

$L \times \frac{100}{2.50} = 0.348$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116817
Data File Name : ...\717_139.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:34:12

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

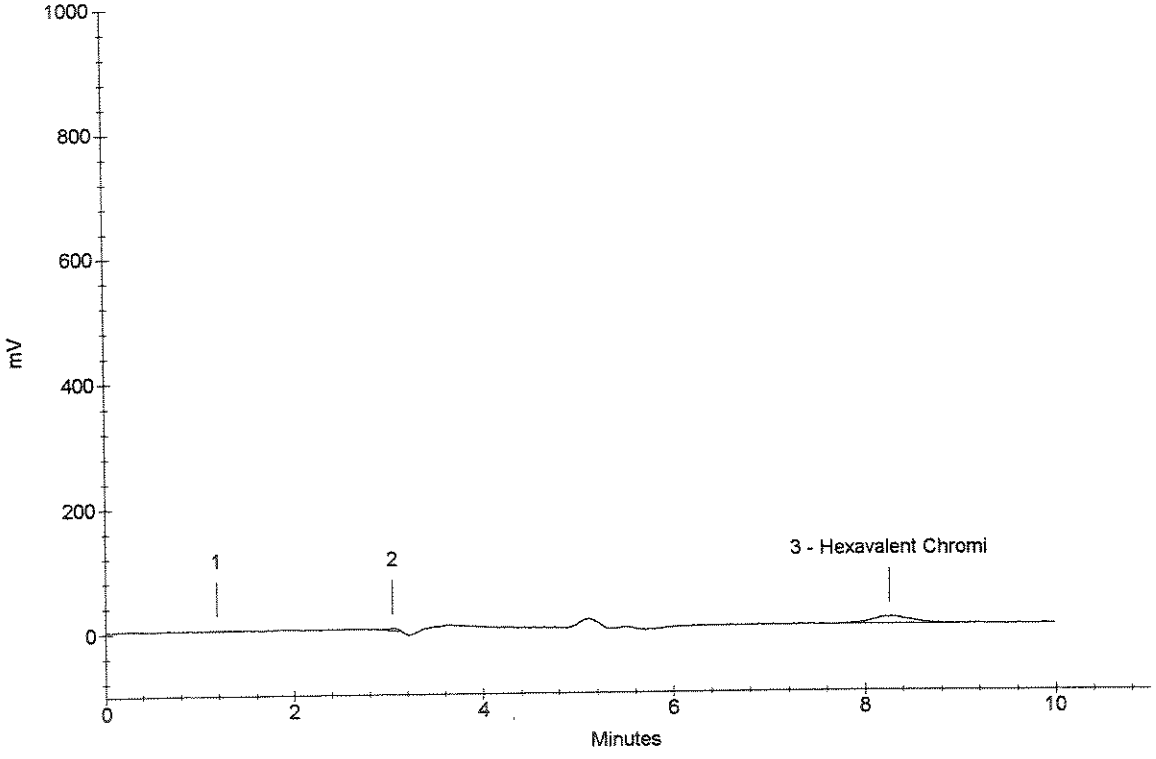
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.26	Hexavalent Chromi	0.0093	316863

2K

1116817 7/18/08 L x 100/2.50 : 0.372



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116818
Data File Name : ...\717_140.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:44:36

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

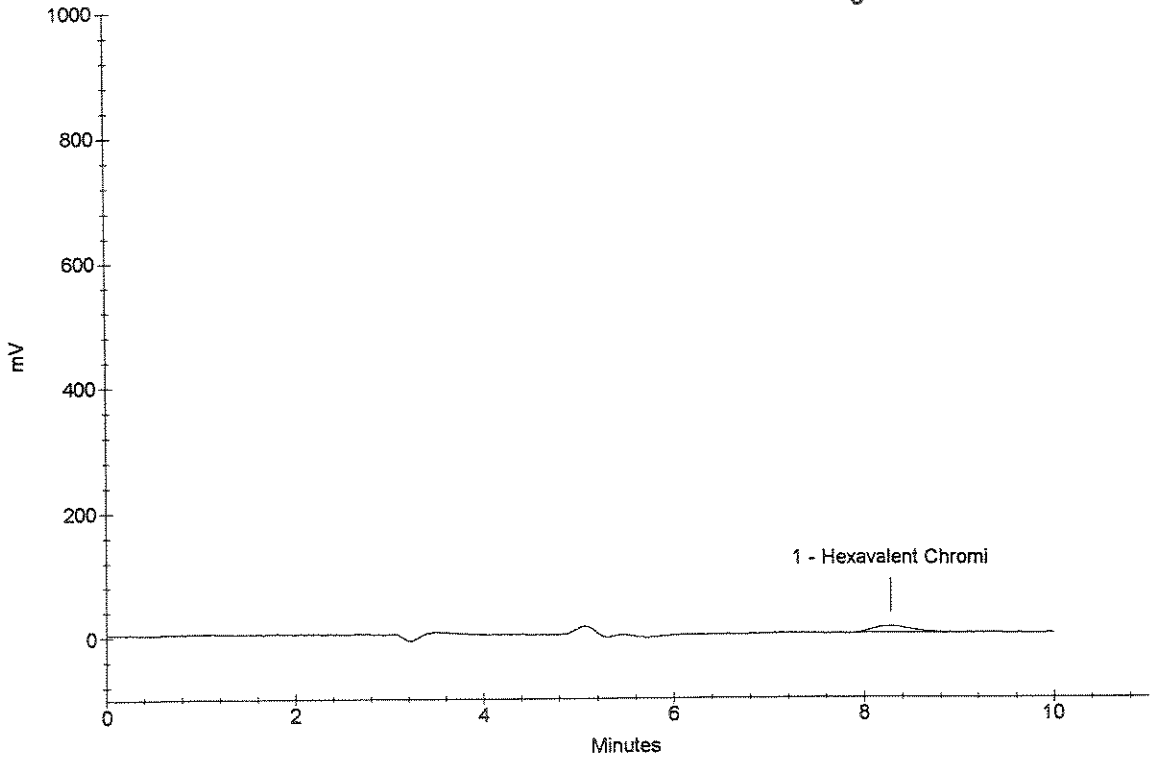
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.28	Hexavalent Chromi OK	0.0084	286262

CT 7/18/08 1116818

$\frac{1}{2.48} \times 100 = 0.339$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116818
Data File Name : ...\717_141.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 11:54:58

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

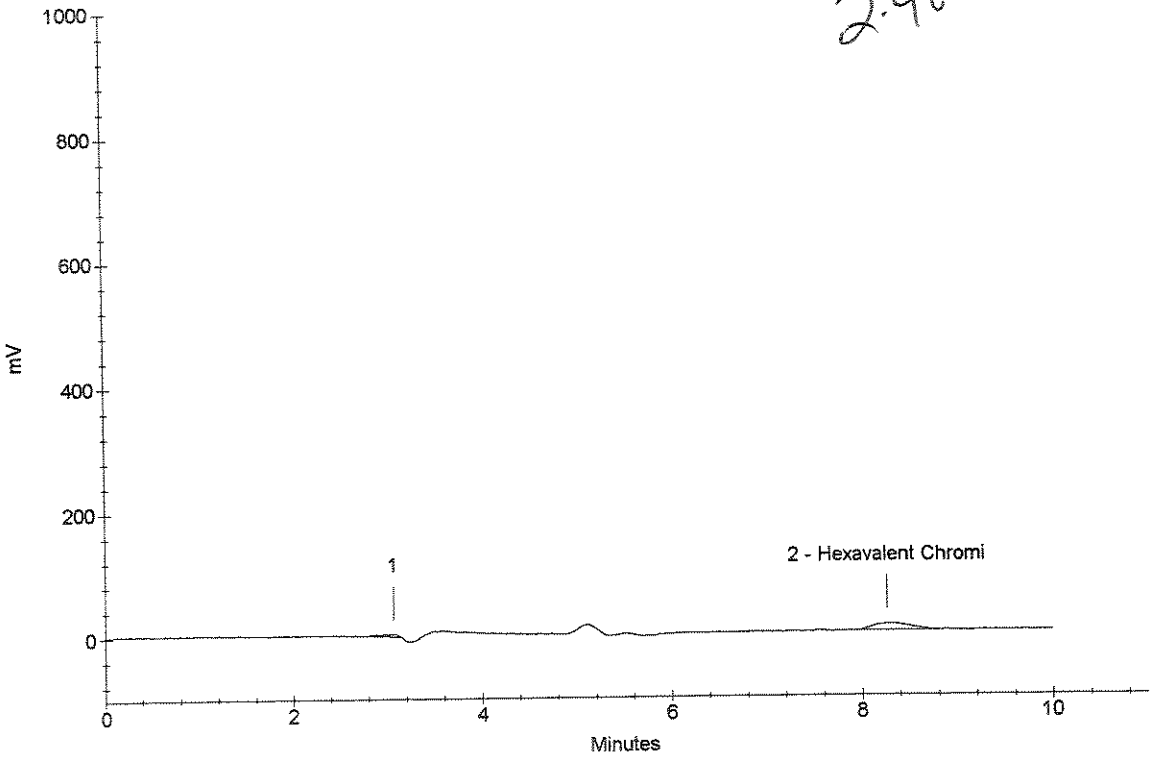
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.26	Hexavalent Chromi	0.0085	289393

OK 7/18/08

1116818

$\frac{\text{C}}{2.48} \times 100 = 0.343$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116819
Data File Name : ...\717_142.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:05:22

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

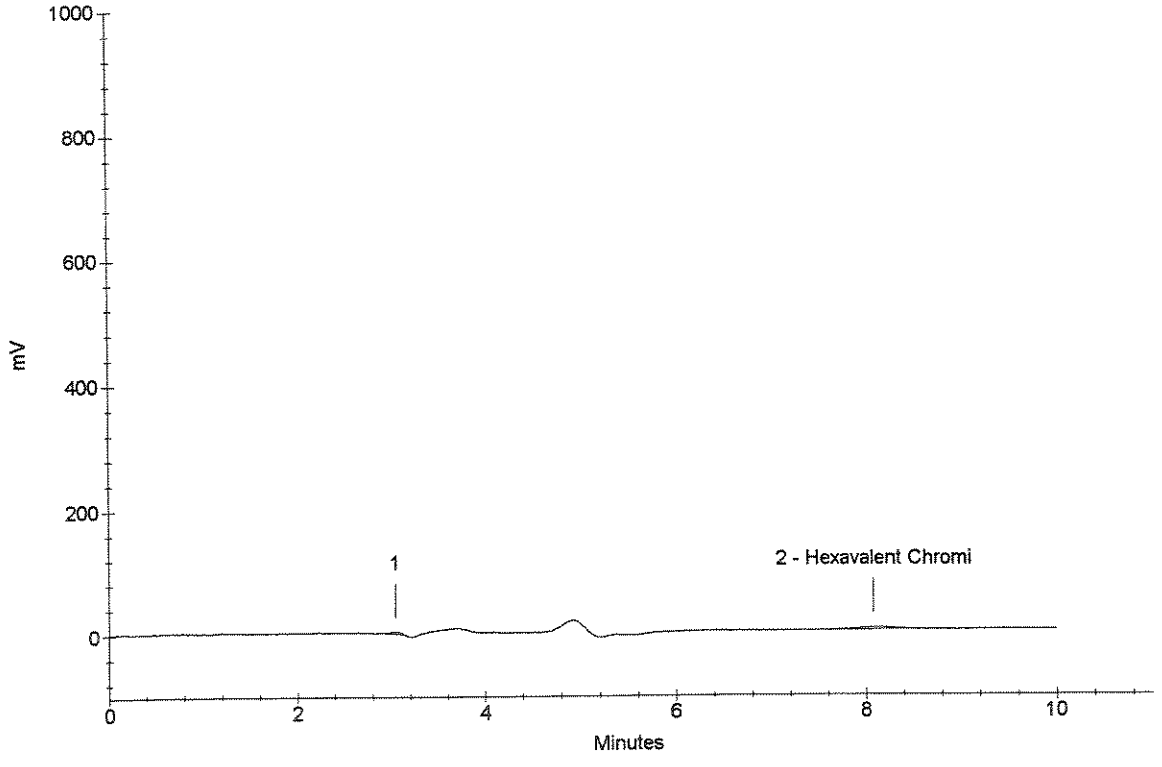
Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	8.08	Hexavalent Chromi	0.0026	92644

OK

7/18/08
1116819

$\frac{L \times 100}{253} = 0.103$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1116819
Data File Name : ...\717_143.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:15:47

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

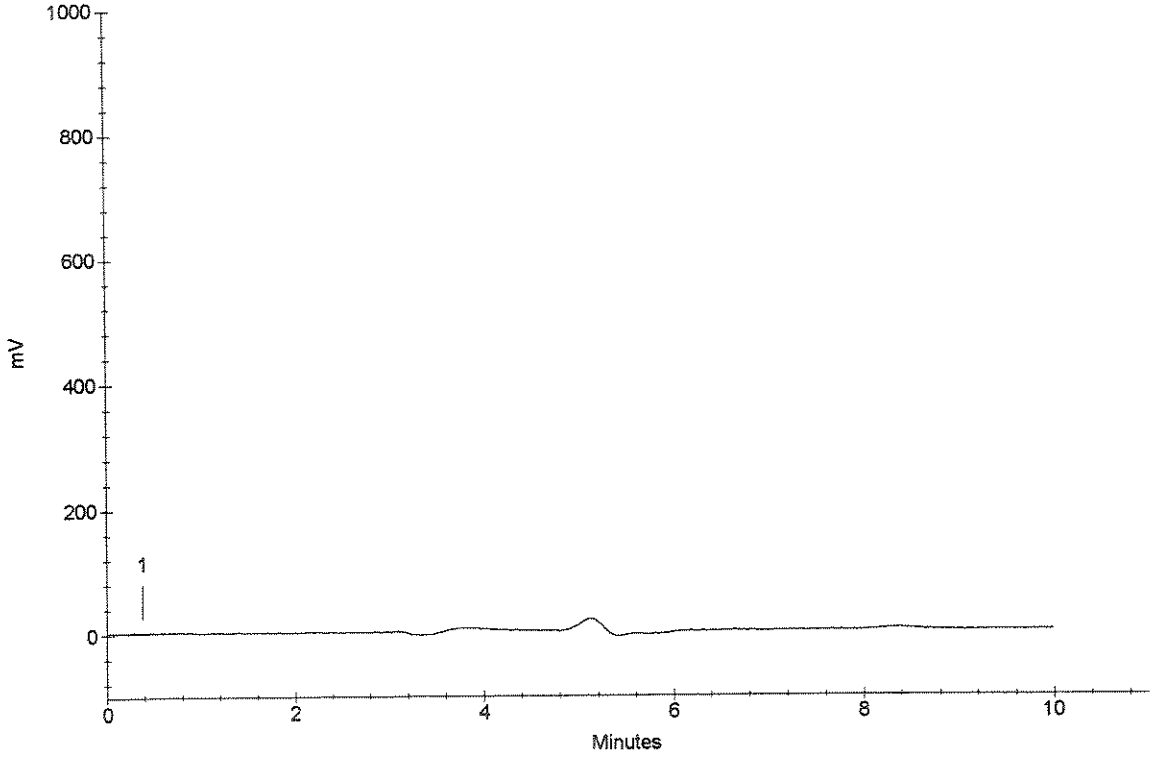
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1116819



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117272
Data File Name : ...\717_144.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:26:10

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

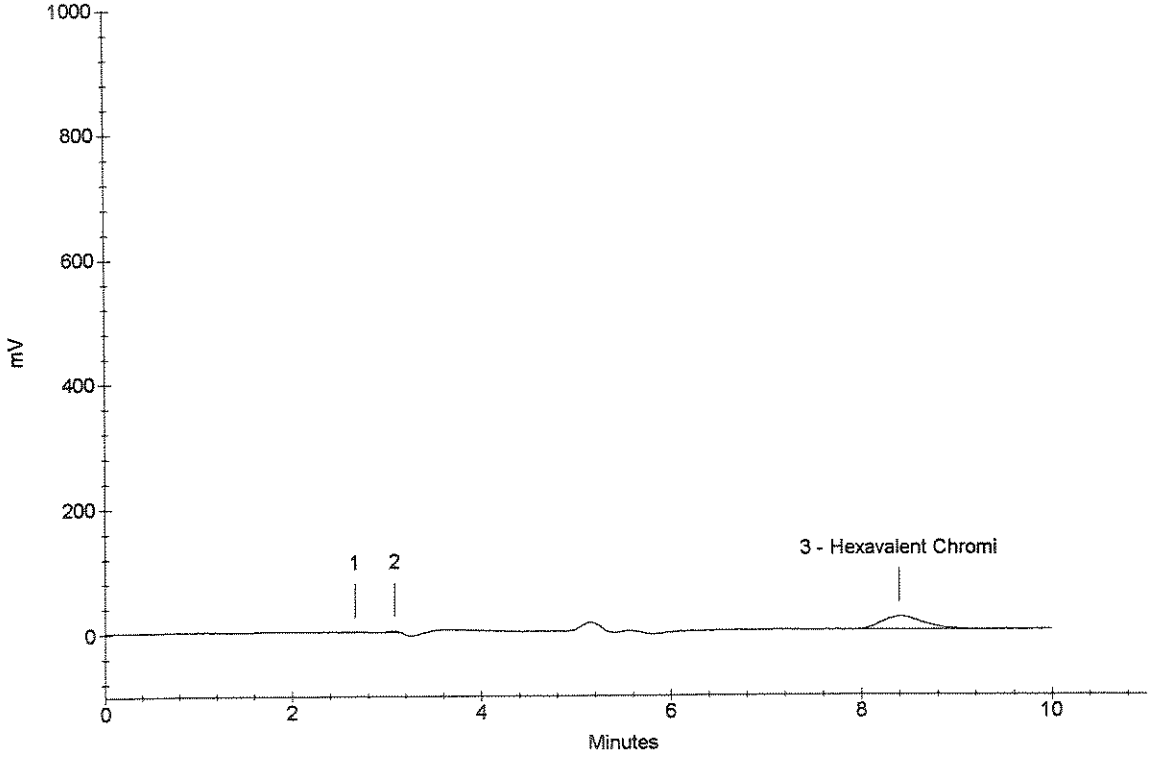
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	8.40	Hexavalent Chromi	0.0180	605959

7/18/08
1117272

$L \times \frac{100}{250} = 0.720$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117272
Data File Name : ...\717_145.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:36:35

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

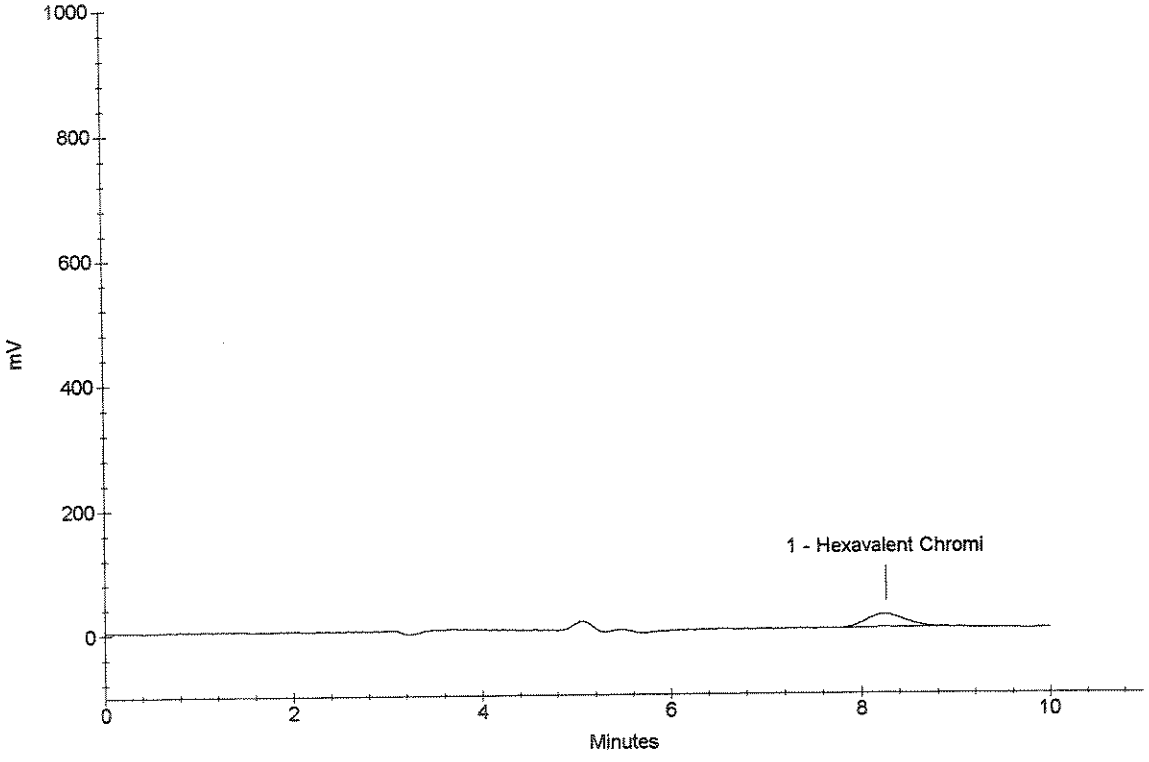
Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.26	Hexavalent Chromi	0.0178	598014

OK

7/16/08

1117272

$\times \frac{100}{250} = 0.712$



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117273
Data File Name : ...\717_146.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:47:00

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

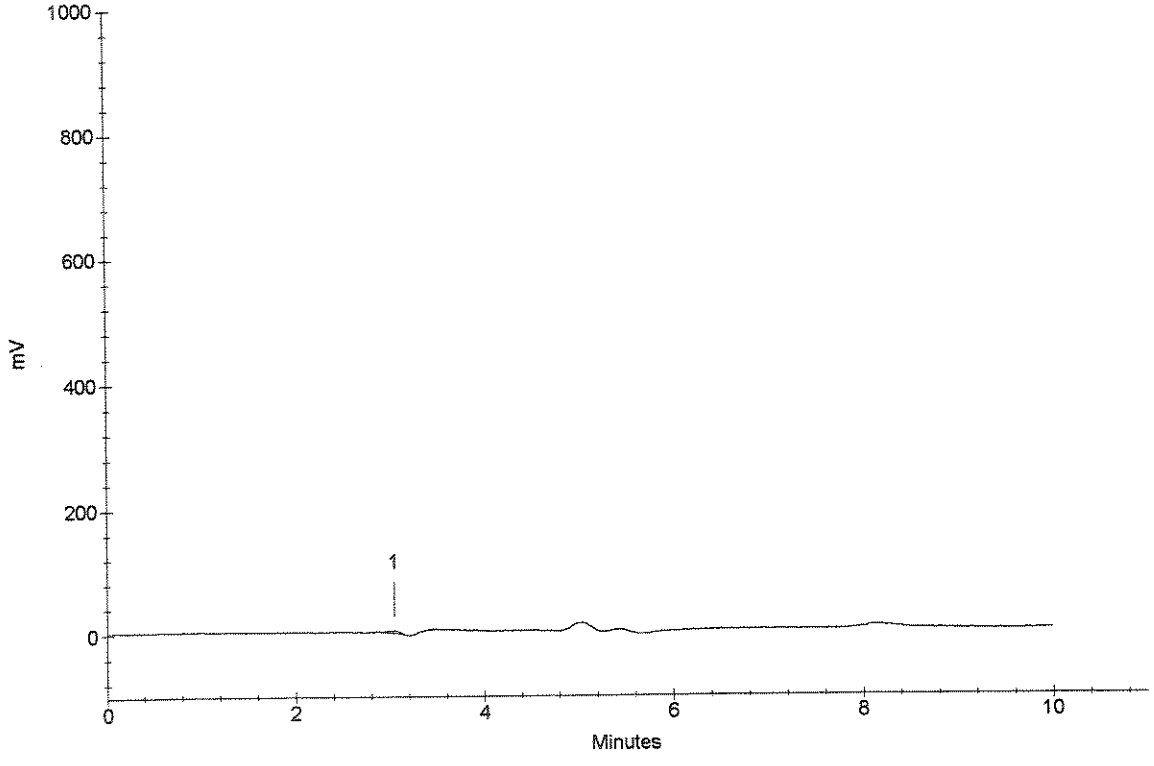
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08

1117273



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : 1117273
Data File Name : ...\717_147.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 12:57:23

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

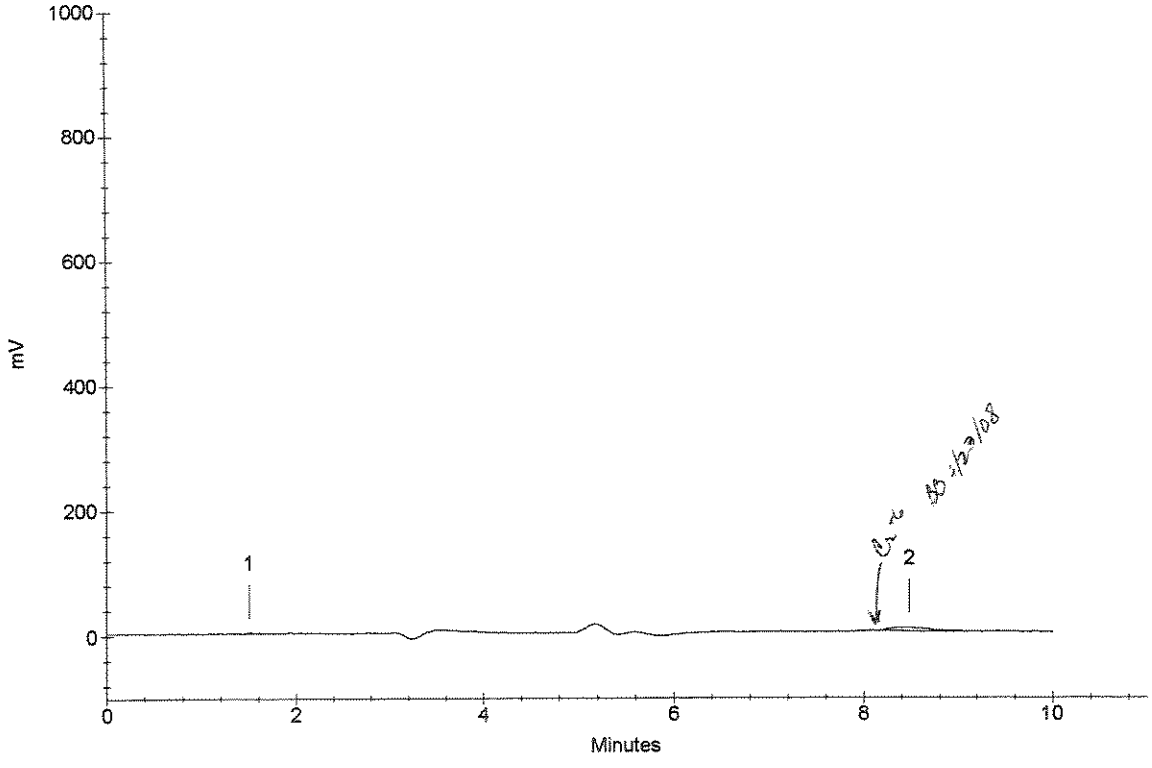
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

OK
7/18/08
1117273



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCV
Data File Name : ...\717_148.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 13:07:48

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

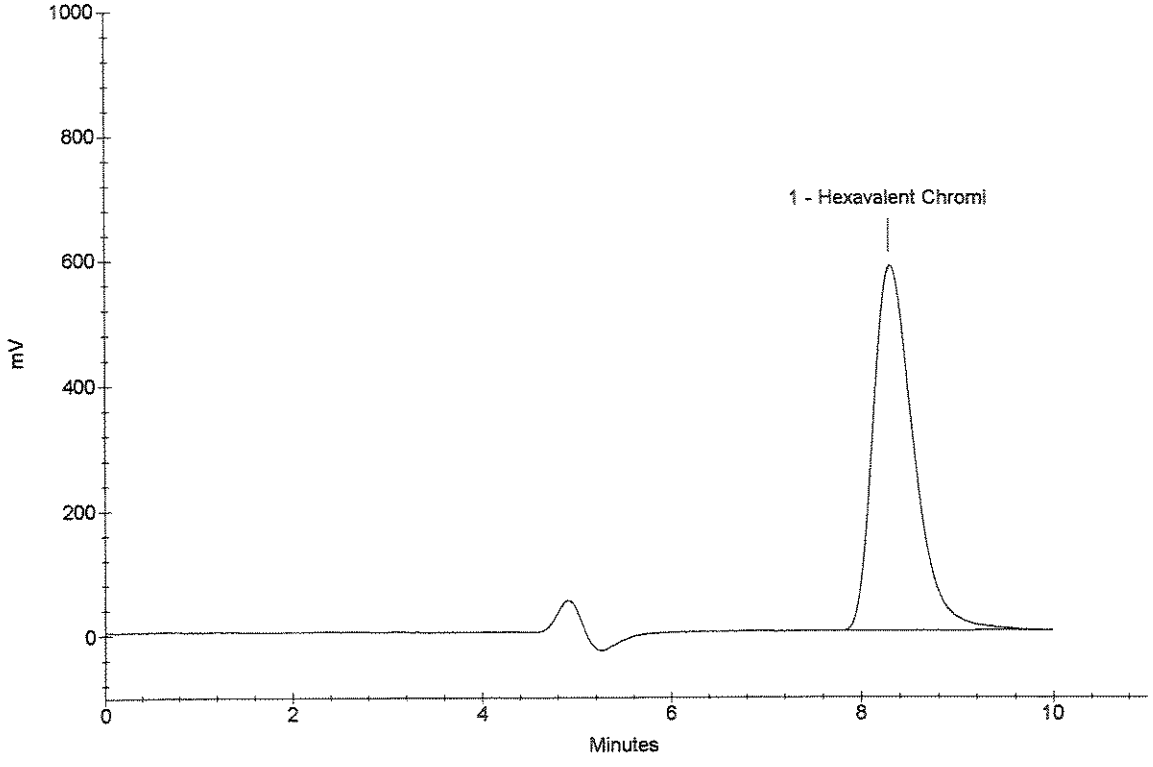
Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	8.30	Hexavalent Chromi	0.5107	16975356

CCV 7/18/08



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : CCB
Data File Name : ...\717_149.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/18/08 13:18:12

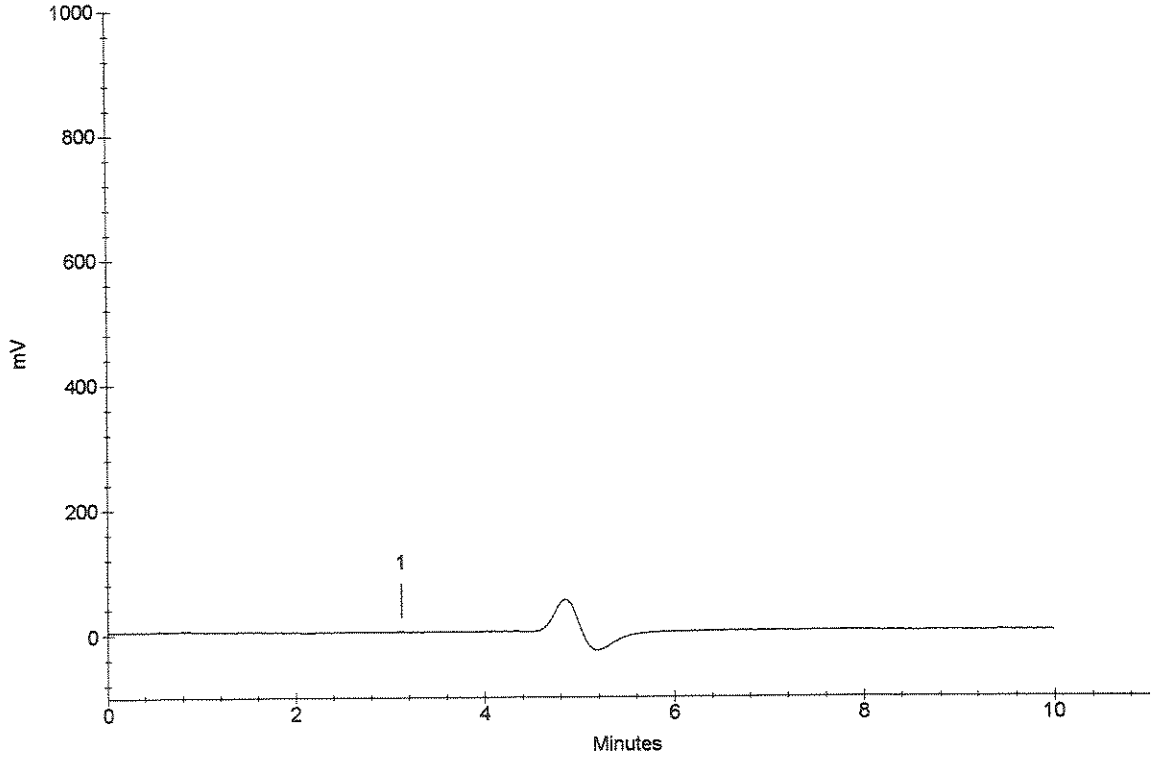
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area



Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1

Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08

Curve Date: 07/16/08 **Loop size:** 100 uL Loop

Analyst: C. Weeds **Analysis Date:** 7-17-08

Standards Prep Dates & Log ID's:

Std Type	*Date Rec'd*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Standard Stock	03/19/07	WC76254G		Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/19/07	WC76254G		Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	12/13/07	WC85083G		I/CCV	Daily	SAME AS WC85001D
LCS / MS Insoluble Stock	01/11/08 Soils Only	WC85095H Soils Only		Insoluble LCS/MS	Daily	SAME AS WC85001C
				Soluble LCS	Daily	SAME AS WC85001E

Comments:

Instrument software prevents analytes with no peak area from being used in the curve calculation. The method requires the use of a zero point, so to ensure the use of our zero, the quanitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 1
Sample Type : Calibration Update
Data File Name : ...\716_001.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 10:43:27
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

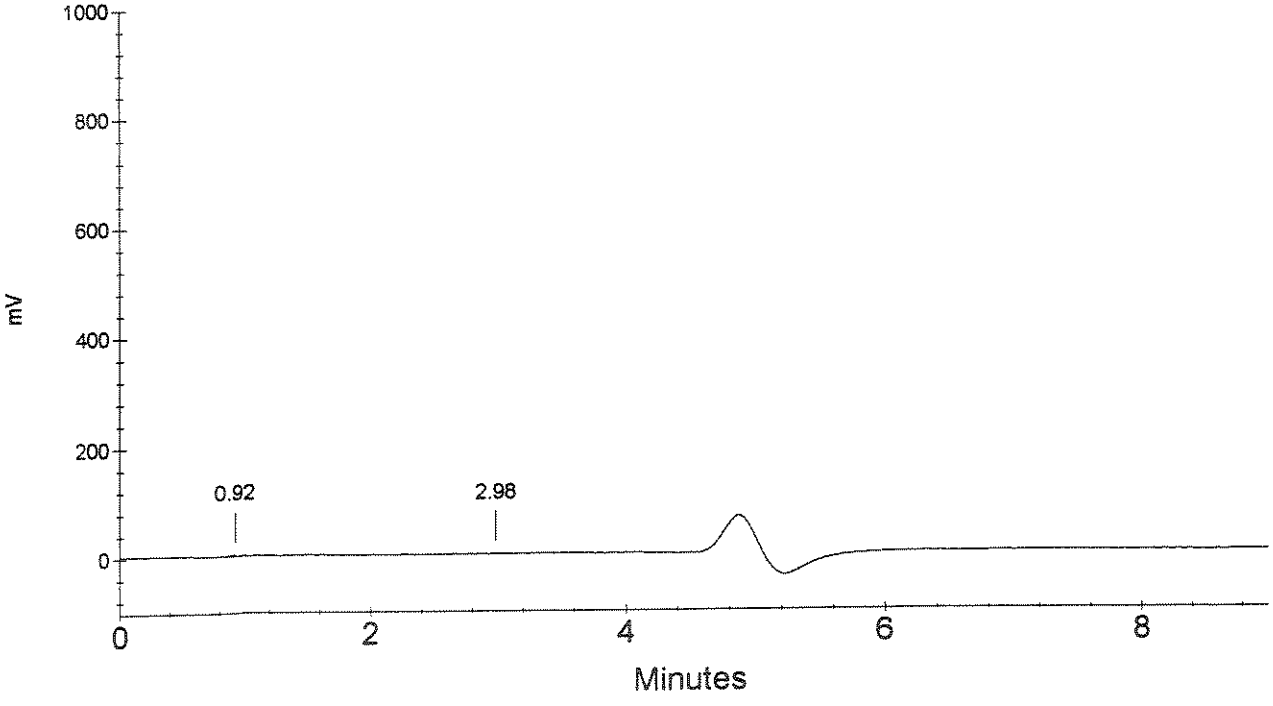
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 1

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	0.92		0.000	8870

STANDARD 1



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 2
Sample Type : Calibration Update
Data File Name : ...\716_002.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 10:53:52
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

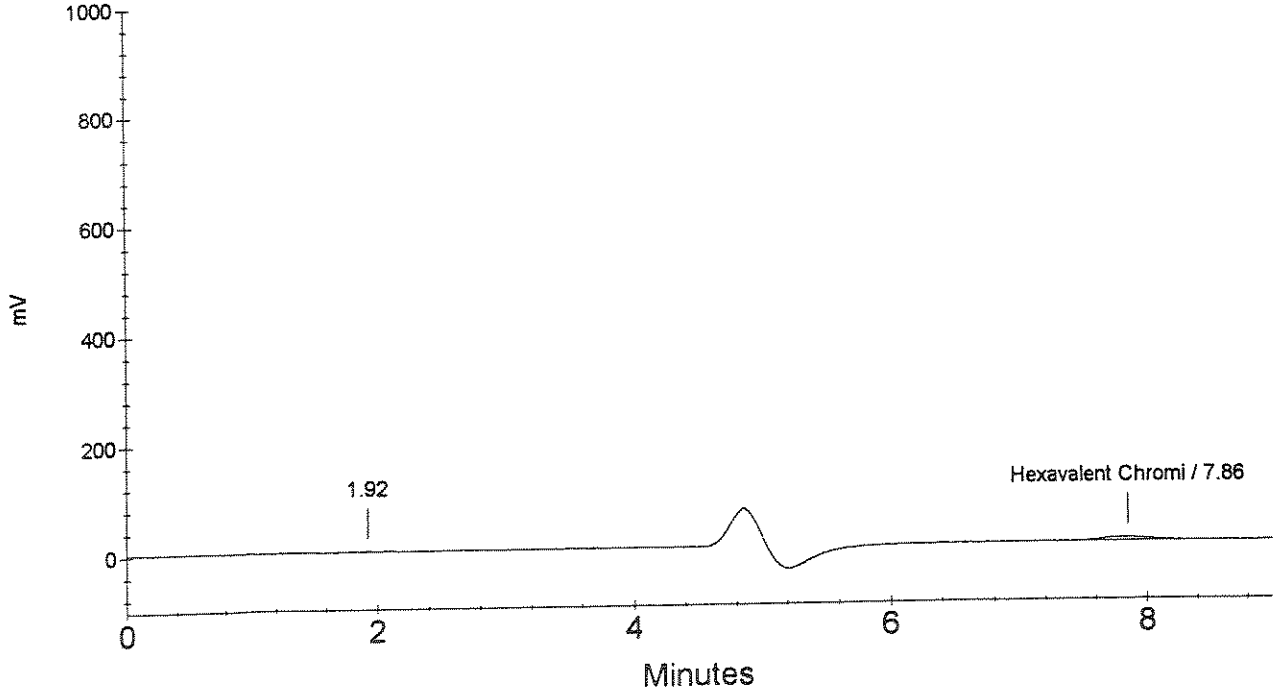
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 2

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.86	Hexavalent Chromi	0.005	156910

STANDARD 2



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 3
Sample Type : Calibration Update
Data File Name : ...\716_003.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 11:04:17
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

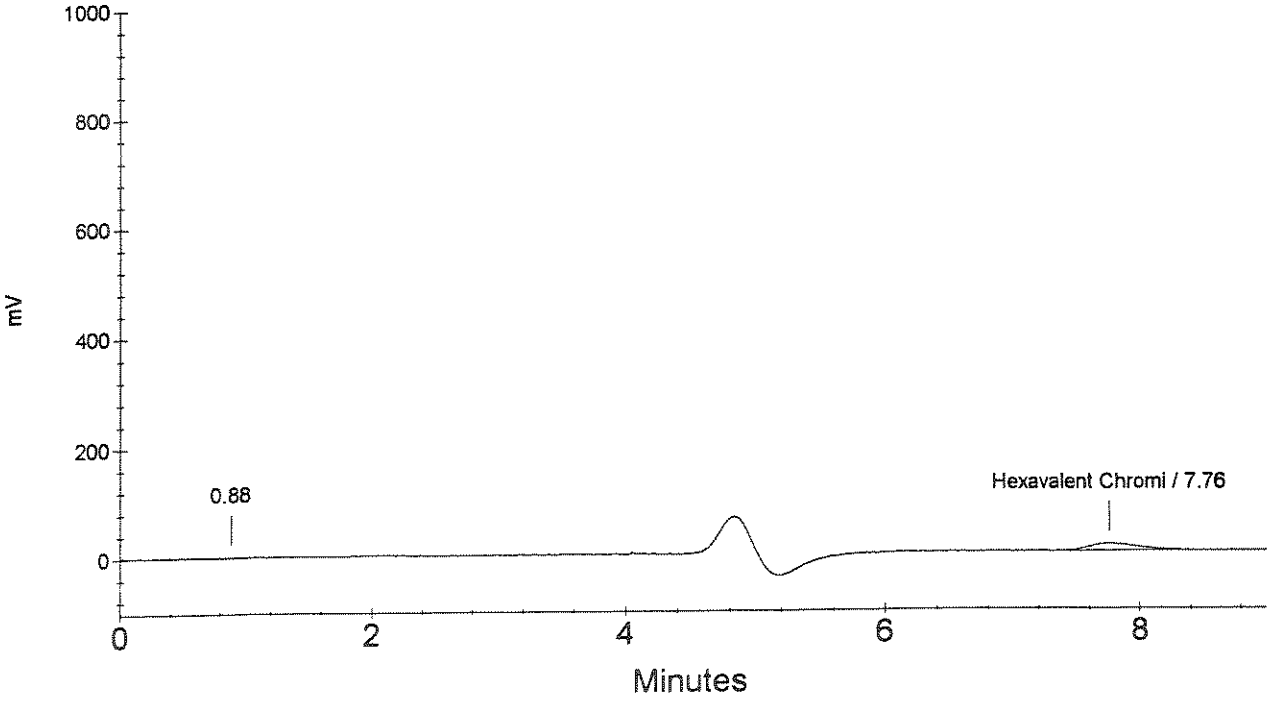
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 3

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.76	Hexavalent Chromi	0.010	347287

STANDARD 3



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 4
Sample Type : Calibration Update
Data File Name : ...\716_004.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 11:14:41
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

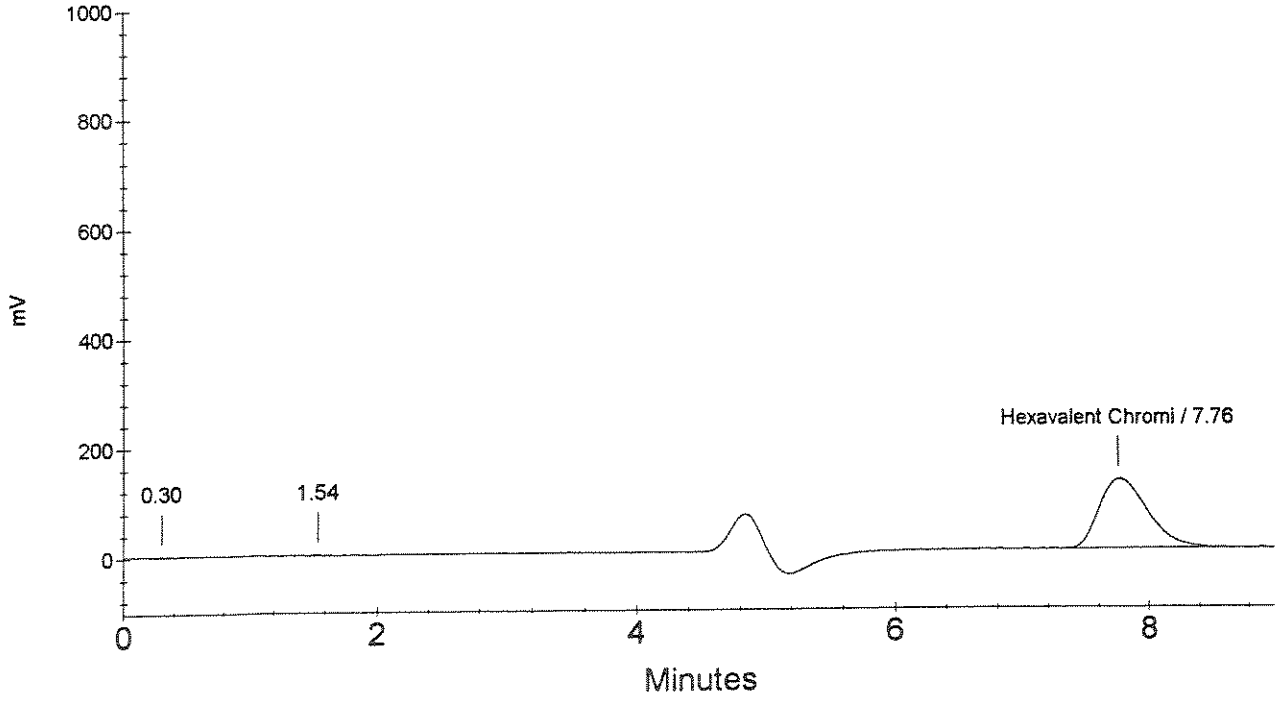
Calibration Type : EXTERNAL
Calibration Level : 4

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
3	7.76	Hexavalent Chromi	0.100	3343001

OK
7/17/08

STANDARD 4



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 5
Sample Type : Calibration Update
Data File Name : ...\716_005.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 11:25:06
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

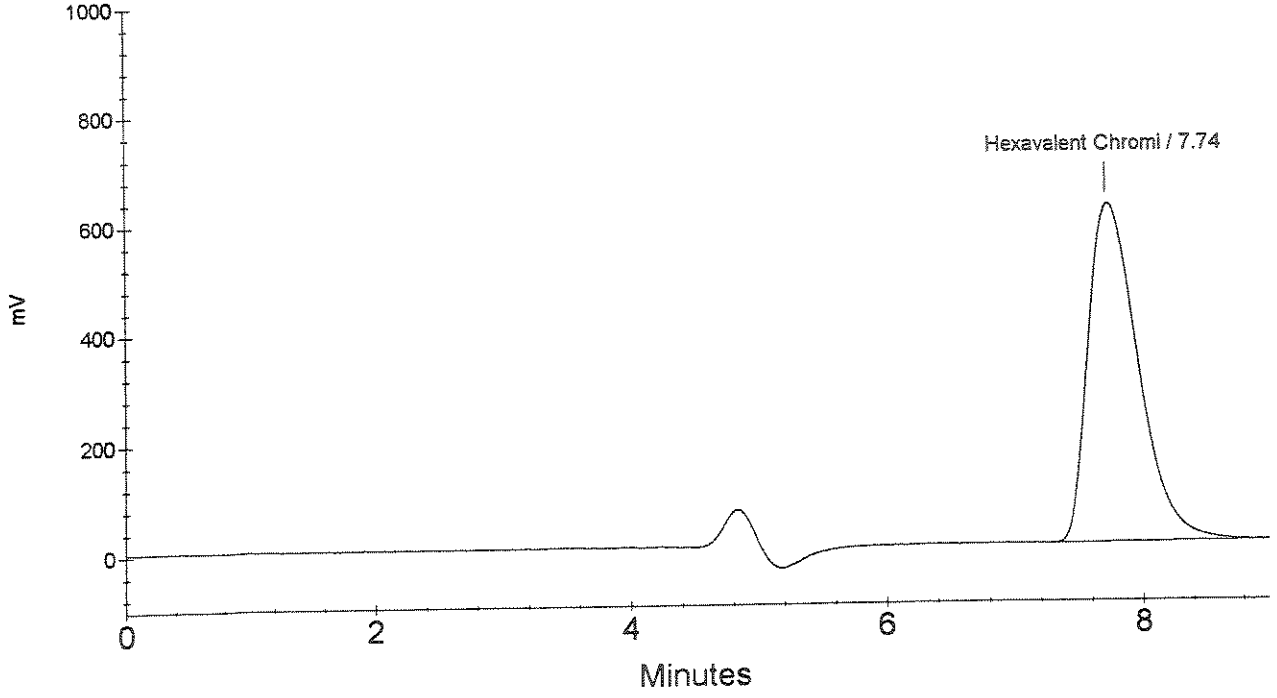
Calibration Type : EXTERNAL
Calibration Level : 5

Peak Information : All Components

Peak Number	Peak Retention Time	Component Name		Component Amount (PPM)	Peak Area
1	7.74	Hexavalent Chromi	OK	0.500	16638083

CMW 7/17/08

STANDARD 5



Ion Chromatography Calibration Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : STANDARD 6
Sample Type : Calibration Update
Data File Name : ...\716_006.DXD
Method File Name : ...\Cr6-716.met

Date Time Collected : 7/16/08 11:35:31
Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Analyst : CMW

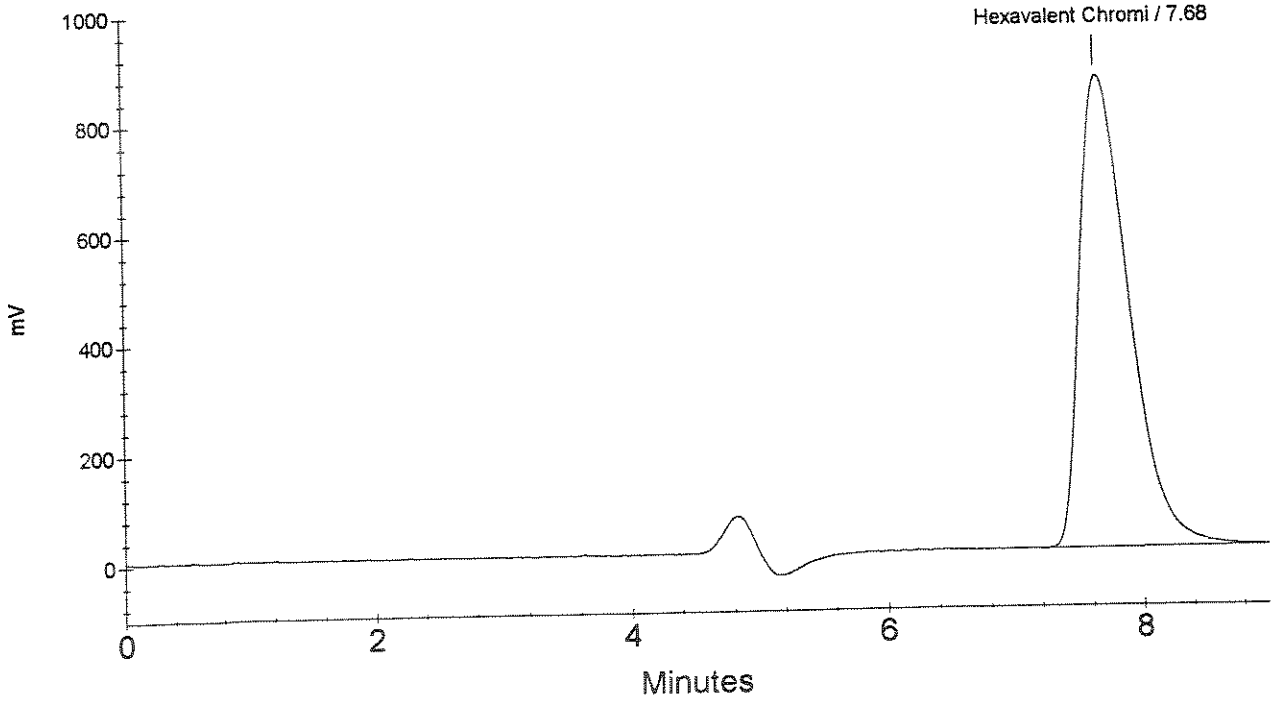
Dilution Factor : 1.00
Sample Comment :
Data Collection Rate : 20.00 Hz

Calibration Type : EXTERNAL
Calibration Level : 6

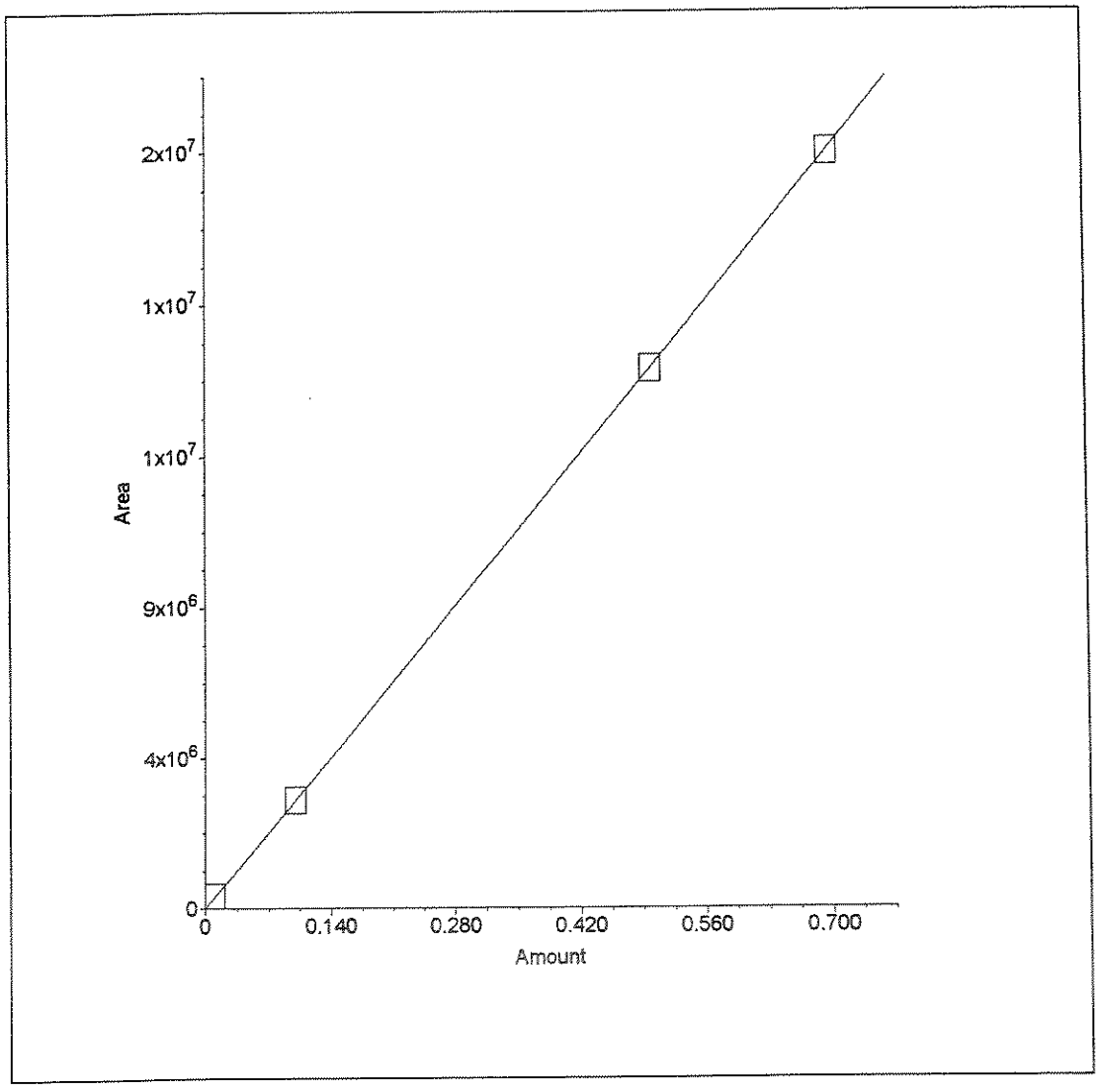
Peak Information : All Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
1	7.68	Hexavalent Chromi	0.700	23248396

STANDARD 6



1. Component:Hexavalent Chromi
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999998
Amt=3.01e-008*Resp+-0.0002258



DIONEX ACI METHOD PARAMETERS - Cr6-716.met

Method Information : All Modules

System Name : Dionex 4000i
System Number : 101
Method Type : Ion Chromatography
Column : AS7 (012190) NG-1 (020261)
Analyst : CMW
Comment : Cal.: IC#1, 07/16/08 50uL Loop

AI450 Detector Parameters

Detector Type : UV/Vis
Data collection time (minutes) : 10.00
Data Collection Rate : 20.00
Real time plot scale maximum (mV) : 1500.000
Real time plot scale minimum (mV) : -100.000

AI450 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 12.00
Peak threshold : 2.00
Peak area reject (area counts) : 1000.00
Reference peak area reject (area counts) : 1000.00

AI450 Smoothing Parameters

Filter Type : No filter

AI450 Report Data

Report Format File : J:\ACQUDATA\IC\METHOD.ACI\IC#2\As7-cr6.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

AI450 Integration Data Events

Time	Description
3.20	Stop peak detection
4.40	Force baseline at start of all peaks
5.00	Double peak threshold
6.00	Start peak detection

AI450 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units : PPM
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

AI450 Component Identification Table

Component	Retention	Tolerance	Reference
Hexavalent Chromi	7.68 min	10.00 %	

AI450 Component Quantitation Table

Component	Retention	Low Limit	High Limit
Hexavalent Chromi	7.68 min	0	0

AI450 Component Calibration Table

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
Hexavalent Chromi	7.68 min	Linear	Include	Area		0.00

AI450 Component = Hexavalent Chromi Levels Table

Retention Time : 7.68 min
Amount units : PPM
Replicate unit type : Area
Number of levels : 6
Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	~~2.27454e+007~~
2	0.01	156910
3	0.01	347287
4	0.10	3.343e+006
5	0.50	1.66381e+007
6	0.70	2.32484e+007

NO PEAK DETECTED cm 7/16/08

AI450 XY Data Parameters

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICV
Data File Name : ...\716_007.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 11:45:56

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

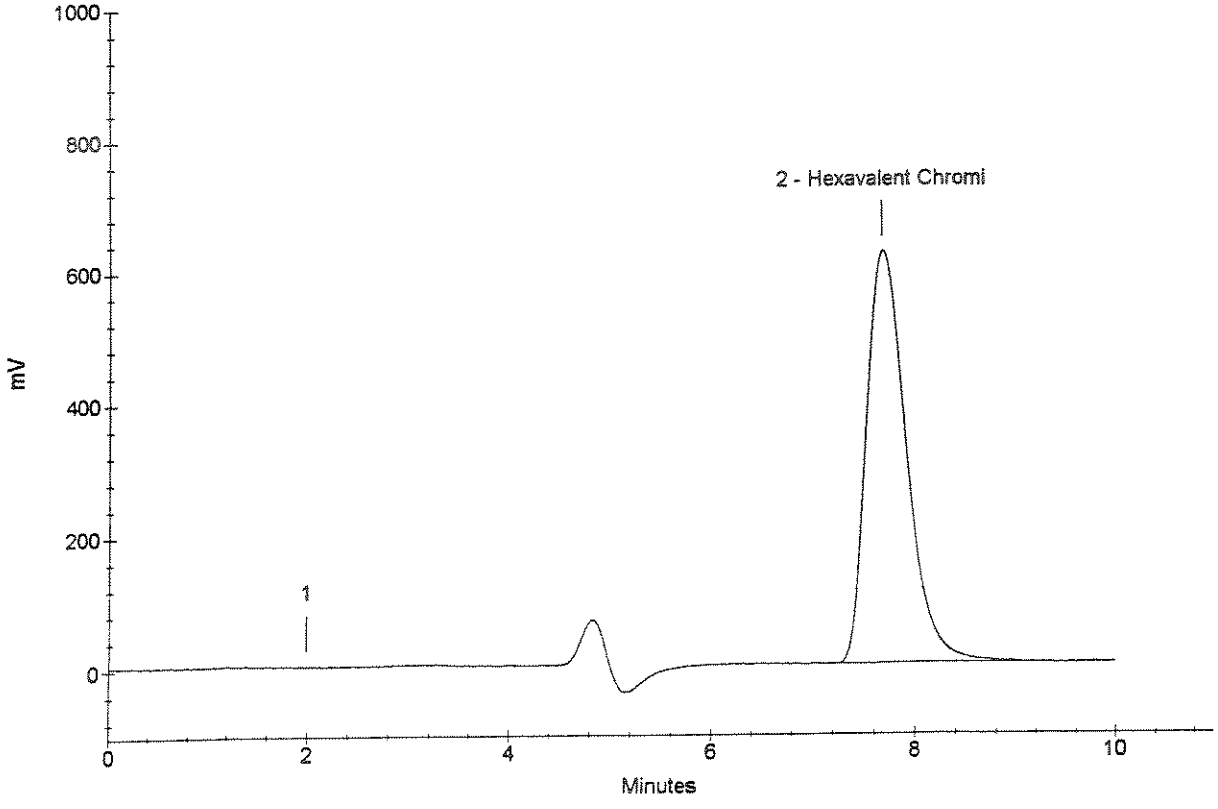
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
2	7.68	Hexavalent Chromi	0.5027	16708230

OK 7/17/08

ICV



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : ICB
Data File Name : ...\716_008.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 11:56:21

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

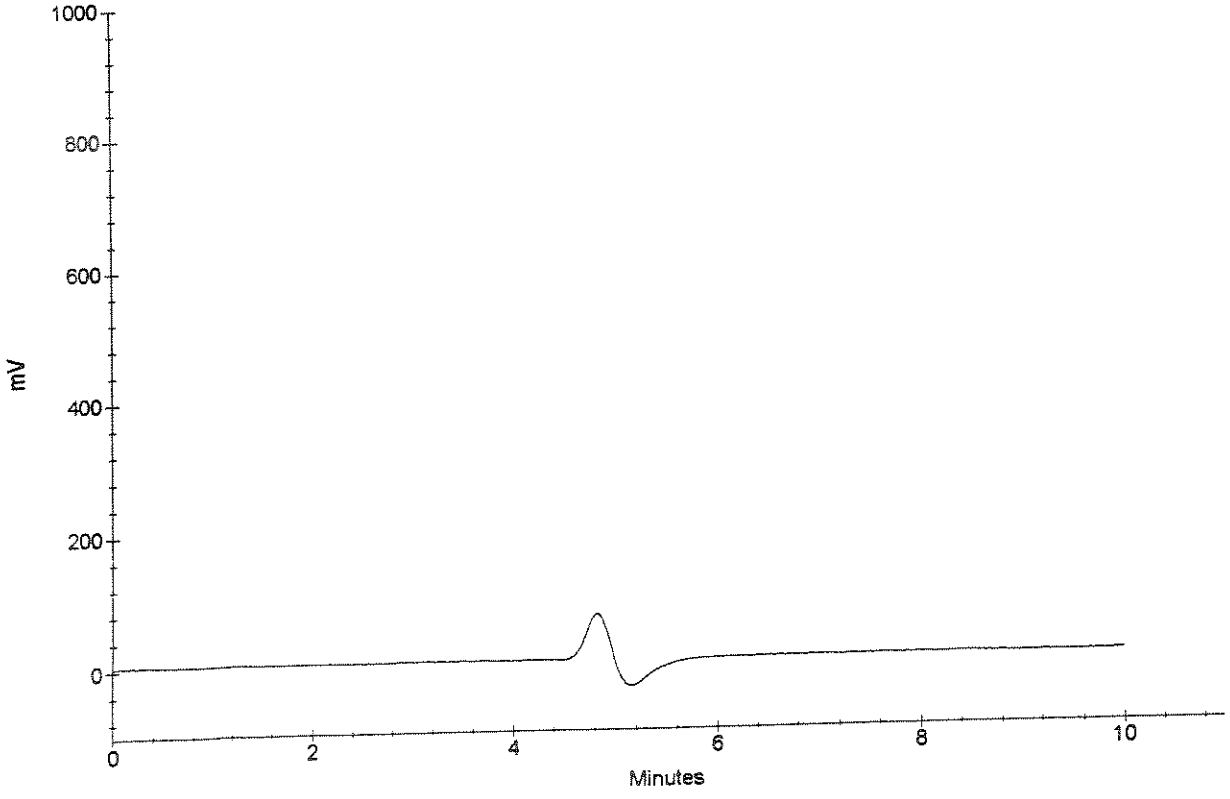
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area

DK
7/17/08

ICB



Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14607

Sample Name : LCS
Data File Name : ...\716_009.DXD
Method File Name : ...\Cr6-716.met
Date Time Collected : 7/16/08 12:06:45

Detector Name : UV/Vis
Column ID : AS7 (012190) NG-1 (020261)
Method Comment : Cal.: IC#1, 07/16/08 50uL Loop

Dilution Factor : 1.00
Sample Type : Sample Analysis
Sample Comment :

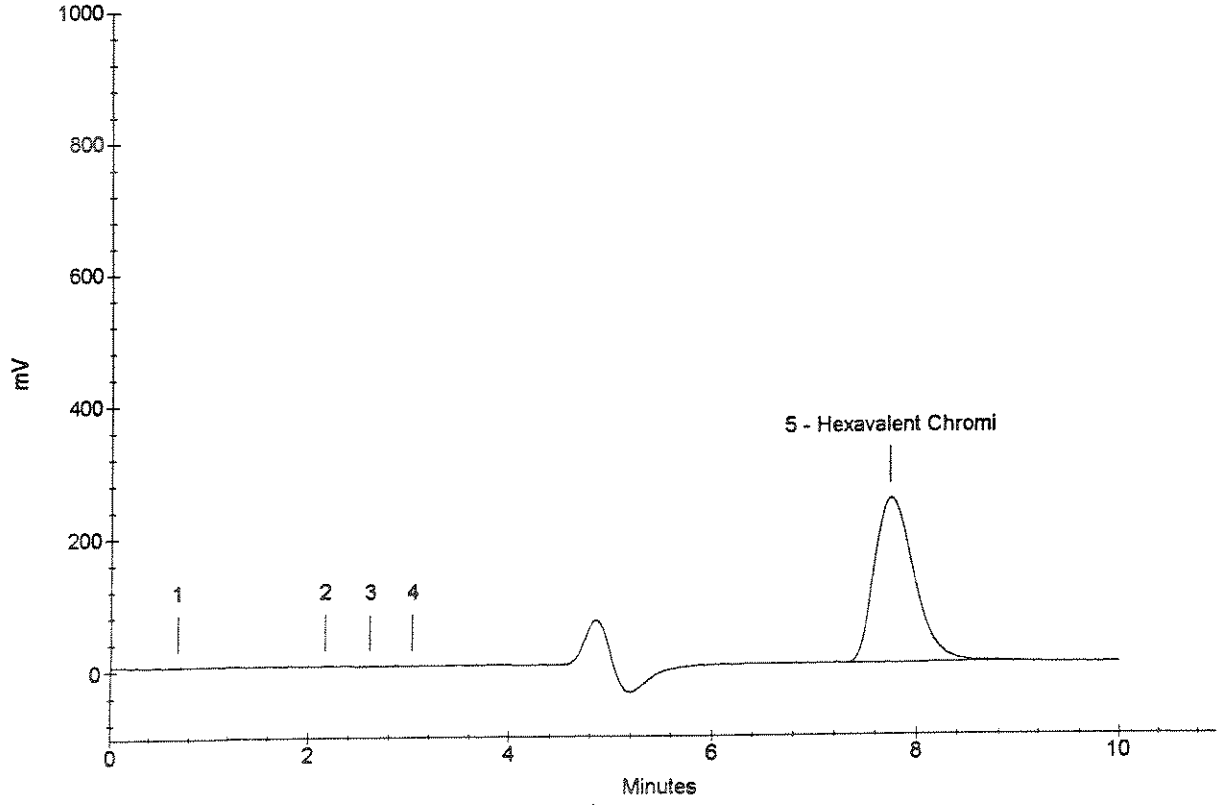
Data Collection Rate : 20.00 Hz
Data Collection Period : 600.00 seconds
Component Amount Units : PPM

Peak Information : Found Components

Peak Number	Peak Retention Time	Component Name	Component Amount (PPM)	Peak Area
5	7.74	Hexavalent Chromi	0.1984	6599758

OK
7/17/08

LCS



Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Dionex 4000 Series, IC #1

Column: AS7 Analytical Column, NG-1 Guard Column, 4mm, 07/07/08

Curve Date: 07/16/08 **Loop size:** 100 uL Loop

Analyst: C. Woods **Analysis Date:** 7-16-08

Standards Prep Dates & Log ID's:

Std Type	*Date Rec'd*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Standard Stock	03/~~14~~/07 19	WC76254G		Calibration Stds	Daily	SAME AS WC85001A
LCS / MS Soluble Stock	03/~~14~~/07 19	WC76254G 1/22/08		Soluble MS	Daily	SAME AS WC85001B
I/CCV Standard Stock	~~11/28/05~~ 12/13/07	WC85083G 1/22/08		I/CCV	Daily	SAME AS WC85001D
LCS / MS Insoluble Stock	01/11/08 Soils Only	WC85095H Soils Only		Insoluble LCS/MS	Daily	SAME AS WC85001C
				Soluble LCS	Daily	SAME AS WC85001E

Comments:

Instrument software prevents analytes with no peak area from being used in the curve calculation. The method requires the use of a zero point, so to ensure the use of our zero, the quanitation file will include a (0,0) point in the calibration curve when no area has been assigned to the zero standard.

Page

CMW 7/16/07

(A) Cr^{6+} 7199 Calibration Standards

10ppm Cr^{6+} working stock: Do two (2) 1:10 serial dilutions of 1000ppm standard stock (WC762436) using buffered DI.

Std	Conc	mls Buffered DI	mls 10ppm working stock
6	0.70	9.3	0.70
5	0.50	9.5	0.50
4	0.10	9.9	0.10
3	0.010	9.0	1/10 dilution of #4
2	0.005	9.0	1/10 dilution of #5
1	0.0	10.0	—

(B) Cr^{6+} 7199 Soils Soluble Matrix Spike

Add 1mL of 100ppm working standard stock (1/10 dilution of 1000ppm standard (WC762436) to sample during digestion. TV= 100/sample mass(g).

(C) Cr^{6+} 7199 Soils Insoluble Matrix Spike

Add approximately 10mg of Lead Chromate (WC692237E) to sample or digest reagent during digestion.

TV= $\frac{mg\ PbCrO_4}{\text{sample mass(kg)}} \times 0.161 =$

(D) Cr^{6+} 7199 ICV/CCV

Add 0.5mls of 100ppm working reference stock (Do two (2) 1:10 serial dilutions of 1000ppm Reference stock (WC760608) to 9.5mls of buffered DI. TV=0.50

(E) Cr^{6+} 7199 Waters LCS

Add 0.2mls of 100ppm working standard stock to 10mls of buffered DI. TV= 0.20.

TC 7/16/07

(F) TOTN + NO_2 Buffer

To a tared 1-Liter amber glass jar add:

- 778.5g DI
- 113.4g HCl (WC768860F)
- 76.5g NH_4OH (WC762594F)
- 0.90g EDTA (WC762794H)

Stir until dissolved + cool. Adjust pH to 8.5 w/ conc. HCl or NaOH. Exp 1yr, 7/16/08.

Reviewed & Approved
By: CK
Date: 9/6/07

3/16/07 (A) Ascorbic Acid – OPO4 Kanelab
WB In a 100mL vol flask add ~80 ml DI.
Dissolve 6.0g Ascorbic Acid (WC76189D).
Add 0.2 ml Acetone (WC76060F). Bring
to volume with DI. Expires 2 weeks, 3/30/07

3/19/07 (B) 0.02500 N Iodine – sulfides
GN In a 1 Liter vol. flask add 20.65g KI (WC76230C) to
~500 mL DI. Dissolve, then add 32g Iodine (WC69254D)
Bring to volume w/DI. Stir until dissolved. Store in
amber glass at 4°C. Standardize w/ each use.
Exp 1 year, 3/19/08.

3/19/07 (C) 0.02500 N $Na_2S_2O_3$ – sulfides
GN 50.0 mL of 0.1N $Na_2S_2O_3$ (WC76237G) → 200 mL volumetrically
w/DI. Store at 4°C. Exp: 2 weeks 04/02/07.

3/19/07 Received from VWR
BD (D) · (1) x 4L Water Hardness Titrant, 1mL = 1mg $CaCO_3$.
Cat# VW3511-4, VWR Lot# 6331, CAS# 6381-92-6.
Store @ R.T. Expires 5/31/08
(E) · (1) x 500g Ferrous Ammonium Sulfate · 6H2O,
Cat# FX0245-1, EMD Lot# 45516 46 25,
CAS# 7783-85-9. Store @ R.T. Expires 3/19/10

Received from Fishers
(F) · (1) x 100mL Chromium Reference Std Soln, 1000ppm.
Cat# SC192-100, Fisher Lot# 067819, CAS# 7732-18-5,
7778-50-9. Store @ R.T. Expires 1/2009
(G) · (1) x 500mL Chromium Reference Std Soln, 1000ppm.
Cat# SC192-500, Fisher Lot# 067819, CAS# 7732-18-5,
7778-50-9. Store @ R.T. Expires 1/2009

3/20/07 (H) Color Reagent – TKN
TC · Same as WC76251B. Exp. 1 month, 4/20/06.

(I) Buffer – TKN
· Same as WC76251C. Exp. 1 month, 4/20/06.

3/20/07 (A) Pos
NM -san

(B) Hypo
-same

3/20/07 (C) TSS
OF O.
W/DI.

3/21/07 (D) 10%
MB Same.

3/22/07 (E) NH_3 B
TC To a
— 50.0g
— 9.0g
— 965g
Stir until

(F) NH_3 C
To a tar
— 3.50g So
— 1000g UPD
Stir until

(G) Sodium
To a tar
— 888g
— 94.2g
— 32.0g
Stir until
Store @

(H) Color Rea
To a stared
75.0g Sodiu
0.50g Sodiu

12/12/07 (A) TPO4 Color Reagent
TR To a tared 500 mL plastic bottle add:
- 347.0g UPDI
- 19.2g conc. instraanalyzed H_2SO_4
- 36.0g Stock APT
- 106.5g NH_3 Molybdate Solution
Mix Well. Degas prior to use. Store @ 4°C.
Exp. 1yr., 12/12/08, or when discolored.

(B) Ascorbic Acid
To a tared 500 mL plastic bottle add:
- 30.0g Ascorbic Acid
- 487.5g UPDI
Degas w/ Helium for 5 minutes then add,
- 0.50g Dodecyl Sodium Sulfate
Store @ 4°C. Exp 1 wk. 12/19/07.

12/12/07 (C) KIO_3 Titrant - Chlorine Demand
NM - same as WC85006D. Prepare fresh each run.

(D) Stock Chlorine Solution - Chlorine Demand
- same as WC85021B. Prepare fresh each run and standardize with use.

12/13/07 (E) NH_3 Carrier/Diluent
NM - same as WC85073E. Prepared solution X3.

(F) Hypochlorite - NH_3
- same as WC85051B. Prepare fresh each run.

Recieved from Environmental Express
(G) (1) x 250mL 1000ppm Hexavalent Chromium,
CAT.NO. HP100012-7, EE lot # 0718018,
CAS #'s 7778-50-9/231-906-6, 7732-18-5,
Store @ RT, Expires 6/12/2009.

✓

1/10/08 TC 1/10/08 (A) DPD Indicator
TC In a 500 mL vol flask, dissolve 0.50g DPD (WC76015F) and 0.100g EDTAC and 4mL 1+3 H_2SO_4 (WC85027B) in uPDI, Bring to vol. Store @ RT in amber glass Exp 1 yR. or when discolored, 1/10/09

1/10/08 (B) Sodium Phenolate - NH3
NM - same as WC85088F. Exp. 1 year, 1/10/09.
1/8/09.

1/11/08 (C) Erwchrome Black-T Indicator (Hardness)
NM - same as WC85075H. Exp. 5/31/08.

1/11/08 (D) ISS Reference
KB 0.2152g Kudin (WC69285G) brought to 1000g w/ DI. Store at 4°C in a plastic bottle.
TV = 215 mg/L exp: 01/11/09

1/11/08 (E) Crop Soils Buffer
~~Hoff~~ TC 1/11/08
In a 500 mL vol. flask dissolve
- 43.545g K_2HPO_4 (WC76227G)
- 34.02g KH_2PO_4 (WC85054G)
in ~400 mL DI. Bring to vol. w/ DI. Store @ 4°C.
Exp. 1 yR. 1/11/09.

(F) Crop Soils Digest Solution
20.0g NaOH pellets (WC85072G) and 30.0g Na_2CO_3 (WC76232D) dissolved in DI. Bring to 1 liter volumetrically w/ DI.
Exp. 1 month, 2/11/08.

1/11/08 (G) 0.0250 $Na_2S_2O_3$ - Sulfides
TC Dilute 50 mLs 1.0N $Na_2S_2O_3$ (WC85067D) → 200 mLs volumetrically w/ DI. Store for 2 weeks @ 4°C. Exp. 1/25/08.

1/11/08 Received from Alpha Resources
KB (H) (1) x 100g Lead I Chromate, Cat # 14125, AA Lot # J03Q063, CAS # 7758-97-6. Store @ R.T. Expires 1/11/11 ✓

Run #: 163363
Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM
Printed: 07/09/08 12:05

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	5.00	U	100.0	0.05			07/02/2008		ASPB
CHK5		1115687	WATER	3.50		1.0	0.05	97.3		07/02/2008		
BLK4		1115689	WATER	0.0500	U	1.0	0.05			07/02/2008		
SPKB		1115690	WATER	0.976		1.0	0.05	97.6		07/02/2008		
ESMP	R2844803	1114420	WATER	5.00	U	100.0	0.05			07/02/2008		ASPB
ESMP	R2844803	1114421	WATER	5.00	U	100.0	0.05			07/02/2008	QC	ASPB
LDUP		1115693	WATER	5.00	U	100.0	0.05			07/02/2008		
SPK1		1115694	WATER	92.9		100.0	0.05	92.9		07/02/2008		

Records printed: 8

Run #: 163362

Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM

Printed: 07/09/08 12:07

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	27.1		40.0	0.0500			07/02/2008		ASPB
CHK5		1115699	WATER	3.65		1.0	0.0500	101.5		07/02/2008		
BLK4		1115700	WATER	0.0500	U	1.0	0.0500			07/02/2008		
SPKB		1115701	WATER	0.939		1.0	0.0500	93.9		07/02/2008		
ESMP	R2844803	1114420	WATER	27.5		40.0	0.0500			07/02/2008		ASPB
ESMP	R2844803	1114421	WATER	47.6		40.0	0.0500			07/02/2008	QC	ASPB
LDUP		1115703	WATER	47.9		40.0	0.0500		0.66	07/02/2008		
SPK1		1115704	WATER	86.6		40.0	0.0500	97.6		07/02/2008		

Records printed: 8

07-02-08 Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.s	CCV	1	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	2	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	3	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1114419	4	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114420	5	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421	6	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 DUP	7	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 SPK	8	1.0	10.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114419	9	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114420	10	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421	11	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 DUP	12	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 SPK	13	1.0	40.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114419	14	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114420	15	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421	16	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 DUP	17	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1114421 SPK	18	1.0	100.0	1.0	100.0	0	1	1	CBNNS	
Columbia-no dilution.s	1113696	19	1.0	400.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	CCV	20	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	21	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1113698	22	1.0	400.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1113699	23	1.0	400.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	METHOD BLANK	24	1.0	1.0	1.0	100.0	0	1	1	EXTRACTED - CBNNS	
Columbia-no dilution.s	1113250	25	1.0	2.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113250 DUP	26	1.0	2.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113250 SPK	27	1.0	2.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113254	28	1.0	10.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113255	29	1.0	10.0	1.0	100.0	0	1	1	EXTRACTED - CS	
Columbia-no dilution.s	1113256	30	1.0	2.0	1.0	100.0	0	1	1	EXTRACTED - C	
Columbia-no dilution.s	1113257	31	1.0	10.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113258	32	1.0	4.0	1.0	100.0	0	1	1	EXTRACTED - NO3 TO CONFIRM PREVIOU	
Columbia-no dilution.s	1113258	33	1.0	4000.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1113259	34	1.0	10.0	1.0	100.0	0	1	1	EXTRACTED - CS	
Columbia-no dilution.s	CCV	35	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	36	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	37	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1113262	38	1.0	10.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	METHOD BLANK	39	1.0	1.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1112363	40	1.0	100.0	1.0	100.0	0	1	1	EXTRACTED - S	
Columbia-no dilution.s	1112365	41	1.0	40.0	1.0	100.0	0	1	1	EXTRACTED - CS	
Columbia-no dilution.s	1111897	42	1.0	1.0	1.0	100.0	0	1	1	F	
Columbia-no dilution.s	1111897	43	1.0	20.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111898	44	1.0	20.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111899	45	1.0	20.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111983	46	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111983 DUP	47	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111983 SPK	48	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111984	49	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111985	50	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	CCV	51	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	52	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1112871	53	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1112872	54	1.0	100.0	1.0	100.0	0	1	1	CS	

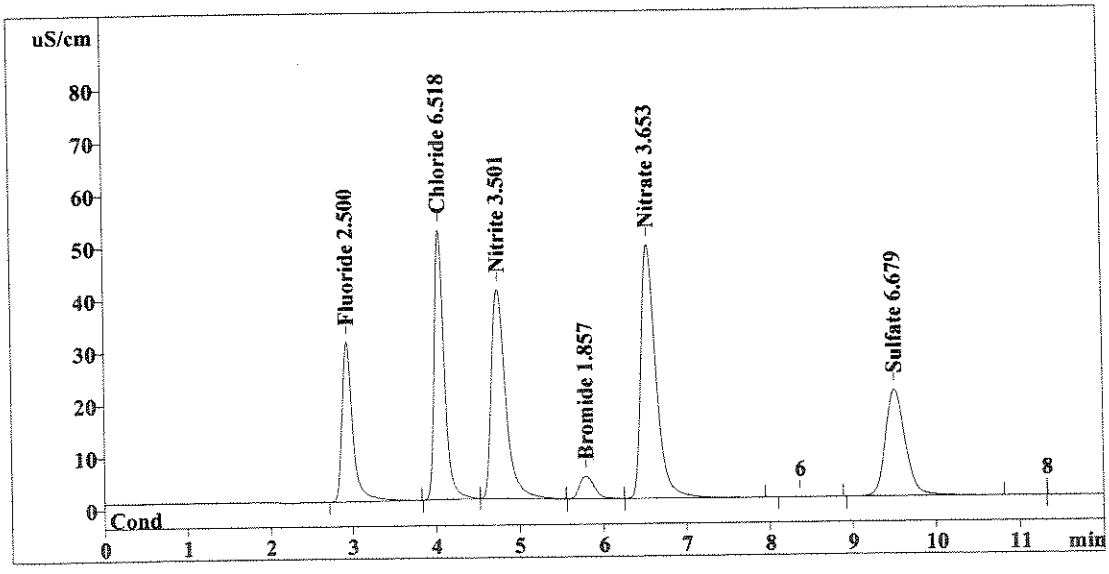
Analyst: C Woods
Pipets: Mine
Lvey

623115

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.S	*1112874*	55	1.0	100.0	1.0	100.0	0	1	1	*CS*	
Columbia-no dilution.S	*1112874 DUP*	56	1.0	100.0	1.0	100.0	0	1	1	*CS*	
Columbia-no dilution.S	*1112874 SPK*	57	1.0	100.0	1.0	100.0	0	1	1	*CS*	
Columbia-no dilution.S	*CCV*	58	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.S	*CCB*	59	1.0	1.0	1.0	100.0	0	1	1		

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 15:47:53	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/2/2008 15:35:55	
File:	S7021535.CHW	Last save: 7/2/2008 15:47:53
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37760	
SAMPLE:		
Vial number:	1	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.93	277.728	CVT HIGH	2.500	Fluoride
2	4.05	424.802	OK	6.518	Chloride
3	4.75	476.387		3.501	Nitrite
4	5.79	51.831		1.857	Bromide
5	6.55	604.861		3.653	Nitrate
6	9.52	332.320		6.679	Sulfate
6	12.00	2167.928		24.708	

CW 7/3/08

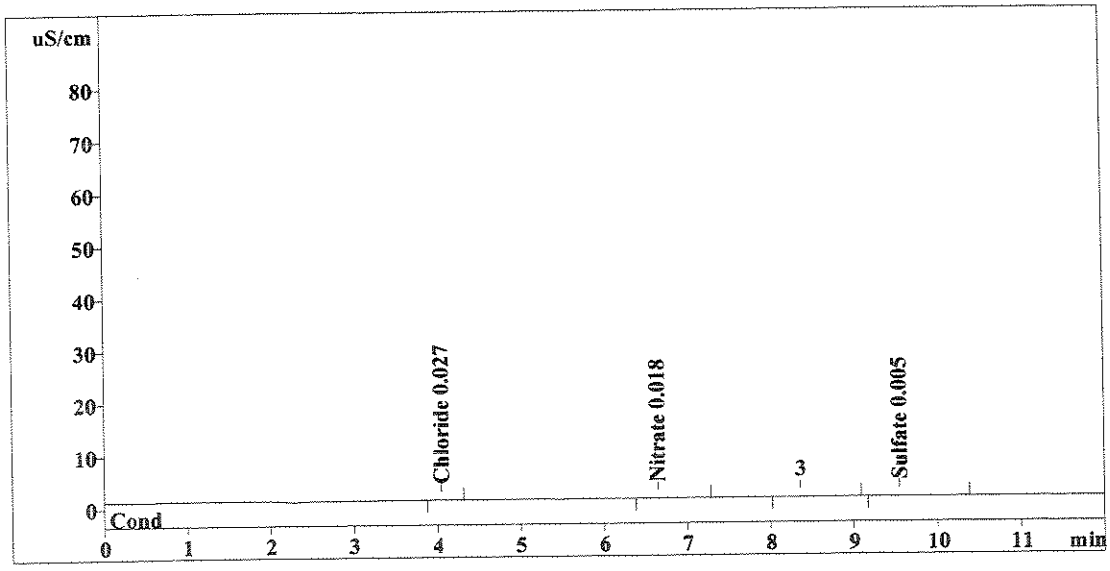
This report has been created by IC Net
METROHM LTD

Use no F.

CW 7/3/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 16:01:59	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/2/2008 15:50:01	
File:	S7021550.CHW	Last save: 7/2/2008 16:01:59
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37761	
SAMPLE:		
Vial number:	2	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000	OK	0.000	Fluoride
2	4.05	0.268		0.027	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.65	0.216		0.018	Nitrate
6	9.55	1.321		0.005	Sulfate
6	12.00	1.804		0.050	

7/3/08

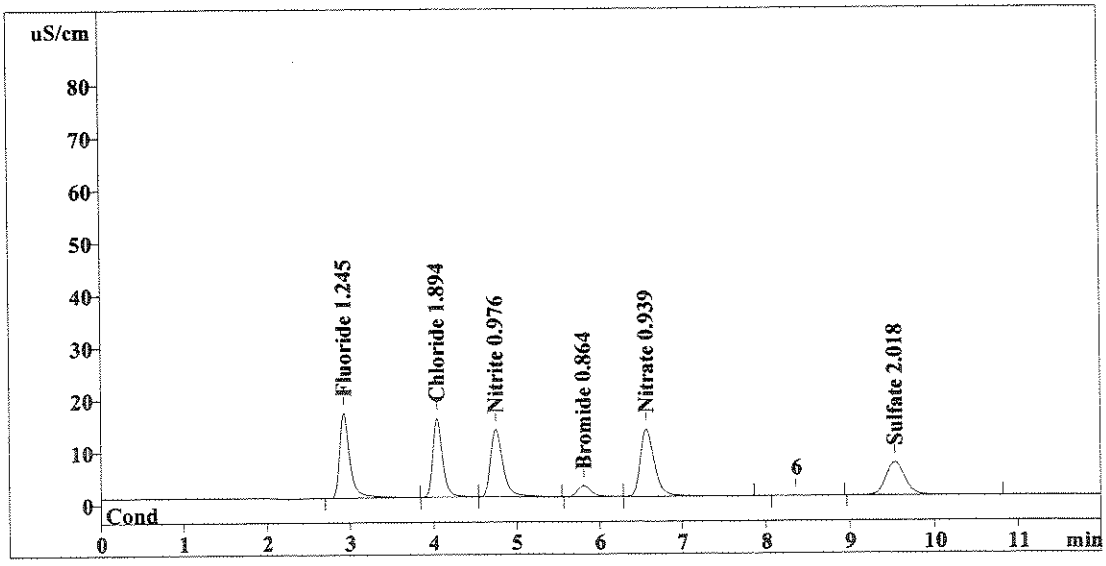
This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date: 7/2/2008 16:16:26
Printed by: User
Ident: LCS
Analysis from: 7/2/2008 16:04:28
File: S7021604.CHW — Last save: 7/2/2008 16:16:26

Method: 06-10-08CAL.mtw — Last save: 7/2/2008 11:30:57
Run operator: User
Analysis number: 37762
SAMPLE:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

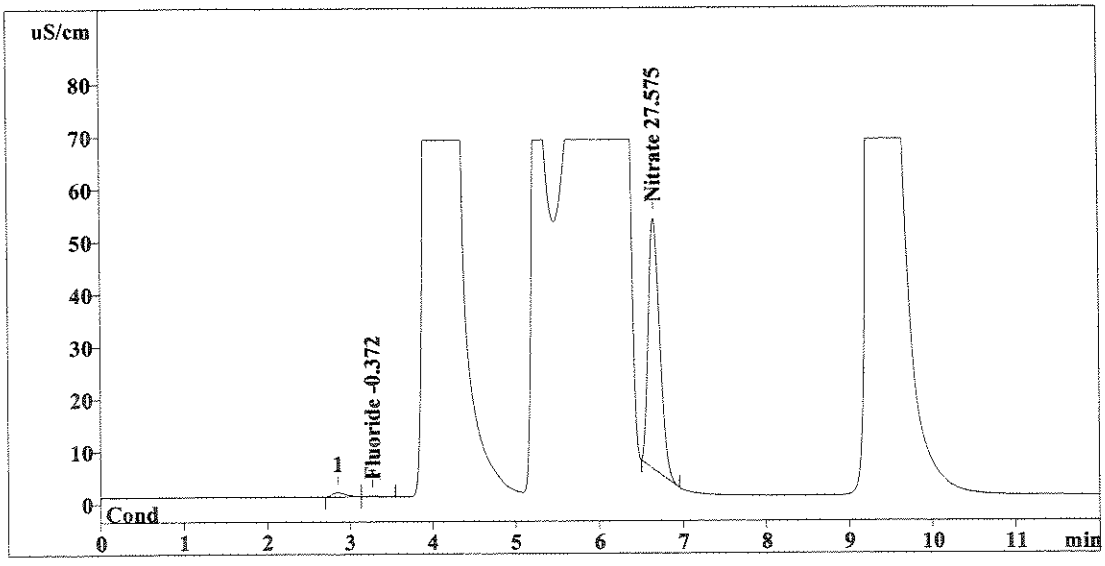
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.93	141.031	OUT HIGH	1.245	Fluoride
2	4.05	122.381	OK	1.894	Chloride
3	4.75	133.392	↓	0.976	Nitrite
4	5.81	23.749	OUT LOW	0.864	Bromide
5	6.57	153.525	OK	0.939	Nitrate
6	9.53	101.168	↓	2.018	Sulfate
6	12.00	675.247		7.937	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 16:30:32	
Printed by:	User	
Ident:	1114419	
Analysis from:	7/2/2008 16:18:34	
File:	S7021618.CHW	Last save: 7/2/2008 16:30:32
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37763	
SAMPLE:	CBNNS	
Vial number:	4	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.28	1.411	-0.372	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.65	455.914	27.575	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	457.325	27.948	

MP + R 1/40
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

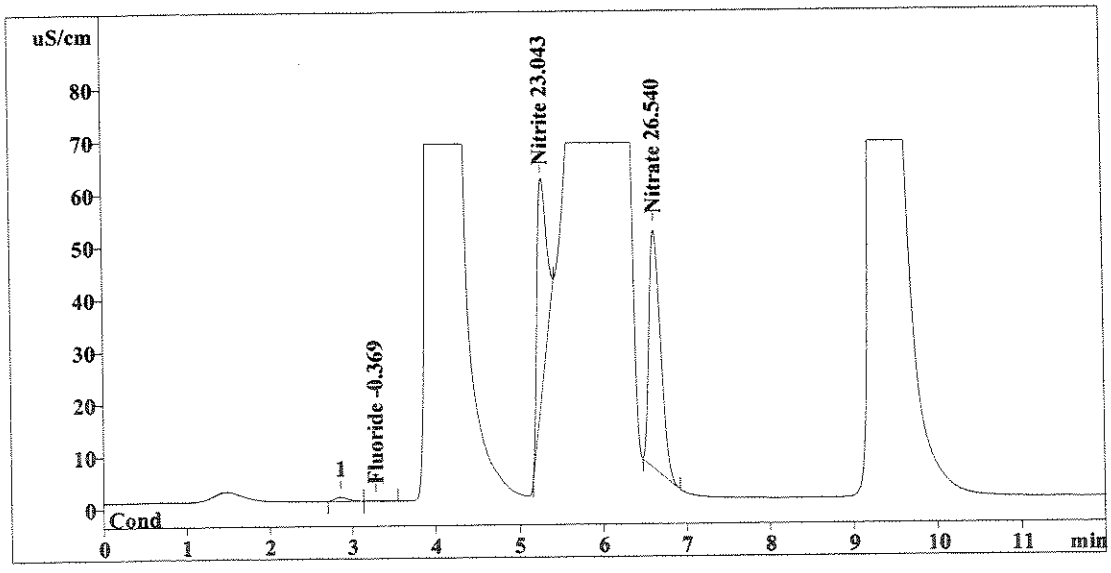
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 16:44:38
Printed by:	User
Ident:	1114420
Analysis from:	7/2/2008 16:32:40
File:	S7021632.CHW

Last save: 7/2/2008 16:44:38

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37764
SAMPLE:	CBNNS
Vial number:	5
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



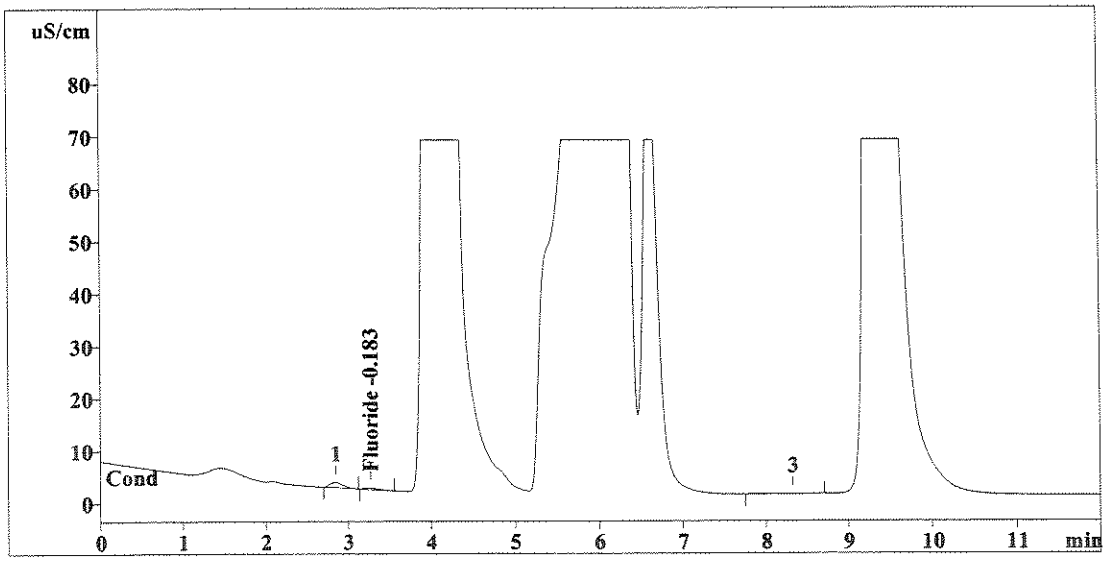
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.28	1.448	-0.369	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.27	313.814	23.043	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.63	438.693	26.540	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	753.955	49.952	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 16:58:44	
Printed by:	User	
Ident:	1114421	
Analysis from:	7/2/2008 16:46:46	
File:	S7021646.CHW	Last save: 7/2/2008 16:58:44
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37765	
SAMPLE:	CBNNS	
Vial number:	6	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.27	3.474	-0.183	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	3.474	0.183	

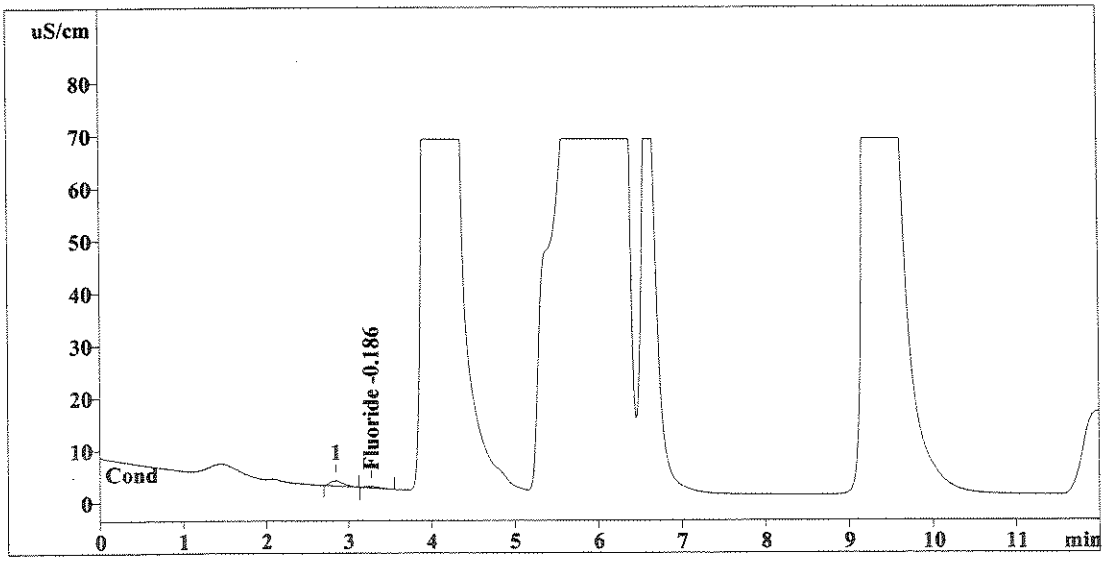
7/1/08
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 17:12:50	
Printed by:	User	
Ident:	1114421 DUP	
Analysis from:	7/2/2008 17:00:52	
File:	S7021700.CHW	Last save: 7/2/2008 17:12:50
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37766	
SAMPLE:	CBNNS	
Vial number:	7	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

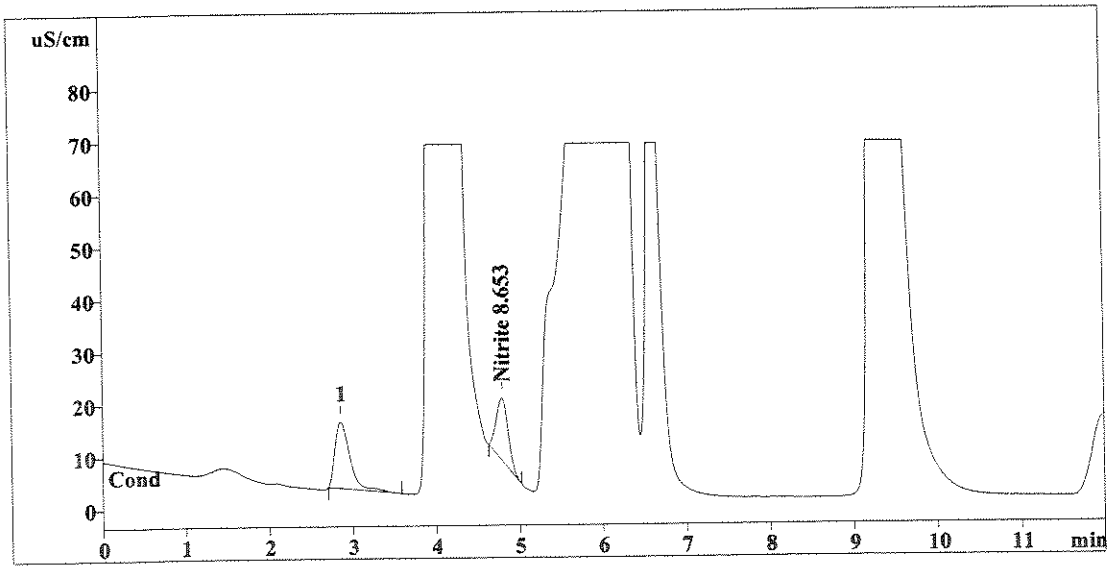
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.27	3.444	-0.186	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	3.444	0.186	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 17:26:55	
Printed by:	User	
Ident:	1114421 SPK	
Analysis from:	7/2/2008 17:14:58	
File:	S7021714.CHW	Last save: 7/2/2008 17:26:56
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37767	
SAMPLE:	CBNNS	
Vial number:	8	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.79	118.299	8.653	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	118.299	8.653	

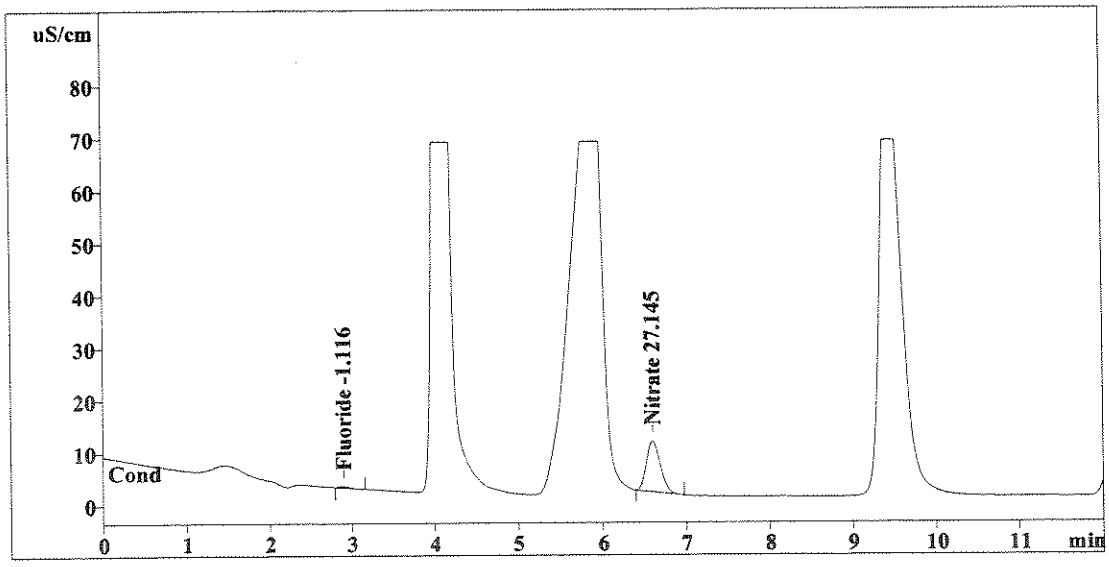
mpt 1/40

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 17:41:02	
Printed by:	User	
Ident:	1114419	
Analysis from:	7/2/2008 17:29:04	
File:	S7021729.CHW	Last save: 7/2/2008 17:41:02
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37768	
SAMPLE:	CBNNS	
Vial number:	9	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	



Quantitation method: Custom

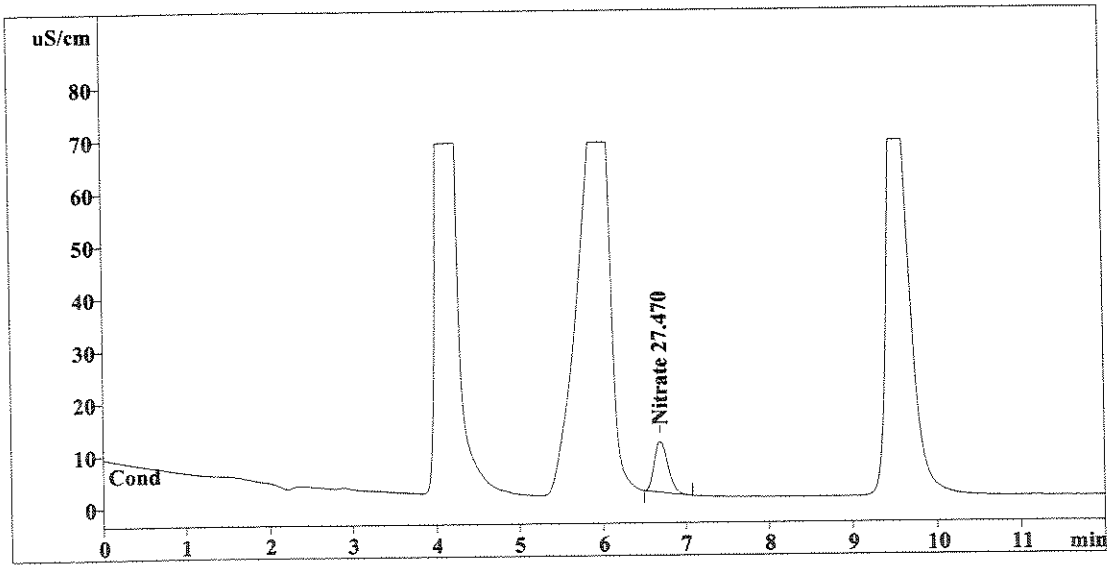
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	2.429		-1.116	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.60	110.143	OK	27.145	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	112.571		28.261	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 17:55:07	
Printed by:	User	
Ident:	1114420	
Analysis from:	7/2/2008 17:43:09	
File:	S7021743.CHW	Last save: 7/2/2008 17:55:07
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37769	
SAMPLE:	CBNNS	
Vial number:	10	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.70	111.492	OK	27.470	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	111.492		27.470	

6/30/08

This report has been created by IC Net
METROHM LTD

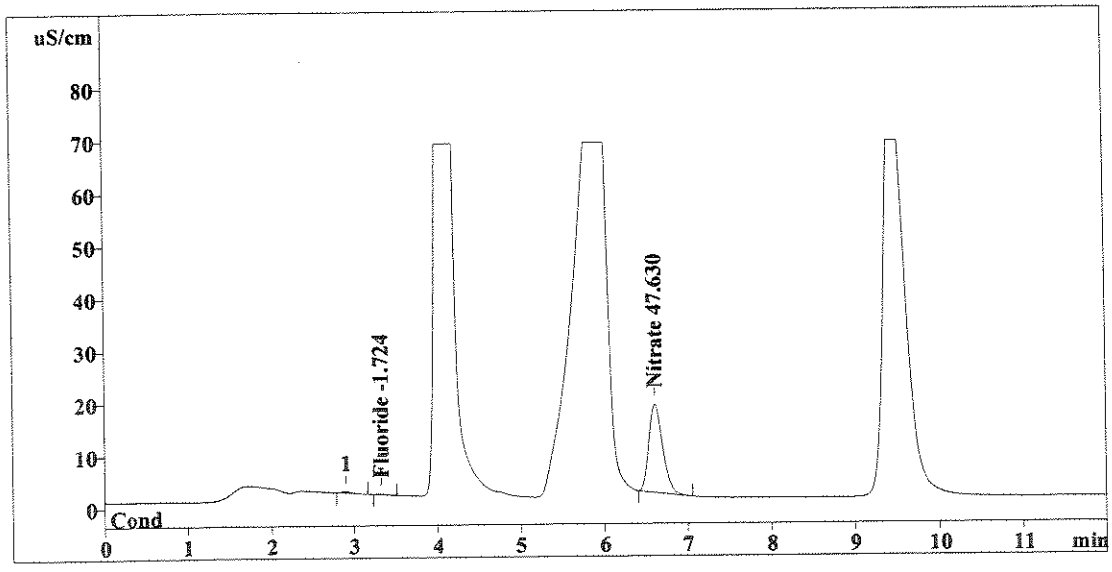
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 18:09:14
Printed by:	User
Ident:	1114421
Analysis from:	7/2/2008 17:57:16
File:	S7021757.CHW

Last save: 7/2/2008 18:09:14

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37770
SAMPLE:	CBNNS
Vial number:	11
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

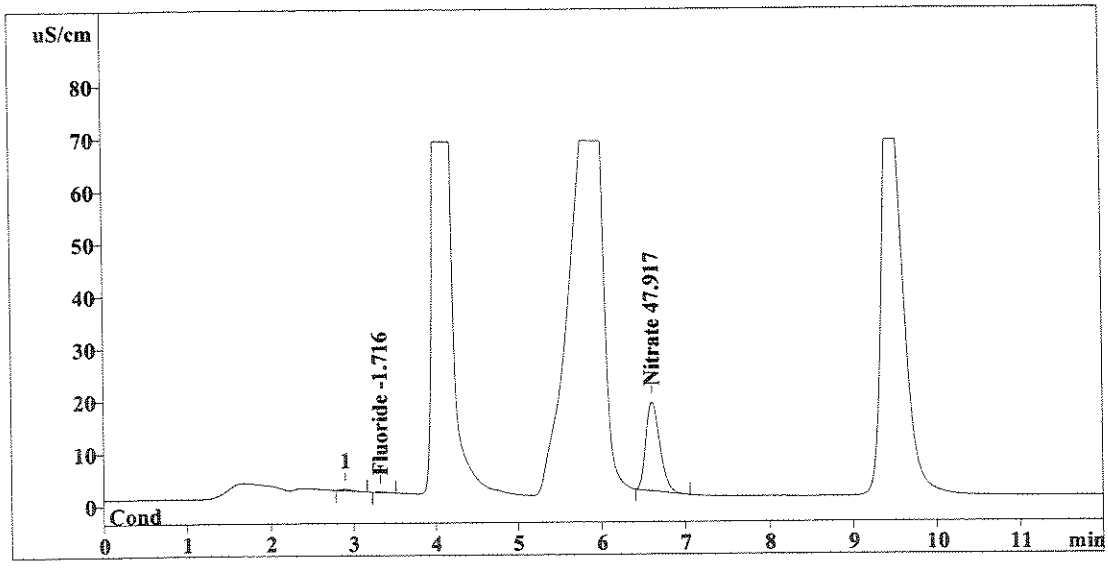
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.32	0.774		-1.724	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.61	195.322	OK	47.630	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	196.096		49.354	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 18:23:20	
Printed by:	User	
Ident:	1114421 DUP	
Analysis from:	7/2/2008 18:11:22	
File:	S7021811.CHW	Last save: 7/2/2008 18:23:20
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37771	
SAMPLE:	CBNNS	
Vial number:	12	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.32	0.794		-1.716	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.61	196.514	OK	47.917	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	197.308		49.633	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

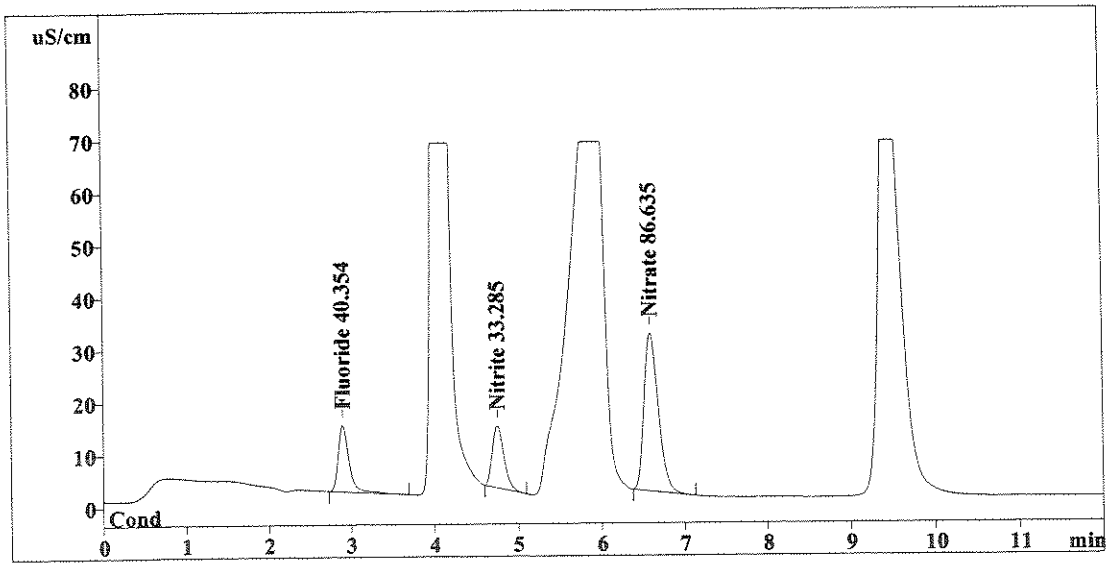
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 18:37:26
Printed by:	User
Ident:	1114421 SPK
Analysis from:	7/2/2008 18:25:28
File:	S7021825.CHW

Last save: 7/2/2008 18:37:26

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37772
SAMPLE:	CBNNS
Vial number:	13
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	115.314		40.354	Fluoride
2	0.00	0.000		0.000	Chloride
3	4.75	113.787		33.285	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.59	357.508	OK	86.635	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	586.608		160.274	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

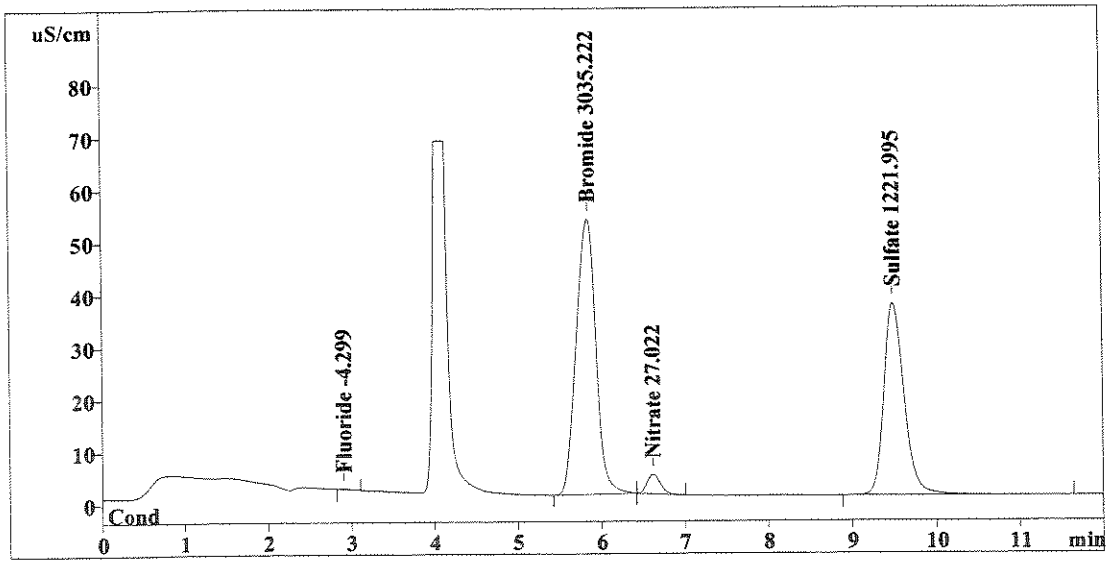
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 18:51:32
Printed by:	User
Ident:	1114419
Analysis from:	7/2/2008 18:39:34
File:	S7021839.CHW

Last save: 7/2/2008 18:51:32

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37773
SAMPLE:	CBNNS
Vial number:	14
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

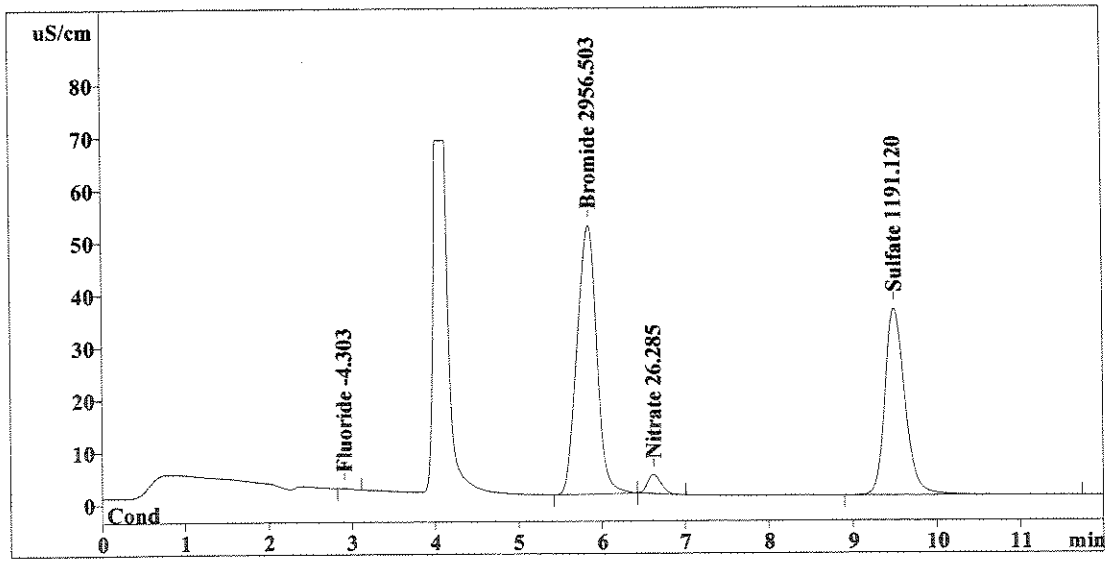
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.784	1/1000	-4.299	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	857.439	1/1000	3035.222	Bromide
5	6.62	42.215		27.022	Nitrate
6	9.50	607.171	1/1000	1221.995	Sulfate
6	12.00	1507.609		4288.538	

7/2/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 19:05:38	
Printed by:	User	
Ident:	1114420	
Analysis from:	7/2/2008 18:53:40	
File:	S7021853.CHW	Last save: 7/2/2008 19:05:38
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37774	
SAMPLE:	CBNNS	
Vial number:	15	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.781	1/1000	-4.303	Fluoride
2	0.00	0.000	OK	0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	835.183	1/1000	2956.503	Bromide
5	6.62	40.989		26.285	Nitrate
6	9.50	591.857	1/1000	1191.120	Sulfate
6	12.00	1468.810		4178.210	

This report has been created by IC Net
METROHM LTD

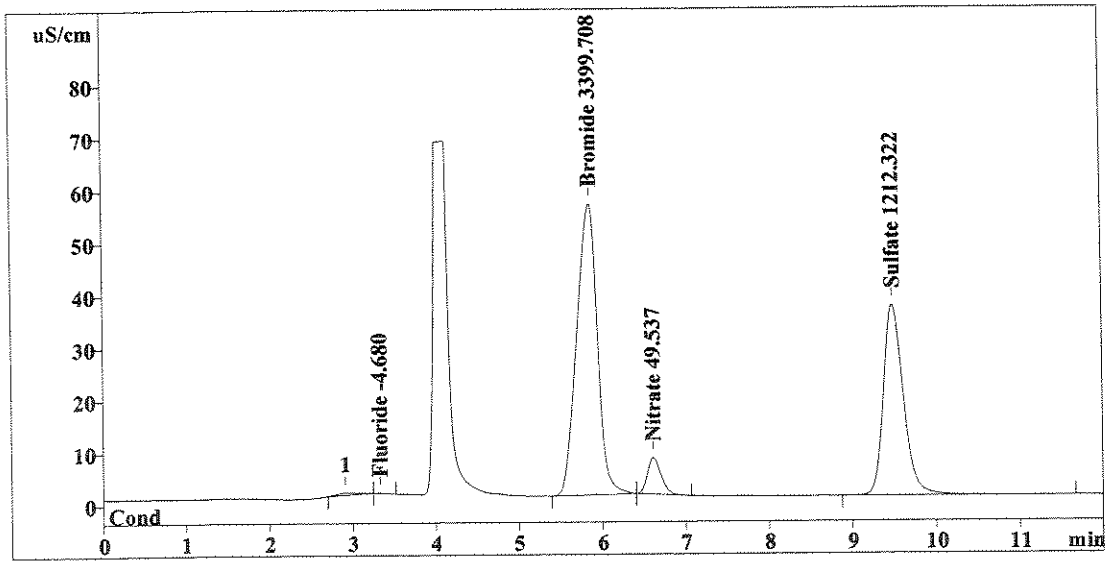
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 19:19:43
Printed by:	User
Ident:	1114421
Analysis from:	7/2/2008 19:07:45
File:	S7021907.CHW

Last save: 7/2/2008 19:19:43

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37775
SAMPLE:	CBNNS
Vial number:	16
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

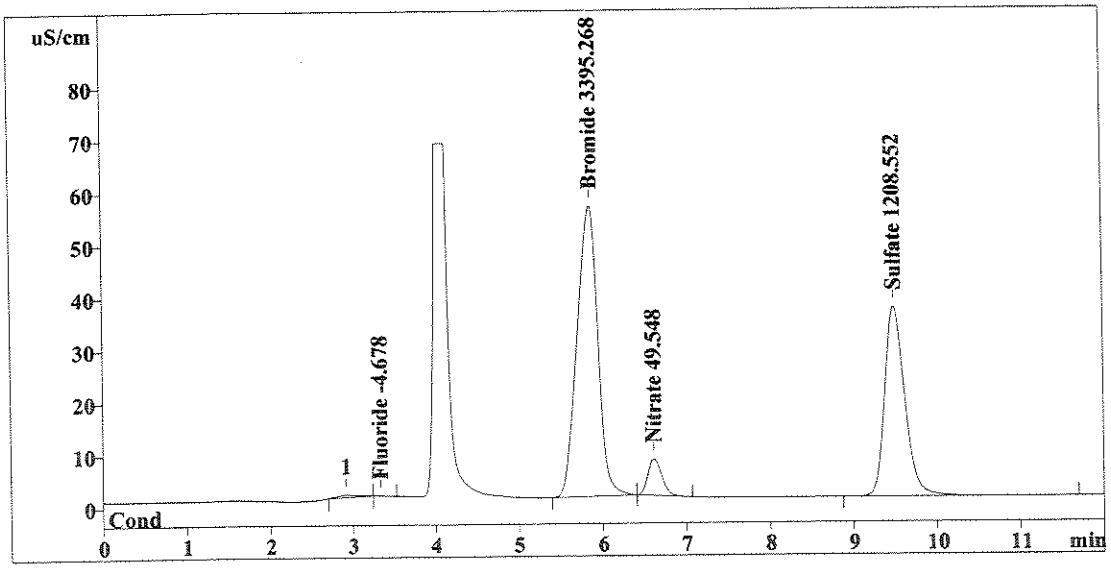
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.370	1/1000	-4.680	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000	OK	0.000	Nitrite
4	5.86	960.486	1/1000	3399.708	Bromide
5	6.61	79.663		49.537	Nitrate
6	9.49	602.373	1/1000	1212.322	Sulfate
6	12.00	1642.892	7/3/08	4666.246	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 19:33:49	
Printed by:	User	
Ident:	1114421 DUP	
Analysis from:	7/2/2008 19:21:52	
File:	S7021921.CHW	Last save: 7/2/2008 19:33:50
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37776	
SAMPLE:	CBNNS	
Vial number:	17	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.372		-4.678	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000	ok	0.000	Nitrite
4	5.86	959.231		3395.268	Bromide
5	6.61	79.681		49.548	Nitrate
6	9.49	600.503		1208.552	Sulfate
6	12.00	1639.787		4658.046	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

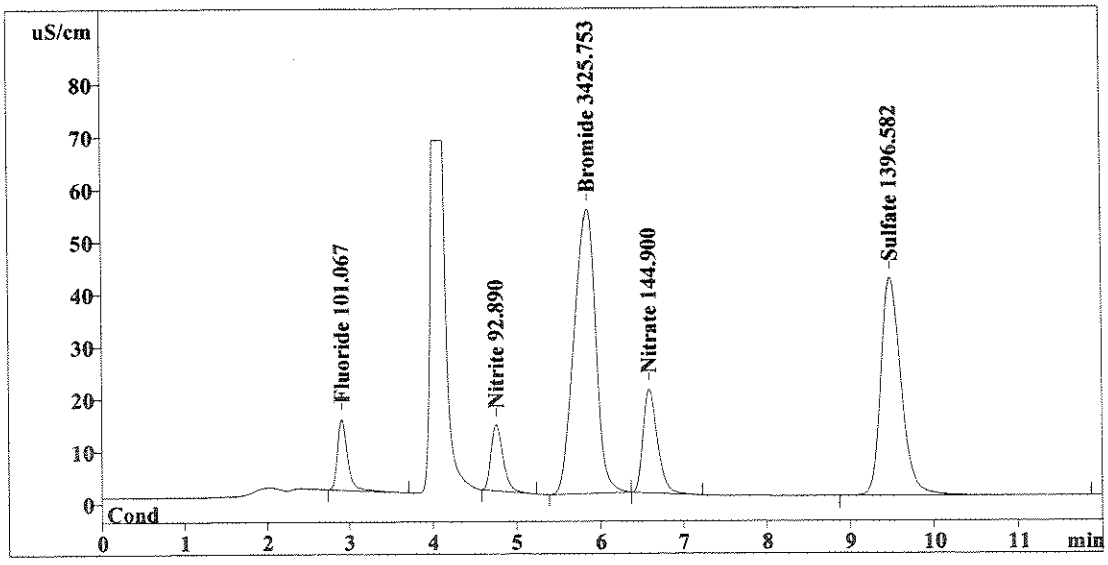
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 19:47:56
Printed by:	User
Ident:	1114421 SPK
Analysis from:	7/2/2008 19:35:58
File:	S7021935.CHW

Last save: 7/2/2008 19:47:56

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37777
SAMPLE:	CBNNS
Vial number:	18
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

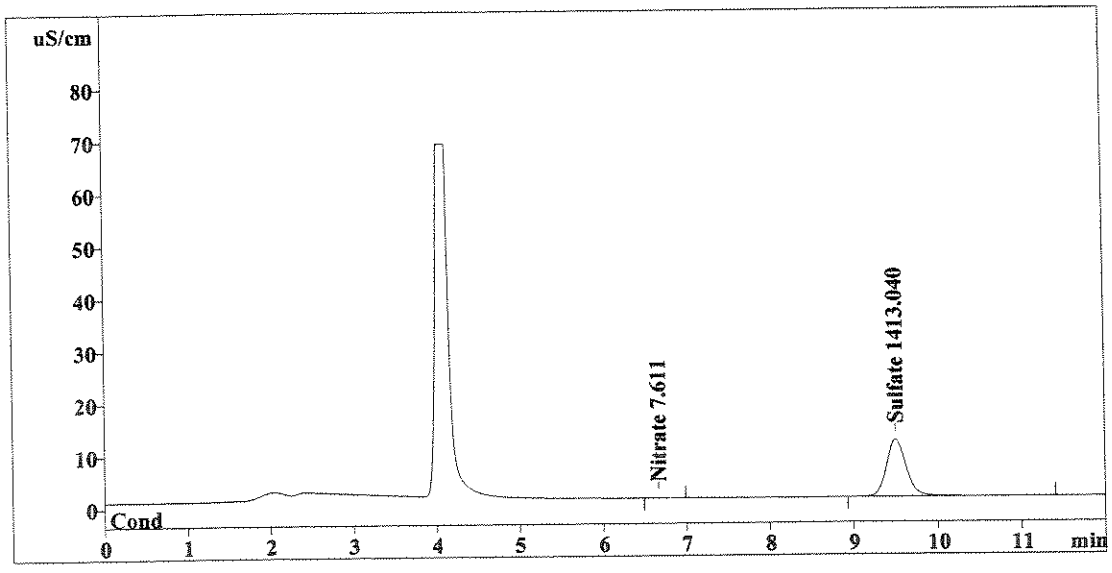
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	115.512		101.067	Fluoride
2	0.00	0.000		0.000	Chloride
3	4.76	126.935	OK	92.890	Nitrite
4	5.86	967.849		3425.753	Bromide
5	6.59	238.274		144.900	Nitrate
6	9.49	693.765		1396.582	Sulfate
6	12.00	2142.336		5161.192	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 20:02:01	
Printed by:	User	
Ident:	1113696	
Analysis from:	7/2/2008 19:50:03	
File:	S7021950.CHW	Last save: 7/2/2008 20:02:01
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37778	
SAMPLE:	CS	
Vial number:	19	
Volume:	1.0 µL	
Dilution:	400.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	0.00	0.000	1/1000	0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.67	0.435		7.611	Nitrate
6	9.50	176.284	OK	1413.040	Sulfate
6	12.00	176.720		1420.651	

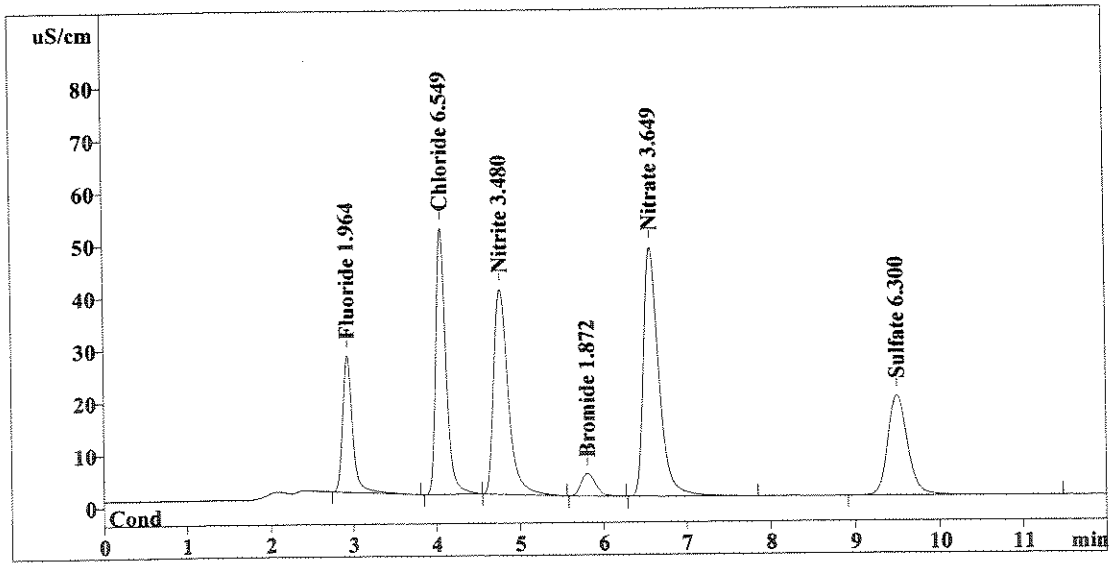
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 20:16:08	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/2/2008 20:04:09	
File:	S7022004.CHW	Last save: 7/2/2008 20:16:08
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37779	
SAMPLE:		
Vial number:	20	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	219.326	1.964	Fluoride
2	4.06	426.847	6.549	Chloride
3	4.76	473.498	3.480	Nitrite
4	5.81	52.238	1.872	Bromide
5	6.57	604.134	3.649	Nitrate
6	9.50	313.547	6.300	Sulfate
6	12.00	2089.590	23.813	

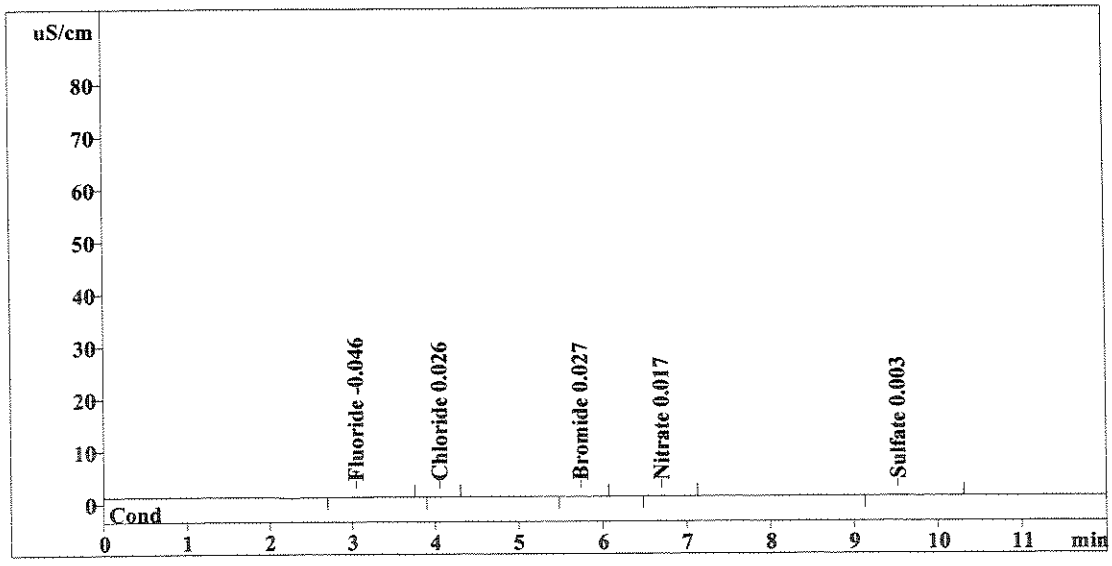
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 20:30:13	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/2/2008 20:18:15	
File:	S7022018.CHW	Last save: 7/2/2008 20:30:13
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37780	
SAMPLE:		
Vial number:	21	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.04	0.444	-0.046	Fluoride
2	4.05	0.194	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.72	0.083	0.027	Bromide
5	6.70	0.098	0.017	Nitrate
6	9.53	1.201	0.003	Sulfate
6	12.00	2.019	0.119	

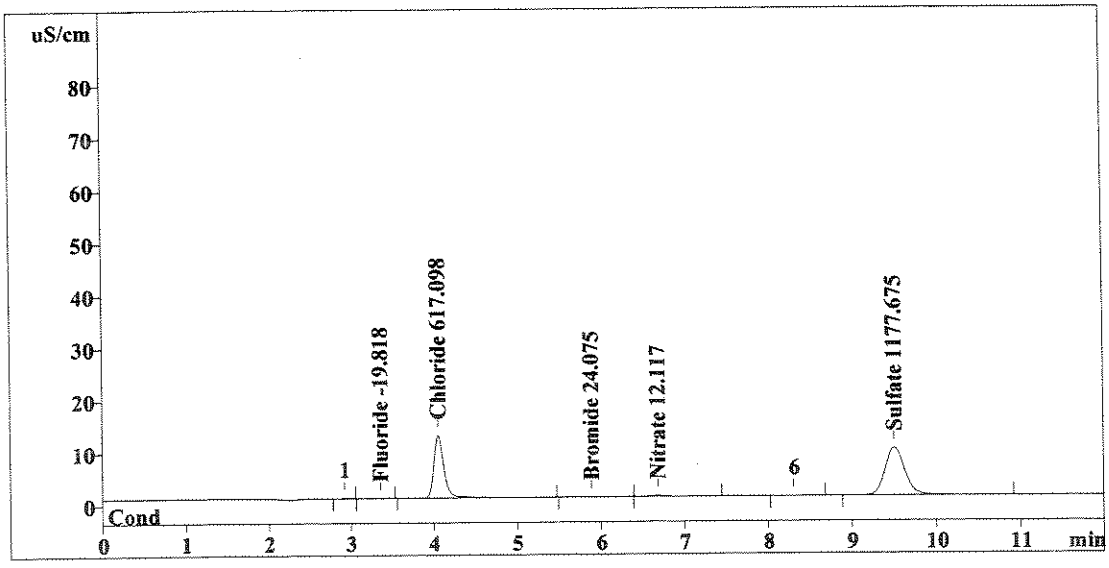
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 20:44:19	
Printed by:	User	
Ident:	1113698	
Analysis from:	7/2/2008 20:32:21	
File:	S7022032.CHW	Last save: 7/2/2008 20:44:19
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37781	
SAMPLE:	S	
Vial number:	22	
Volume:	1.0 µL	
Dilution:	400.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.071		-19.818	Fluoride
2	4.05	99.389		617.098	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	1.023		24.075	Bromide
5	6.68	2.309		12.117	Nitrate
6	9.50	147.099	ok	1177.675	Sulfate
6	12.00	249.892		1850.783	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

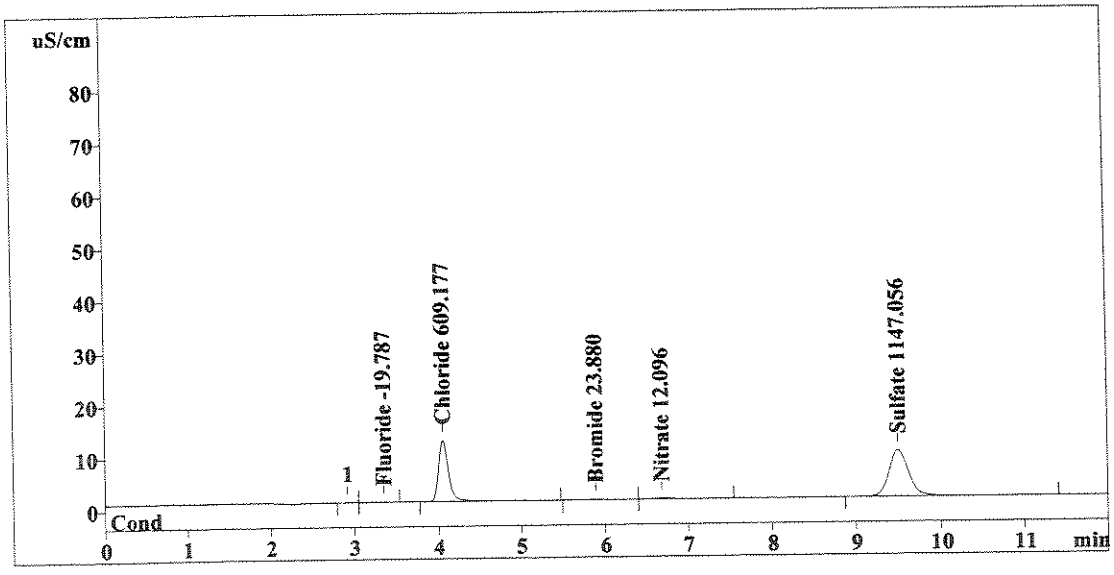
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 20:58:25
Printed by:	User
Ident:	1113699
Analysis from:	7/2/2008 20:46:27
File:	S7022046.CHW

Last save: 7/2/2008 20:58:25

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37782
SAMPLE:	S
Vial number:	23
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.079		-19.787	Fluoride
2	4.06	98.094		609.177	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	1.010		23.880	Bromide
5	6.69	2.301		12.096	Nitrate
6	9.50	143.303	OK	1147.056	Sulfate
6	12.00	244.786		1811.997	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

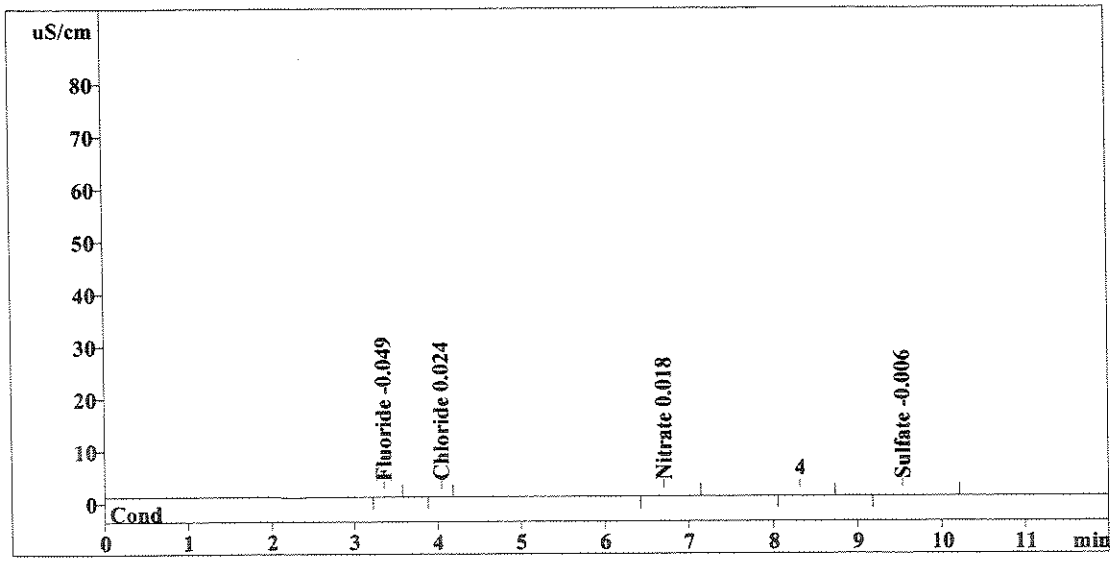
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 21:12:31
Printed by:	User
Ident:	METHOD BLANK
Analysis from:	7/2/2008 21:00:33
File:	S7022100.CHW

Last save: 7/2/2008 21:12:31

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37783
SAMPLE:	EXTRACTED - CBNNS
Vial number:	24
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

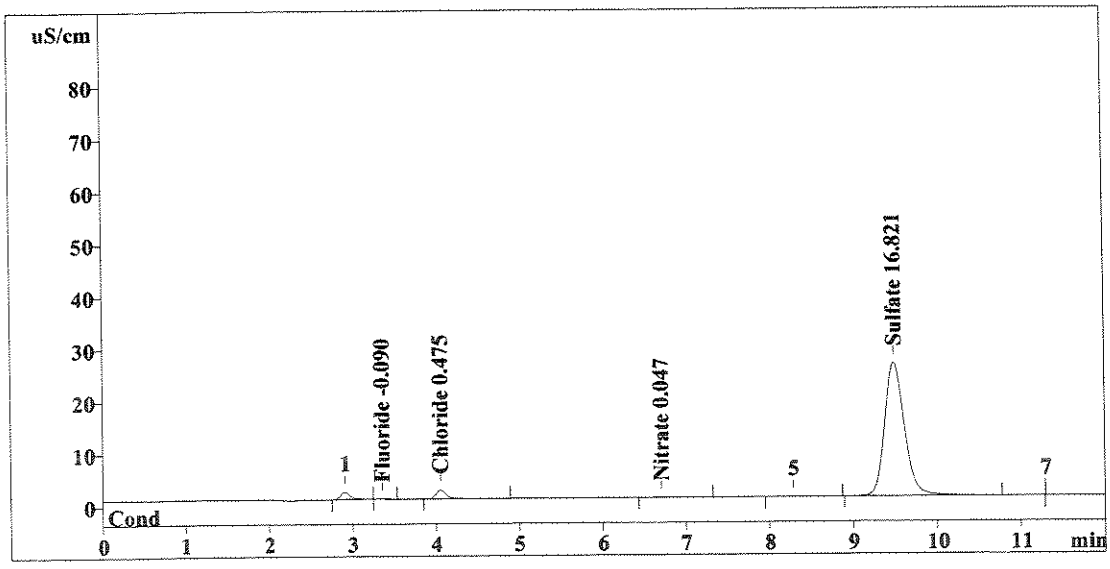
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.115	-0.049	Fluoride
2	4.05	0.059	0.024	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.70	0.300	0.018	Nitrate
6	9.54	0.764	-0.006	Sulfate
6	12.00	1.238	0.098	

OK

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 21:26:37	
Printed by:	User	
Ident:	1113250	
Analysis from:	7/2/2008 21:14:39	
File:	S7022114.CHW	Last save: 7/2/2008 21:26:37
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37784	
SAMPLE:	EXTRACTED - S	
Vial number:	25	
Volume:	1.0 µL	
Dilution:	2.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.577		-0.090	Fluoride
2	4.05	14.008		0.475	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.71	1.179		0.047	Nitrate
6	9.49	418.224		16.821	Sulfate
6	12.00	433.988		17.433	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

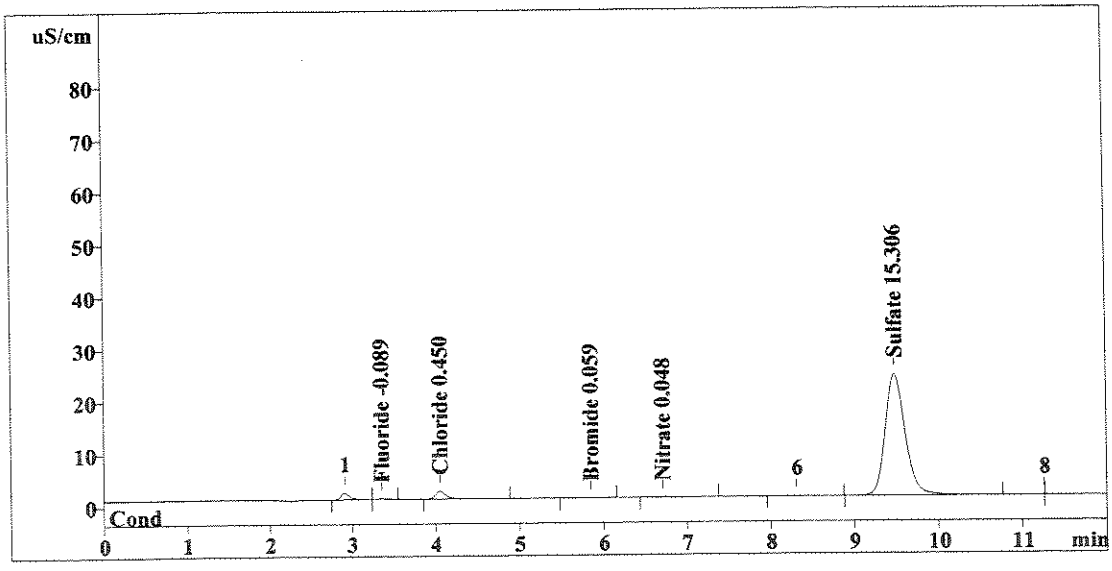
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 21:40:43
Printed by:	User
Ident:	1113250 DUP
Analysis from:	7/2/2008 21:28:45
File:	S7022128.CHW

Last save: 7/2/2008 21:40:43

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37785
SAMPLE:	EXTRACTED - S
Vial number:	26
Volume:	1.0 µL
Dilution:	2.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



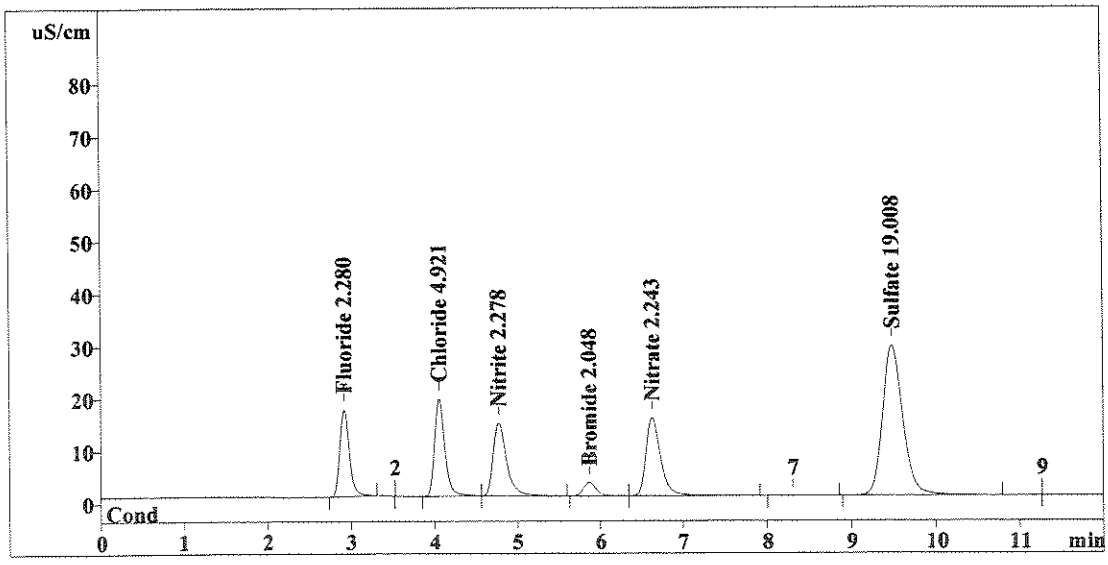
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.614		-0.089	Fluoride
2	4.06	13.199		0.450	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.86	0.149		0.059	Bromide
5	6.71	1.289		0.048	Nitrate
6	9.49	380.660	SK	15.306	Sulfate
6	12.00	395.911		15.952	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 21:54:49	
Printed by:	User	
Ident:	1113250 SPK	
Analysis from:	7/2/2008 21:42:51	
File:	S7022142.CHW	Last save: 7/2/2008 21:54:49
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37786	
SAMPLE:	EXTRACTED - S	
Vial number:	27	
Volume:	1.0 µL	
Dilution:	2.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	129.577		2.280	Fluoride
2	4.05	159.424		4.921	Chloride
3	4.77	155.506		2.278	Nitrite
4	5.87	28.277		2.048	Bromide
5	6.63	183.825		2.243	Nitrate
6	9.48	472.451	DK	19.008	Sulfate
6	12.00	1129.059	7/3/08	32.778	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

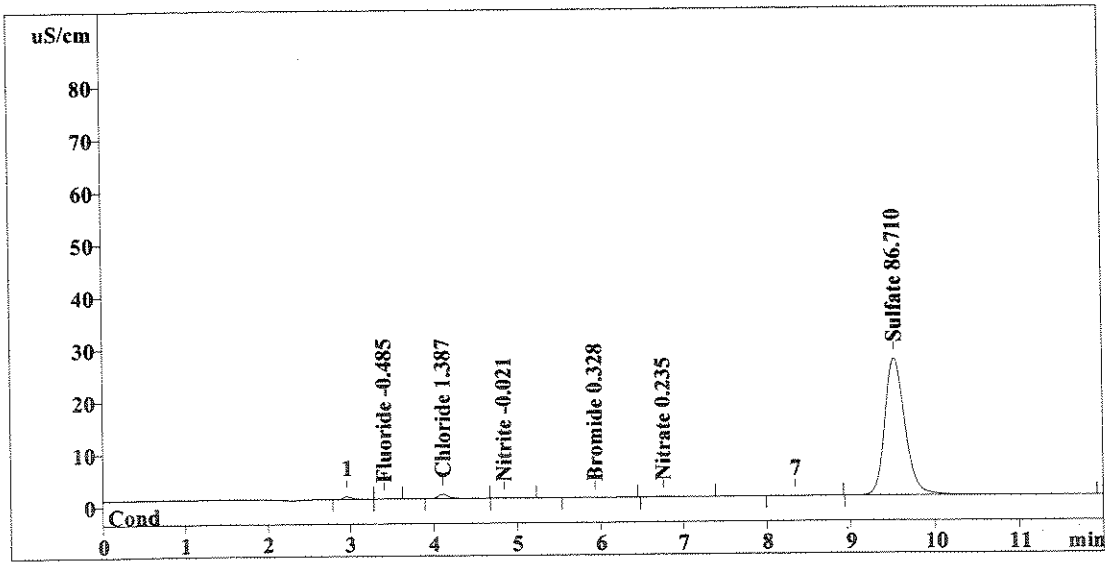
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 22:08:55
Printed by:	User
Ident:	1113254
Analysis from:	7/2/2008 21:56:57
File:	S7022156.CHW

Last save: 7/2/2008 22:08:55

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37787
SAMPLE:	EXTRACTED - S
Vial number:	28
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

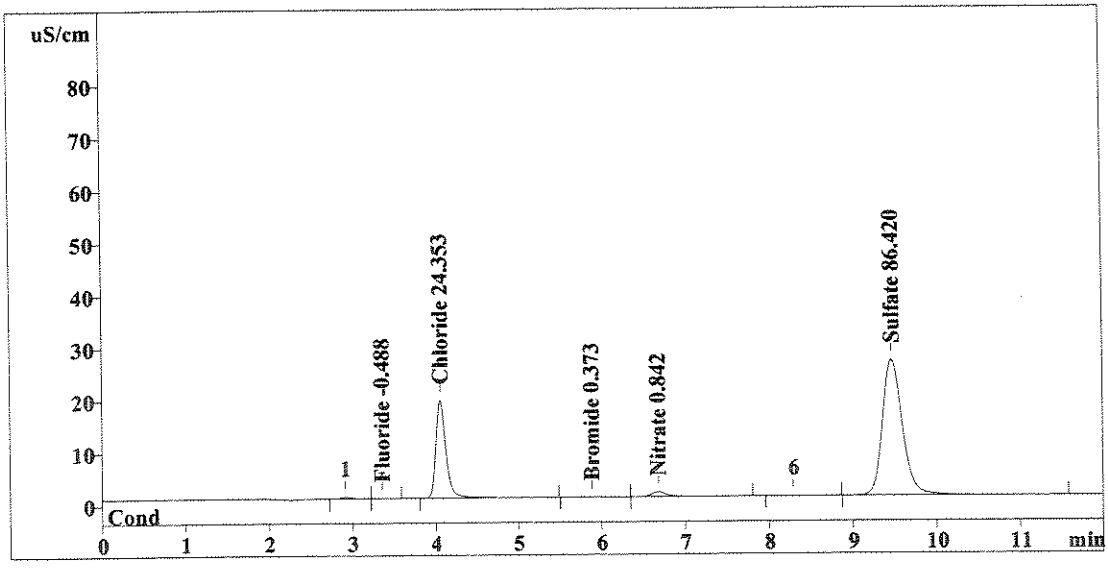
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.41	0.181		-0.485	Fluoride
2	4.11	7.554		1.387	Chloride
3	4.84	0.436		-0.021	Nitrite
4	5.93	0.249		0.328	Bromide
5	6.76	1.176		0.235	Nitrate
6	9.52	431.148	OK	86.710	Sulfate
6	12.00	440.743		89.167	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 22:23:01	
Printed by:	User	
Ident:	1113255	
Analysis from:	7/2/2008 22:11:02	
File:	S7022211.CHW	Last save: 7/2/2008 22:23:01
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37788	
SAMPLE:	EXTRACTED - CS	
Vial number:	29	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.152		-0.488	Fluoride
2	4.06	157.768	OK	24.353	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	0.375		0.373	Bromide
5	6.68	11.276		0.842	Nitrate
6	9.47	429.708	OK	86.420	Sulfate
6	12.00	599.280		112.476	

7/2/08

This report has been created by IC Net
METROHM LTD

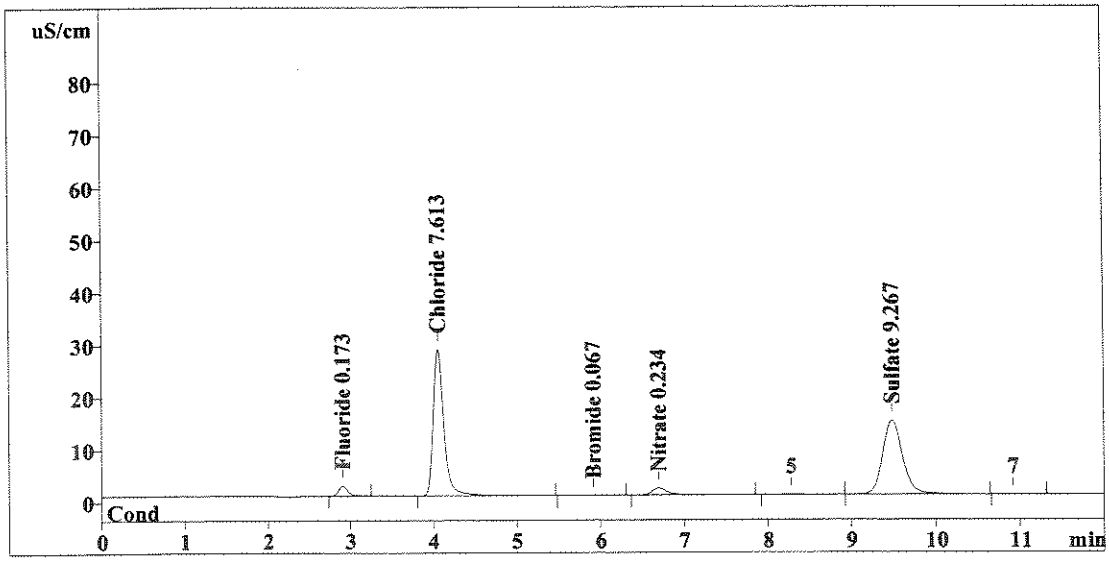
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 22:37:16
Printed by:	User
Ident:	1113256
Analysis from:	7/2/2008 22:25:08
File:	S7022225.CHW

Last save: 7/2/2008 22:37:16

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37789
SAMPLE:	EXTRACTED - C
Vial number:	30
Volume:	1.0 µL
Dilution:	2.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

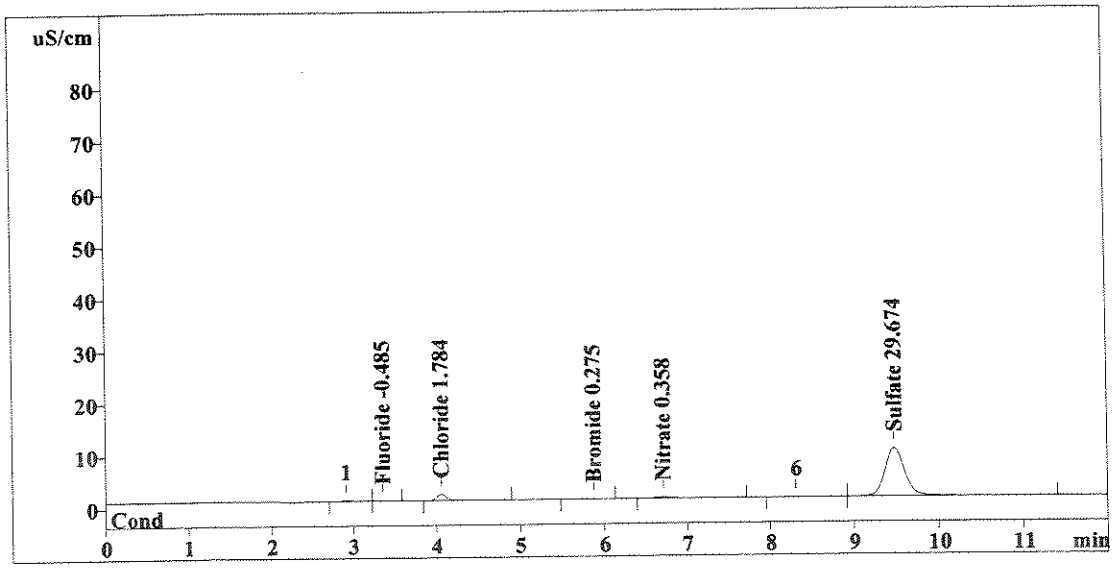
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	14.900		0.173	Fluoride
2	4.06	247.465	DK	7.613	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.91	0.271		0.067	Bromide
5	6.70	16.728		0.234	Nitrate
6	9.48	230.884		9.267	Sulfate
6	12.00	510.248		17.354	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 22:51:52	
Printed by:	User	
Ident:	1113257	
Analysis from:	7/2/2008 22:39:54	
File:	S7022239.CHW	Last save: 7/2/2008 22:51:52
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37790	
SAMPLE:	EXTRACTED - S	
Vial number:	31	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



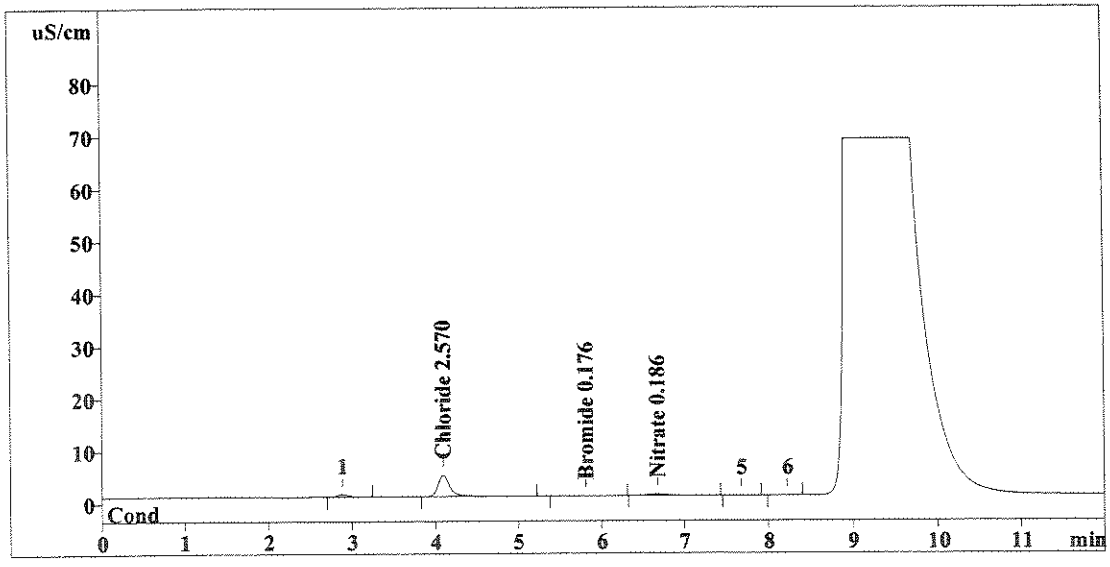
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.180		-0.485	Fluoride
2	4.06	10.148		1.784	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.87	0.100		0.275	Bromide
5	6.71	3.225		0.358	Nitrate
6	9.48	148.249		29.674	Sulfate
6	12.00	161.902		32.576	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 23:05:58	
Printed by:	User	
Ident:	1113258	
Analysis from:	7/2/2008 22:54:00	
File:	S7022254.CHW	Last save: 7/2/2008 23:05:58
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37791	
SAMPLE:	EXTRACTED - NO3 TO CONFIRM PREVIOUS	
Vial number:	32	
Volume:	1.0 µL	
Dilution:	4.00	
Amount:	1.0000	



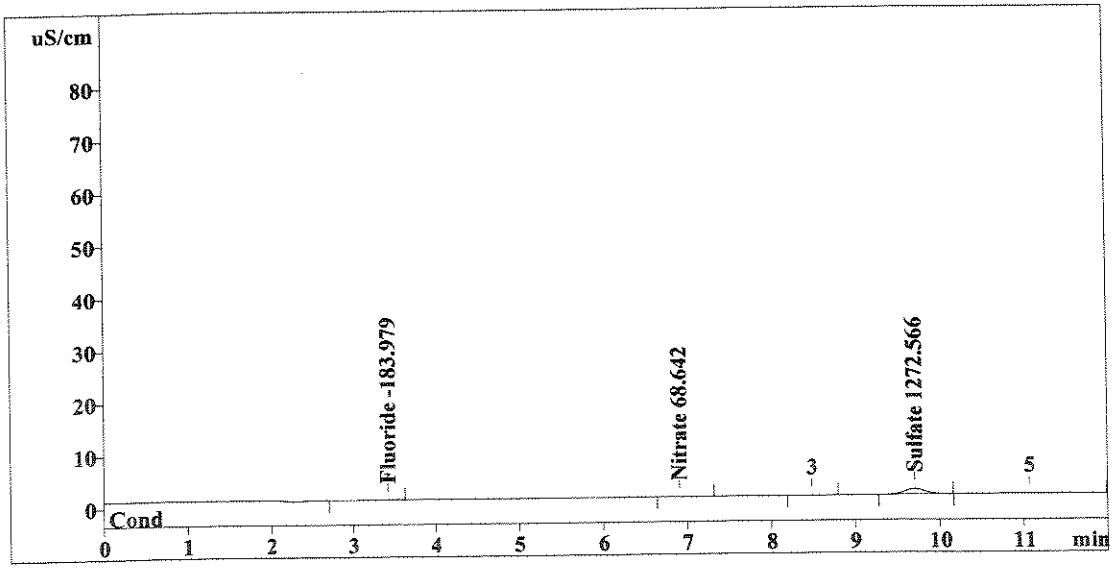
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.09	40.496		2.570	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.81	0.566		0.176	Bromide
5	6.68	5.009		0.186	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	46.071		2.932	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 23:20:04	
Printed by:	User	
Ident:	1113258	
Analysis from:	7/2/2008 23:08:06	
File:	S7022308.CHW	Last save: 7/2/2008 23:20:04
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37792	
SAMPLE:	EXTRACTED - S	
Vial number:	33	
Volume:	1.0 µL	
Dilution:	4000.00	
Amount:	1.0000	



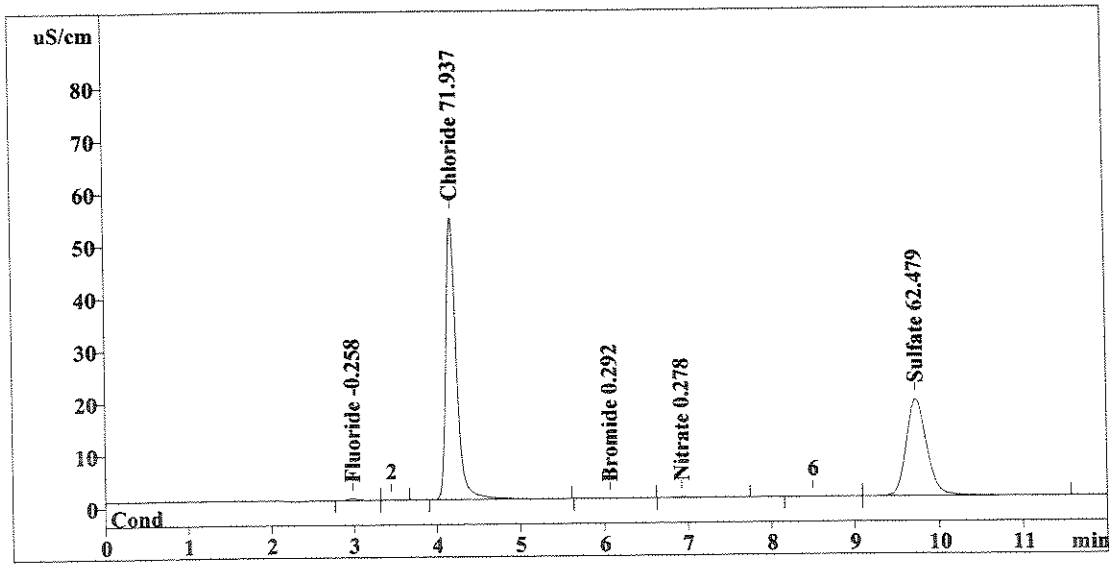
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.42	0.458	-183.979	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	0.125	68.642	Nitrate
6	9.70	16.849 mg*L/1000	1272.566	Sulfate
6	12.00	17.432	1525.187	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 23:34:10	
Printed by:	User	
Ident:	1113259	
Analysis from:	7/2/2008 23:22:11	
File:	S7022322.CHW	Last save: 7/2/2008 23:34:10
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37793	
SAMPLE:	EXTRACTED - CS	
Vial number:	34	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

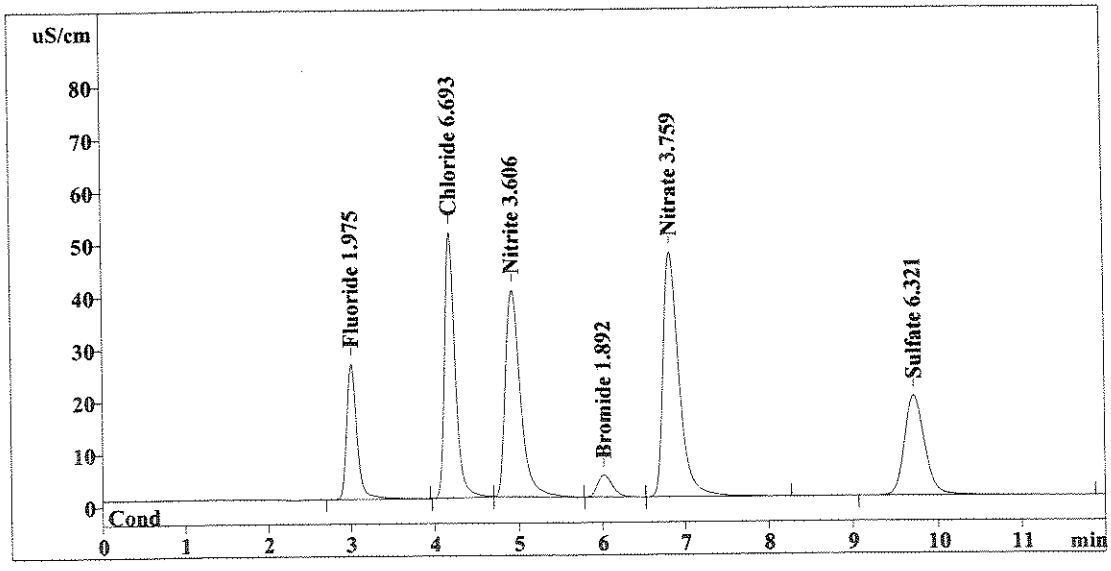
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.98	2.657		-0.258	Fluoride
2	4.18	469.017	OK	71.937	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.07	0.147		0.292	Bromide
5	6.92	1.892		0.278	Nitrate
6	9.73	310.962	OK	62.479	Sulfate
6	12.00	784.675		135.244	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/2/2008 23:48:15	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/2/2008 23:36:17	
File:	S7022336.CHW	Last save: 7/2/2008 23:48:16
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37794	
SAMPLE:		
Vial number:	35	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	220.488	1.975	Fluoride
2	4.19	436.255	6.693	Chloride
3	4.92	490.697	3.606	Nitrite
4	6.02	52.799	1.892	Bromide
5	6.82	622.490	3.759	Nitrate
6	9.72	314.608	6.321	Sulfate
6	12.00	2137.337	24.246	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

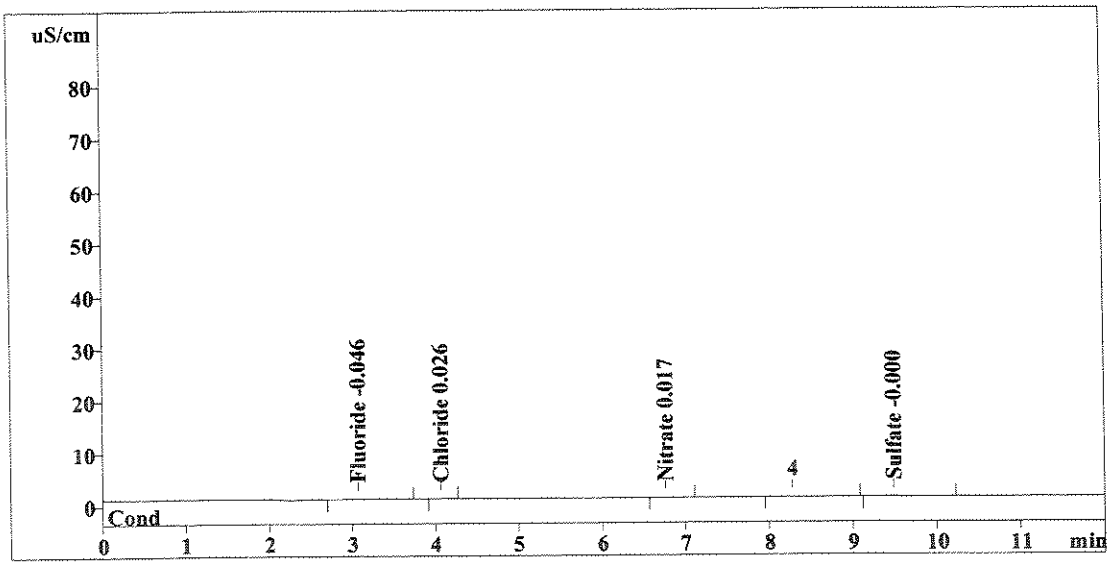
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 00:02:21
Printed by:	User
Ident:	CCB
Analysis from:	7/2/2008 23:50:23
File:	S7022350.CHW

Last save: 7/3/2008 00:02:21

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37795
SAMPLE:	
Vial number:	36
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

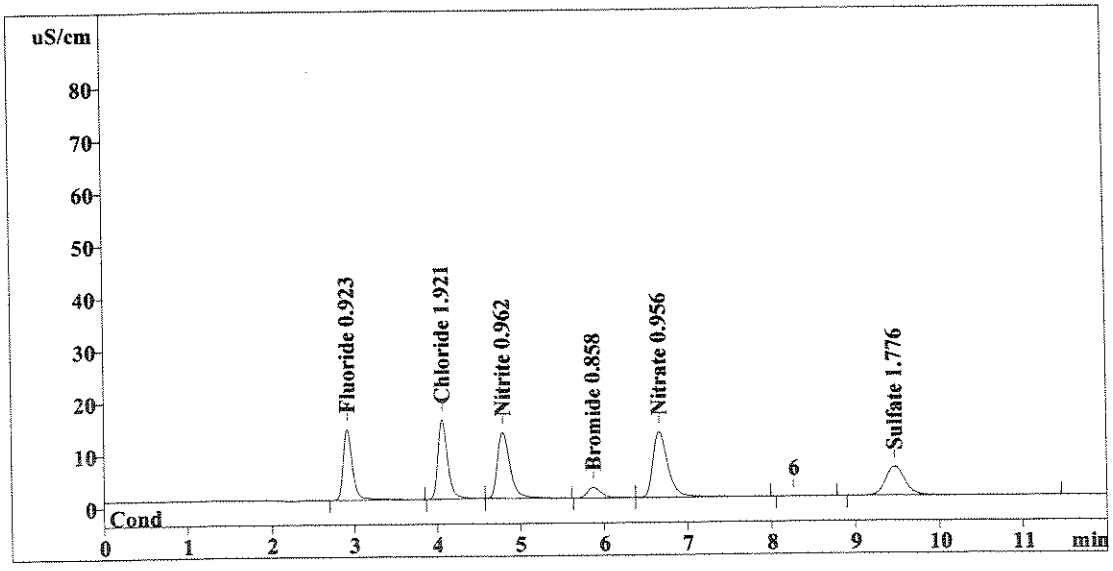
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.05	0.432	-0.046	Fluoride
2	4.07	0.168	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.76	0.055	0.017	Nitrate
6	9.49	1.068	-0.000	Sulfate
6	12.00	1.724	0.089	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 00:16:27	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/3/2008 00:04:29	
File:	S7030004.CHW	Last save: 7/3/2008 00:16:27
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37796	
SAMPLE:		
Vial number:	37	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

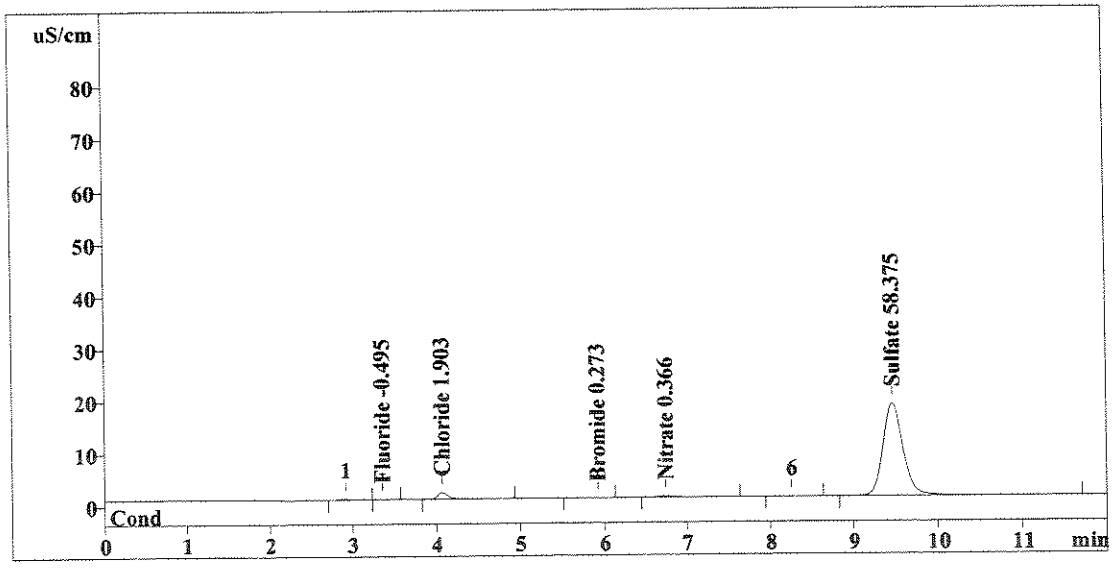
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	105.982	ok	0.923	Fluoride
2	4.06	124.127		1.921	Chloride
3	4.79	131.388		0.962	Nitrite
4	5.87	23.586	out low	0.858	Bromide
5	6.67	156.297	ok	0.956	Nitrate
6	9.47	89.144	out low	1.776	Sulfate
6	12.00	630.525		7.396	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 00:30:33	
Printed by:	User	
Ident:	1113262	
Analysis from:	7/3/2008 00:18:35	
File:	S7030018.CHW	Last save: 7/3/2008 00:30:33
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37797	
SAMPLE:	EXTRACTED - S	
Vial number:	38	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

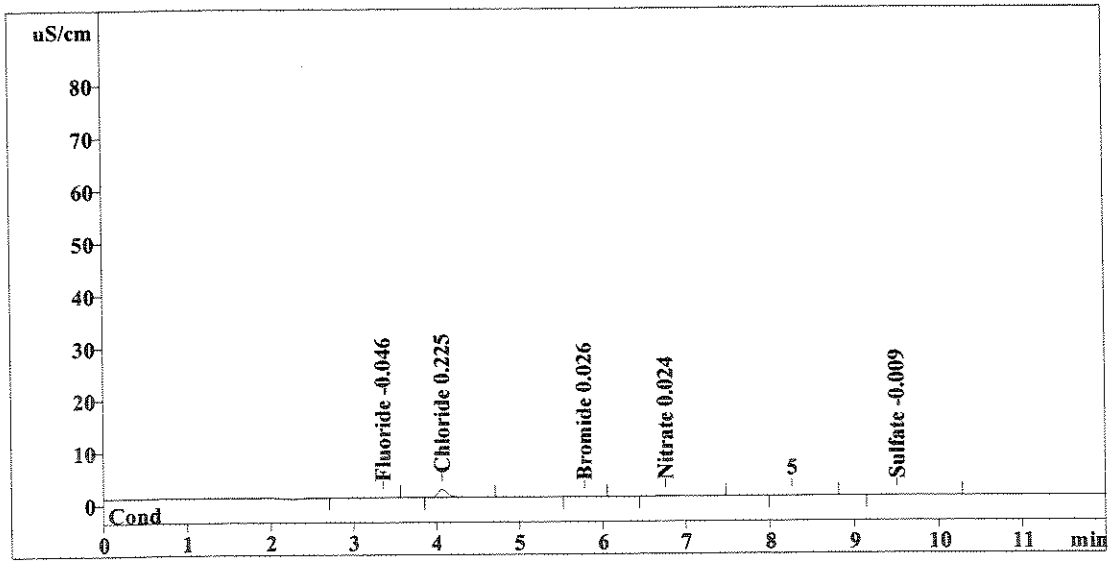
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.073	-0.495	Fluoride
2	4.07	10.926	1.903	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.095	0.273	Bromide
5	6.74	3.361	0.366	Nitrate
6	9.47	290.607	58.375	Sulfate
6	12.00	305.063	61.413	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 00:44:39	
Printed by:	User	
Ident:	METHOD BLANK	
Analysis from:	7/3/2008 00:32:41	
File:	S7030032.CHW	Last save: 7/3/2008 00:44:39
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37798	
SAMPLE:	EXTRACTED - S	
Vial number:	39	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



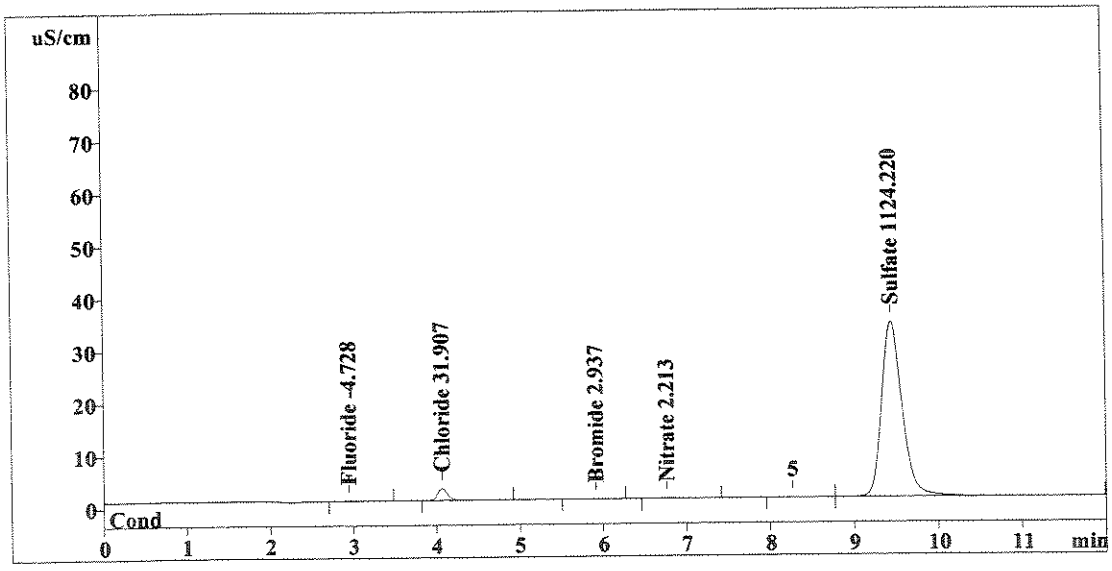
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	0.417	-0.046	Fluoride
2	4.07	13.197	0.225	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.78	0.060	0.026	Bromide
5	6.76	1.339	0.024	Nitrate
6	9.50	0.634	-0.009	Sulfate
6	12.00	15.647	0.331	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 00:58:45	
Printed by:	User	
Ident:	1112363	
Analysis from:	7/3/2008 00:46:46	
File:	S7030046.CHW	Last save: 7/3/2008 00:58:45
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37799	
SAMPLE:	EXTRACTED - S	
Vial number:	40	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.317	-4.728	Fluoride
2	4.07	19.349	31.907	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.152	2.937	Bromide
5	6.76	0.951	2.213	Nitrate
6	9.45	558.676	1124.220	Sulfate
6	12.00	579.445	1166.005	

Mpt 1/400

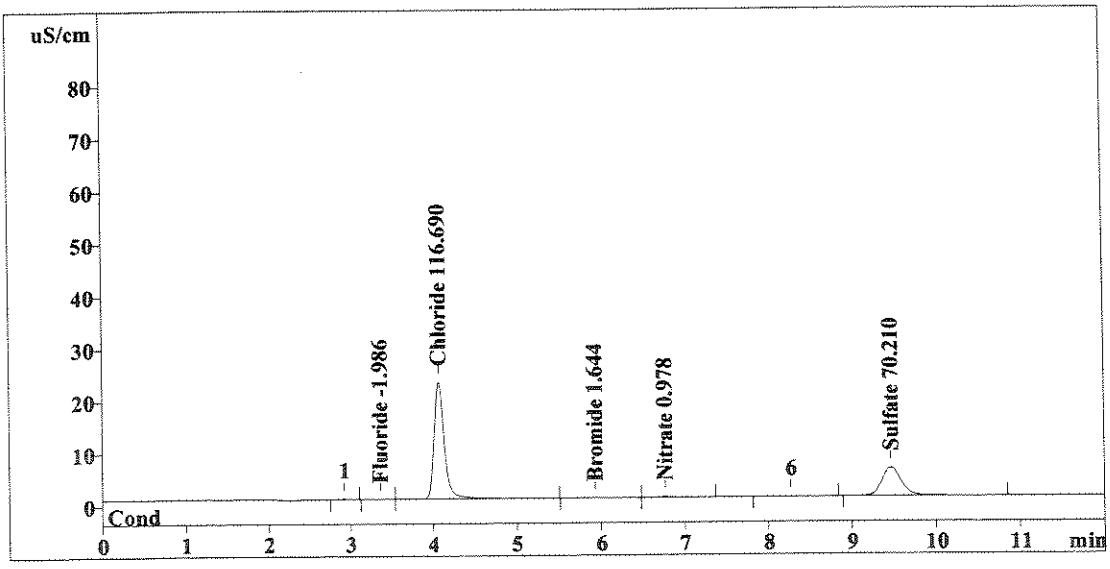
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 01:12:50	
Printed by:	User	
Ident:	1112365	
Analysis from:	7/3/2008 01:00:52	
File:	S7030100.CHW	Last save: 7/3/2008 01:12:50
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37800	
SAMPLE:	EXTRACTED - CS	
Vial number:	41	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	



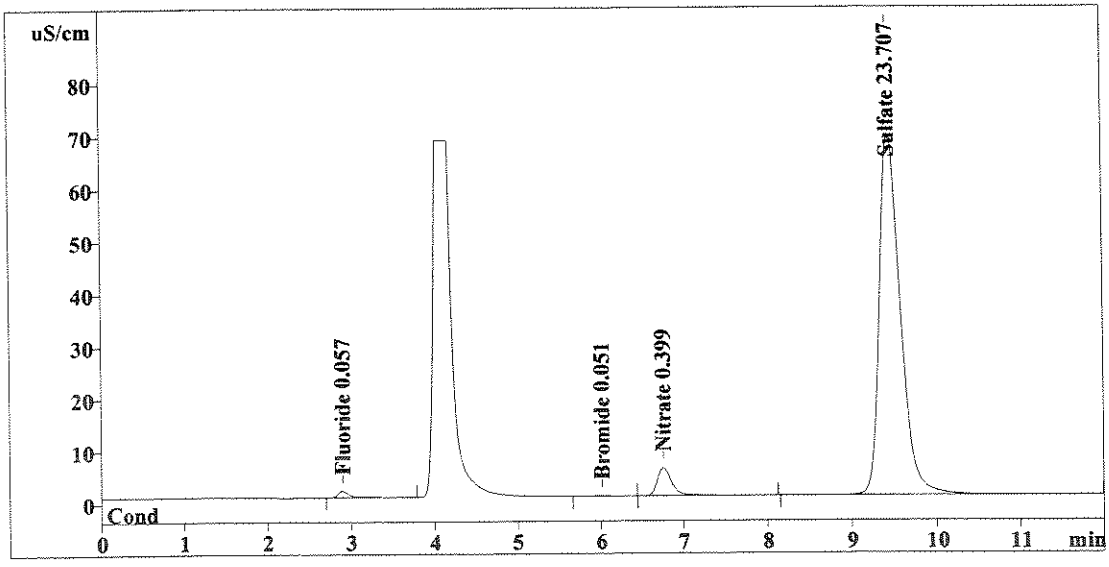
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.061		-1.986	Fluoride
2	4.07	189.295		116.690	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.93	0.484		1.644	Bromide
5	6.77	1.339		0.978	Nitrate
6	9.47	88.128		70.210	Sulfate
6	12.00	279.307		191.508	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 01:26:56	
Printed by:	User	
Ident:	1111897	
Analysis from:	7/3/2008 01:14:58	
File:	S7030114.CHW	Last save: 7/3/2008 01:26:56
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37801	
SAMPLE:	F	
Vial number:	42	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	11.716		0.057	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.01	0.774		0.051	Bromide
5	6.76	63.604		0.399	Nitrate
6	9.45	1176.936		23.707	Sulfate
6	12.00	1253.030		24.215	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

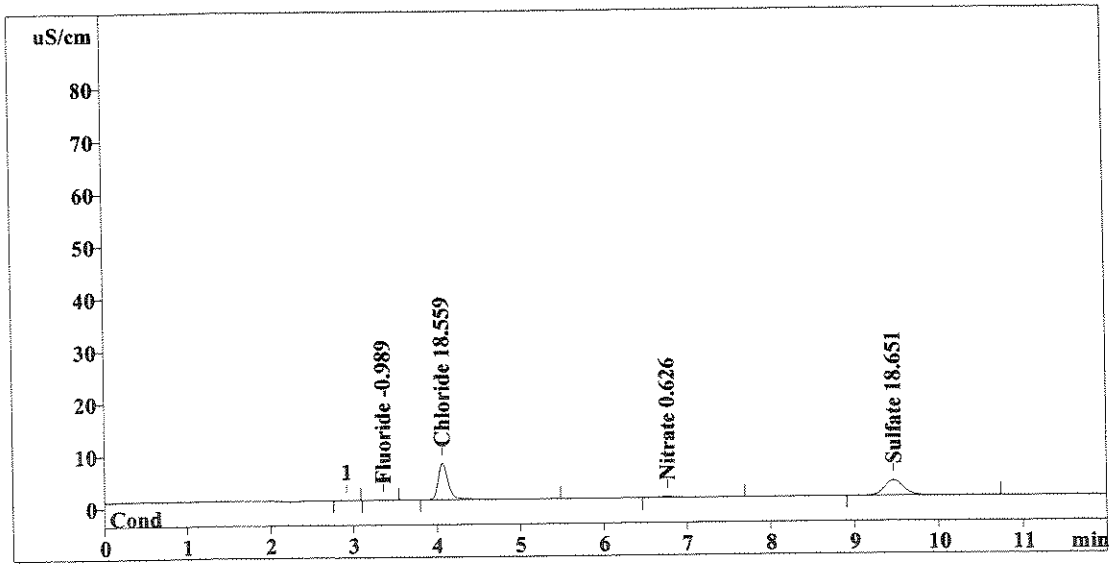
Method 300.0/9056

Report date:	7/3/2008 01:41:02
Printed by:	User
Ident:	1111897
Analysis from:	7/3/2008 01:29:03
File:	S7030129.CHW

Last save: 7/3/2008 01:41:02

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37802
SAMPLE:	CS
Vial number:	43
Volume:	1.0 µL
Dilution:	20.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.079		-0.989	Fluoride
2	4.07	59.176	1/10	18.559	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.77	2.474		0.626	Nitrate
6	9.47	47.323	1/10	18.651	Sulfate
6	12.00	109.052		38.825	

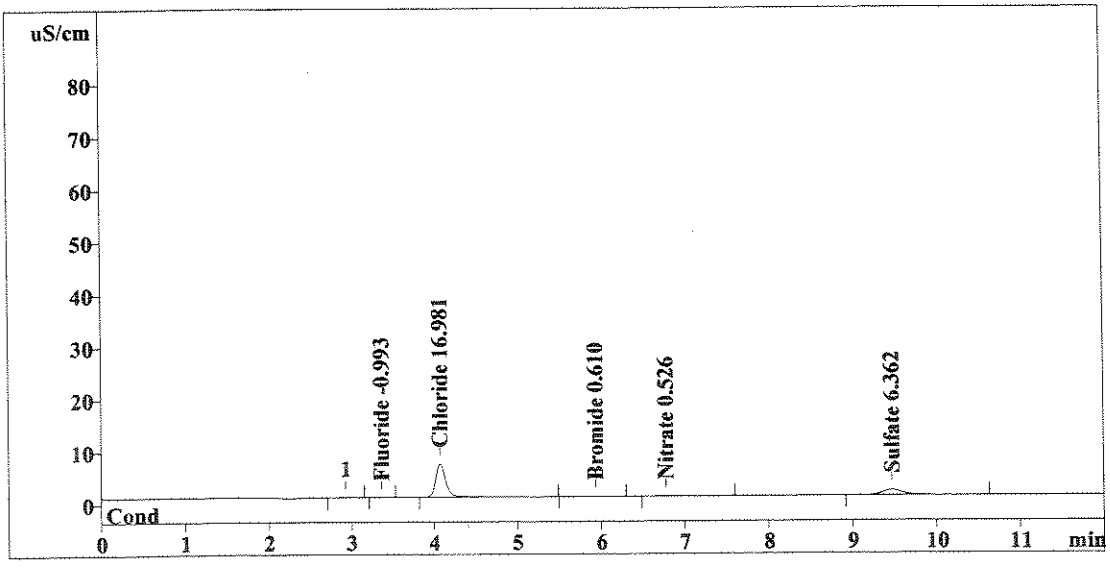
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 01:55:07	
Printed by:	User	
Ident:	1111898	
Analysis from:	7/3/2008 01:43:09	
File:	S7030143.CHW	Last save: 7/3/2008 01:55:08
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37803	
SAMPLE:	CS	
Vial number:	44	
Volume:	1.0 µL	
Dilution:	20.00	
Amount:	1.0000	



Quantitation method: Custom

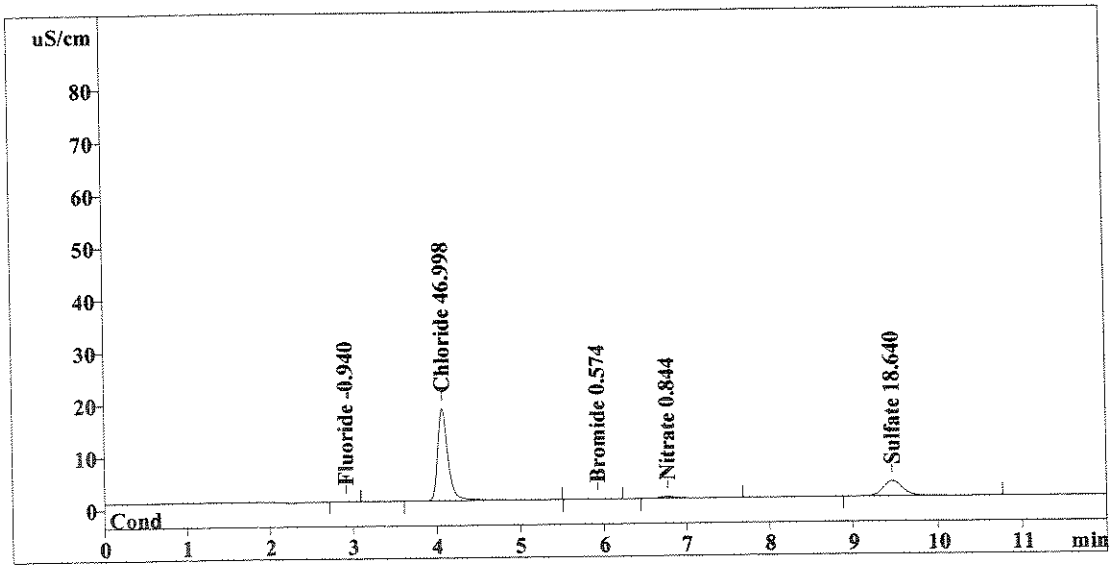
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.057		-0.993	Fluoride
2	4.07	54.015	1/10	16.981	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.93	0.185		0.610	Bromide
5	6.78	1.647		0.526	Nitrate
6	9.47	16.847	1/10	6.362	Sulfate
6	12.00	72.751		25.473	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 02:09:13	
Printed by:	User	
Ident:	1111899	
Analysis from:	7/3/2008 01:57:15	
File:	S7030157.CHW	Last save: 7/3/2008 02:09:14
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37804	
SAMPLE:	CS	
Vial number:	45	
Volume:	1.0 µL	
Dilution:	20.00	
Amount:	1.0000	



Quantitation method: Custom

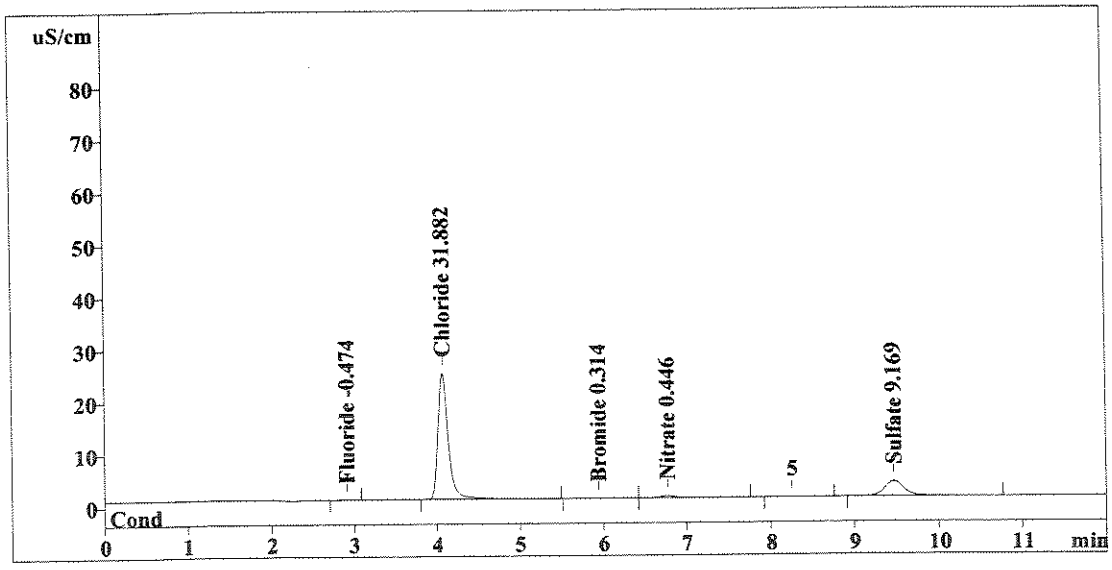
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.350		-0.940	Fluoride
2	4.07	152.183	OK	46.998	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.93	0.134		0.574	Bromide
5	6.77	4.288		0.844	Nitrate
6	9.47	47.297	1/10	18.640	Sulfate
6	12.00	204.251		67.996	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 02:23:19	
Printed by:	User	
Ident:	1111983	
Analysis from:	7/3/2008 02:11:21	
File:	S7030211.CHW	Last save: 7/3/2008 02:23:19
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37805	
SAMPLE:	CS	
Vial number:	46	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



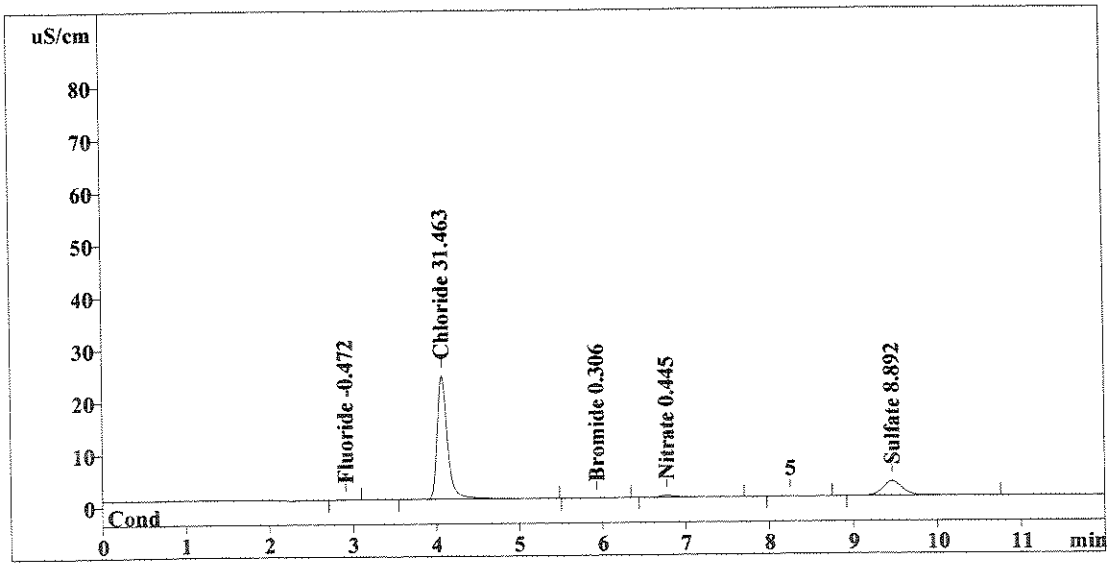
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.310		-0.474	Fluoride
2	4.07	207.015	DK	31.882	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.94	0.211		0.314	Bromide
5	6.77	4.683		0.446	Nitrate
6	9.47	46.548		9.169	Sulfate
6	12.00	258.767		42.284	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 02:37:25	
Printed by:	User	
Ident:	1111983 DUP	
Analysis from:	7/3/2008 02:25:27	
File:	S7030225.CHW	Last save: 7/3/2008 02:37:25
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37806	
SAMPLE:	CS	
Vial number:	47	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



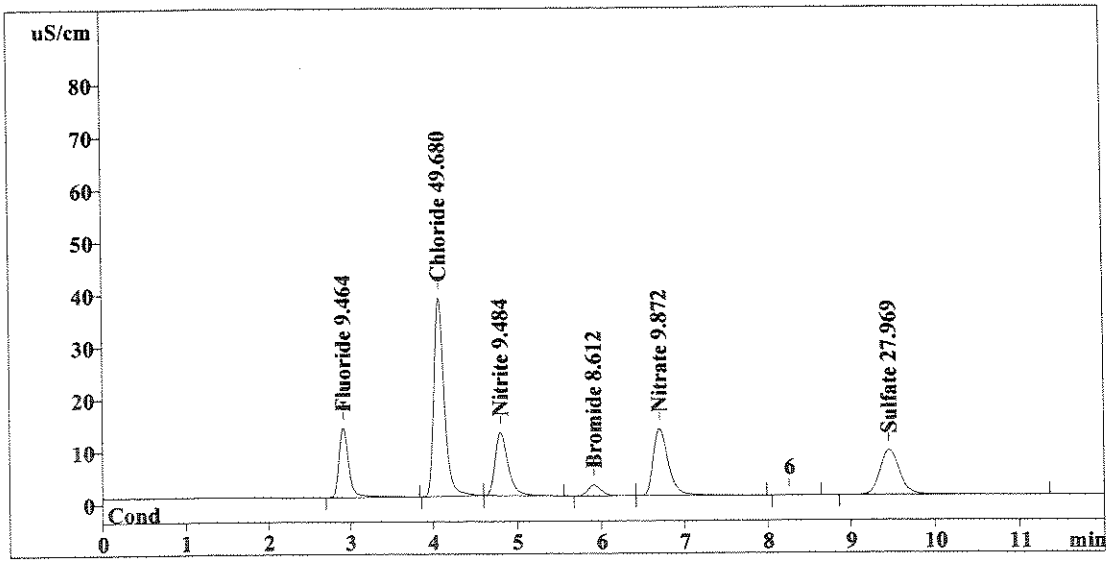
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.324		-0.472	Fluoride
2	4.07	204.277	OK	31.463	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.94	0.187		0.306	Bromide
5	6.77	4.671		0.445	Nitrate
6	9.47	45.175	—	8.892	Sulfate
6	12.00	254.636		41.579	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 02:51:31	
Printed by:	User	
Ident:	1111983 SPK	
Analysis from:	7/3/2008 02:39:32	
File:	S7030239.CHW	Last save: 7/3/2008 02:51:31
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37807	
SAMPLE:	CS	
Vial number:	48	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



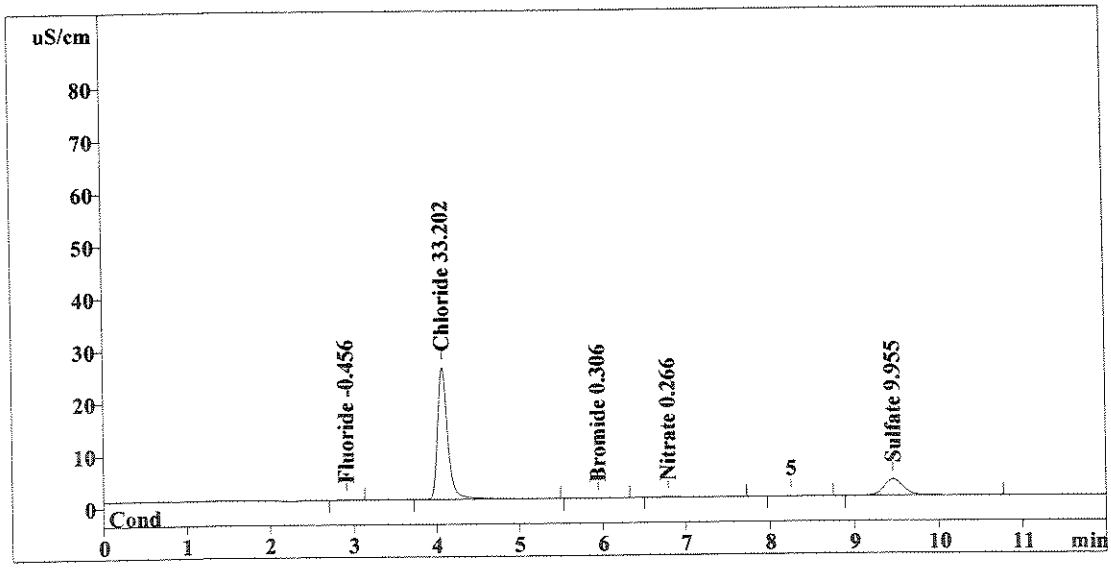
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	108.510		9.464	Fluoride
2	4.07	323.436		49.680	Chloride
3	4.80	129.586		9.484	Nitrite
4	5.91	23.670		8.612	Bromide
5	6.70	161.463		9.872	Nitrate
6	9.46	139.797		27.969	Sulfate
6	12.00	886.461		115.082	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 03:05:36	
Printed by:	User	
Ident:	1111984	
Analysis from:	7/3/2008 02:53:38	
File:	S7030253.CHW	Last save: 7/3/2008 03:05:37
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37808	
SAMPLE:	CS	
Vial number:	49	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.499		-0.456	Fluoride
2	4.07	215.651	DK	33.202	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.95	0.186		0.306	Bromide
5	6.79	1.691		0.266	Nitrate
6	9.46	50.445	— OK	9.955	Sulfate
6	12.00	268.473		44.185	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

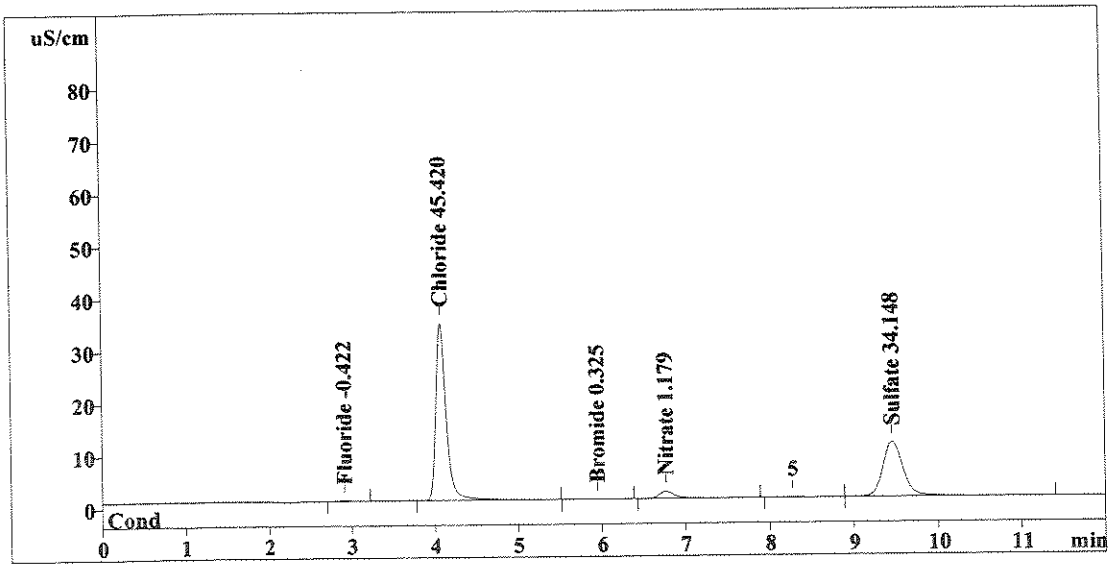
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 03:19:42
Printed by:	User
Ident:	1111985
Analysis from:	7/3/2008 03:07:44
File:	S7030307.CHW

Last save: 7/3/2008 03:19:43

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37809
SAMPLE:	CS
Vial number:	50
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

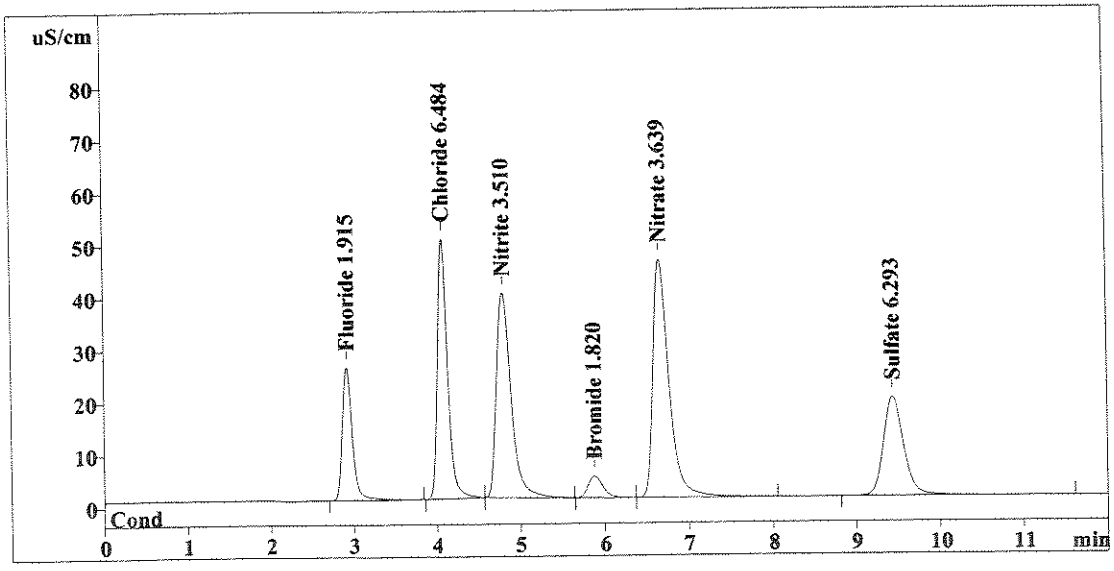
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.870		-0.422	Fluoride
2	4.07	295.571	OK	45.420	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.95	0.239		0.325	Bromide
5	6.77	16.877		1.179	Nitrate
6	9.46	170.443	OK	34.148	Sulfate
6	12.00	484.000		81.494	

7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 03:33:48	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/3/2008 03:21:50	
File:	S7030321.CHW	Last save: 7/3/2008 03:33:49
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37810	
SAMPLE:		
Vial number:	51	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

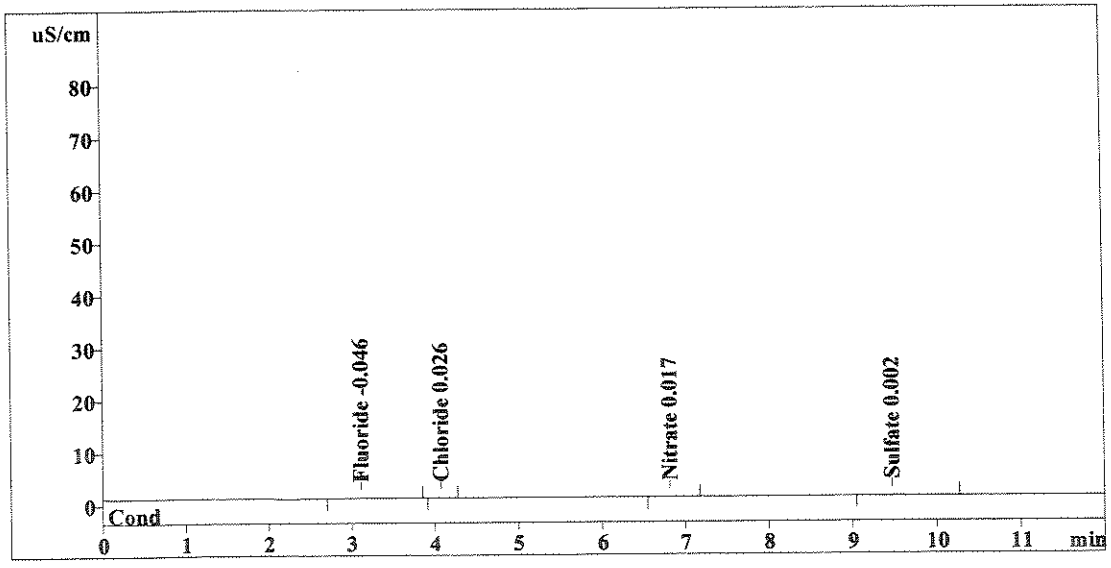
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	213.959	1.915	Fluoride
2	4.07	422.561	6.484	Chloride
3	4.80	477.644	3.510	Nitrite
4	5.88	50.788	1.820	Bromide
5	6.66	602.572	3.639	Nitrate
6	9.44	313.184	6.293	Sulfate
6	12.00	2080.709	23.661	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 03:47:54	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/3/2008 03:35:56	
File:	S7030335.CHW	Last save: 7/3/2008 03:47:54
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37811	
SAMPLE:		
Vial number:	52	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

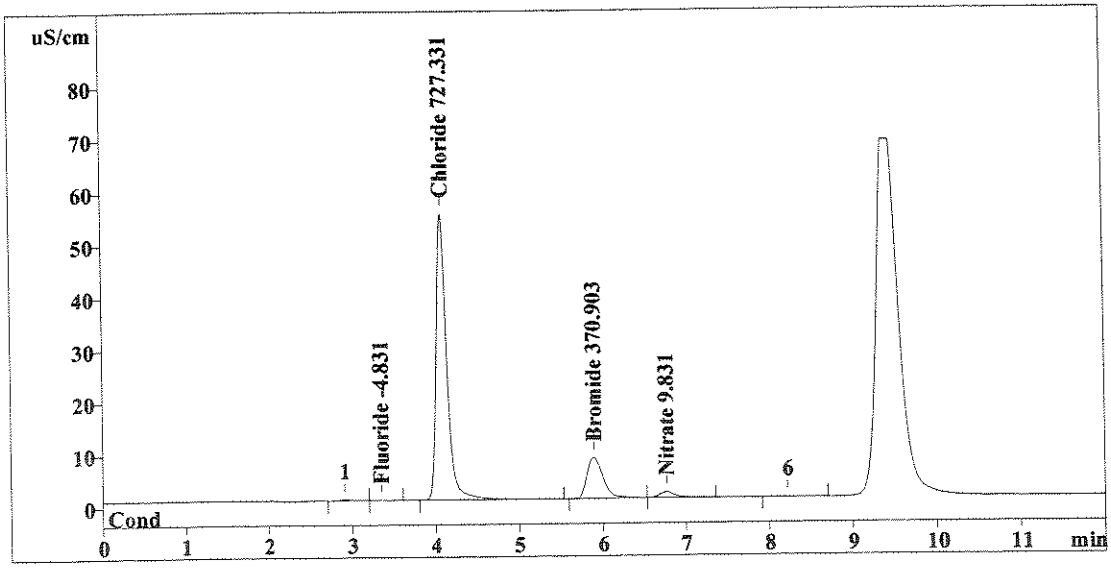
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.12	0.494	-0.046	Fluoride
2	4.07	0.181	0.026	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.81	0.106	0.017	Nitrate
6	9.47	1.160	0.002	Sulfate
6	12.00	1.941	0.091	

OK
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 04:02:00	
Printed by:	User	
Ident:	1112871	
Analysis from:	7/3/2008 03:50:02	
File:	S7030350.CHW	Last save: 7/3/2008 04:02:00
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37812	
SAMPLE:	CS	
Vial number:	53	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.34	0.205	OK	-4.831	Fluoride
2	4.08	474.223		727.331	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	104.183		370.903	Bromide
5	6.77	13.622		9.831	Nitrate
6	0.00	0.000	mgt 1/1000	0.000	Sulfate
6	12.00	592.233		1112.897	

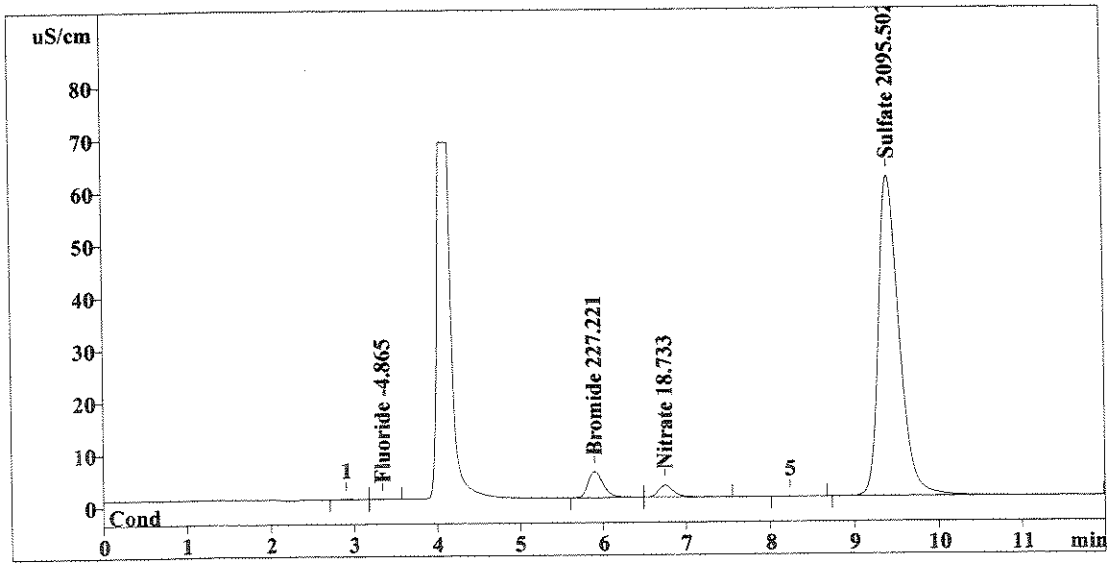
7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 04:16:06	
Printed by:	User	
Ident:	1112872	
Analysis from:	7/3/2008 04:04:08	
File:	S7030404.CHW	Last save: 7/3/2008 04:16:06
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37813	
SAMPLE:	CS	
Vial number:	54	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

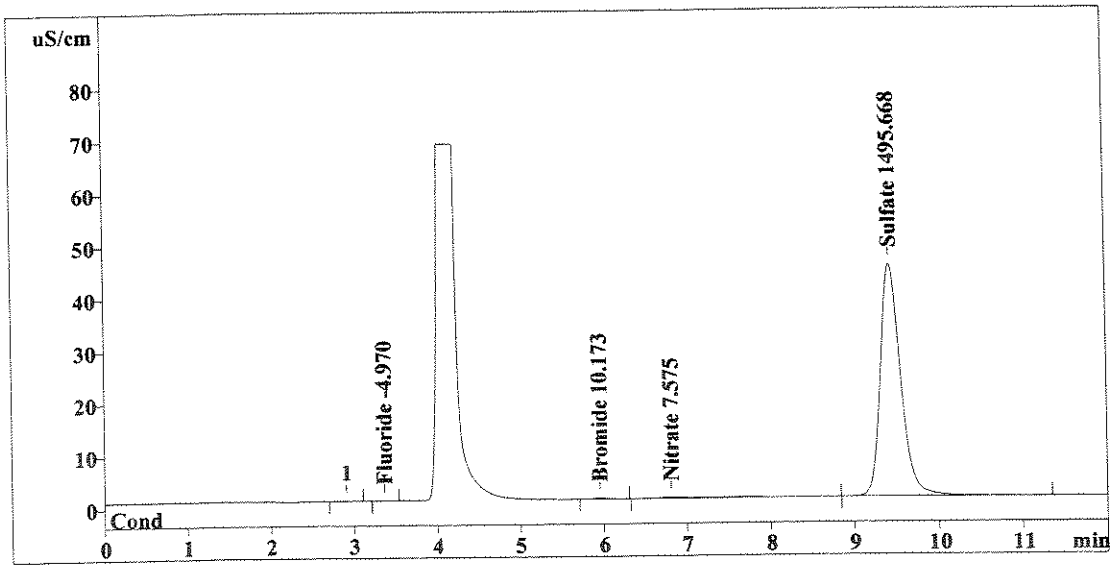
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.34	0.169	1/100	-4.865	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.90	63.561		227.221	Bromide
5	6.75	28.429		18.733	Nitrate
6	9.42	1040.425	1/1000	2095.502	Sulfate
6	12.00	1132.584		2346.321	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 04:30:11	
Printed by:	User	
Ident:	1112874	
Analysis from:	7/3/2008 04:18:13	
File:	S7030418.CHW	Last save: 7/3/2008 04:30:12
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37814	
SAMPLE:	CS	
Vial number:	55	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.054	1/1000	-4.970	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.95	2.198		10.173	Bromide
5	6.81	9.870		7.575	Nitrate
6	9.43	742.911	Dpt 1/1000	1495.668	Sulfate
6	12.00	755.034		1518.386	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

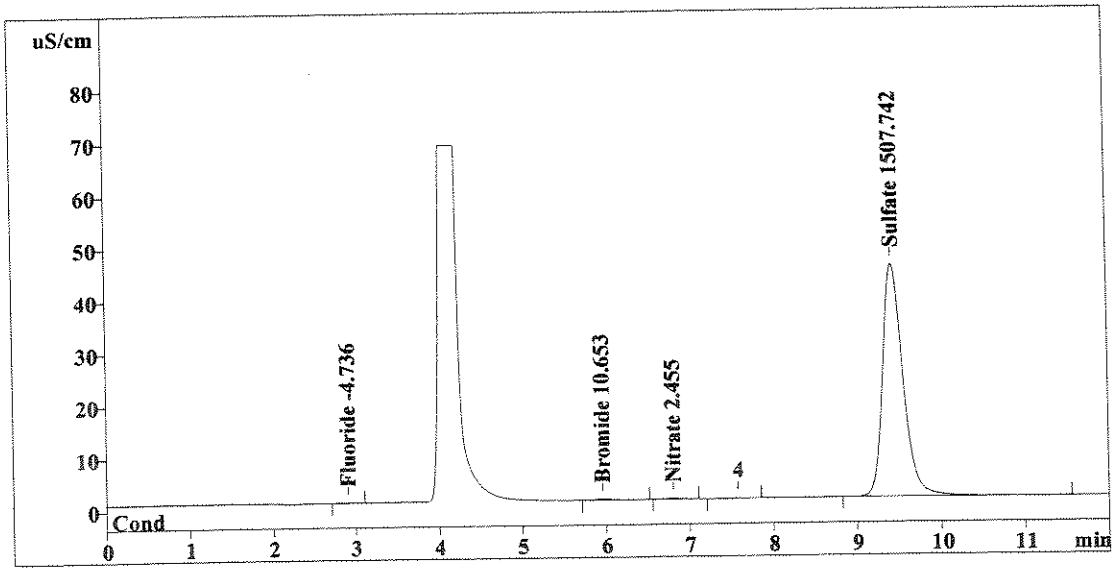
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 04:44:17
Printed by:	User
Ident:	1112874 DUP
Analysis from:	7/3/2008 04:32:19
File:	S7030432.CHW

Last save: 7/3/2008 04:44:18

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37815
SAMPLE:	CS
Vial number:	56
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.309	—	-4.736	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.96	2.334		10.653	Bromide
5	6.80	1.354		2.455	Nitrate
6	9.44	748.900	—	1507.742	Sulfate
6	12.00	752.896		1525.586	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

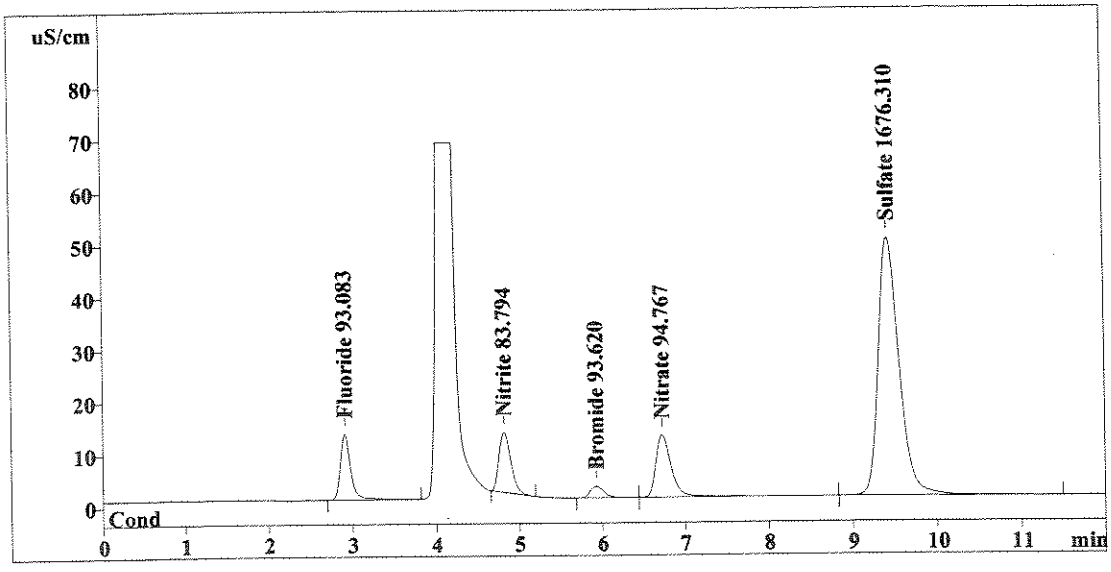
Method 300.0/9056

Report date:	7/3/2008 04:58:23
Printed by:	User
Ident:	1112874 SPK
Analysis from:	7/3/2008 04:46:25
File:	S7030446.CHW

Last save: 7/3/2008 04:58:24

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37816
SAMPLE:	CS
Vial number:	57
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

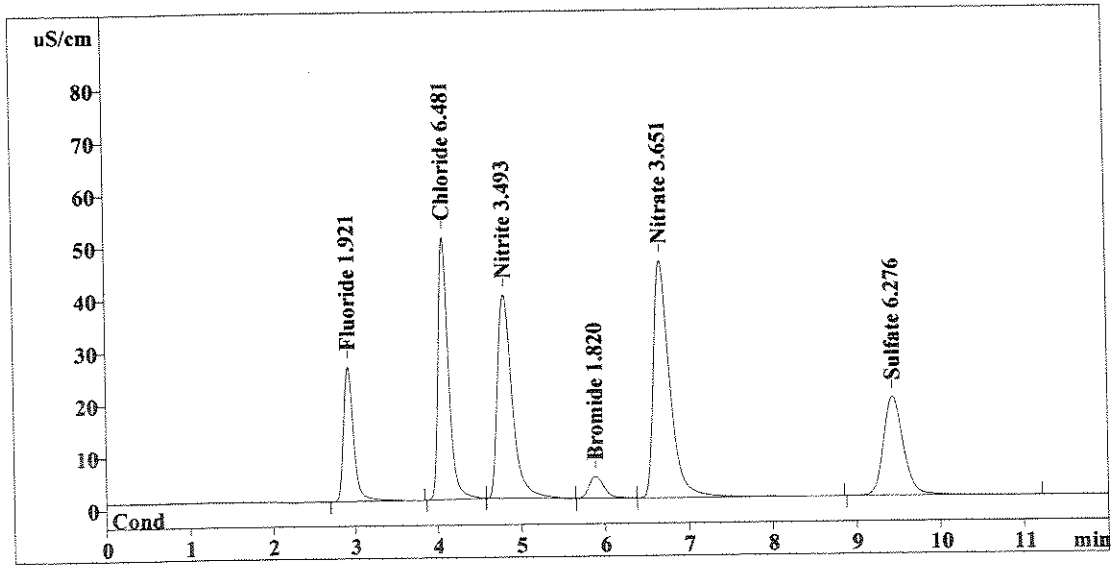
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	106.818		93.083	Fluoride
2	0.00	0.000		0.000	Chloride
3	4.82	114.576		83.794	Nitrite
4	5.93	25.790		93.620	Bromide
5	6.73	154.890		94.767	Nitrate
6	9.43	832.509		1676.310	Sulfate
6	12.00	1234.583		2041.574	

OK 7/3/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/3/2008 05:12:29	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/3/2008 05:00:31	
File:	S7030500.CHW	Last save: 7/3/2008 05:12:30
Method:	06-10-08CAL.mtw	Last save: 7/2/2008 11:30:57
Run operator:	User	
Analysis number:	37817	
SAMPLE:		
Vial number:	58	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	214.630	1.921	Fluoride
2	4.07	422.425	6.481	Chloride
3	4.80	475.386	3.493	Nitrite
4	5.89	50.773	1.820	Bromide
5	6.68	604.465	3.651	Nitrate
6	9.44	312.346	6.276	Sulfate
6	12.00	2080.024	23.642	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

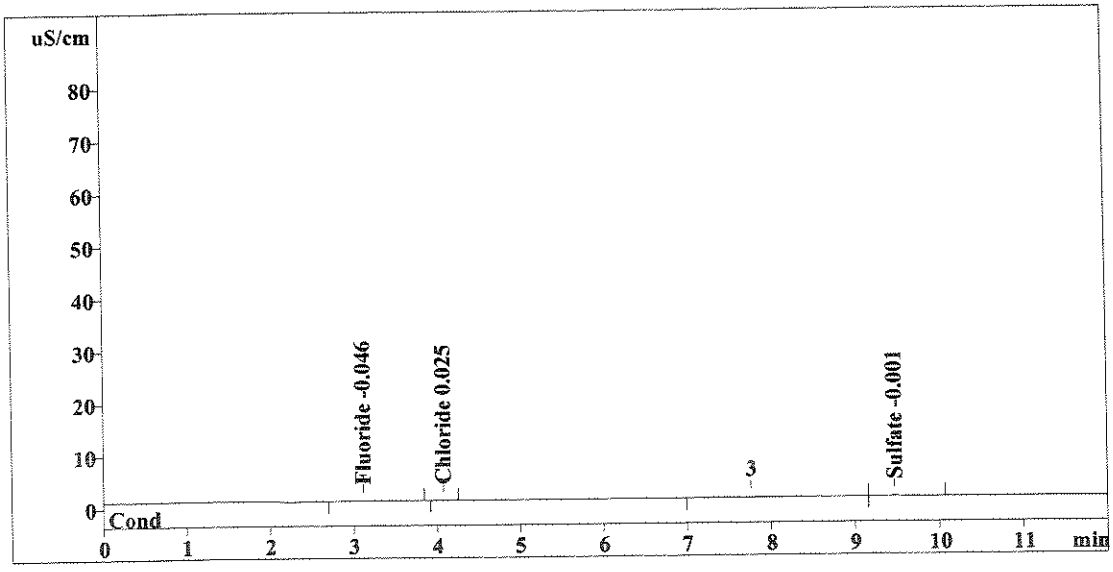
Method 300.0/9056

Report date:	7/3/2008 05:26:35
Printed by:	User
Ident:	CCB
Analysis from:	7/3/2008 05:14:37
File:	S7030514.CHW

Last save: 7/3/2008 05:26:35

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37818
SAMPLE:	
Vial number:	59
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/2/2008 11:30:57



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.13	0.475	OK	-0.046	Fluoride
2	4.07	0.113		0.025	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.47	1.043		-0.001	Sulfate
6	12.00	1.631		0.071	

7/3/08

This report has been created by IC Net
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 **Loop size:** 50 uL Loop

Analyst: 7-7 C. Woods 7/10/08 **Analysis Date:** 7-2-08

Is copy of LCS attached to run? (YES) / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/26/08	WC72093D
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC7200503A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC7200933A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC7200933B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC7200933C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC7200933D
NO3		50			1.0	CMW	7/3/08	E	7/10/08	WC7200933E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 163511

Analyte: SULFATE 9056 SULFATE BY ION CHROMATOGRAPHY

Printed: 07/10/08 08:21

44631
44666
44650
44797
44803

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		1116129	SOIL/SEDIME	20.0	U	1.0	20.0			07/03/2008		
ESMP	R2844666	1112363	SOIL/SEDIME	11300		400.0	20.0			07/03/2008		ASPB
ESMP	R2844666	1112365	SOIL/SEDIME	724		40.0	20.0			07/03/2008		ASPB
ESMP	R2844650	1112871	WATER	2430		1000.0	0.200			07/03/2008		ASPB
CHK5		1116130	WATER	6.33		1.0	0.200	98.9		07/03/2008		
BLK4		1116131	WATER	0.200	U	1.0	0.200			07/03/2008		
SPKB		1116132	WATER	1.85		1.0	0.200	92.5		07/03/2008		
ESMP	R2844650	1112872	WATER	1950		1000.0	0.200			07/03/2008		ASPB
ESMP	R2844650	1112874	WATER	1440		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116133	WATER	1430		1000.0	0.200		0.50	07/03/2008		
SPK1		1116134	WATER	3320		1000.0	0.200	93.9		07/03/2008		
BLK5		1116148	SOIL/SEDIME	0.140		1.0	20.0			07/03/2008		
ESMP	R2844666	1113258	SOIL/SEDIME	17000		1000.0	20.0			07/03/2008		ASPB
BLK5		1116151	SOIL/SEDIME	0.380		1.0	20.0			07/03/2008		
ESMP	R2844797	1114379	SOIL/SEDIME	91.4		1.0	20.0			07/03/2008		ASPB
ESMP	R2844803	1114419	WATER	1210		1000.0	0.200			07/03/2008		ASPB
LDUP		1116135	WATER	1190		1000.0	0.200		1.59	07/03/2008		
SPK1		1116136	WATER	3080		1000.0	0.200	93.5		07/03/2008		
ESMP	R2844803	1114420	WATER	1160		1000.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	1170		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116137	WATER	1190		1000.0	0.200		1.82	07/03/2008		
SPK1		1116138	WATER	3050		1000.0	0.200	94.1		07/03/2008		
ESMP	R2844803	1114756	WATER	1300		400.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114758	WATER	0.200	U	1.0	0.200			07/03/2008		ASPB

Records printed: 24

Reviewed & Approved
By: Stelle
Date: 7/10/08

Run #: 163516
Analyte: NITRITE 9056 NITRITE NITROGEN (NO2) AS N BY ION CHROM
Printed: 07/10/08 08:04

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		1116125	SOIL/SEDIME	5.00	U	1.0	5.0			07/03/2008		
ESMP	R2844797	1114379	SOIL/SEDIME	5.00	U	1.0	5.0			07/03/2008		ASPB
ESMP	R2844797	1114382	SOIL/SEDIME	5.00	U	1.0	5.0			07/03/2008		ASPB
ESMP	R2844803	1114756	WATER	5.00	U	100.0	0.05			07/03/2008		ASPB
CHK5		1116126	WATER	3.53		1.0	0.05	97.9		07/03/2008		
BLK4		1116127	WATER	0.0500	U	1.0	0.05			07/03/2008		
SPKB		1116128	WATER	0.955		1.0	0.05	95.5		07/03/2008		
ESMP	R2844803	1114758	WATER	0.0500	U	1.0	0.05			07/03/2008		ASPB

Records printed: 8

Run #: 163509
Analyte: CHLORIDE 9056 CHLORIDE BY ION CHROMATOGRAPHY
Printed: 07/10/08 08:38

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844650	1112872	WATER	1510		1000.0	0.200			07/03/2008		ASPB
CHK5		1116139	WATER	6.51		1.0	0.200	100.1		07/03/2008		
BLK4		1116140	WATER	0.200	U	1.0	0.200			07/03/2008		
SPKB		1116141	WATER	1.94		1.0	0.200	97.2		07/03/2008		
ESMP	R2844650	1112874	WATER	3890		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116142	WATER	3680		1000.0	0.200		5.68	07/03/2008		
SPK1		1116143	WATER	5460		1000.0	0.200	78.4		07/03/2008		
ESMP	R2844797	1114379	SOIL/SEDIME	37.8		1.0	20.0			07/03/2008		ASPB
ESMP	R2844803	1114419	WATER	1810		1000.0	0.200			07/03/2008		ASPB
LDUP		1116144	WATER	1820		1000.0	0.200		0.35	07/03/2008		
SPK1		1116145	WATER	3680		1000.0	0.200	93.4		07/03/2008		
ESMP	R2844803	1114420	WATER	1710		1000.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	1720		1000.0	0.200			07/03/2008	QC	ASPB
LDUP		1116146	WATER	1740		1000.0	0.200		1.35	07/03/2008		
SPK1		1116147	WATER	3690		1000.0	0.200	98.6		07/03/2008		
ESMP	R2844803	1114756	WATER	2240		400.0	0.200			07/03/2008		ASPB
ESMP	R2844803	1114758	WATER	0.0250		1.0	0.200			07/03/2008		ASPB

Records printed: 17

Run #: 163515
Analyte: NITRATE 9056 NITRATE NITROGEN (NO3) AS N BY ION CHROM
Printed: 07/10/08 08:00

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		1116121	SOIL/SEDIME	0.390		1.0	5.00			07/03/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	4.32		1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	0.640		1.0	5.00			07/03/2008		ASPB
ESMP	R2844797	1114382	SOIL/SEDIME	0.880		1.0	5.00			07/03/2008		ASPB
ESMP	R2844803	1114756	WATER	37.0		40.0	0.0500			07/03/2008		ASPB
CHK5		1116122	WATER	3.65		1.0	0.0500	101.4		07/03/2008		
BLK4		1116123	WATER	0.0500	U	1.0	0.0500			07/03/2008		
SPKB		1116124	WATER	0.959		1.0	0.0500	95.9		07/03/2008		
ESMP	R2844803	1114758	WATER	0.0170		1.0	0.0500			07/03/2008		ASPB

Records printed: 9

07-07-08 Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.s	CCV	146	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	147	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	148	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1114419	1	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114419 DUP	2	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114419 SPK	3	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114420	4	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114421	5	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114421 DUP	6	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1114421 SPK	7	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1113696	8	1.0	1000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.s	1113258	9	1.0	1000.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.s	1113262	10	1.0	10.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.s	1112363	11	1.0	400.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.s	1112365	12	1.0	40.0	1.0	100.0	0	1	1	EXTRACTION - S	
Columbia-no dilution.s	1111897	13	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1111898	14	1.0	10.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	CCV	15	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	16	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1111899	17	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1111983	18	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1111983 DUP	19	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1111983 SPK	20	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1111984	21	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1111985	22	1.0	10.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1112871	23	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1112872	24	1.0	1000.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1112874	25	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1112874 DUP	26	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1112874 SPK	27	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1112874	28	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.s	1112874 DUP	29	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.s	1112874 SPK	30	1.0	4000.0	1.0	100.0	0	1	1	C	
Columbia-no dilution.s	METHOD BLANK	31	1.0	1.0	1.0	100.0	0	1	1	06/26/2008	
Columbia-no dilution.s	METHOD BLANK	32	1.0	1.0	1.0	100.0	0	1	1	06/30/2008	
Columbia-no dilution.s	CCV	33	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	34	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	35	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	METHOD BLANK	36	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114366	37	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114376	38	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114379	39	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114380	40	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114380 DUP	41	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114380 SPK	42	1.0	1.0	1.0	100.0	0	1	1	EXTRACTION - CNNS	
Columbia-no dilution.s	1114382	43	1.0	1.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	EB070208GWI	44	1.0	1.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	M-65B	78	1.0	10.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	M-65B	79	1.0	40.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	M-65B	80	1.0	100.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	M-65B	81	1.0	400.0	1.0	100.0	0	1	1	CNNS	
Columbia-no dilution.s	CCV	82	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	83	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1114737	84	1.0	10.0	1.0	100.0	0	1	1	NN	

Analyst: C. Woods
Pipets Mine
Lucy

Worklists updated

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.s	*1114737 DUP*	85	1.0	10.0	1.0	100.0	0	1	1	*NN*	
Columbia-no dilution.s	*1114737 SPK*	86	1.0	10.0	1.0	100.0	0	1	1	*NN*	
Columbia-no dilution.s	*CCV*	87	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	*CCB*	88	1.0	1.0	1.0	100.0	0	1	1		

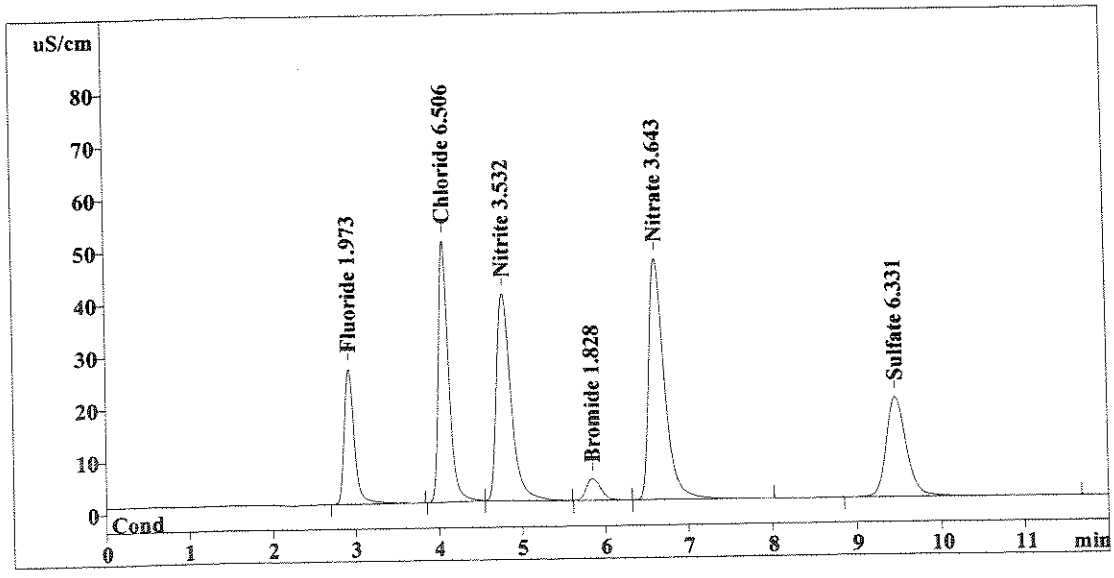
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:10
Printed by:	User
Ident:	CCV
Analysis from:	7/3/2008 10:10:04
File:	s7031010.chw

Last save: 7/3/2008 10:22:01

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37819
SAMPLE:	
Vial number:	146
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	220.339	1.973	Fluoride
2	4.06	424.061	6.506	Chloride
3	4.78	480.583	3.532	Nitrite
4	5.85	51.000	1.828	Bromide
5	6.62	603.110	3.643	Nitrate
6	9.46	315.082	6.331	Sulfate
6	12.00	2094.174	23.813	

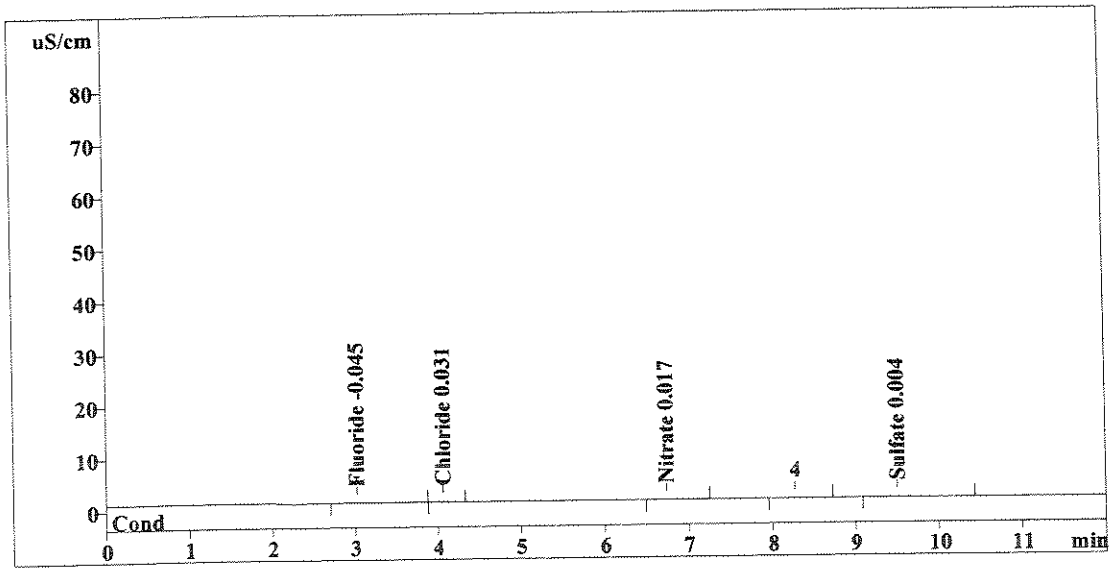
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:23	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/3/2008 10:24:10	
File:	s7031024.chw	Last save: 7/3/2008 10:36:07
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37820	
SAMPLE:		
Vial number:	147	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



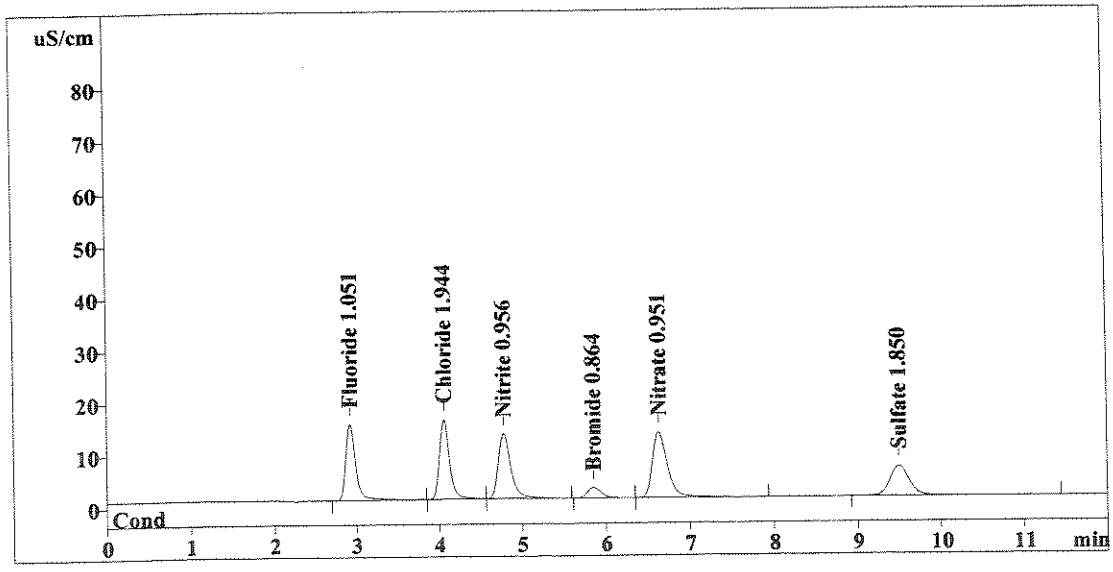
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.01	0.590	OK	-0.045	Fluoride
2	4.06	0.496		0.031	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.73	0.128		0.017	Nitrate
6	9.50	1.276		0.004	Sulfate
6	12.00	2.490		0.097	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:45	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/3/2008 10:38:16	
File:	s7031038.chw	Last save: 7/3/2008 10:50:12
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37821	
SAMPLE:		
Vial number:	148	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	119.910	OK	1.051	Fluoride
2	4.06	125.616	↓	1.944	Chloride
3	4.78	130.622	↓	0.956	Nitrite
4	5.85	23.742	OUT LOW	0.864	Bromide
5	6.63	155.370	OK	0.951	Nitrate
6	9.50	92.808	↓	1.850	Sulfate
6	12.00	648.068	CMT 7/7/08	7.615	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

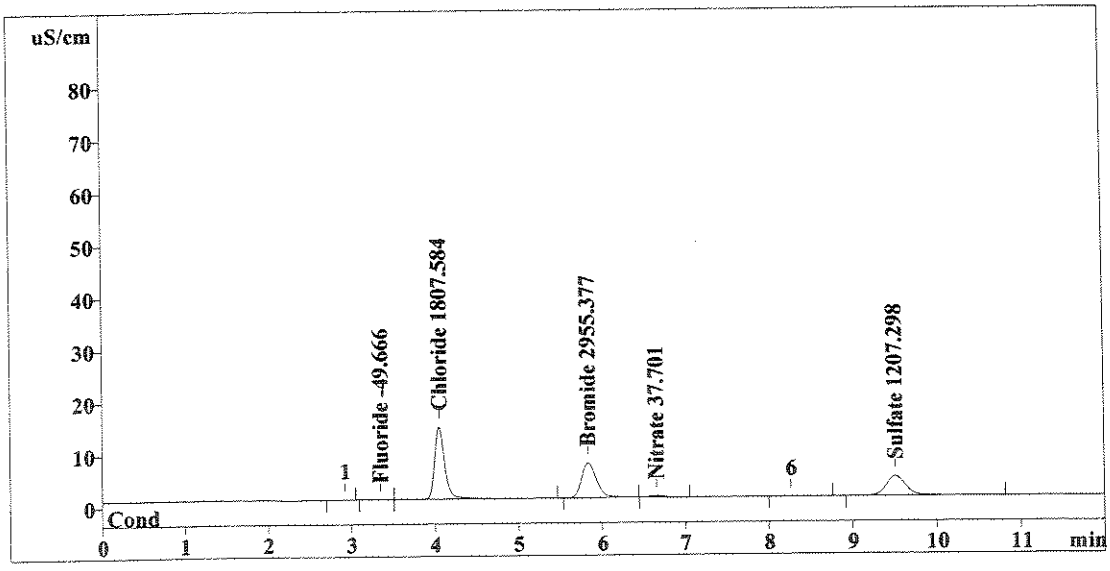
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:49
Printed by:	User
Ident:	1114419
Analysis from:	7/3/2008 11:17:40
File:	s7031117.chw

Last save: 7/3/2008 11:29:37

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37822
SAMPLE:	CS
Vial number:	1
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.058		-49.666	Fluoride
2	4.05	116.712	ok	1807.584	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.83	82.876		2955.377	Bromide
5	6.65	3.542		37.701	Nitrate
6	9.51	60.951	ok	1207.298	Sulfate
6	12.00	264.138		6057.627	

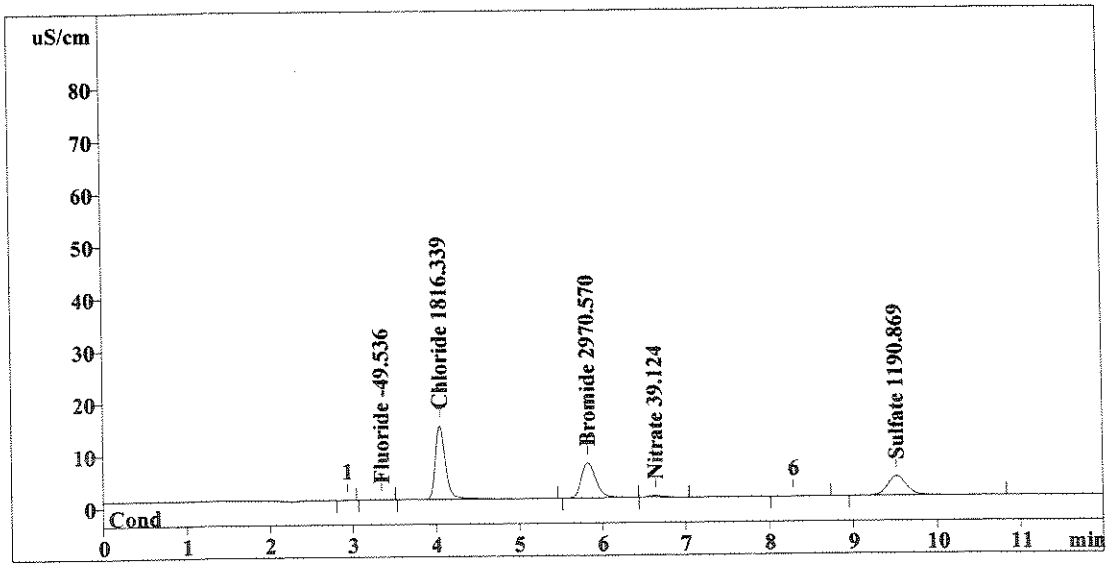
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:41	
Printed by:	User	
Ident:	1114419 DUP	
Analysis from:	7/3/2008 11:31:47	
File:	s7031131.chw	Last save: 7/3/2008 11:43:43
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37823	
SAMPLE:	CS	
Vial number:	2	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.072		-49.536	Fluoride
2	4.05	117.284	OK	1816.339	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.83	83.306		2970.570	Bromide
5	6.64	3.778		39.124	Nitrate
6	9.52	60.136	OK	1190.869	Sulfate
6	12.00	264.576		6066.437	

CM 7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

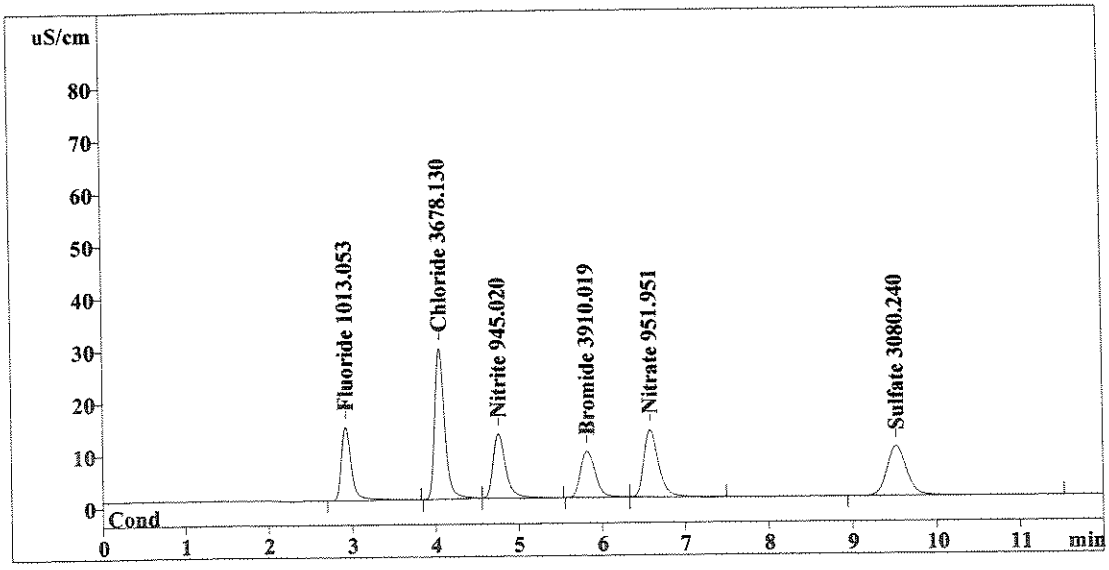
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:52
Printed by:	User
Ident:	1114419 SPK
Analysis from:	7/3/2008 11:45:53
File:	s7031145.chw

Last save: 7/3/2008 11:57:49

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37824
SAMPLE:	CS
Vial number:	3
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	115.771		1013.053	Fluoride
2	4.05	239.063	ox	3678.130	Chloride
3	4.76	129.125		945.020	Nitrite
4	5.82	109.866		3910.019	Bromide
5	6.58	155.603		951.951	Nitrate
6	9.52	153.848	ox	3080.240	Sulfate
6	12.00	903.276		13578.414	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

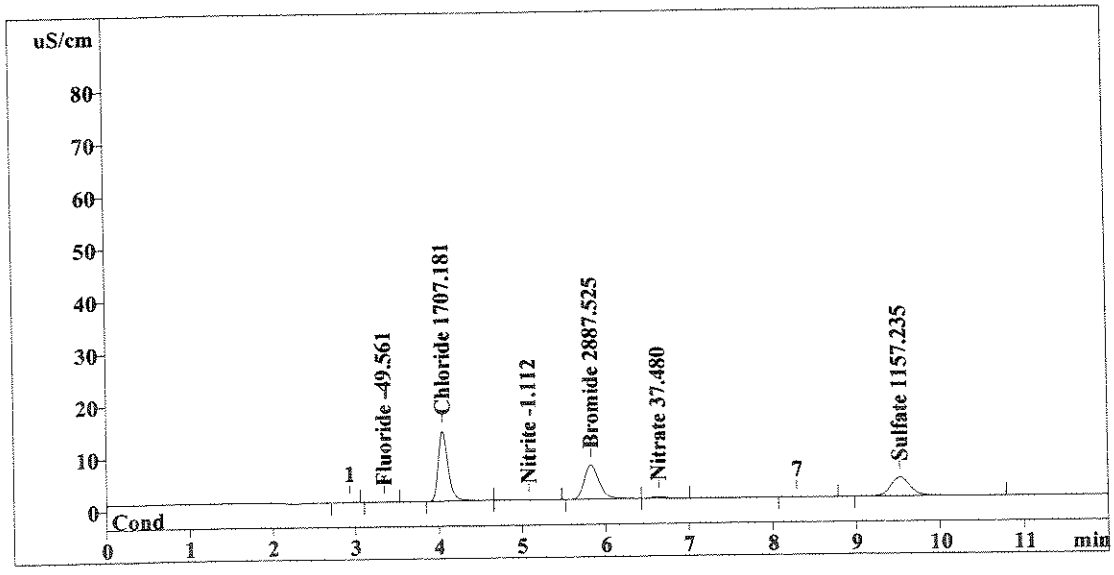
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:55
Printed by:	User
Ident:	1114420
Analysis from:	7/3/2008 11:59:59
File:	s7031159.chw

Last save: 7/3/2008 12:11:56

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37825
SAMPLE:	CS
Vial number:	4
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

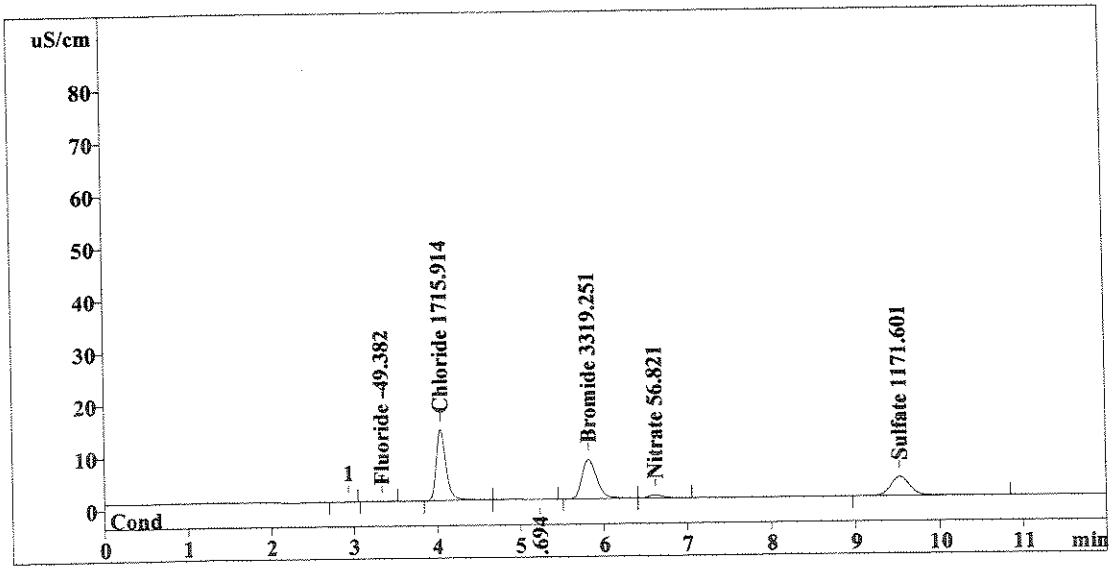
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.069		-49.561	Fluoride
2	4.05	110.144		1707.181	Chloride
3	5.09	0.574		-1.112	Nitrite
4	5.83	80.958		2887.525	Bromide
5	6.64	3.505		37.480	Nitrate
6	9.53	58.468		1157.235	Sulfate
6	12.00	253.718		5840.094	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:21:58	
Printed by:	User	
Ident:	1114421	
Analysis from:	7/3/2008 12:14:05	
File:	s7031214.chw	Last save: 7/3/2008 12:26:01
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37826	
SAMPLE:	CS	
Vial number:	5	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.34	0.089		-49.382	Fluoride
2	4.04	110.716	OK	1715.914	Chloride
3	5.23	0.359		-2.694	Nitrite
4	5.82	93.164		3319.251	Bromide
5	6.62	6.722		56.821	Nitrate
6	9.53	59.180	OK	1171.601	Sulfate
6	12.00	270.229		6315.663	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

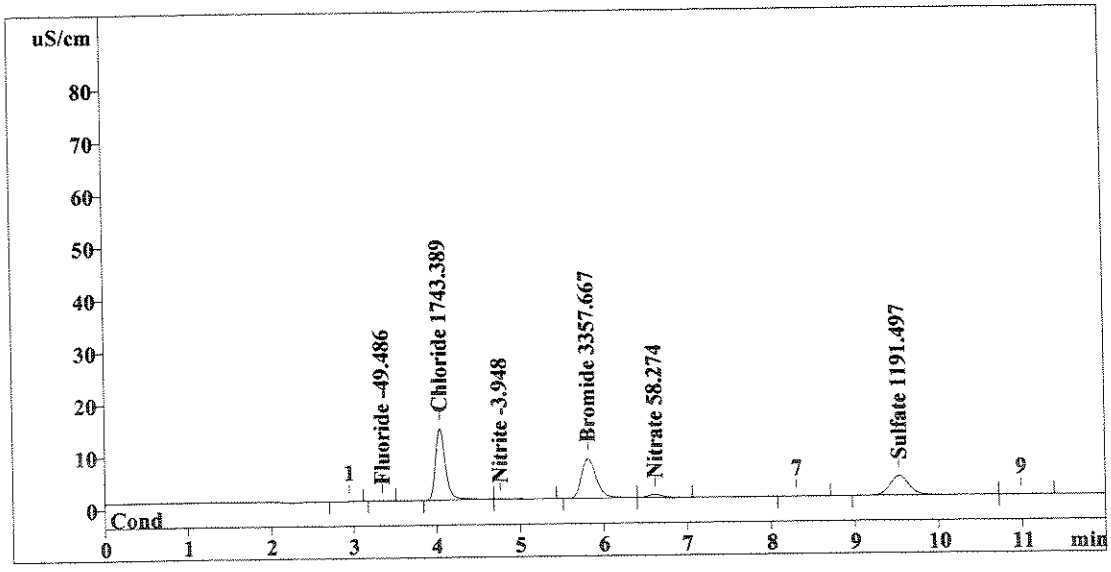
Method 300.0/9056

Report date:	7/7/2008 12:22:01
Printed by:	User
Ident:	1114421 DUP
Analysis from:	7/3/2008 12:28:11
File:	s7031228.chw

Last save: 7/3/2008 12:40:07

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37827
SAMPLE:	CS
Vial number:	6
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	0.077		-49.486	Fluoride
2	4.05	112.513	OK	1743.389	Chloride
3	4.76	0.189		-3.948	Nitrite
4	5.82	94.250		3357.667	Bromide
5	6.62	6.963		58.274	Nitrate
6	9.53	60.167	OK	1191.497	Sulfate
6	12.00	274.159		6404.261	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

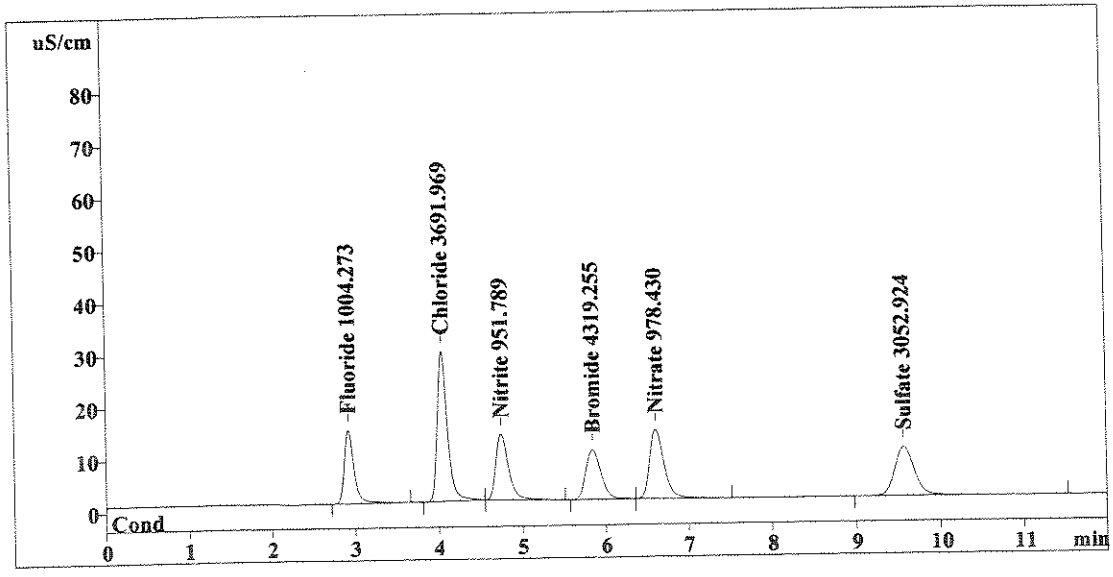
Method 300.0/9056

Report date:	7/7/2008 12:22:05
Printed by:	User
Ident:	1114421 SPK
Analysis from:	7/3/2008 12:42:17
File:	s7031242.chw

Last save: 7/3/2008 12:54:13

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37828
SAMPLE:	CS
Vial number:	7
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	114.815		1004.273	Fluoride
2	4.05	239.969	OK	3691.969	Chloride
3	4.75	130.045		951.789	Nitrite
4	5.85	121.436		4319.255	Bromide
5	6.61	160.007		978.430	Nitrate
6	9.57	152.493	OK	3052.924	Sulfate
6	12.00	918.764		13998.641	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

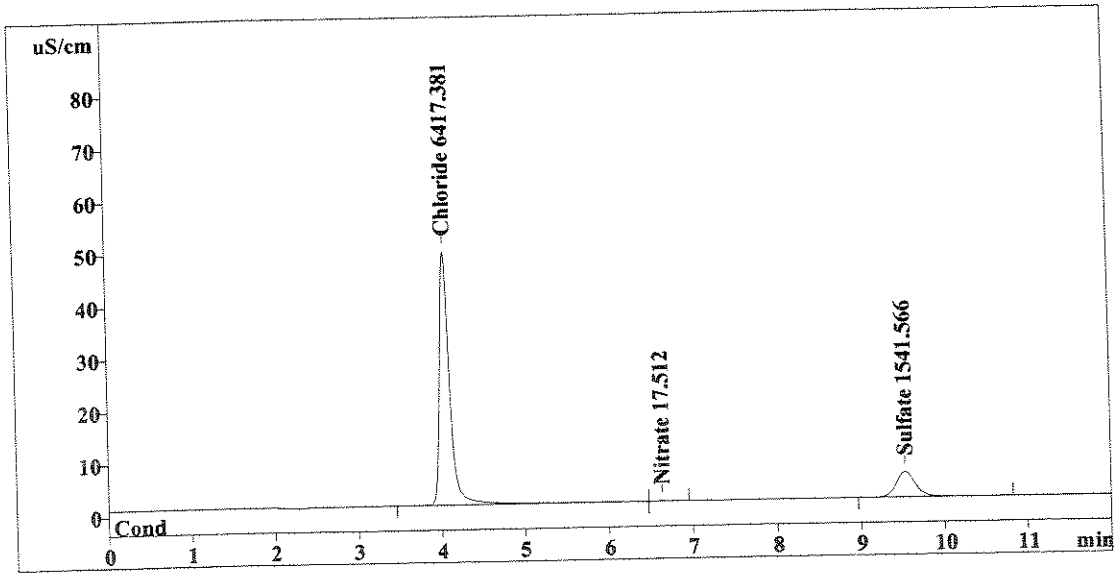
Method 300.0/9056

Report date:	7/7/2008 12:22:09
Printed by:	User
Ident:	1113696
Analysis from:	7/3/2008 12:56:23
File:	s7031256.chw

Last save: 7/3/2008 13:08:19

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37829
SAMPLE:	C
Vial number:	8
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.05	418.237	OK	6417.381	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.64	0.184		17.512	Nitrate
6	9.53	77.530		1541.566	Sulfate
6	12.00	495.951		7976.459	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

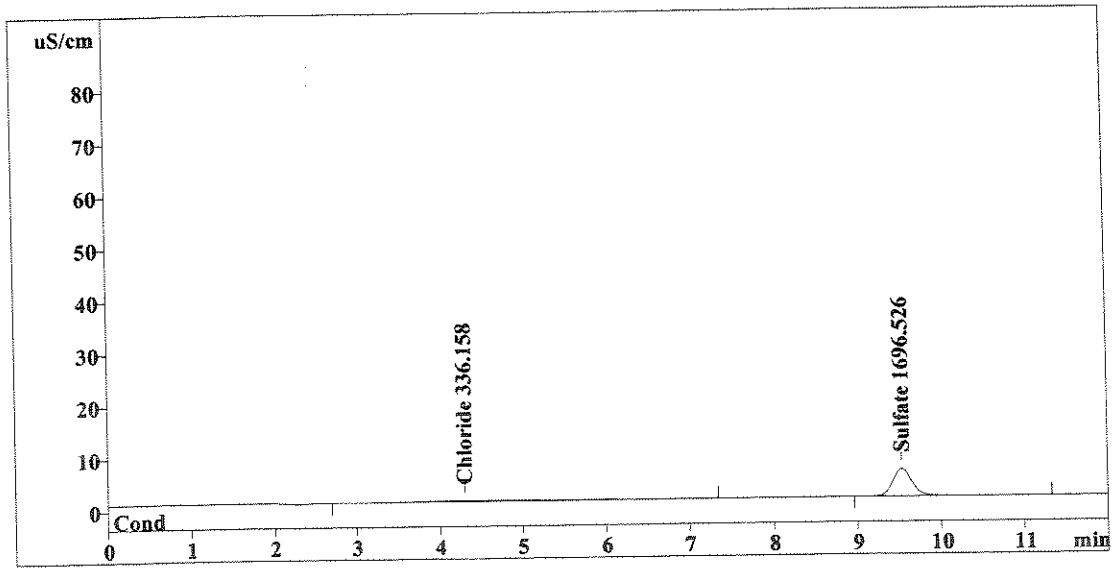
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:22:12
Printed by:	User
Ident:	1113258
Analysis from:	7/3/2008 13:10:29
File:	s7031310.chw

Last save: 7/3/2008 13:22:25

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37830
SAMPLE:	EXTRACTION - S
Vial number:	9
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



25g → 25mL

Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.29	20.466	336.158	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.53	85.216	1696.526	Sulfate
6	12.00	105.683	2032.684	

OK 7/7/08

This report has been created by IC Net
METROHM LTD

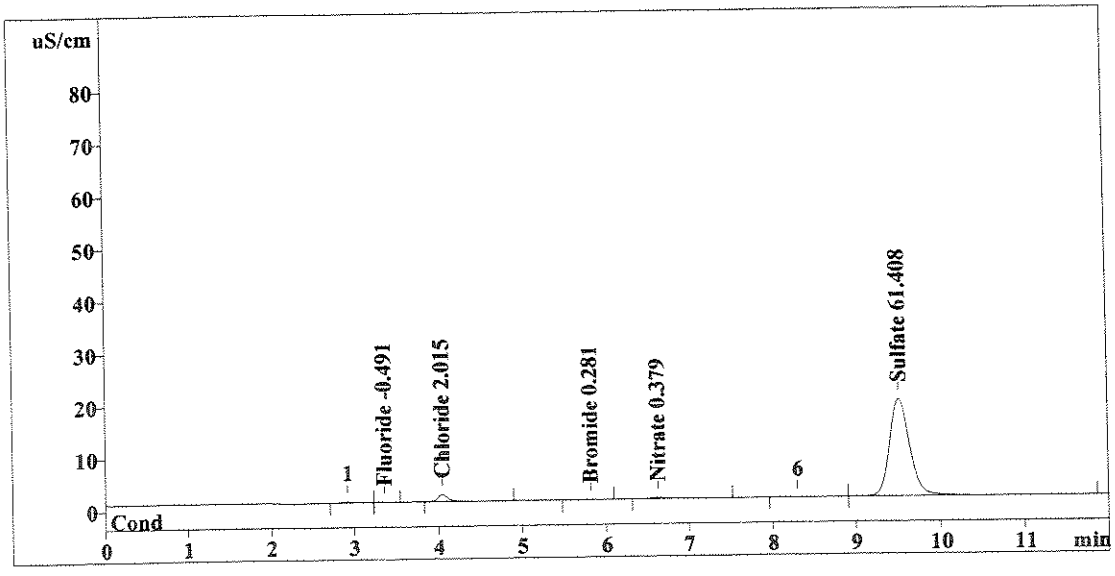
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:22:15
Printed by:	User
Ident:	1113262
Analysis from:	7/3/2008 13:24:35
File:	s7031324.chw

Last save: 7/3/2008 13:36:31

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37831
SAMPLE:	EXTRACTION - S
Vial number:	10
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.115		-0.491	Fluoride
2	4.05	11.657		2.015	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.81	0.115		0.281	Bromide
5	6.63	3.579		0.379	Nitrate
6	9.52	305.650	OK	61.408	Sulfate
6	12.00	321.118	CM 7/7/08	64.574	

25g → 250mL

This report has been created by IC Net
METROHM LTD

repeat needs extraction QC

Ion Chromatography Analytical Report — Method 300.0/9056

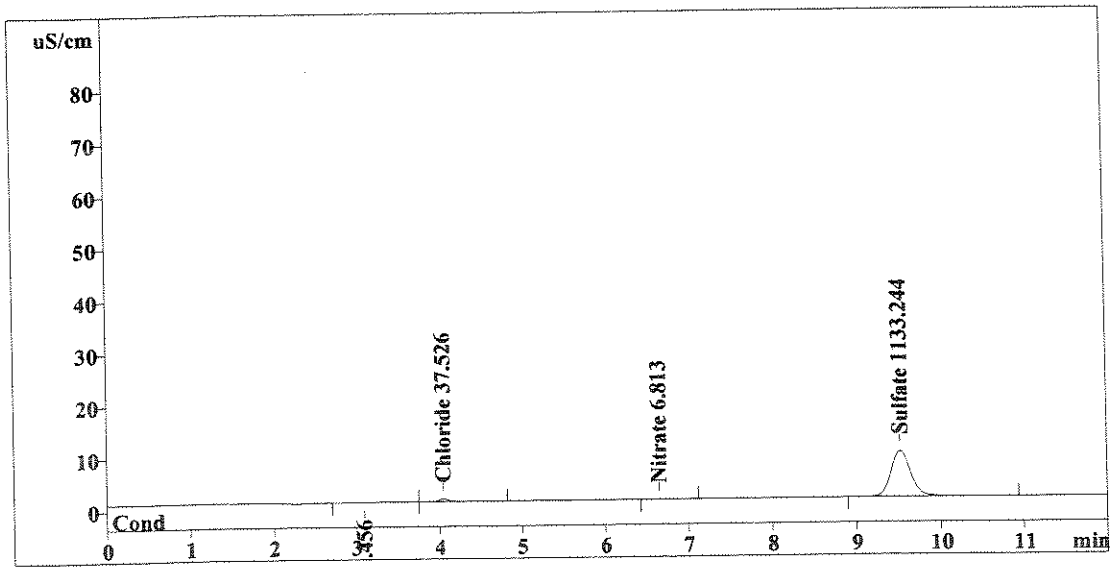
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:22:18
Printed by:	User
Ident:	1112363
Analysis from:	7/3/2008 13:38:41
File:	s7031338.chw

Last save: 7/3/2008 13:50:37

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37832
SAMPLE:	EXTRACTION - S
Vial number:	11
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.12	0.442		-18.456	Fluoride
2	4.05	4.615		37.526	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.64	0.104		6.813	Nitrate
6	9.52	141.590	OK	1133.244	Sulfate
6	12.00	146.750		1196.039	

25 → 0.5 ml

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

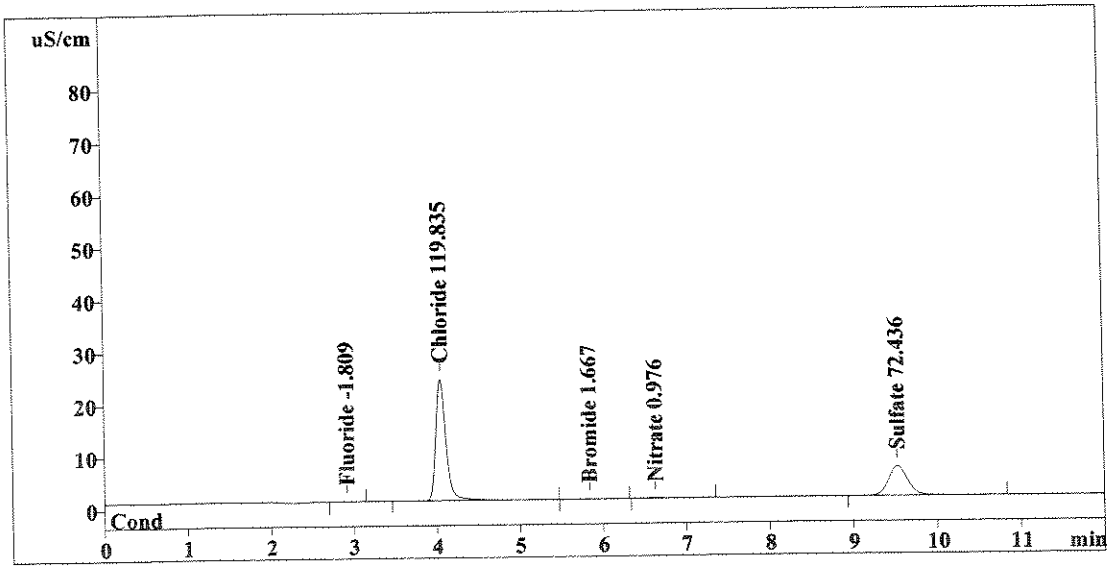
Method 300.0/9056

Report date:	7/7/2008 12:22:21
Printed by:	User
Ident:	1112365
Analysis from:	7/3/2008 13:52:47
File:	s7031352.chw

Last save: 7/3/2008 14:04:43

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37833
SAMPLE:	EXTRACTION - S
Vial number:	12
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.542	-1.809	Fluoride
2	4.05	194.438	119.835	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	0.500	1.667	Bromide
5	6.63	1.331	0.976	Nitrate
6	9.53	90.889	72.436	Sulfate
6	12.00	287.700	196.723	

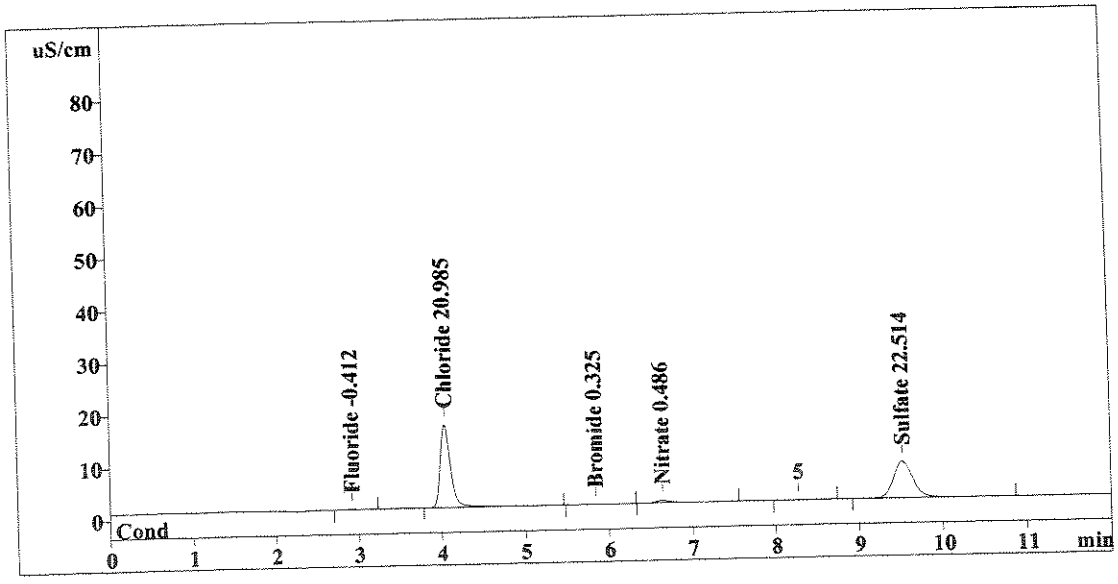
25g → 250mL

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

Report date:	7/7/2008 12:22:25
Printed by:	User
Ident:	1111897
Analysis from:	7/3/2008 14:06:52
File:	s7031406.chw
	Last save: 7/3/2008 14:18:49
Method:	06-10-08CAL.mtw
	Last save: 7/3/2008 10:07:11
Run operator:	User
Analysis number:	37834
SAMPLE:	CS
Vial number:	13
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.982		-0.412	Fluoride
2	4.05	135.742	DK	20.985	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	0.240		0.325	Bromide
5	6.64	5.357		0.486	Nitrate
6	9.52	112.738	DK	22.514	Sulfate
6	12.00	255.059		44.722	

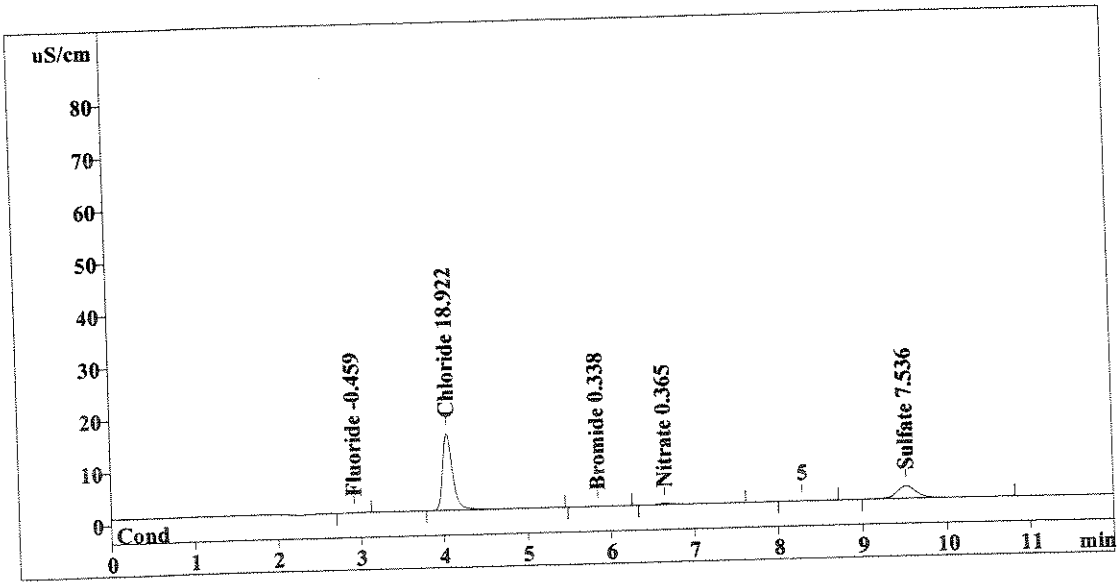
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

Report date:	7/7/2008 12:22:29
Printed by:	User
Ident:	1111898
Analysis from:	7/3/2008 14:20:58
File:	s7031420.chw
	Last save: 7/3/2008 14:32:54
Method:	06-10-08CAL.mtw
	Last save: 7/3/2008 10:07:11
Run operator:	User
Analysis number:	37835
SAMPLE:	CS
Vial number:	14
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.463	OK	-0.459	Fluoride
2	4.05	122.249		18.922	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	0.277		0.338	Bromide
5	6.65	3.335		0.365	Nitrate
6	9.52	38.450	OK	7.536	Sulfate
6	12.00	164.773		27.621	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

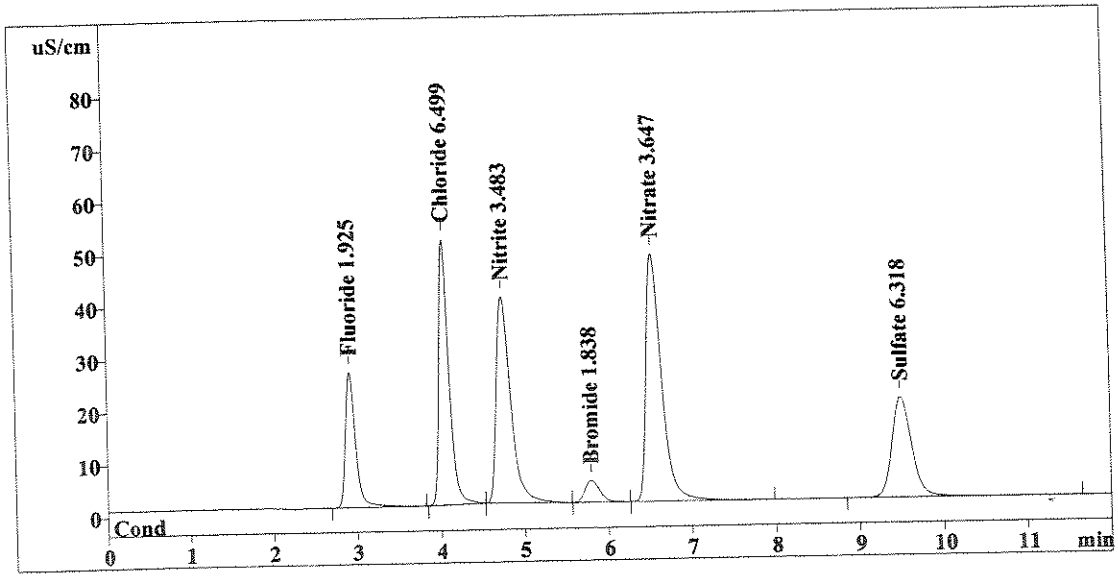
Method 300.0/9056

Report date: 7/7/2008 12:22:40
Printed by: User
Ident: CCV
Analysis from: 7/3/2008 14:35:04
File: s7031435.chw

Last save: 7/3/2008 14:47:00

Method: 06-10-08CAL.mtw
Run operator: User
Analysis number: 37836
SAMPLE:
Vial number: 15
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	215.111		1.925	Fluoride
2	4.05	423.587		6.499	Chloride
3	4.75	474.006		3.483	Nitrite
4	5.79	51.289		1.838	Bromide
5	6.56	603.861		3.647	Nitrate
6	9.50	314.420		6.318	Sulfate
6	12.00	2082.273		23.711	

OK

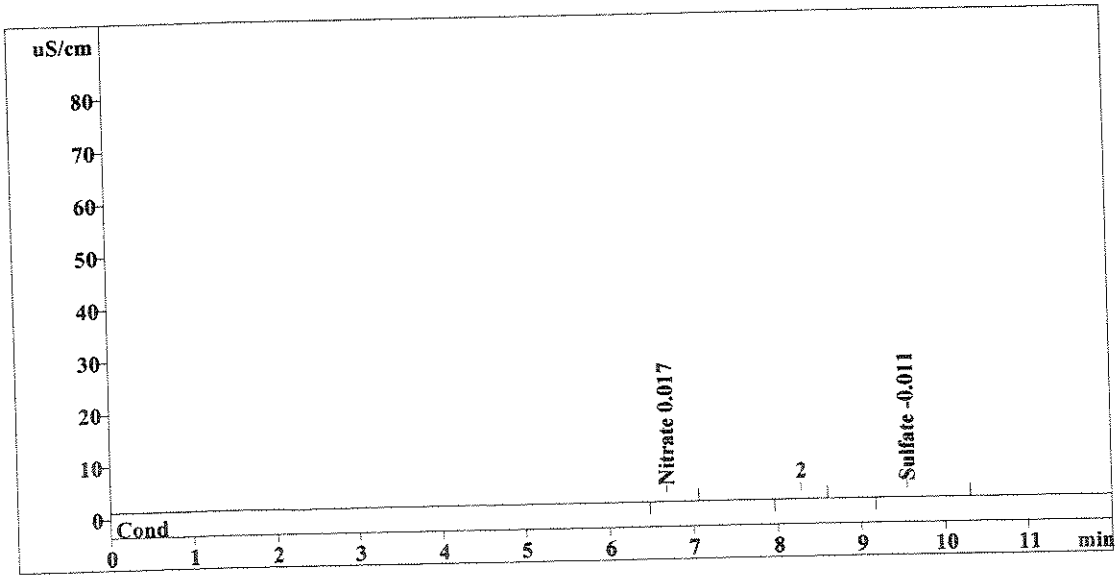
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

Report date:	7/7/2008 12:22:44
Printed by:	User
Ident:	CCB
Analysis from:	7/3/2008 14:49:11
File:	s7031449.chw
	Last save: 7/3/2008 15:01:07
Method:	06-10-08CAL.mtw
	Last save: 7/3/2008 10:07:11
Run operator:	User
Analysis number:	37837
SAMPLE:	
Vial number:	16
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000	OK	0.000	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.68	0.066		0.017	Nitrate
6	9.55	0.522		-0.011	Sulfate
6	12.00	0.588	7/7/08	0.028	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

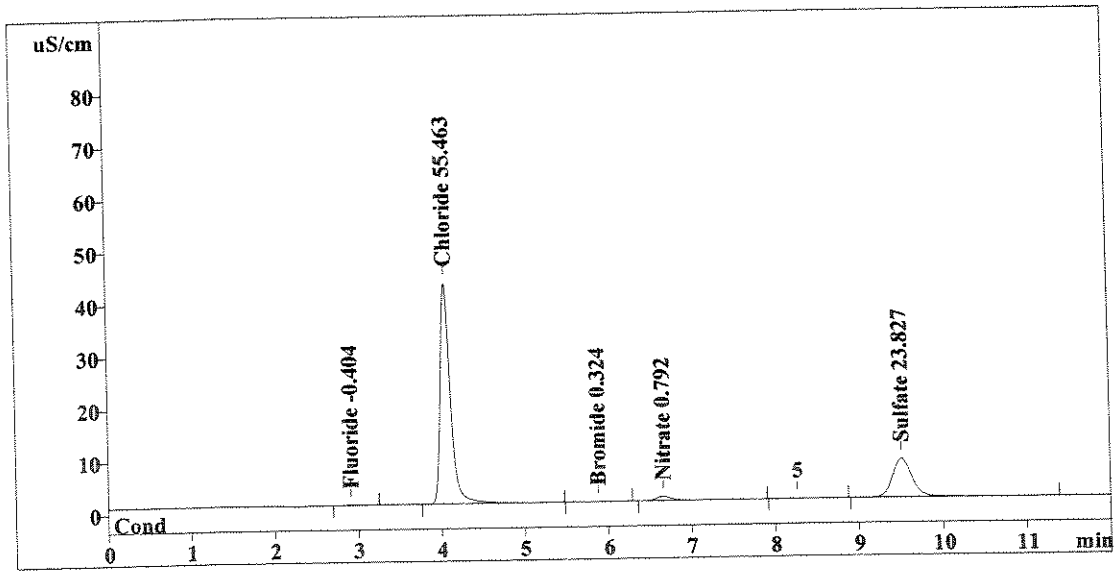
Method 300.0/9056

Report date:	7/7/2008 12:22:47
Printed by:	User
Ident:	1111899
Analysis from:	7/3/2008 15:05:56
File:	s7031505.chw

Last save: 7/3/2008 15:17:52

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37838
SAMPLE:	S
Vial number:	17
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	1.064	-0.404	Fluoride
2	4.05	361.258	55.463	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	0.238	0.324	Bromide
5	6.66	10.444	0.792	Nitrate
6	9.51	119.251	23.827	Sulfate
6	12.00	492.255	80.810	

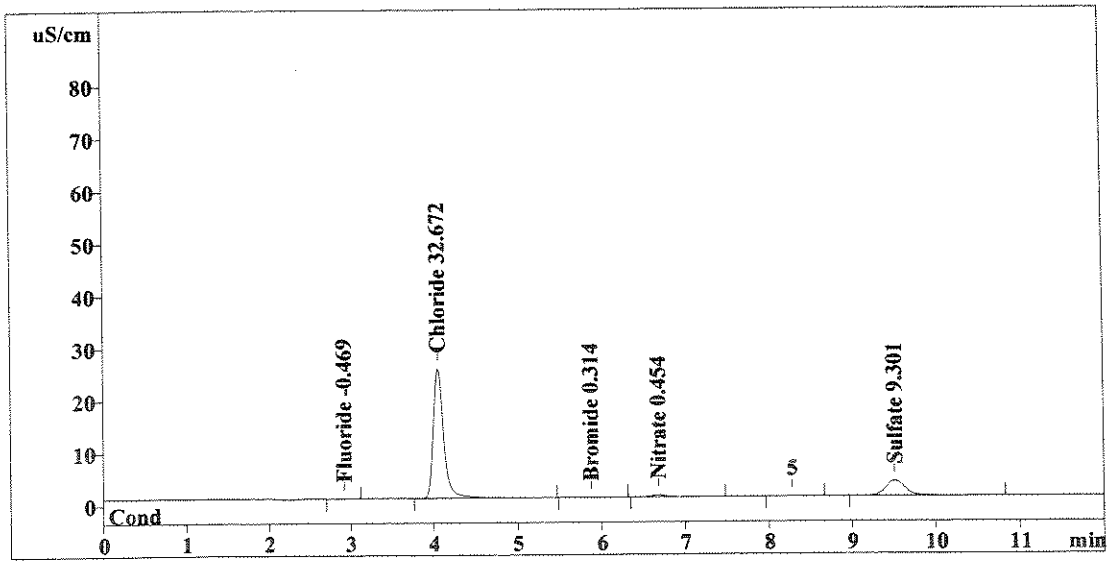
OK
7-7-08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:22:50	
Printed by:	User	
Ident:	1111983	
Analysis from:	7/3/2008 15:20:02	
File:	s7031520.chw	Last save: 7/3/2008 15:31:58
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37839	
SAMPLE:	S	
Vial number:	18	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.361		-0.469	Fluoride
2	4.05	212.187		32.672	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.87	0.210		0.314	Bromide
5	6.67	4.820		0.454	Nitrate
6	9.51	47.201	OK	9.301	Sulfate
6	12.00	264.780	7/7/08	43.210	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

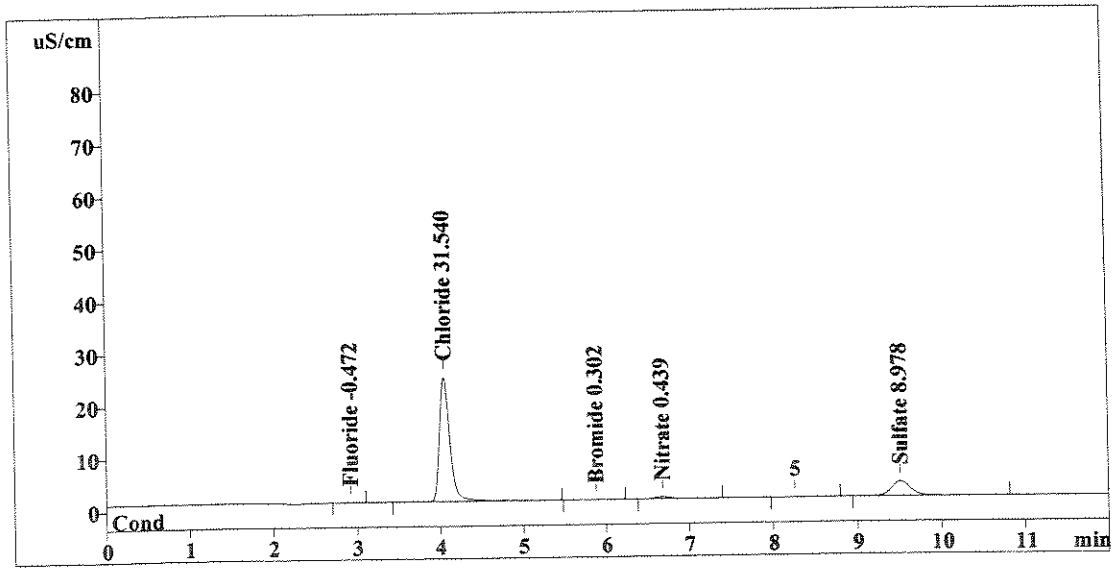
Method 300.0/9056

Report date:	7/7/2008 12:22:55
Printed by:	User
Ident:	1111983 DUP
Analysis from:	7/3/2008 15:34:08
File:	s7031534.chw

Last save: 7/3/2008 15:46:04

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37840
SAMPLE:	S
Vial number:	19
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.323		-0.472	Fluoride
2	4.05	204.781		31.540	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.87	0.177		0.302	Bromide
5	6.68	4.570		0.439	Nitrate
6	9.51	45.602	DK	8.978	Sulfate
6	12.00	255.454		41.732	

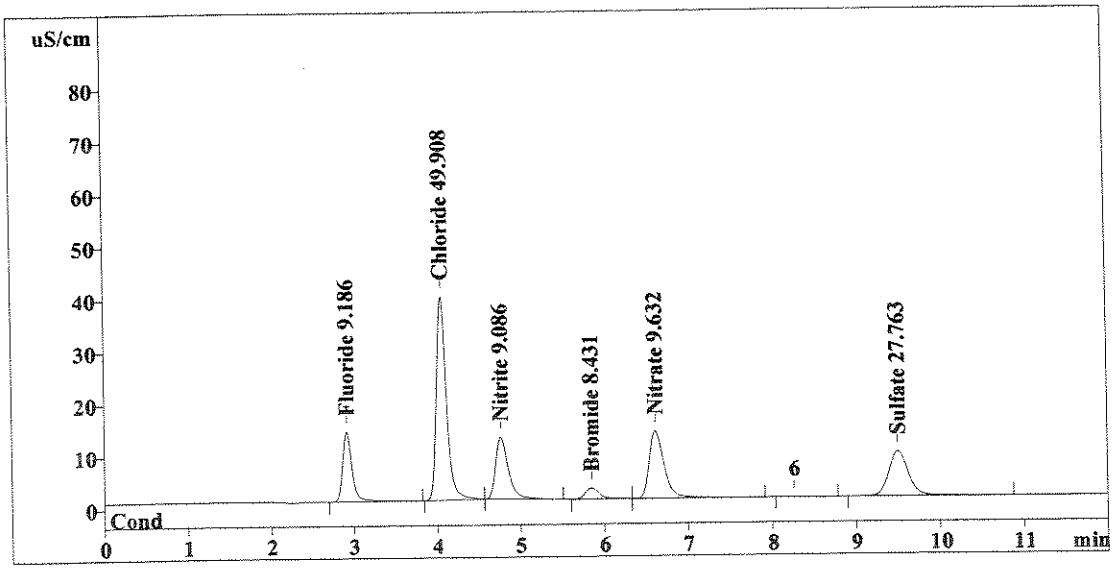
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:22:58	
Printed by:	User	
Ident:	1111983 SPK	
Analysis from:	7/3/2008 15:48:14	
File:	s7031548.chw	Last save: 7/3/2008 16:00:10
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37841	
SAMPLE:	S	
Vial number:	20	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	105.492		9.186	Fluoride
2	4.05	324.924		49.908	Chloride
3	4.77	124.174		9.086	Nitrite
4	5.85	23.157		8.431	Bromide
5	6.62	157.476		9.632	Nitrate
6	9.50	138.774	OK	27.763	Sulfate
6	12.00	873.997	7/7/08	114.006	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

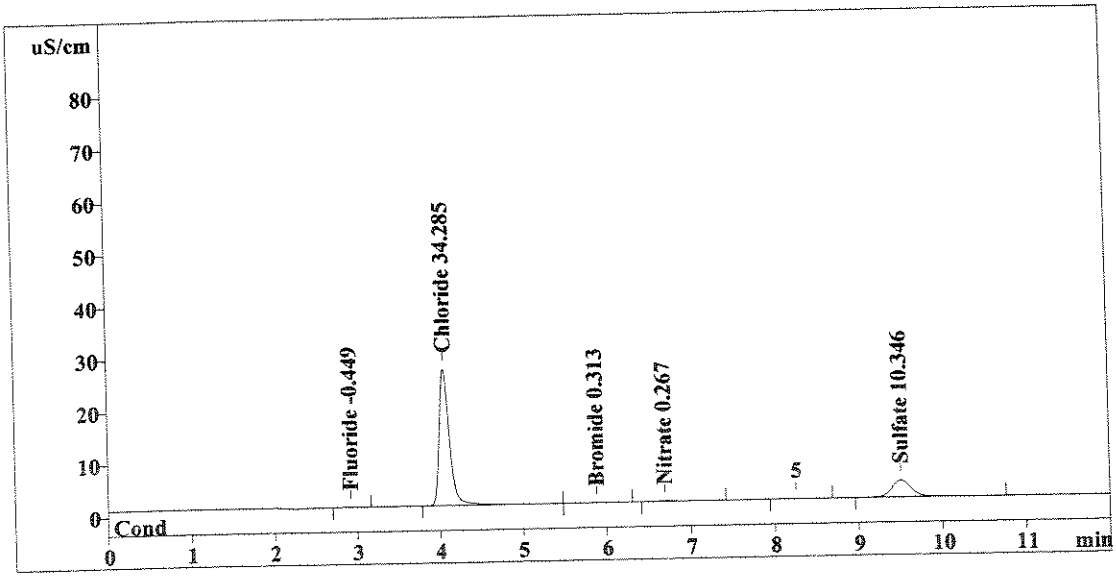
Method 300.0/9056

Report date:	7/7/2008 12:23:01
Printed by:	User
Ident:	1111984
Analysis from:	7/3/2008 16:02:20
File:	s7031602.chw

Last save: 7/3/2008 16:14:16

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37842
SAMPLE:	S
Vial number:	21
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.578	-0.449	Fluoride
2	4.06	222.734	34.285	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.88	0.206	0.313	Bromide
5	6.69	1.705	0.267	Nitrate
6	9.51	52.384	10.346	Sulfate
6	12.00	277.608	45.659	

DK 7/7/08

This report has been created by IC Net
METROHM LTD

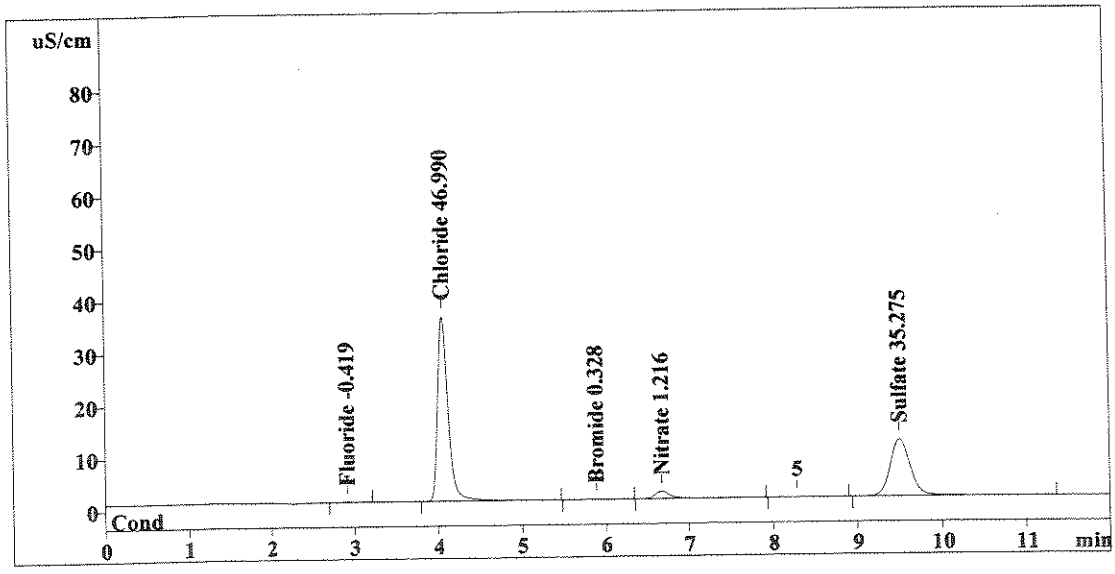
Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:23:04
Printed by:	User
Ident:	1111985
Analysis from:	7/3/2008 16:16:26
File:	s7031616.chw

Last save: 7/3/2008 16:28:22

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37843
SAMPLE:	S
Vial number:	22
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.905		-0.419	Fluoride
2	4.06	305.838		46.990	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	0.250		0.328	Bromide
5	6.67	17.501		1.216	Nitrate
6	9.50	176.031	OK	35.275	Sulfate
6	12.00	500.526		84.229	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

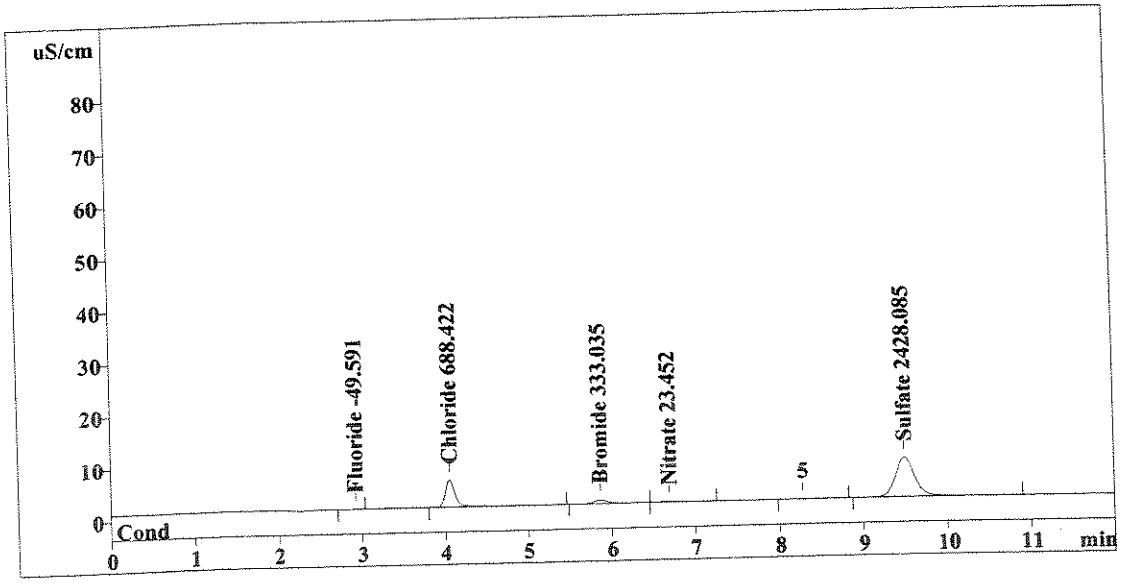
Method 300.0/9056

Report date:	7/7/2008 12:23:08
Printed by:	User
Ident:	1112871
Analysis from:	7/3/2008 16:30:33
File:	s7031630.chw

Last save: 7/3/2008 16:42:29

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37844
SAMPLE:	S
Vial number:	23
Volume:	1.0 µL
Dilution:	1000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

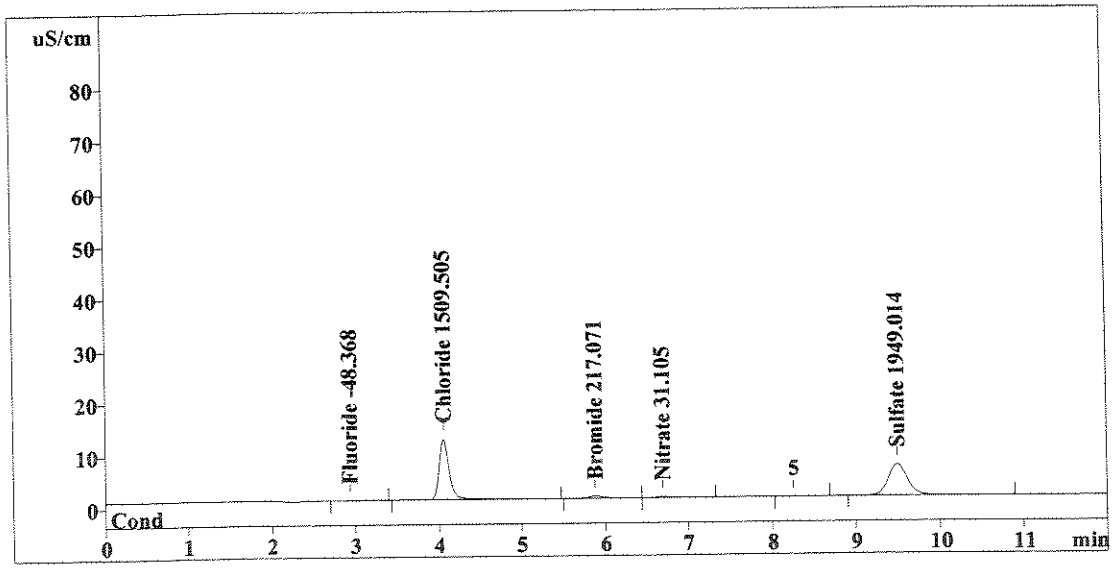
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	0.066		-49.591	Fluoride
2	4.05	43.508		688.422	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.87	8.737		333.035	Bromide
5	6.69	1.172		23.452	Nitrate
6	9.50	121.501	OK	2428.085	Sulfate
6	12.00	174.984	7/7/08	3522.586	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 12:23:11	
Printed by:	User	
Ident:	1112872	
Analysis from:	7/3/2008 16:44:45	
File:	s7031644.chw	Last save: 7/3/2008 16:56:40
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37845	
SAMPLE:	CS	
Vial number:	24	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.94	0.199		-48.368	Fluoride
2	4.06	97.215	OK	1509.505	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.88	5.459		217.071	Bromide
5	6.69	2.444		31.105	Nitrate
6	9.50	97.739	OK	1949.014	Sulfate
6	12.00	203.056		3755.063	

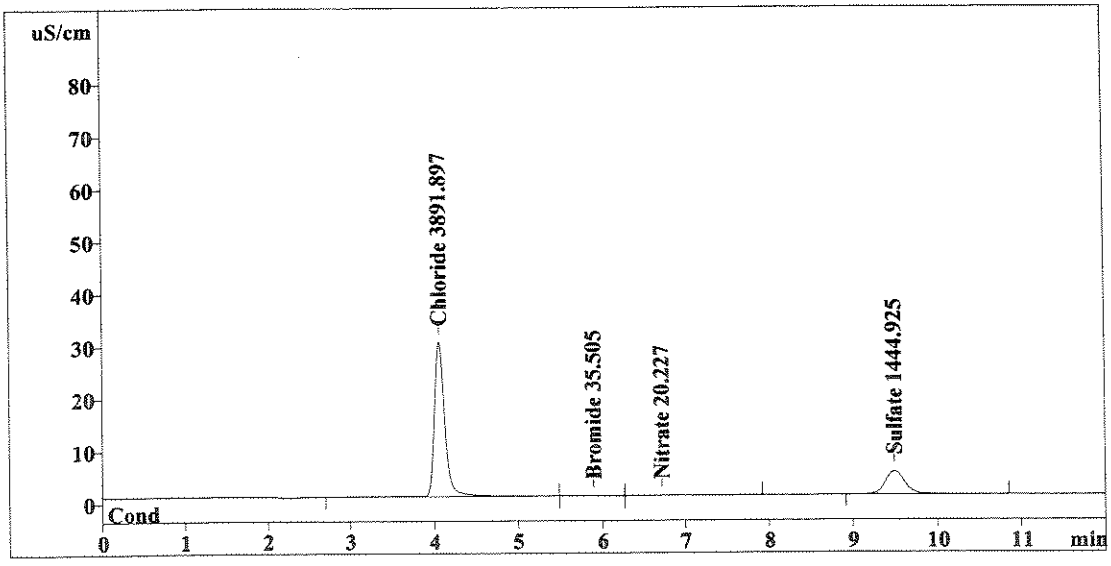
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:06	
Printed by:	User	
Ident:	1112874	
Analysis from:	7/3/2008 16:58:51	
File:	s7031658.CHW	Last save: 7/7/2008 16:34:07
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37846	
SAMPLE:	SC	
Vial number:	25	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

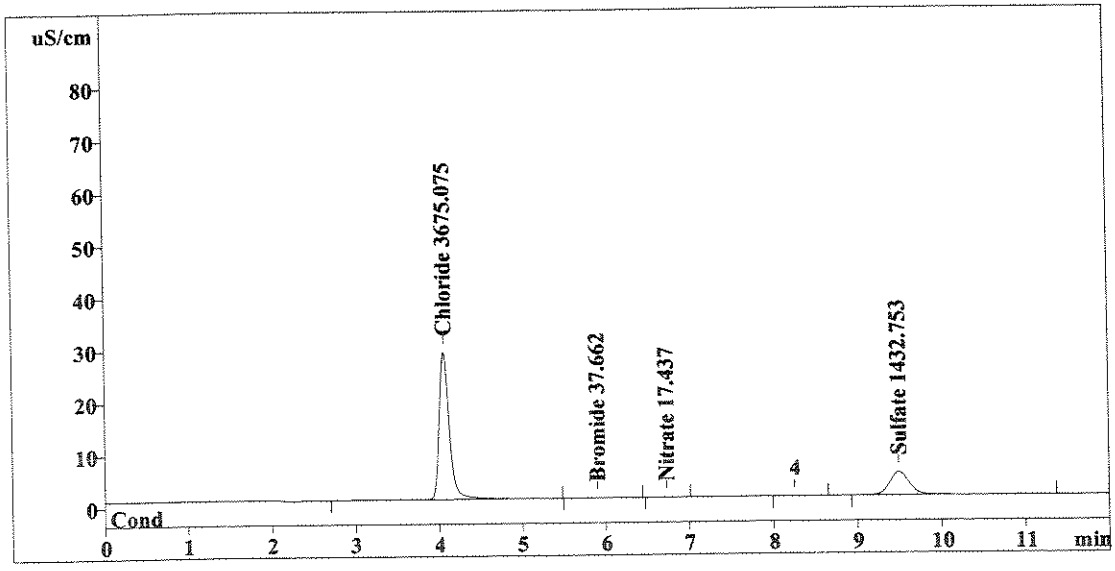
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.06	253.046	OK	3891.897	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	0.326		35.505	Bromide
5	6.72	0.635		20.227	Nitrate
6	9.50	72.737	OK	1444.925	Sulfate
6	12.00	326.743		5392.554	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:07	
Printed by:	User	
Ident:	1112874 DUP	
Analysis from:	7/3/2008 17:12:57	
File:	s7031712.CHW	Last save: 7/7/2008 16:34:08
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37847	
SAMPLE:	Sc	
Vial number:	26	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

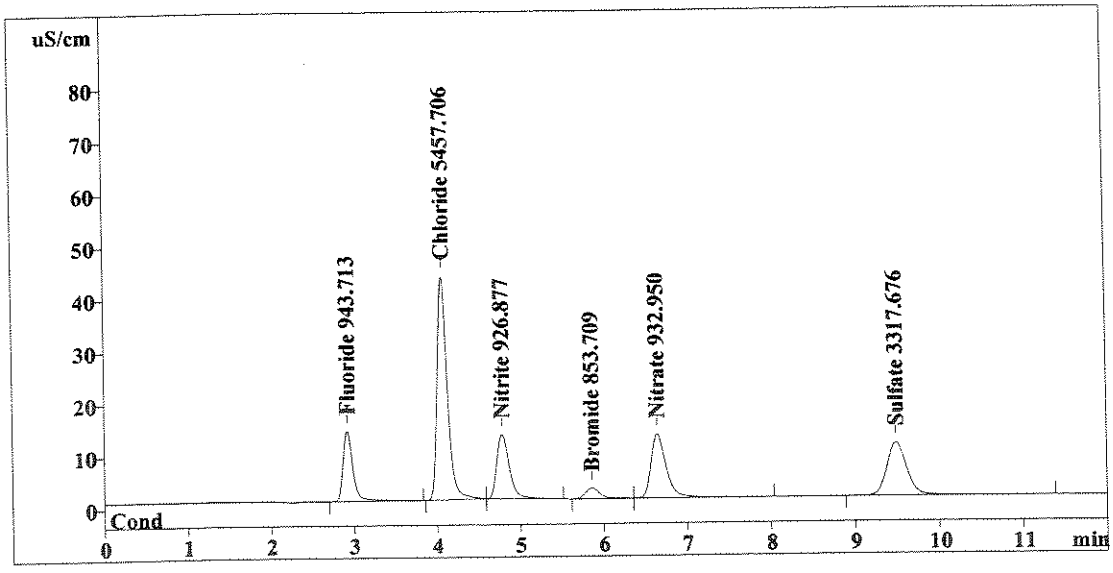
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.06	238.864	OK	3675.075	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.90	0.387		37.662	Bromide
5	6.73	0.171		17.437	Nitrate
6	9.49	72.133	OK	1432.753	Sulfate
6	12.00	311.554		5162.927	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:08	
Printed by:	User	
Ident:	1112874 SPK	
Analysis from:	7/3/2008 17:27:03	
File:	s7031727.CHW	Last save: 7/7/2008 16:34:09
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37848	
SAMPLE:	S	
Vial number:	27	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	



Quantitation method: Custom

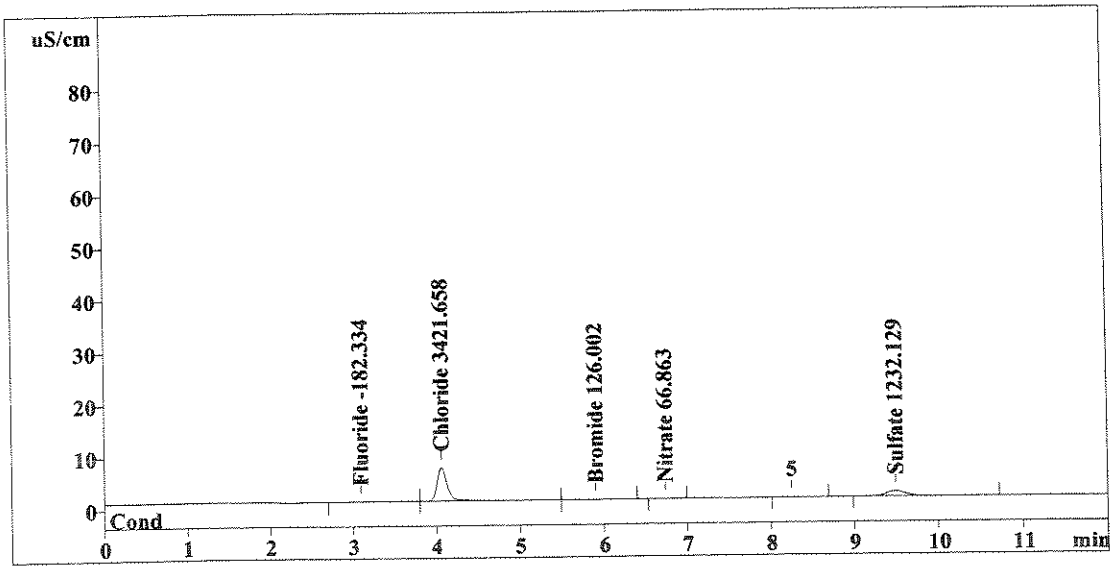
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	108.221		943.713	Fluoride
2	4.06	355.465	OK	5457.706	Chloride
3	4.78	126.660		926.877	Nitrite
4	5.86	23.458		853.709	Bromide
5	6.65	152.443		932.950	Nitrate
6	9.49	165.624	OK	3317.676	Sulfate
6	12.00	931.871		12432.631	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:09	
Printed by:	User	
Ident:	1112874	
Analysis from:	7/3/2008 17:41:09	
File:	s7031741.CHW	Last save: 7/7/2008 16:34:10
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37849	
SAMPLE:	C	
Vial number:	28	
Volume:	1.0 µL	
Dilution:	4000.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.09	0.502		-182.334	Fluoride
2	4.06	54.431	mg/L * 1/1000	3421.658	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.90	0.212		126.002	Bromide
5	6.73	0.051		66.863	Nitrate
6	9.50	16.348		1232.129	Sulfate
6	12.00	71.544		5028.987	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

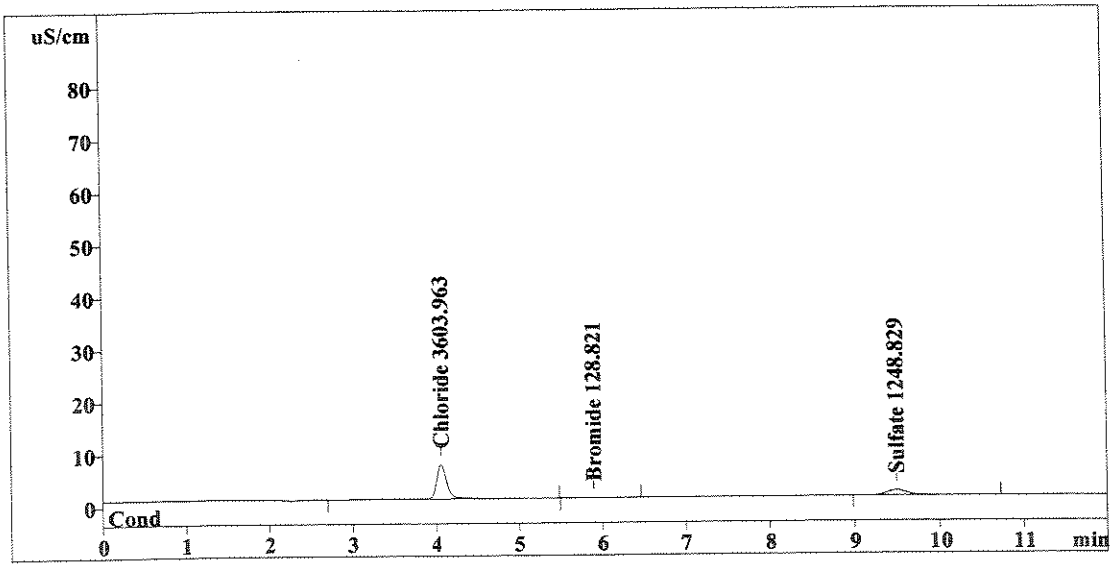
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:10
Printed by:	User
Ident:	1112874 DUP
Analysis from:	7/3/2008 17:58:26
File:	s7031758.CHW

Last save: 7/7/2008 16:34:11

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37850
SAMPLE:	C
Vial number:	29
Volume:	1.0 µL
Dilution:	4000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.06	57.412	3603.963	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.91	0.232	128.821	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.49	16.555	1248.829	Sulfate
6	12.00	74.199	4981.613	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

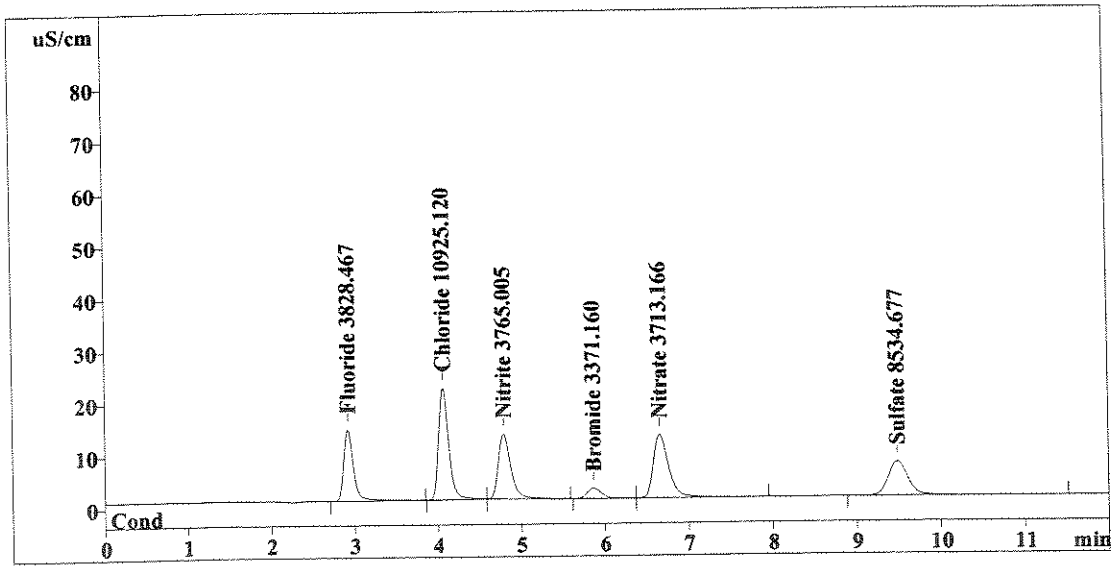
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:11
Printed by:	User
Ident:	1112874 SPK
Analysis from:	7/3/2008 18:12:32
File:	s7031812.CHW

Last save: 7/7/2008 16:34:12

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37851
SAMPLE:	C
Vial number:	30
Volume:	1.0 µL
Dilution:	4000.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	109.681	3828.467	Fluoride
2	4.06	177.130	10925.120	Chloride
3	4.79	128.613	3765.005	Nitrite
4	5.87	23.149	3371.160	Bromide
5	6.66	151.668	3713.166	Nitrate
6	9.49	106.898	8534.677	Sulfate
6	12.00	697.139	34137.594	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

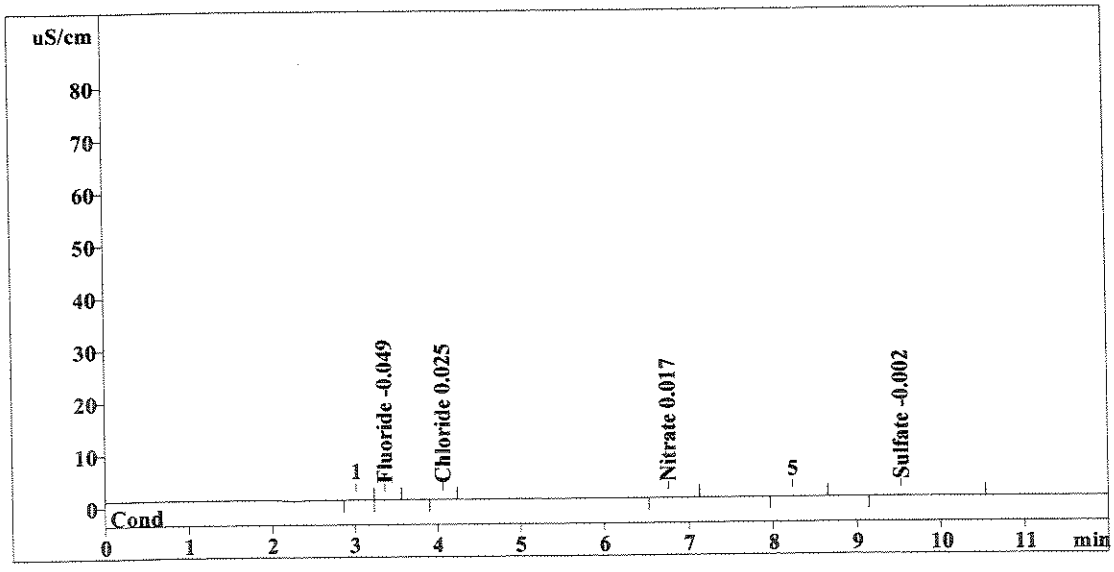
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:12
Printed by:	User
Ident:	METHOD BLANK
Analysis from:	7/3/2008 18:26:38
File:	s7031826.CHW

Last save: 7/7/2008 16:34:13

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37852
SAMPLE:	06/26/2008
Vial number:	31
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.126	OK	-0.049	Fluoride
2	4.06	0.132		0.025	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.76	0.148		0.017	Nitrate
6	9.53	0.983		-0.002	Sulfate
6	12.00	1.388		0.093	

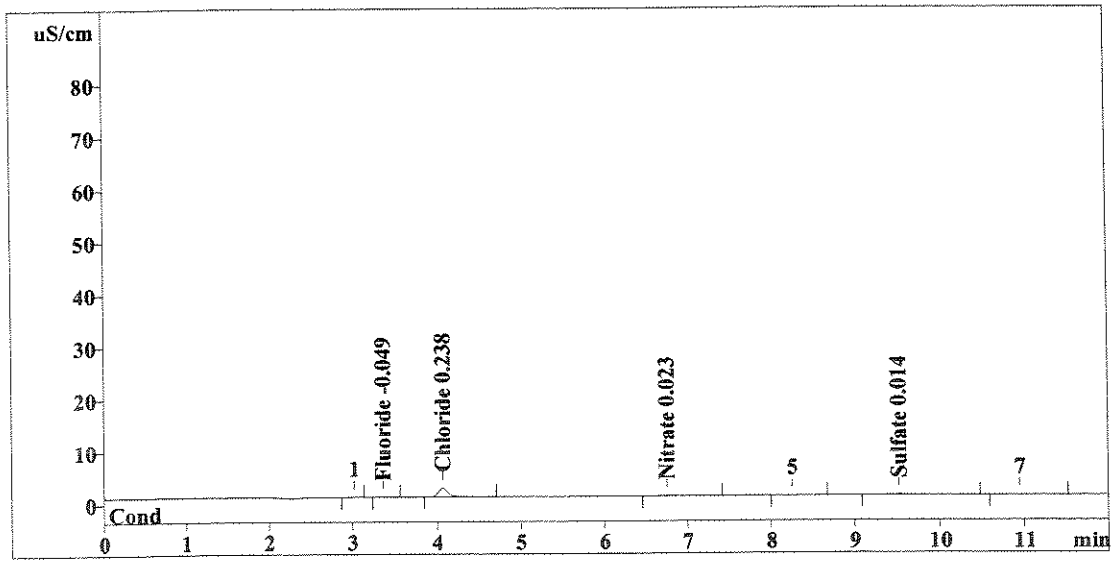
7/7/08

25g → 25mL

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:13	
Printed by:	User	
Ident:	METHOD BLANK	
Analysis from:	7/3/2008 18:40:43	
File:	s7031840.CHW	Last save: 7/7/2008 16:34:13
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37853	
SAMPLE:	06/30/2008	
Vial number:	32	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



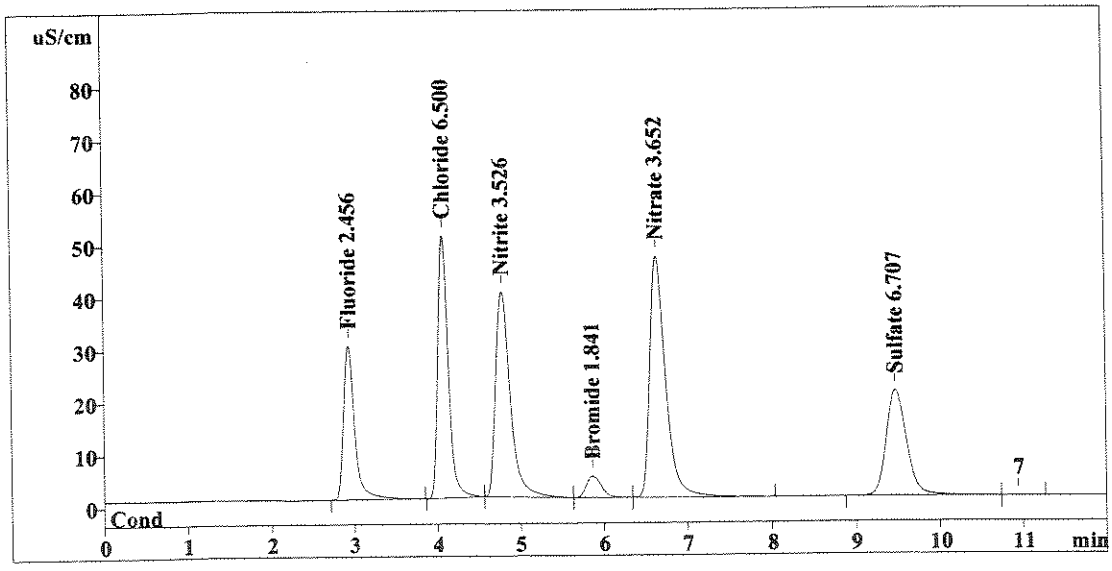
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.100	-0.049	Fluoride
2	4.07	14.065	0.238	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.75	1.144	0.023	Nitrate
6	9.52	1.740	0.014	Sulfate
6	12.00	17.049	0.324	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:14	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/3/2008 18:54:49	
File:	s7031854.CHW	Last save: 7/7/2008 16:34:14
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37854	
SAMPLE:		
Vial number:	33	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.93	272.895	OVT HIGH	2.456	Fluoride
2	4.07	423.633	OK	6.500	Chloride
3	4.78	479.867		3.526	Nitrite
4	5.86	51.362		1.841	Bromide
5	6.64	604.652		3.652	Nitrate
6	9.48	333.718		6.707	Sulfate
6	12.00	2166.126		24.682	

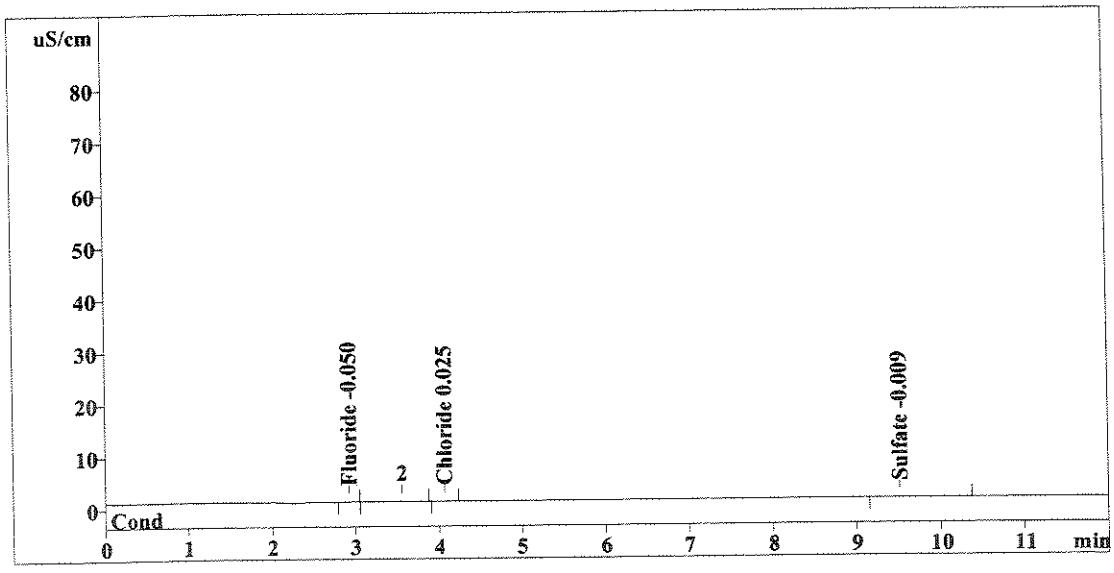
CW 7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:15	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/3/2008 19:08:55	
File:	s7031908.CHW	Last save: 7/7/2008 16:34:15
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37855	
SAMPLE:		
Vial number:	34	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.93	0.069	ok	-0.050	Fluoride
2	4.06	0.119		0.025	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.52	0.621		-0.009	Sulfate
6	12.00	0.809	7/7/08	0.084	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

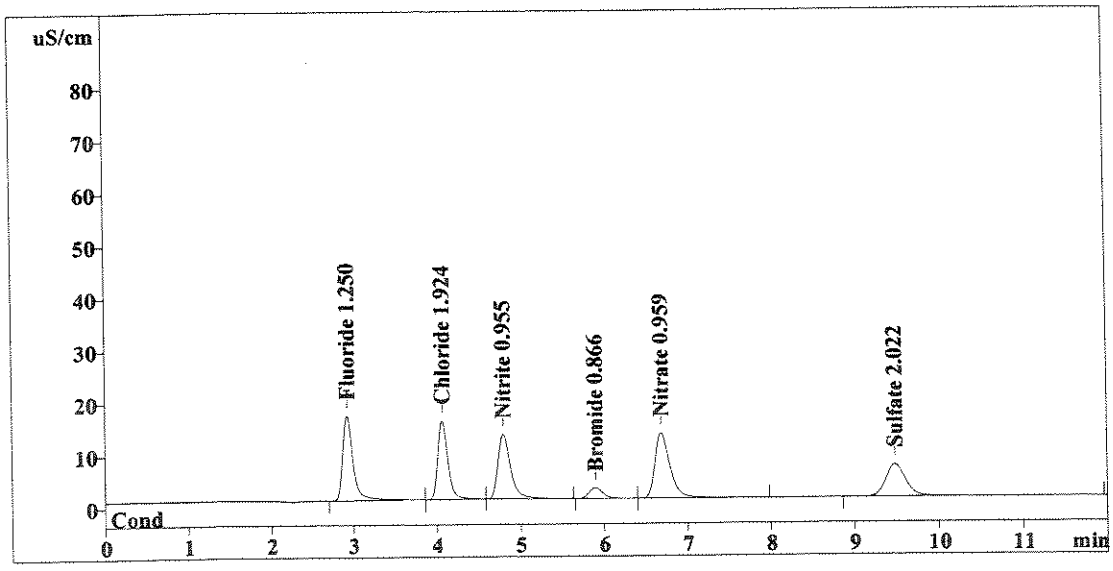
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:16
Printed by:	User
Ident:	LCS
Analysis from:	7/3/2008 19:23:01
File:	s7031923.CHW

Last save: 7/7/2008 16:34:16

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37856
SAMPLE:	
Vial number:	35
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	141.562	OUT HIGH	1.250	Fluoride
2	4.07	124.346	OK	1.924	Chloride
3	4.79	130.522	↓	0.955	Nitrite
4	5.89	23.815	OUT LOW	0.866	Bromide
5	6.68	156.725	OK	0.959	Nitrate
6	9.49	101.368	↓	2.022	Sulfate
6	12.00	678.339		7.977	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

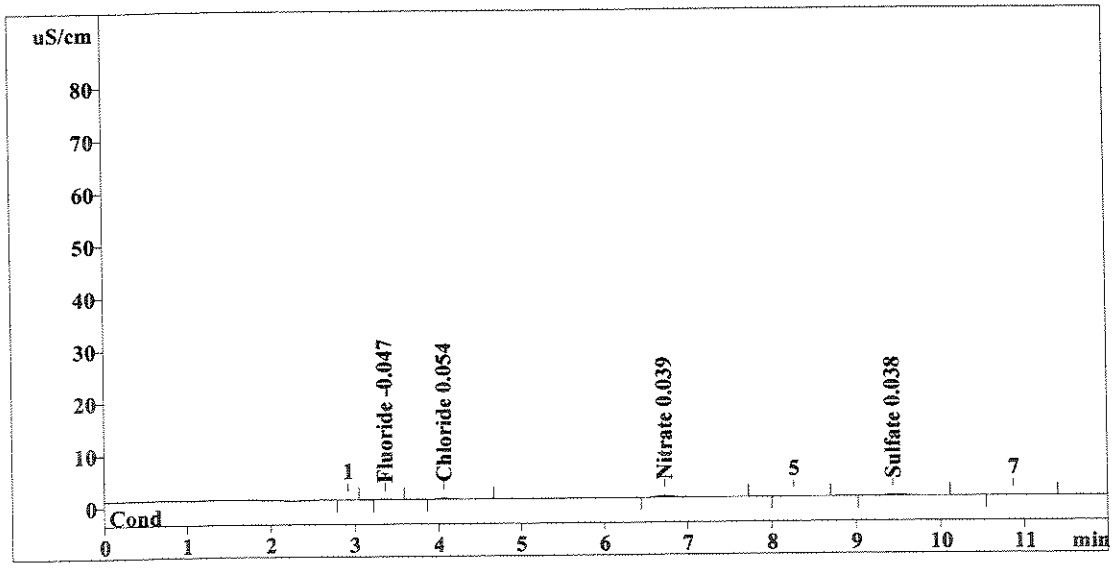
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:17
Printed by:	User
Ident:	METHOD BLANK
Analysis from:	7/3/2008 19:37:07
File:	s7031937.CHW

Last save: 7/7/2008 16:34:17

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37857
SAMPLE:	EXTRACTION - CNNS
Vial number:	36
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	0.329	-0.047	Fluoride
2	4.06	2.013	0.054	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.73	3.792	0.039	Nitrate
6	9.44	2.949	0.038	Sulfate
6	12.00	9.083	0.178	

25g → 50mL

This report has been created by IC Net
METROHM LTD

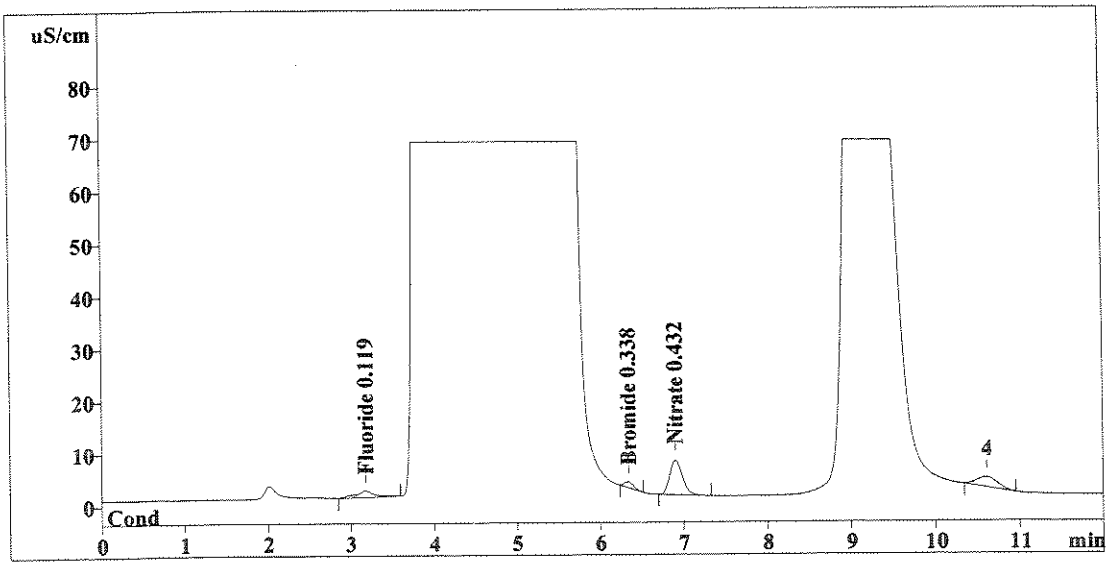
Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:18
Printed by:	User
Ident:	1114366
Analysis from:	7/3/2008 19:51:13
File:	s7031951.CHW

Last save: 7/7/2008 16:34:18

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37858
SAMPLE:	EXTRACTION - CNNS
Vial number:	37
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.18	18.406		0.119	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.35	8.875		0.338	Bromide
5	6.90	69.172		0.432	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	96.452		0.889	

25 → 25mL

OK

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

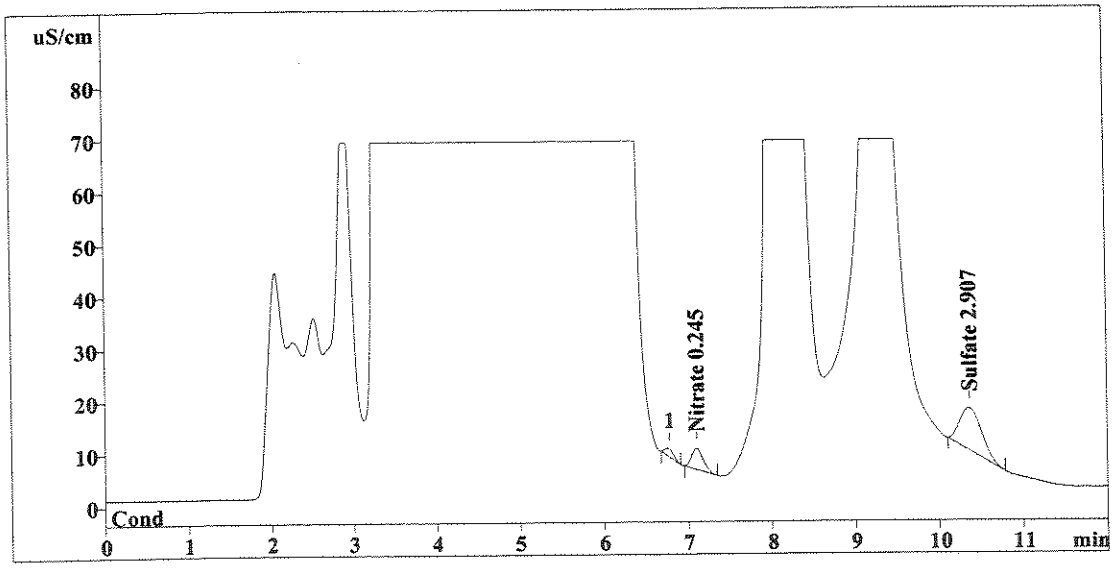
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:19
Printed by:	User
Ident:	1114376
Analysis from:	7/3/2008 20:05:19
File:	s7032005.CHW

Last save: 7/7/2008 16:34:19

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37859
SAMPLE:	EXTRACTION - CNNS
Vial number:	38
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	7.10	38.095	0.245	Nitrate
6	10.38	145.240	2.907	Sulfate
6	12.00	183.335	3.152	

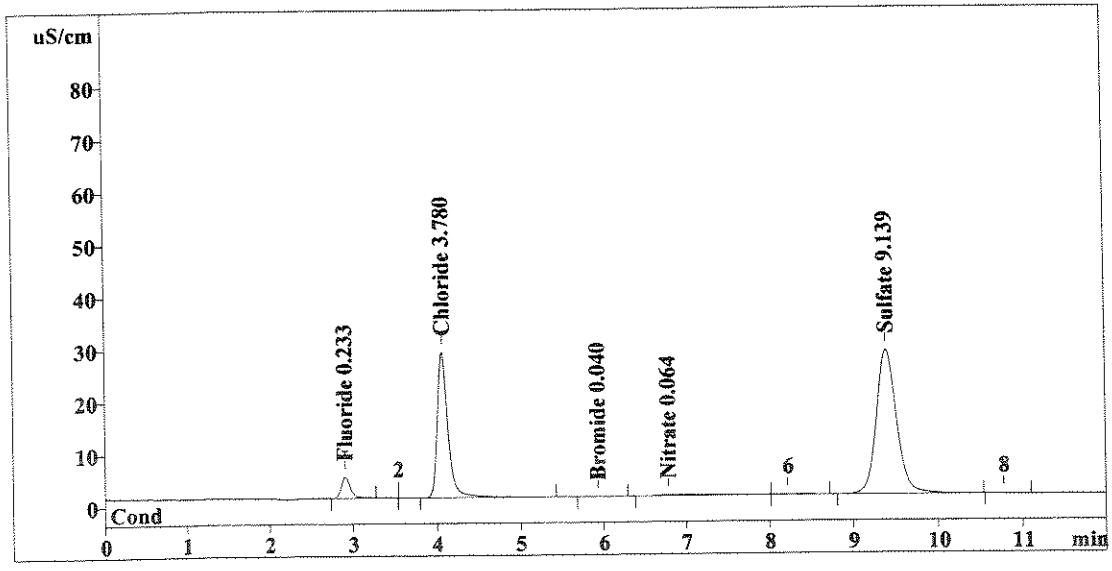
2.5g → 25mL

This report has been created by IC Net
METROHM LTD

7/7/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:20	
Printed by:	User	
Ident:	1114379	
Analysis from:	7/3/2008 20:19:24	
File:	s7032019.CHW	Last save: 7/7/2008 16:34:20
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37860	
SAMPLE:	EXTRACTION - CNNS	
Vial number:	39	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	30.841	OK	0.233	Fluoride
2	4.06	245.706	OK	3.780	Chloride
3	0.00	0.000	OK	0.000	Nitrite
4	5.93	0.454		0.040	Bromide
5	6.79	7.933	OK	0.064	Nitrate
6	9.40	454.350	OK	9.139	Sulfate
6	12.00	739.283		13.256	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

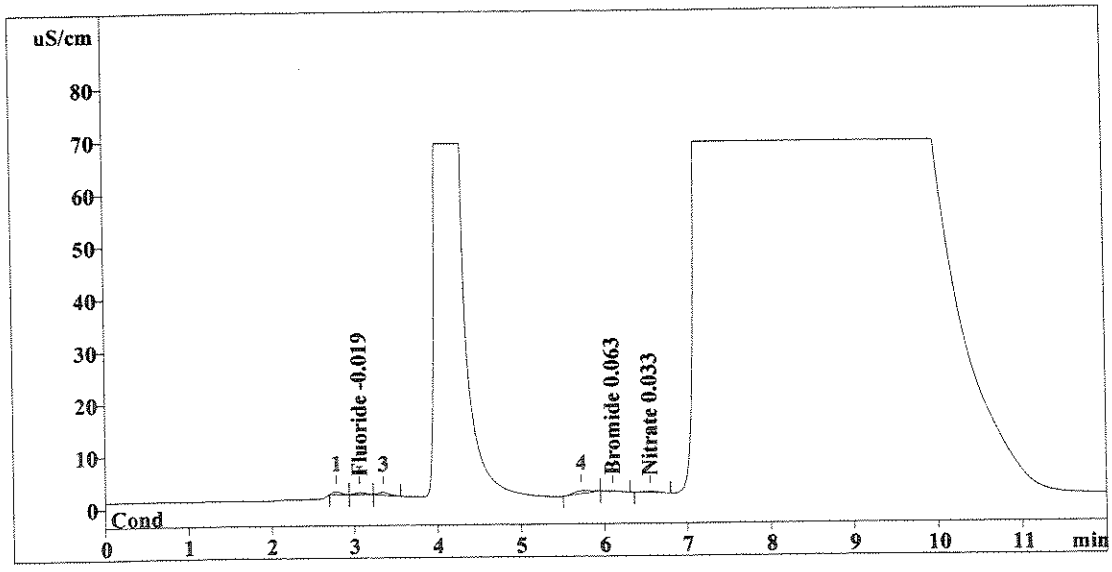
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:21
Printed by:	User
Ident:	1114380
Analysis from:	7/3/2008 20:33:30
File:	s7032033.CHW

Last save: 7/7/2008 16:34:21

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37861
SAMPLE:	EXTRACTION - CNNS
Vial number:	40
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.06	3.438	-0.019	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.10	1.094	0.063	Bromide
5	6.55	2.780	0.033	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	7.313	0.114	

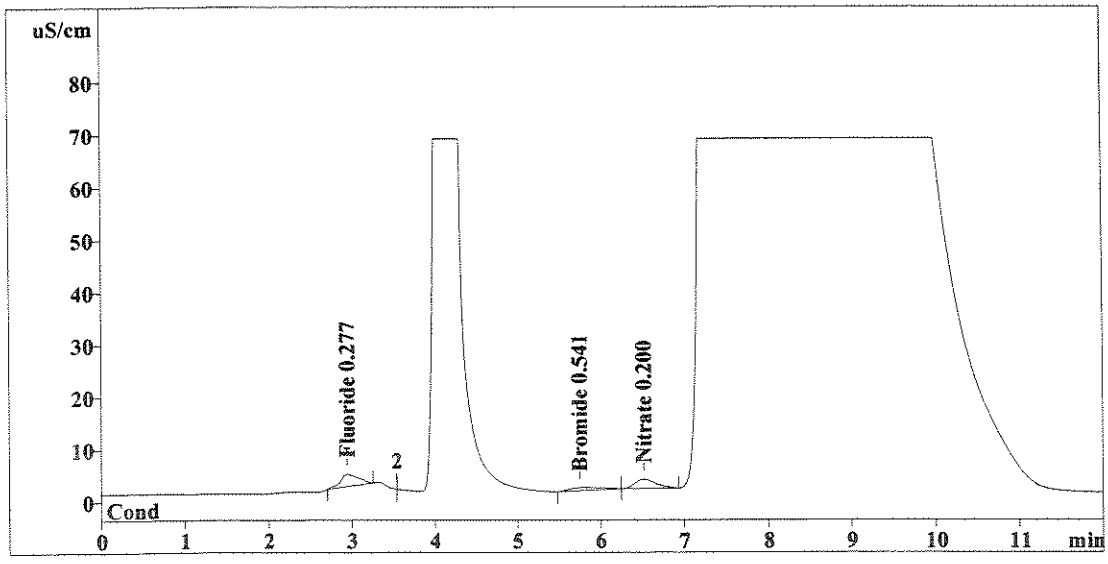
250 - 250 mL

This report has been created by IC Net
METROHM LTD

7/7/08

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:21	
Printed by:	User	
Ident:	1114380 DUP	
Analysis from:	7/3/2008 20:47:36	
File:	s7032047.CHW	Last save: 7/7/2008 16:34:22
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37862	
SAMPLE:	EXTRACTION - CNNS	
Vial number:	41	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	35.591	0.277	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.75	14.613	0.541	Bromide
5	6.52	30.481	0.200	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	80.685	1.017	

35g → 250mL

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

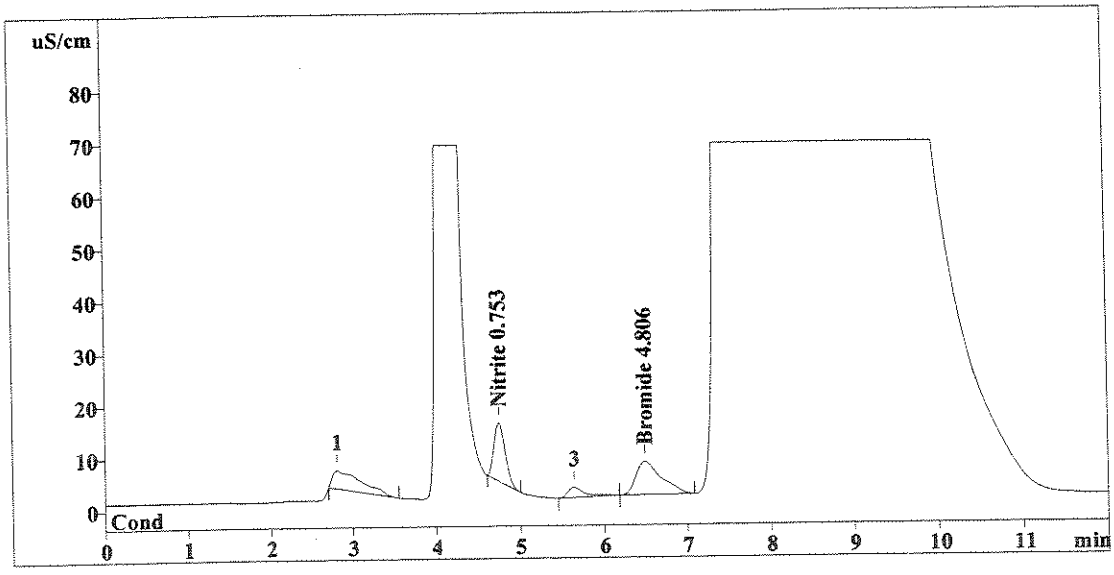
Method 300.0/9056

Report date:	7/7/2008 16:34:22
Printed by:	User
Ident:	1114380 SPK
Analysis from:	7/3/2008 21:01:42
File:	s7032101.CHW

Last save: 7/7/2008 16:34:23

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37863
SAMPLE:	EXTRACTION - CNNS
Vial number:	42
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

25g → 250mL

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.75	103.064	0.753	Nitrite
4	6.49	135.209	4.806	Bromide
5	0.00	0.000	0.000	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	238.273	5.560	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

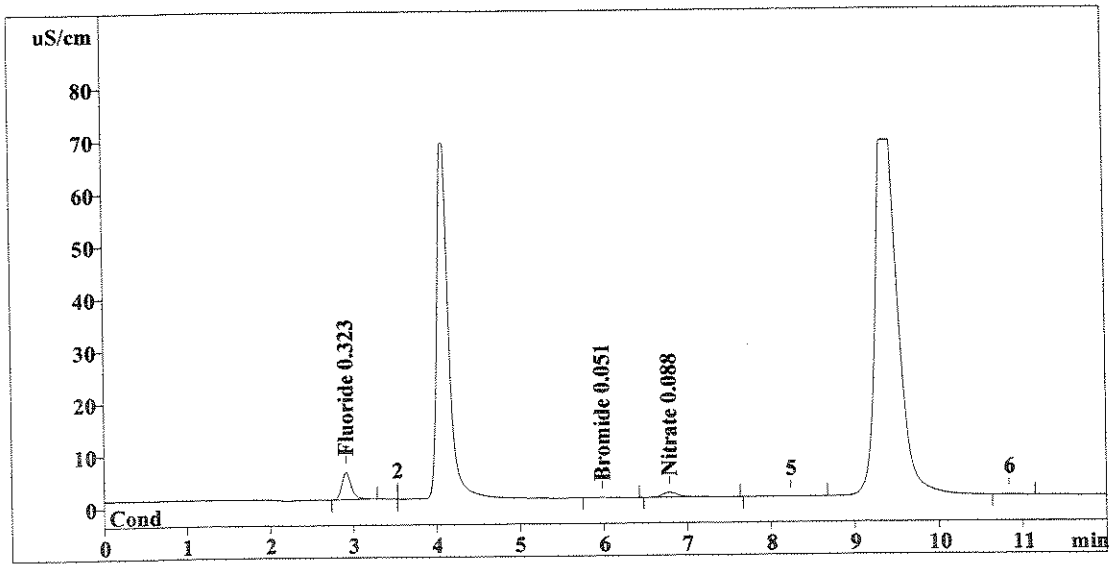
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:23
Printed by:	User
Ident:	1114382
Analysis from:	7/3/2008 21:15:48
File:	s7032115.CHW

Last save: 7/7/2008 16:34:24

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37864
SAMPLE:	EXTRACTION - CNNS
Vial number:	43
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

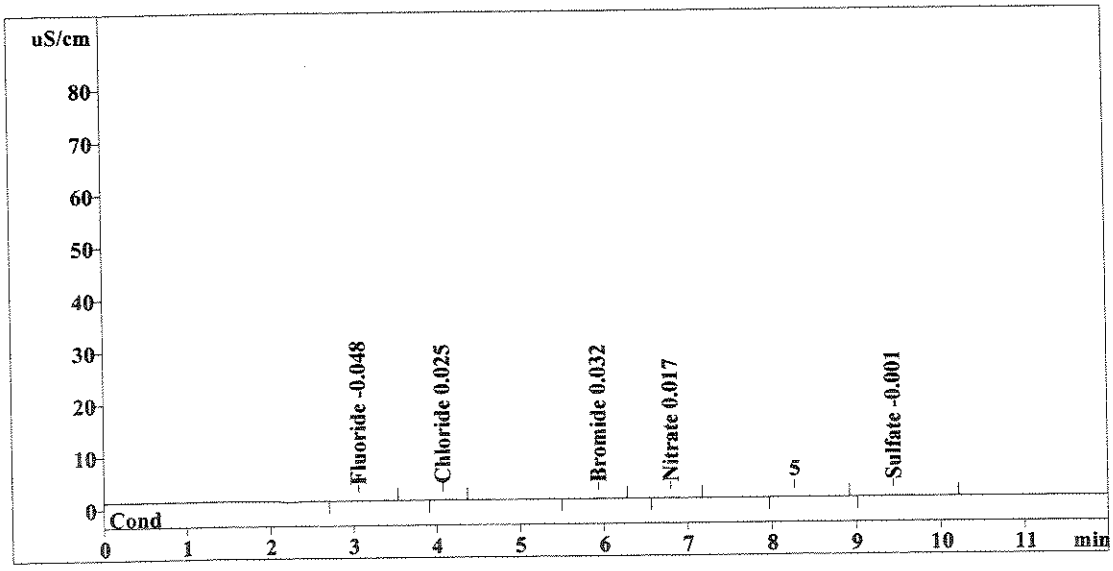
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	40.633		0.323	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.98	0.768		0.051	Bromide
5	6.79	11.828		0.088	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	53.228		0.462	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:24	
Printed by:	User	
Ident:	EB070208GWI 111475	
Analysis from:	7/3/2008 21:29:54	
File:	s7032129.CHW	Last save: 7/7/2008 16:34:25
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37865	
SAMPLE:	CNNS	
Vial number:	44	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.07	0.276		-0.048	Fluoride
2	4.07	0.146	OK	0.025	Chloride
3	0.00	0.000	OK	0.000	Nitrite
4	5.94	0.232		0.032	Bromide
5	6.80	0.175	OK	0.017	Nitrate
6	9.44	0.996	OK	-0.001	Sulfate
6	12.00	1.824		0.124	

CM 7/7/08

This report has been created by IC Net
METROHM LTD

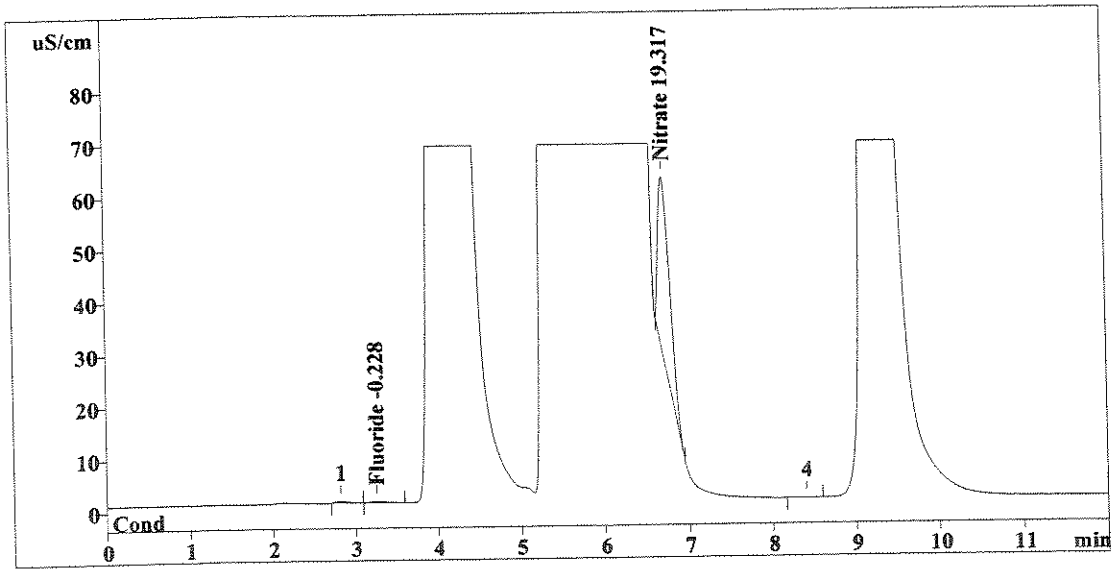
Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:25
Printed by:	User
Ident:	M-65B 1114756
Analysis from:	7/3/2008 21:43:59
File:	s7032143.CHW

Last save: 7/7/2008 16:34:26

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37866
SAMPLE:	CNNS
Vial number:	78
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.25	2.985	-0.228	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.72	318.553	19.317	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	321.538	19.544	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

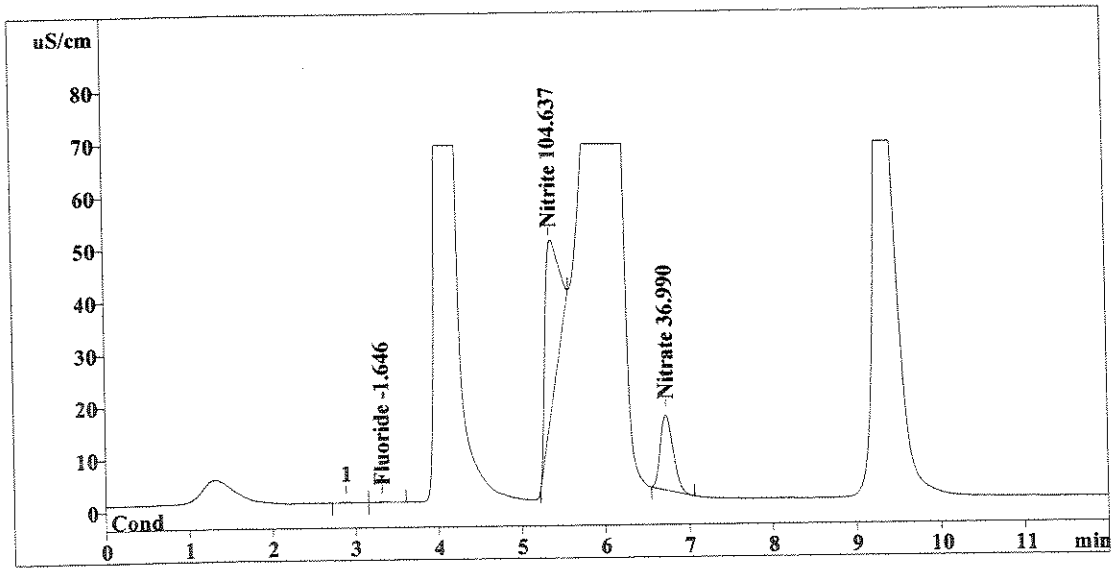
Method 300.0/9056

Report date:	7/7/2008 16:34:26
Printed by:	User
Ident:	M-65B 1114756
Analysis from:	7/3/2008 21:58:05
File:	s7032158.CHW

Last save: 7/7/2008 16:34:27

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37867
SAMPLE:	CNNS
Vial number:	79
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.32	0.985		-1.646	Fluoride
2	0.00	0.000		0.000	Chloride
3	5.35	356.152		104.637	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.73	151.079	ok	36.990	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	508.215		143.273	

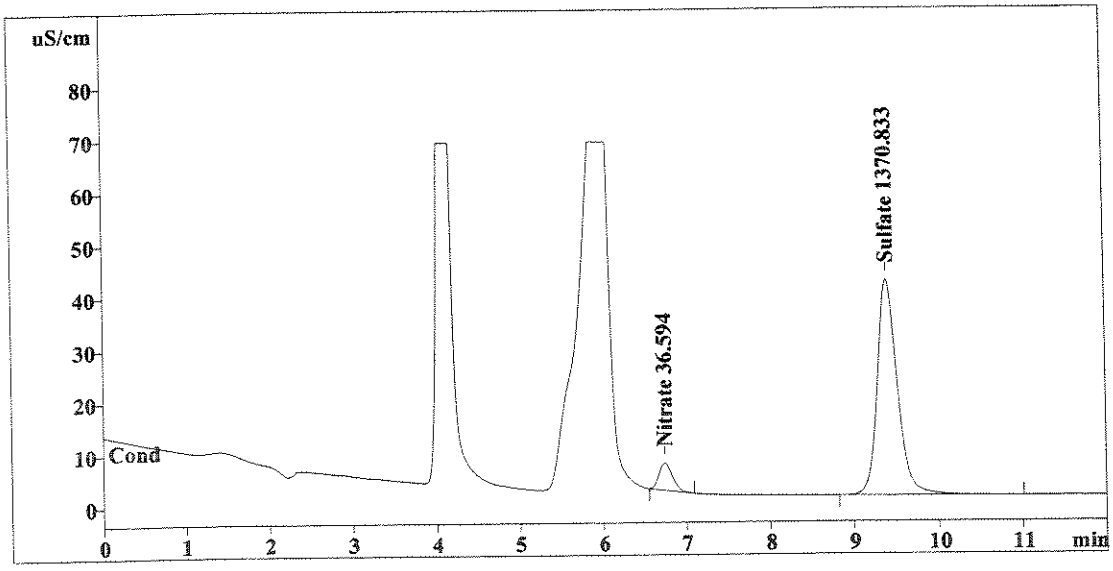
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:27	
Printed by:	User	
Ident:	M-65B	
Analysis from:	7/3/2008 22:12:11	
File:	s7032212.CHW	Last save: 7/7/2008 16:34:28
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37868	
SAMPLE:	CNNS	
Vial number:	80	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	

1114756



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.74	58.135	36.594	Nitrate
6	9.40	680.994	1370.833	Sulfate
6	12.00	739.129	1407.426	

This report has been created by IC Net
METROHM LTD

7/7/08

Ion Chromatography Analytical Report — Method 300.0/9056

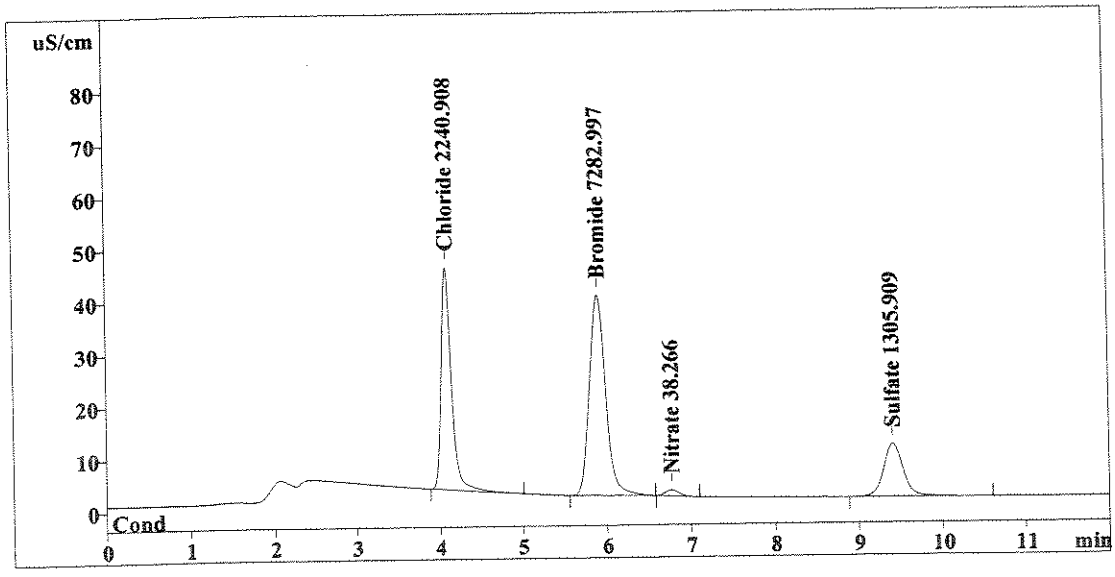
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:28
Printed by:	User
Ident:	M-65B 111475
Analysis from:	7/3/2008 22:26:17
File:	s7032226.CHW

Last save: 7/7/2008 16:34:29

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37869
SAMPLE:	CNNS
Vial number:	81
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.08	364.921	OK	2240.908	Chloride
3	0.00	0.000	OK	0.000	Nitrite
4	5.90	514.083	-	7282.997	Bromide
5	6.77	13.182		38.266	Nitrate
6	9.41	163.000	OK	1305.909	Sulfate
6	12.00	1055.186		10868.079	

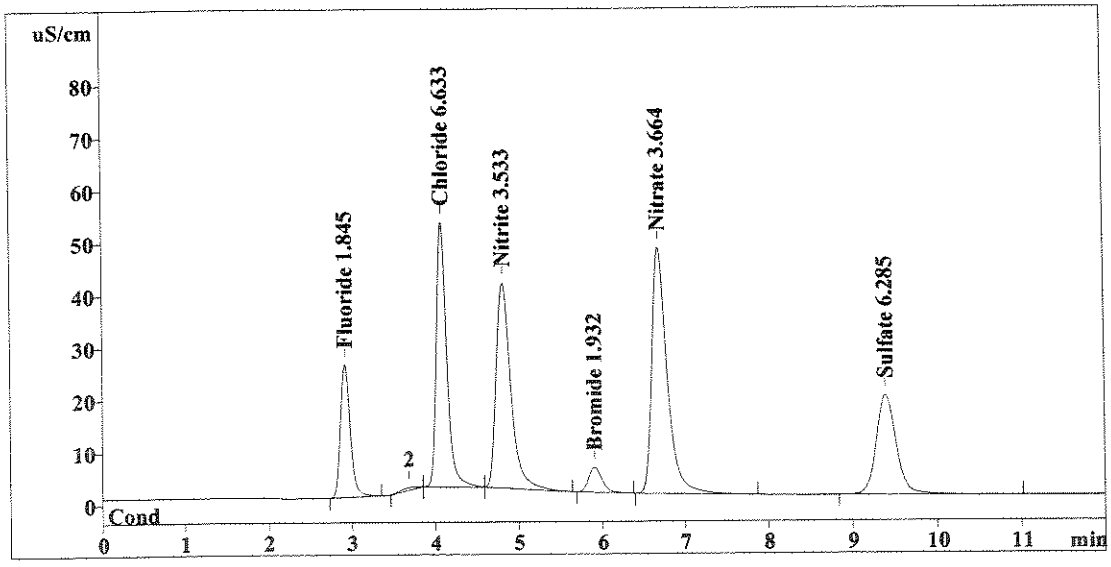
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:29	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/3/2008 22:40:23	
File:	s7032240.CHW	Last save: 7/7/2008 16:34:30
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37870	
SAMPLE:		
Vial number:	82	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	206.320	1.845	Fluoride
2	4.08	432.348	6.633	Chloride
3	4.81	480.803	3.533	Nitrite
4	5.91	53.951	1.932	Bromide
5	6.68	606.703	3.664	Nitrate
6	9.40	312.801	6.285	Sulfate
6	12.00	2092.926	23.893	

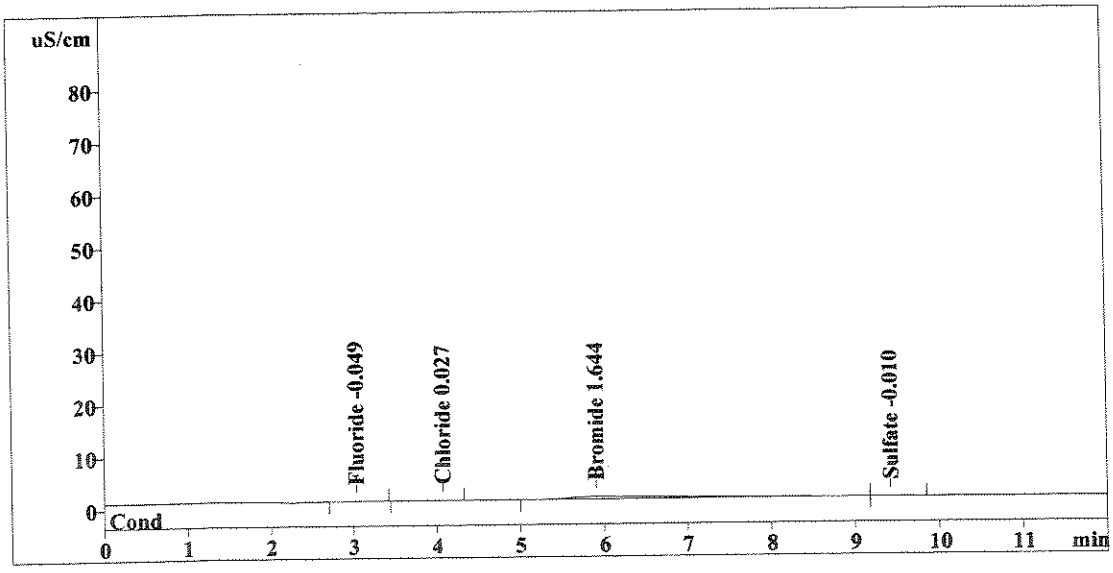
CVT 7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:30	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/3/2008 22:54:29	
File:	s7032254.CHW	Last save: 7/7/2008 16:34:31
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37871	
SAMPLE:		
Vial number:	83	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.03	0.178		-0.049	Fluoride
2	4.08	0.214		0.027	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.91	45.798		1.644	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.43	0.570		-0.010	Sulfate
6	12.00	46.761		1.729	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

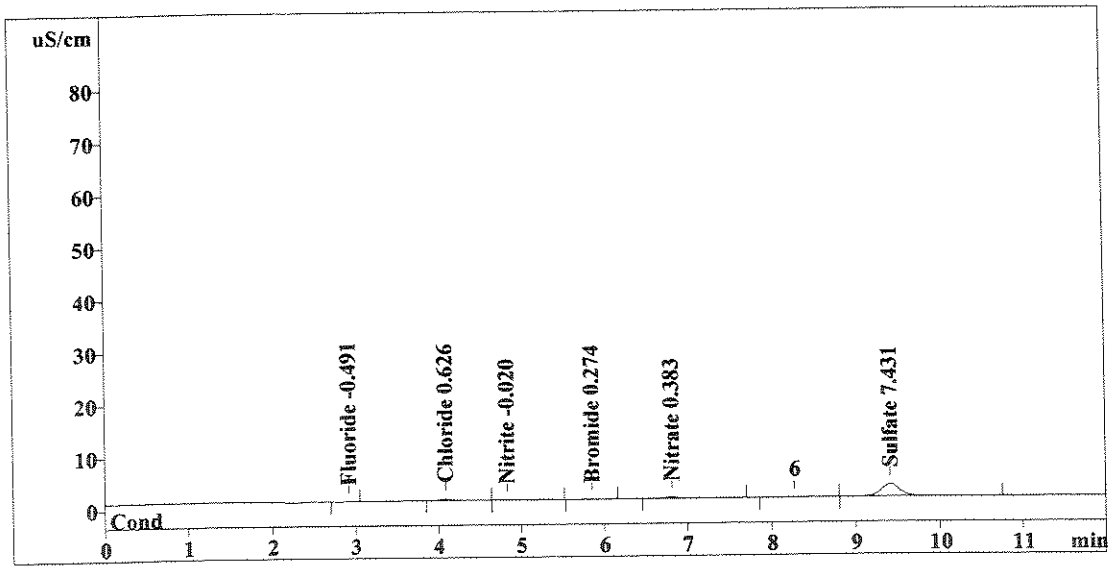
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:31
Printed by:	User
Ident:	1114737
Analysis from:	7/3/2008 23:08:34
File:	s7032308.CHW

Last save: 7/7/2008 16:34:32

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37872
SAMPLE:	NN
Vial number:	84
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.118		-0.491	Fluoride
2	4.08	2.571		0.626	Chloride
3	4.83	0.456	OK	-0.020	Nitrite
4	5.84	0.095		0.274	Bromide
5	6.81	3.636	OK	0.383	Nitrate
6	9.42	37.928		7.431	Sulfate
6	12.00	44.803		9.224	

7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

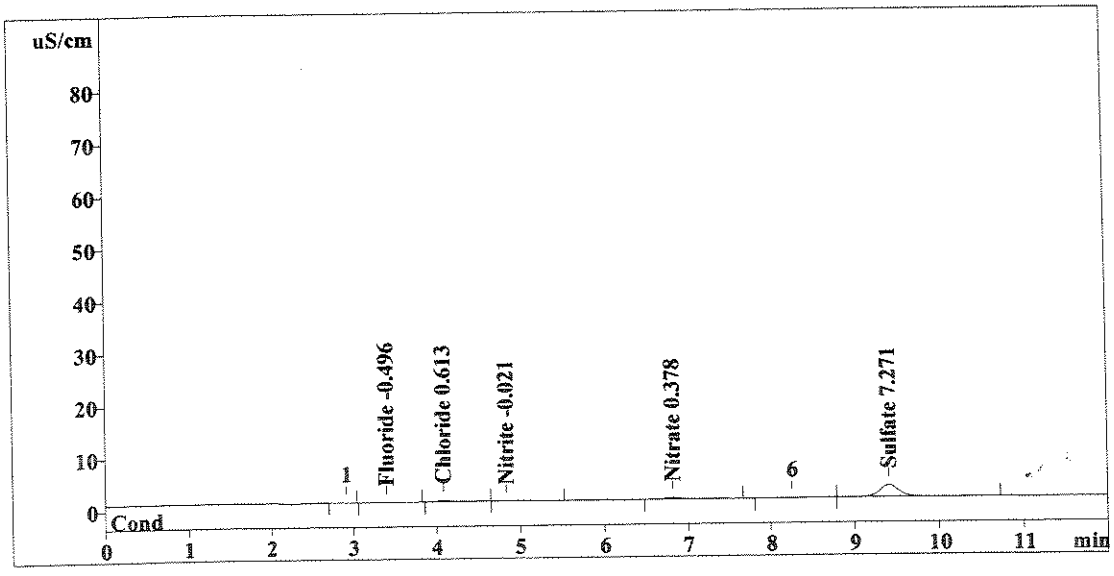
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:32
Printed by:	User
Ident:	1114737 DUP
Analysis from:	7/3/2008 23:22:40
File:	s7032322.CHW

Last save: 7/7/2008 16:34:32

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37873
SAMPLE:	NN
Vial number:	85
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.40	0.070		-0.496	Fluoride
2	4.08	2.490		0.613	Chloride
3	4.83	0.436	OK	-0.021	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.82	3.561	OK	0.378	Nitrate
6	9.41	37.131		7.271	Sulfate
6	12.00	43.689		8.779	

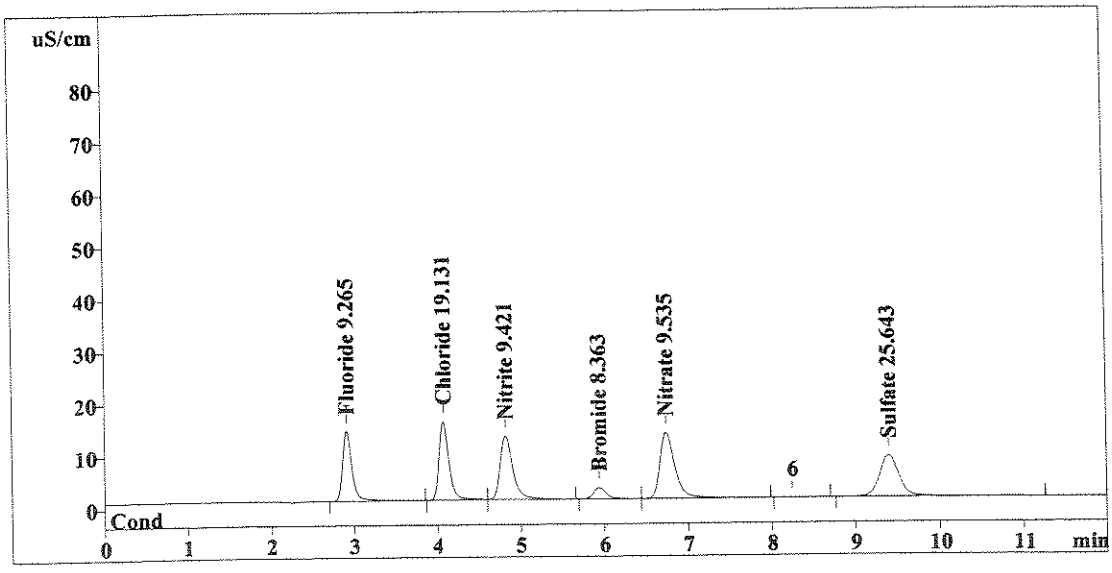
7/7/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:33	
Printed by:	User	
Ident:	1114737 SPK	
Analysis from:	7/3/2008 23:36:46	
File:	s7032336.CHW	Last save: 7/7/2008 16:34:33
Method:	06-10-08CAL.mtw	Last save: 7/3/2008 10:07:11
Run operator:	User	
Analysis number:	37874	
SAMPLE:	NN	
Vial number:	86	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	



Quantitation method: Custom

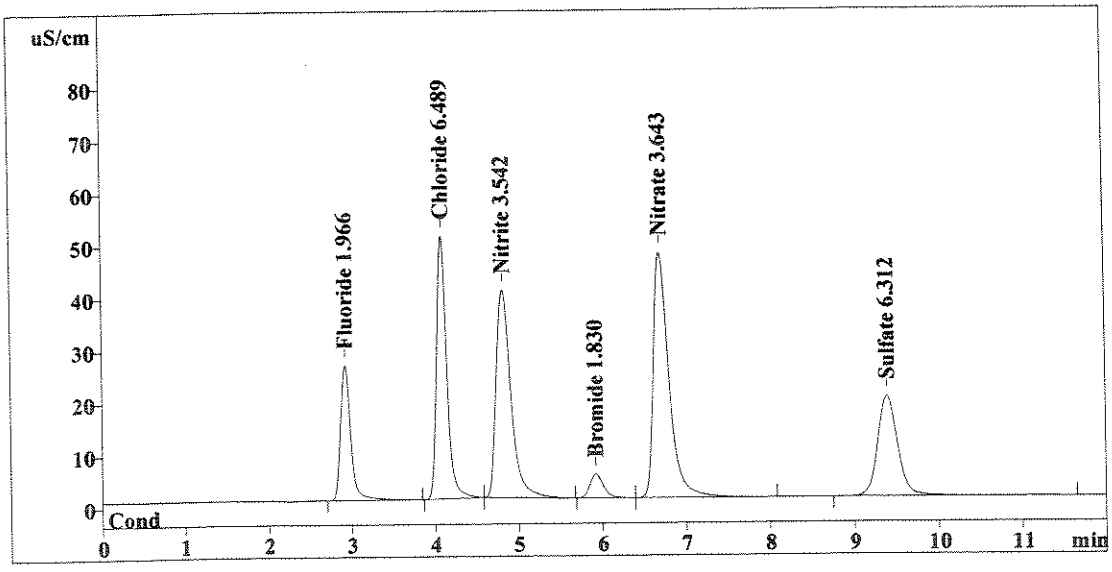
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	106.346		9.265	Fluoride
2	4.08	123.616		19.131	Chloride
3	4.82	128.734	OK	9.421	Nitrite
4	5.94	22.964		8.363	Bromide
5	6.74	155.864	OK	9.535	Nitrate
6	9.40	128.258		25.643	Sulfate
6	12.00	665.782		81.358	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date: 7/7/2008 16:34:34
Printed by: User
Ident: CCV
Analysis from: 7/3/2008 23:50:51
File: s7032350.CHW Last save: 7/7/2008 16:34:34

Method: 06-10-08CAL.mtw Last save: 7/3/2008 10:07:11
Run operator: User
Analysis number: 37875
SAMPLE:
Vial number: 87
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	219.517	OK	1.966	Fluoride
2	4.08	422.891		6.489	Chloride
3	4.81	482.009		3.542	Nitrite
4	5.92	51.066		1.830	Bromide
5	6.70	603.207		3.643	Nitrate
6	9.39	314.143		6.312	Sulfate
6	12.00	2092.833		23.782	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

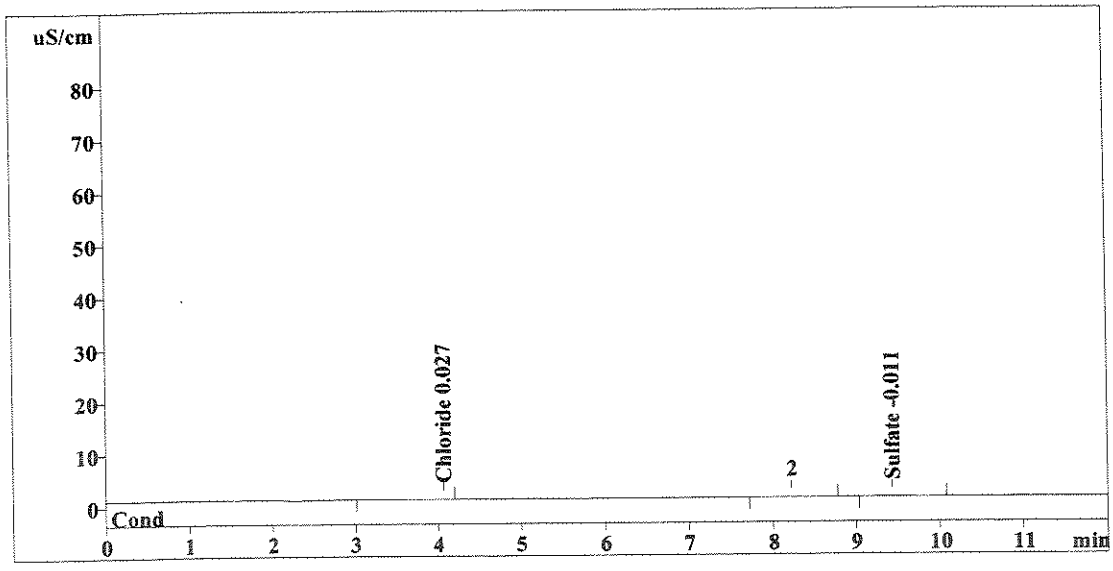
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/7/2008 16:34:35
Printed by:	User
Ident:	CCB
Analysis from:	7/4/2008 00:04:56
File:	s7040004.CHW

Last save: 7/7/2008 16:34:35

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	37876
SAMPLE:	
Vial number:	88
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/3/2008 10:07:11



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.07	0.233	0.027	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.43	0.527	-0.011	Sulfate
6	12.00	0.760	0.038	

This report has been created by IC Net
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 **Loop size:** 50 uL Loop

Analyst: C. Woods **Analysis Date:** 7-7-08

Is copy of LCS attached to run? (YES) / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	07/03/08	WC72093E
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC7200S0A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	WC7200S3A
Cl		100			2.0	TC	6/16/08	B	6/23/08	WC7200S3B
NO2		50			1.0	TC	6/23/08	C	6/30/08	WC7200S3C
Br		50			1.0	TC	6/26/08	D	7/3/08	WC7200S3D
NO3		50			1.0	CMW	7/3/08	E	7/10/08	WC7200S3E
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 15:04:34	
Printed by:	User	
Ident:	LCS	
Analysis from:	6/10/2008 14:20:35	
File:	s6101420.chw	Last save: 6/10/2008 14:32:48
Modified!		
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 13:48:56
Run operator:	User	
Analysis number:	36794	
SAMPLE:		
Vial number:	12	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3	
Flow:	0.70 mL/min	
Temperature:	20.0°C	
Pressure:	5.0 MPa	
ACQUISITION PARAMETERS		
Channels:	1	
Method duration:	12.00min	
Run duration:	12.00min	
Measurements (method):	7200	
Measurements (run):	7200	
Freq.divisor:	1	
Sampling:	10.00 pts/sec	
Start delay:	sec	
Device:	732 IC Detector	
Program before:		
Program after:		
Spikes filter:	No	
Median filter:	No	
slit:	0	
Gauss filter:	No	
slit:	0	
INTEGRATION DEFAULTS		
Channel:	Cond	
Delay:	2.70 min	
Width:	2.00 sec	
Broadening:	2.00	
Slope:	1.00	
Asymmetry:	1.00	
MinArea:	0.05	
MinHeight:	0.00	
Rider ratio:	0.00	

No. min
1 0.00 Enable valley-to-valley

This report has been created by IC Net
METROHM LTD

ACQUISITION PARAMETERS

Channels:	1
Method duration:	12.00min
Run duration:	12.00min
Measurements (method):	7200
Measurements (run):	7200
Freq.divisor:	1
Sampling:	10.00 pts/sec
Start delay:	sec
Device:	732 IC Detector
Program before:	
Program after:	
Spikes filter:	No
Median filter:	No
slit:	0
Gauss filter:	No
slit:	0

INTEGRATION DEFAULTS

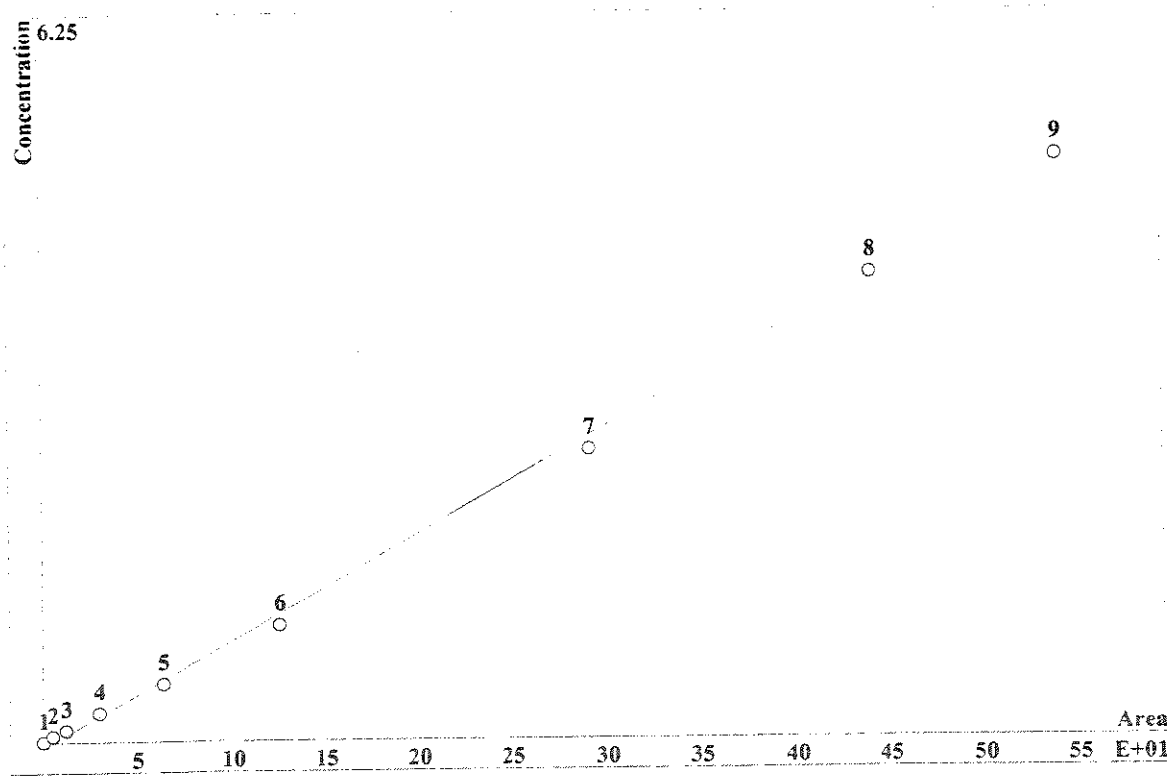
Channel:	Cond
Delay:	2.70 min
Width:	2.00 sec
Broadening:	2.00
Slope:	1.00
Asymmetry:	1.00
MinArea:	0.05
MinHeight:	0.00
Rider ratio:	0.00

No.	min	
1	0.00	Enable valley-to-valley

This report has been created by IC Net
METROHM LTD

CALIBRATION OF COMPONENT Fluoride

Method: 06-10-08CAL.mtw
Equation: Q = 0.00918405·A - 0.0501966
RSD: 5.110 %
Correlation coefficient: 0.999292

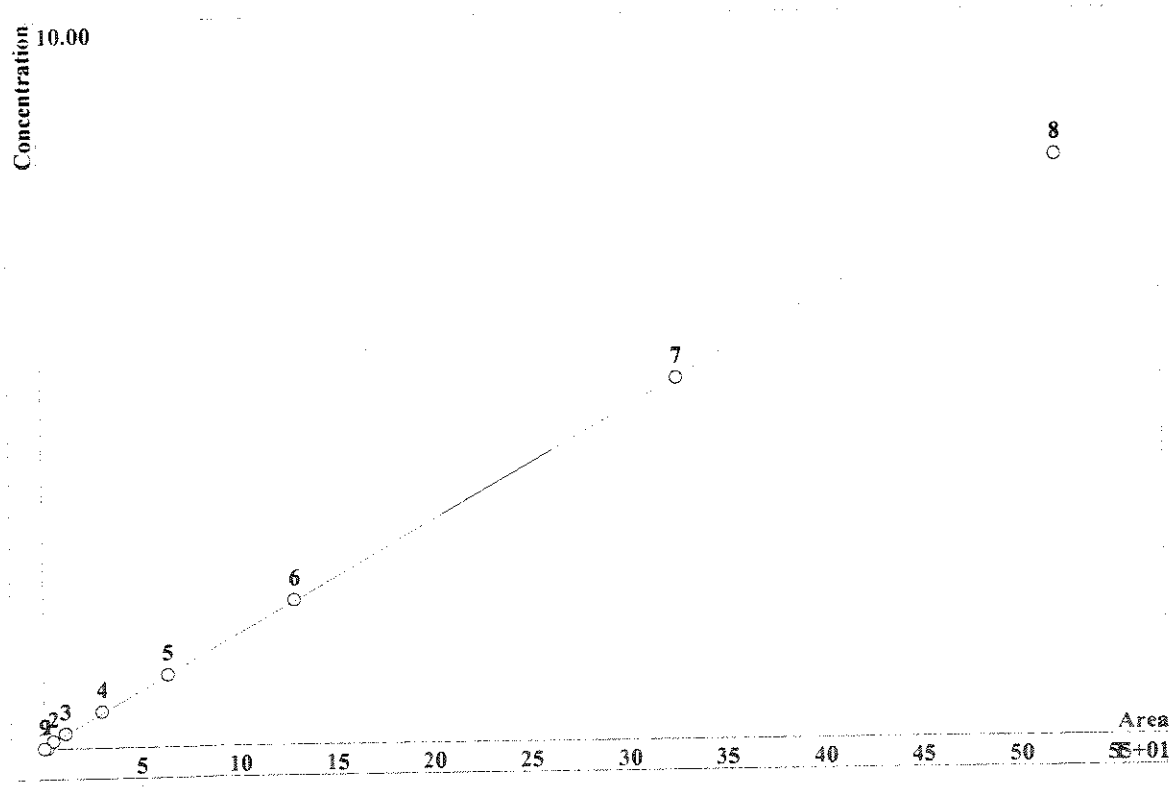


K3 = 0 K2 = 0 K1 = 0.00918405 K0 = -0.0501966
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.01064	0.174	1e-05	1	3.202	Yes	s6101036.chw
2	0.6064	5.055	0.05	1	3.202	Yes	s6101050.chw
3	1.325	12.3	0.1	1	3.202	Yes	s6101104.chw
4	3.552	30.14	0.25	1	3.202	Yes	s6101118.chw
5	7.406	63.57	0.5	1	3.202	Yes	s6101132.chw
6	14.68	124.9	1	1	3.202	Yes	s6101146.chw
7	33.36	291.1	2.5	1	3.202	Yes	s6101201.chw
8	47.69	440.7	4	1	3.202	Yes	s6101215.chw
9	56.19	540.3	5	1	3.202	Yes	s6101229.chw

CALIBRATION OF COMPONENT Chloride

Method: 06-10-08CAL.mtw
Equation: Q = 0.0152883·A + 0.0232615
RSD: 1.182 %
Correlation coefficient: 0.999969

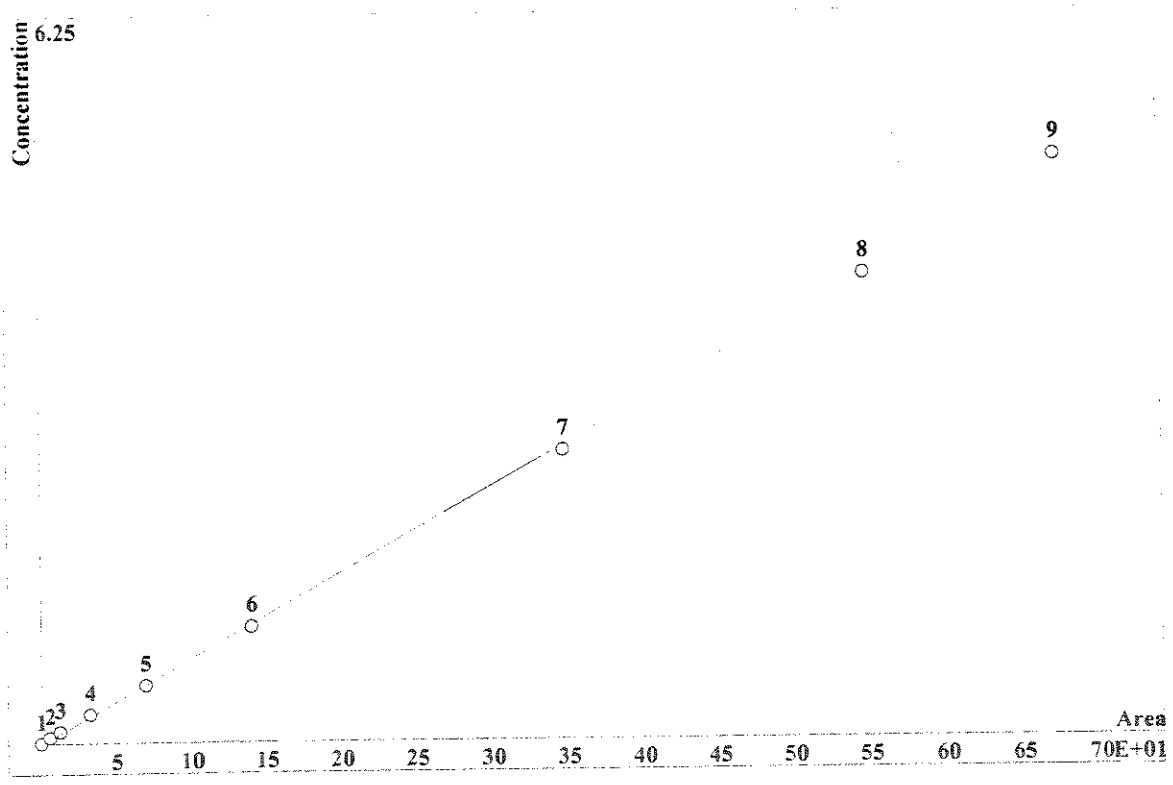


K3 = 0 K2 = 0 K1 = 0.0152883 K0 = 0.0232615
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.06833	1.807	1e-05	1	4.04	Yes	s6101036.chw
2	0.562	4.825	0.1	1	4.04	Yes	s6101050.chw
3	1.283	10.98	0.2	1	4.04	Yes	s6101104.chw
4	3.542	29.63	0.5	1	4.04	Yes	s6101118.chw
5	7.545	63.41	1	1	4.04	Yes	s6101132.chw
6	15.19	128.1	2	1	4.04	Yes	s6101146.chw
7	38.71	326.1	5	1	4.04	Yes	s6101201.chw
8	61.12	521.8	8	1	4.04	Yes	s6101215.chw
9	0	0	10	0	0	No	s6101229.chw

CALIBRATION OF COMPONENT Nitrite

Method: 06-10-08CAL.mtw
Equation: Q = 0.00735996·A - 0.00533613
RSD: 1.988 %
Correlation coefficient: 0.999893

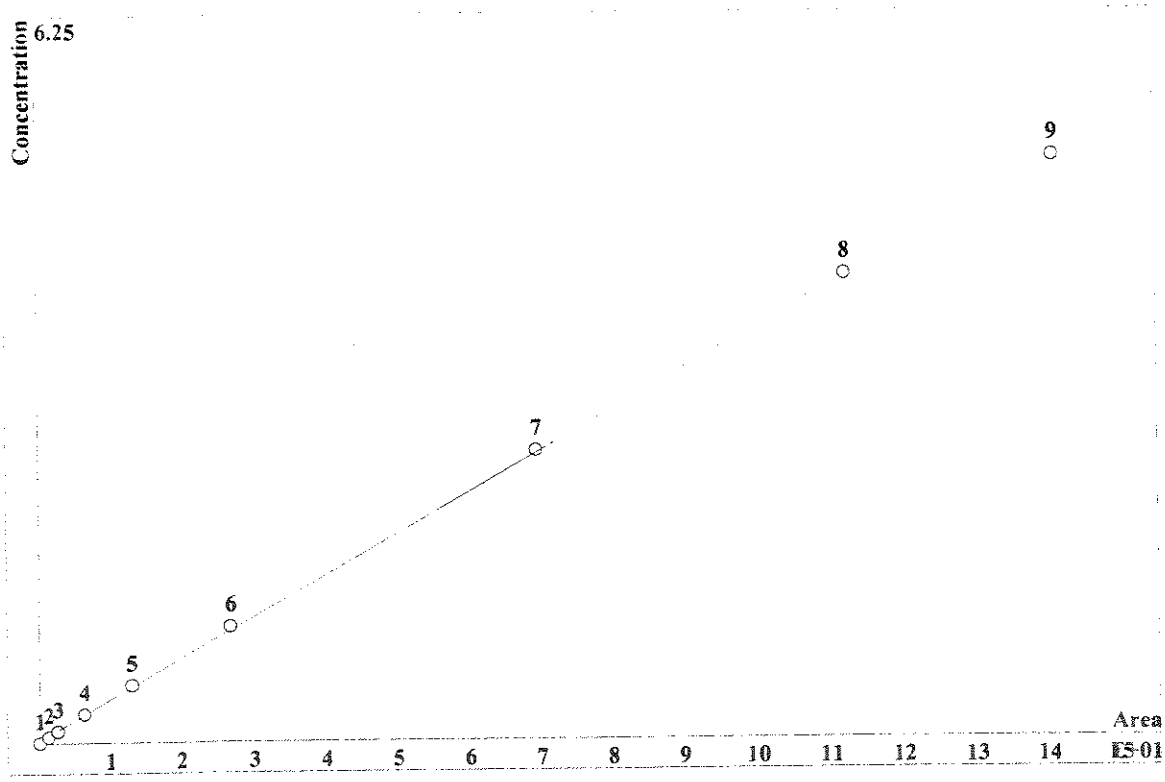


K3 = 0 K2 = 0 K1 = 0.00735996 K0 = -0.00533613
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	-3.034e-05	-0.000164	1e-05	1	4.572	Yes	s6101036.chw
2	0.5537	5.677	0.05	1	4.572	Yes	s6101050.chw
3	1.153	12.43	0.1	1	4.572	Yes	s6101104.chw
4	3.042	32.38	0.25	1	4.572	Yes	s6101118.chw
5	6.338	69.12	0.5	1	4.572	Yes	s6101132.chw
6	12.32	139.8	1	1	4.572	Yes	s6101146.chw
7	28.05	346.7	2.5	1	4.572	Yes	s6101201.chw
8	41.9	547.4	4	1	4.572	Yes	s6101215.chw
9	50	673.7	5	1	4.572	Yes	s6101229.chw

CALIBRATION OF COMPONENT Bromide

Method: 06-10-08CAL.mtw
Equation: Q = 0.0353707·A + 0.0239902
RSD: 1.470 %
Correlation coefficient: 0.999941

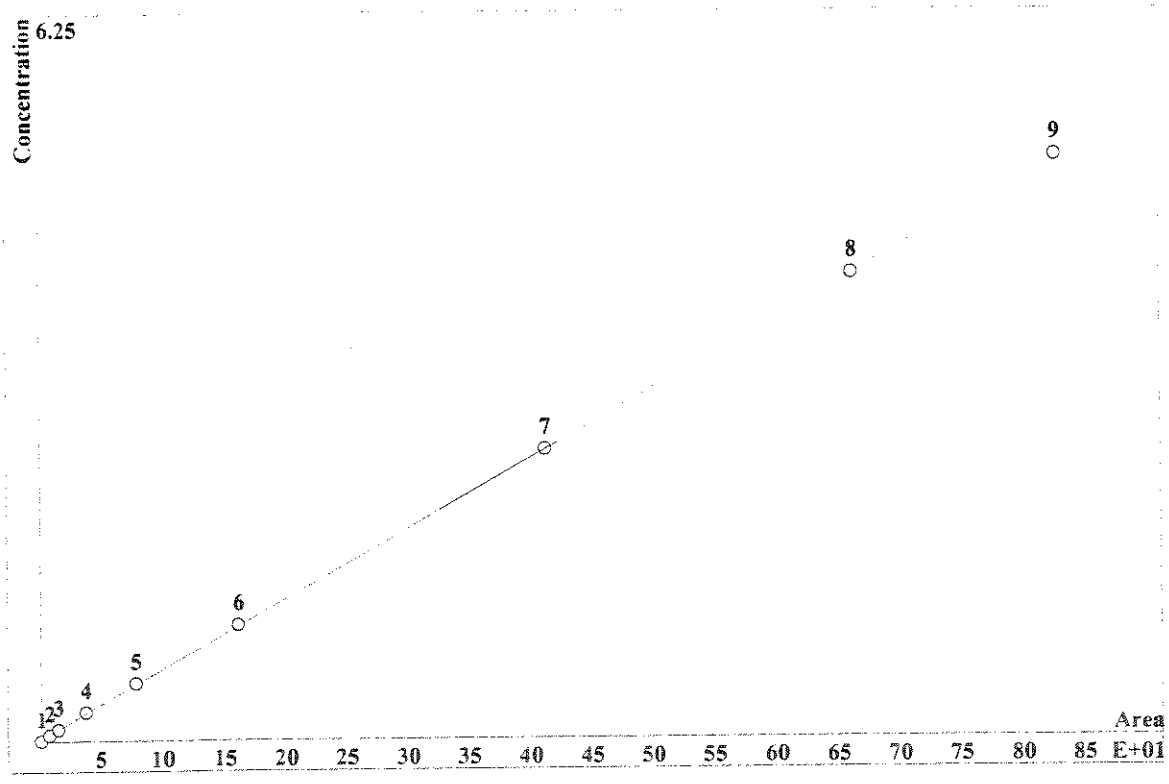


K3 = 0 K2 = 0 K1 = 0.0353707 K0 = 0.0239902
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.0001788	0.000207	1e-05	1	6.08	Yes	s6101036.chw
2	0.109	1.243	0.05	1	6.08	Yes	s6101050.chw
3	0.2246	2.531	0.1	1	6.08	Yes	s6101104.chw
4	0.5797	6.312	0.25	1	6.08	Yes	s6101118.chw
5	1.218	13.03	0.5	1	6.08	Yes	s6101132.chw
6	2.543	26.68	1	1	6.08	Yes	s6101146.chw
7	6.724	69.34	2.5	1	6.08	Yes	s6101201.chw
8	10.77	112.3	4	1	6.08	Yes	s6101215.chw
9	13.38	141.3	5	1	6.08	Yes	s6101229.chw

CALIBRATION OF COMPONENT Nitrate

Method: 06-10-08CAL.mtw
Equation: Q = 0.00601237·A + 0.0164087
RSD: 0.705 %
Correlation coefficient: 0.999987

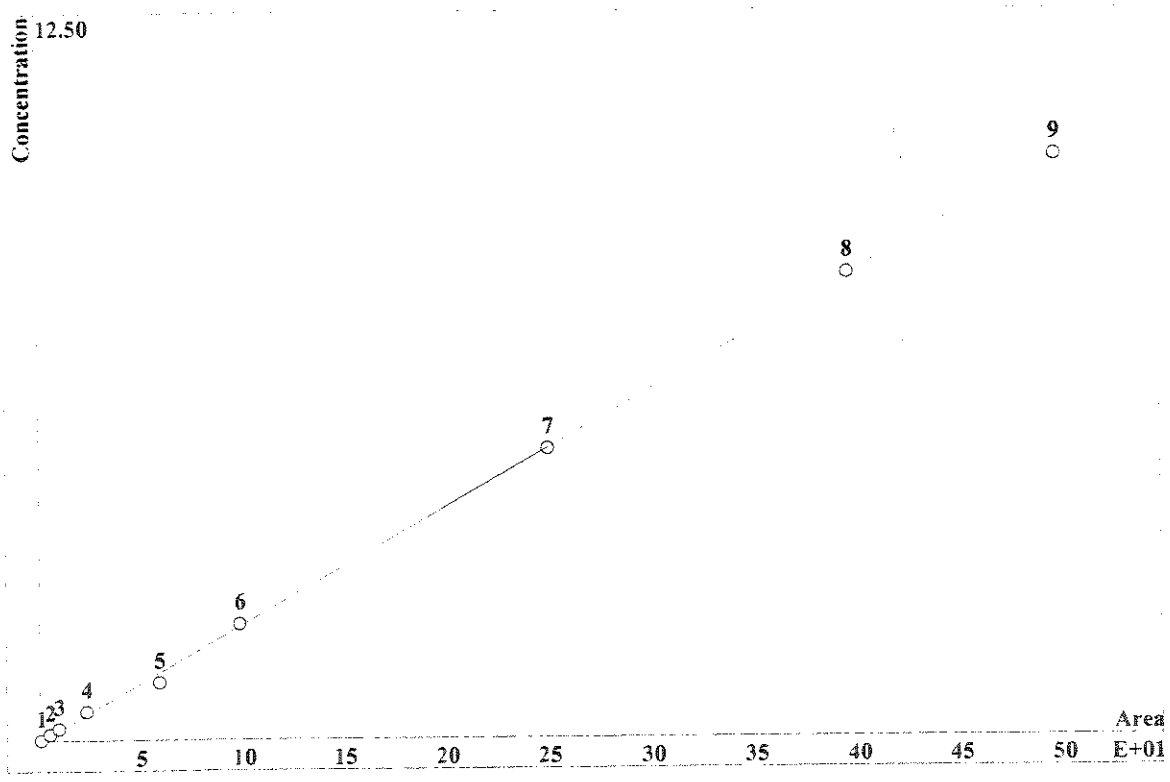


K3 = 0 K2 = 0 K1 = 0.00601237 K0 = 0.0164087
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.006157	0.07577	1e-05	1	6.975	Yes	s6101036.chw
2	0.5468	7.06	0.05	1	6.975	Yes	s6101050.chw
3	1.144	14.47	0.1	1	6.975	Yes	s6101104.chw
4	3.046	37.67	0.25	1	6.975	Yes	s6101118.chw
5	6.383	78.82	0.5	1	6.975	Yes	s6101132.chw
6	12.98	161.2	1	1	6.975	Yes	s6101146.chw
7	33.03	412.5	2.5	1	6.975	Yes	s6101201.chw
8	52.77	662.7	4	1	6.975	Yes	s6101215.chw
9	65.92	829.7	5	1	6.975	Yes	s6101229.chw

CALIBRATION OF COMPONENT Sulfate

Method: 06-10-08CAL.mtw
Equation: Q = 0.0201616·A - 0.0215664
RSD: 2.403 %
Correlation coefficient: 0.999843

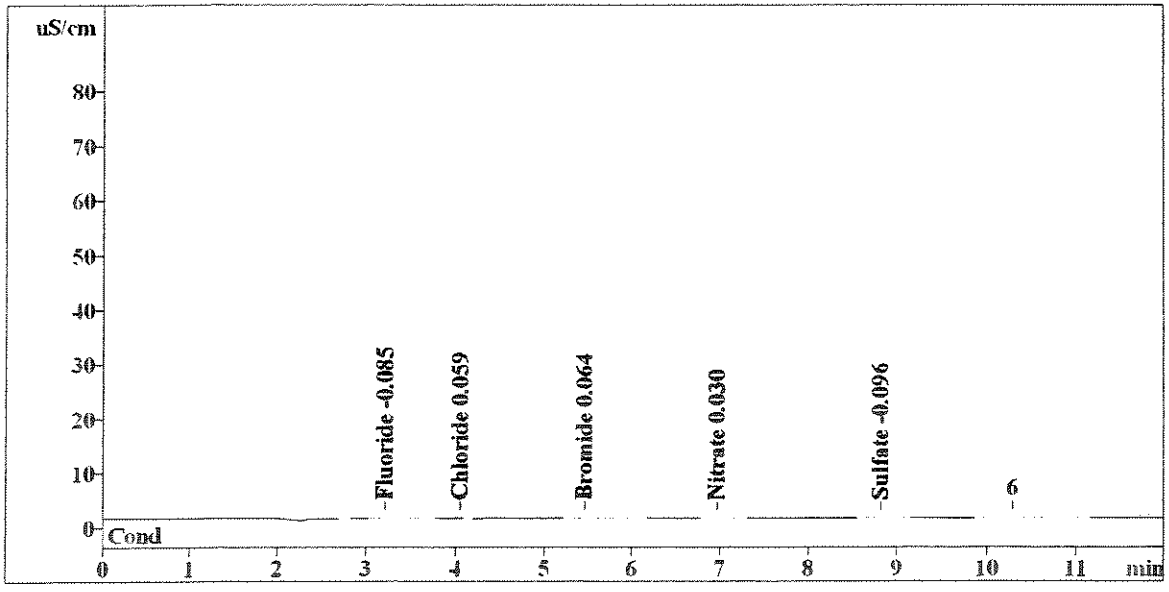


K3 = 0 K2 = 0 K1 = 0.0201616 K0 = -0.0215664
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.03549	0.6807	1e-05	1	10.29	Yes	s6101036.chw
2	0.2733	4.966	0.1	1	10.29	Yes	s6101050.chw
3	0.5256	9.443	0.2	1	10.29	Yes	s6101104.chw
4	1.314	23.23	0.5	1	10.29	Yes	s6101118.chw
5	3.37	58.92	1	1	10.29	Yes	s6101132.chw
6	5.622	98.22	2	1	10.29	Yes	s6101146.chw
7	14.22	249.6	5	1	10.29	Yes	s6101201.chw
8	22.35	395.8	8	1	10.29	Yes	s6101215.chw
9	27.98	498	10	1	10.29	Yes	s6101229.chw

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 10:48:12	
Printed by:	User	
Ident:	STANDARD 1	
Analysis from:	6/10/2008 10:36:15	
File:	S6101036.CHW	Last save: 6/10/2008 10:48:17
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 10:14:45
Run operator:	User	
Analysis number:	36783	
SAMPLE:	ANALYST: TC	
Vial number:	1	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Needs Reprocess?	Conc. mg/L	Name
1	3.20	0.174		-0.085	Fluoride
2	4.04	1.807		0.059	Chloride
3	0.00	0.000	NO	0.000	Nitrite
4	5.45	0.168	NO2	0.064	Bromide
5	6.98	0.076	peak	0.030	Nitrate
6	8.82	0.059	detected	-0.096	Sulfate
6	12.00	2.284		0.334	

This report has been created by IC Net
METROHM LTD

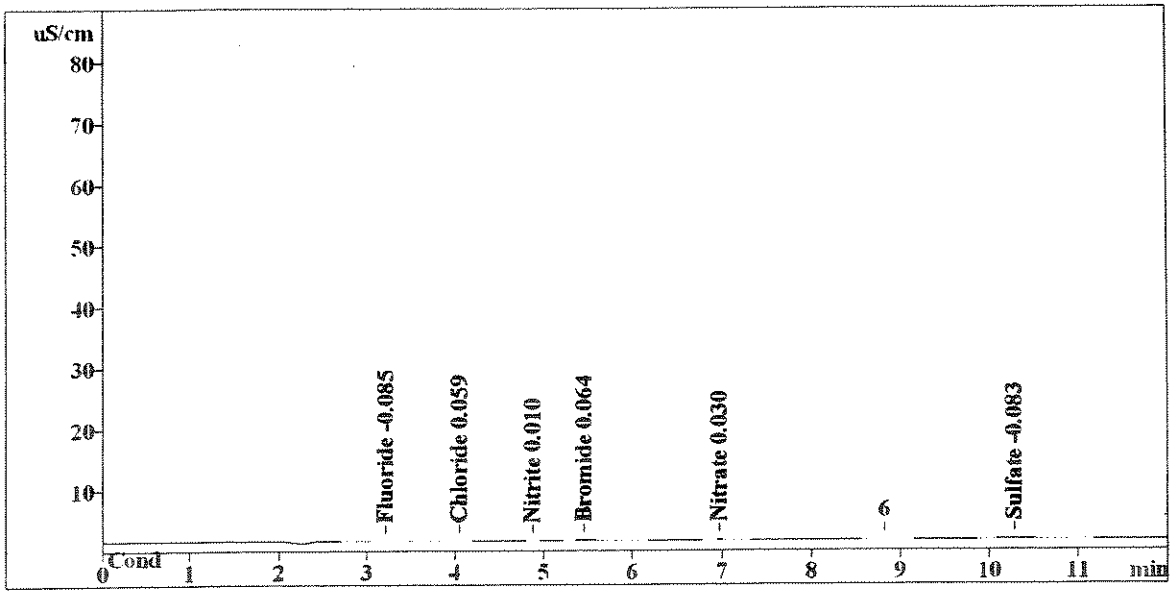
Metrohm software needs us to manually assign a peak area in order for it to be used in curve

JC 6/10/08
SD 6/10/08

01166

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:16:22
Printed by:	User
Ident:	STANDARD 1
Analysis from:	6/10/2008 10:36:15
File:	s6101036.chw Last save: 6/10/2008 10:48:17
Modified! Manual peaks!	
Method:	06-10-08CAL.mtw Last save: 6/10/2008 10:14:45
Run operator:	User
Analysis number:	36783
SAMPLE:	ANALYST: TC
Vial number:	1
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.20	0.174	-0.085	Fluoride
2	4.04	1.807	0.059	Chloride
3	4.88	-0.000	0.010	Nitrite
4	5.45	0.168	0.064	Bromide
5	6.98	0.076	0.030	Nitrate
6	10.29	0.681	-0.083	Sulfate
6	12.00	2.905	0.332	

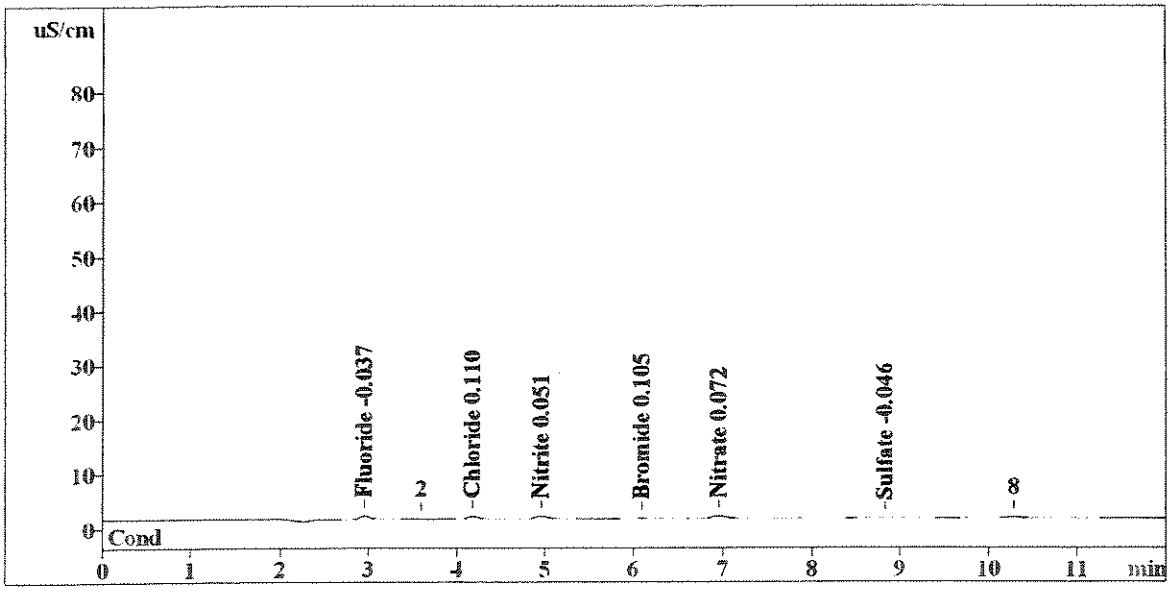
OK

This report has been created by IC Net
METROHM LTD

TC 6/10/08
SD 6/11/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 11:02:22	
Printed by:	User	
Ident:	STANDARD 2	
Analysis from:	6/10/2008 10:50:20	
File:	S6101050.CHW	Last save: 6/10/2008 11:02:28
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 10:48:17
Run operator:	User	
Analysis number:	36784	
SAMPLE:	PIPETTES: LUCY, MINE	
Vial number:	2	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	5.055	-0.037	Fluoride
2	4.17	4.825	0.110	Chloride
3	4.95	5.677	0.051	Nitrite
4	6.08	1.243	0.105	Bromide
5	6.95	7.060	0.072	Nitrate
6	8.83	0.074	-0.046	Sulfate
6	12.00	23.935	0.421	

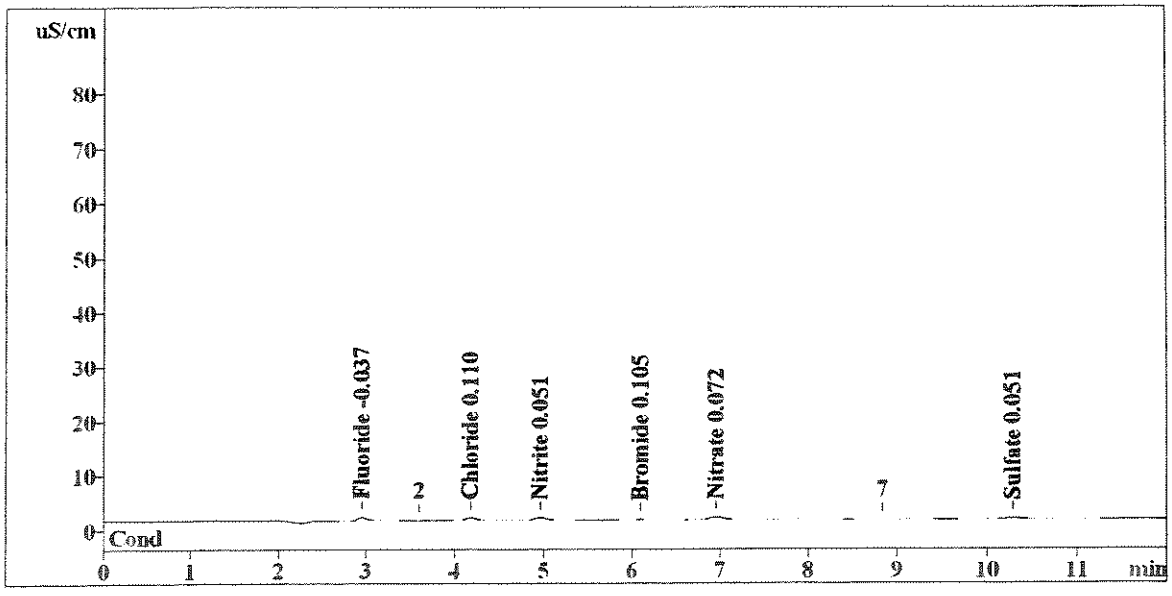
Reprocess SO4 for R.T.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:17:08
Printed by:	User
Ident:	STANDARD 2
Analysis from:	6/10/2008 10:50:20
File:	s6101050.chw Last save: 6/10/2008 11:02:28
Modified!	
Method:	06-10-08CAL.mtw Last save: 6/10/2008 10:48:17
Run operator:	User
Analysis number:	36784
SAMPLE:	PIPETTES: LUCY, MINE
Vial number:	2
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	5.055	-0.037	Fluoride
2	4.17	4.825	0.110	Chloride
3	4.95	5.677	0.051	Nitrite
4	6.08	1.243	0.105	Bromide
5	6.95	7.060	0.072	Nitrate
6	10.28	4.966	0.051	Sulfate
6	12.00	28.826	0.425	

OK

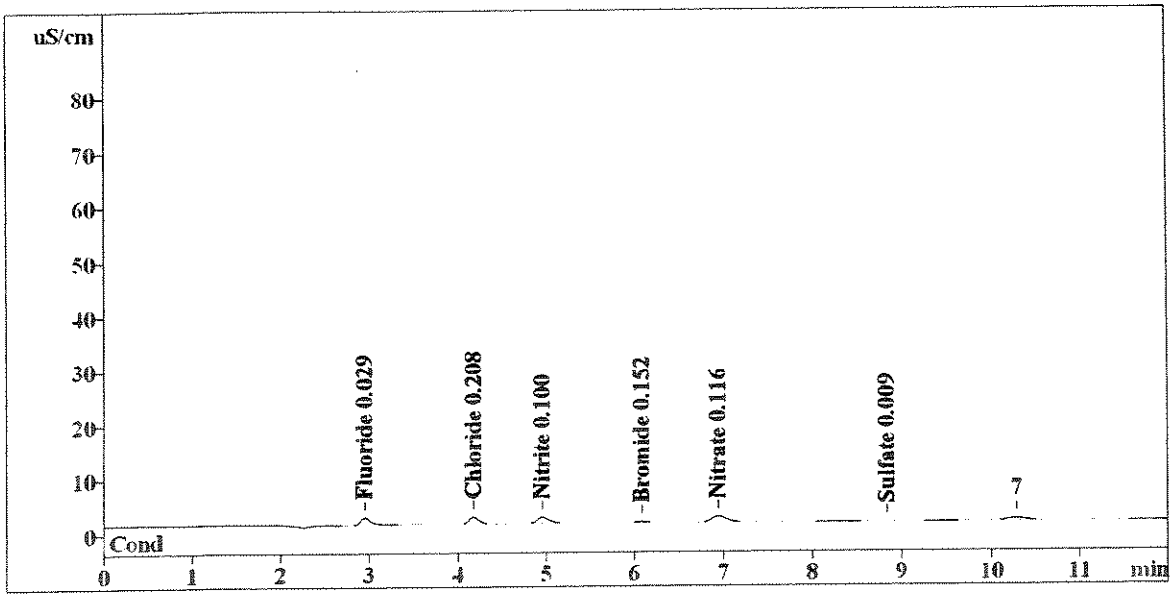
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 11:16:37	
Printed by:	User	
Ident:	STANDARD 3	
Analysis from:	6/10/2008 11:04:40	
File:	S6101104.CHW	Last save: 6/10/2008 11:16:44
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:02:28
Run operator:	User	
Analysis number:	36785	
SAMPLE:		
Vial number:	3	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	12.295	0.029	Fluoride
2	4.17	10.975	0.208	Chloride
3	4.95	12.432	0.100	Nitrite
4	6.08	2.531	0.152	Bromide
5	6.94	14.472	0.116	Nitrate
6	8.84	0.073	0.009	Sulfate
6	12.00	52.779	0.613	

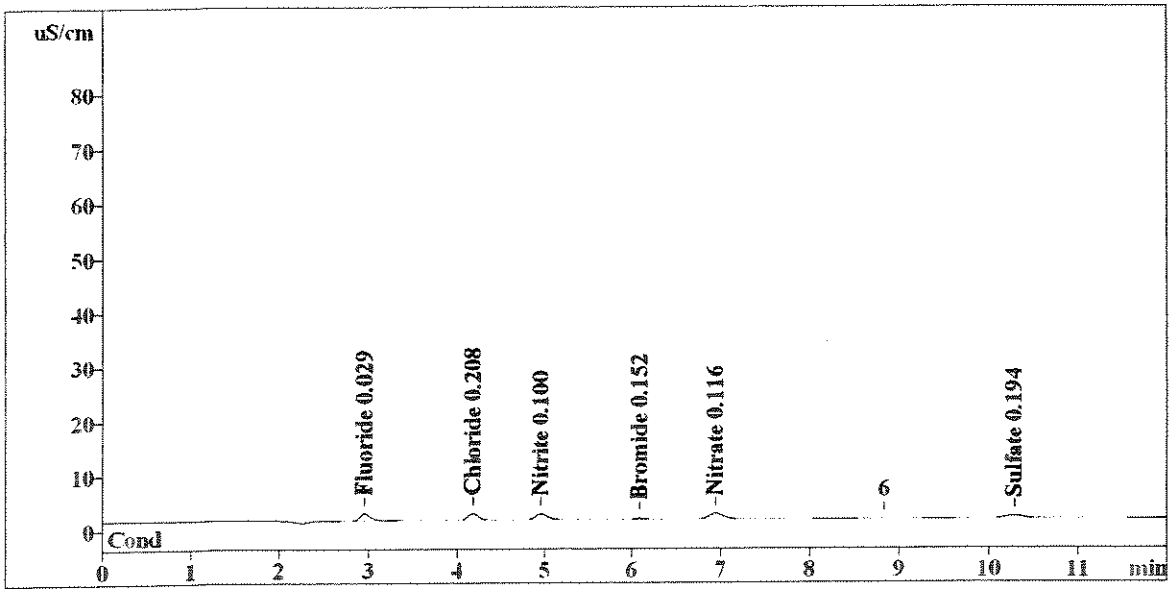
Reprocess for SO4 R.T.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:17:32	
Printed by:	User	
Ident:	STANDARD 3	
Analysis from:	6/10/2008 11:04:40	
File:	s6101104.chw	Last save: 6/10/2008 11:16:44
Modified!		
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:02:28
Run operator:	User	
Analysis number:	36785	
SAMPLE:		
Vial number:	3	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	12.295	0.029	Fluoride
2	4.17	10.975	0.208	Chloride
3	4.95	12.432	0.100	Nitrite
4	6.08	2.531	0.152	Bromide
5	6.94	14.472	0.116	Nitrate
6	10.28	9.443	0.194	Sulfate
6	12.00	62.148	0.797	

OK

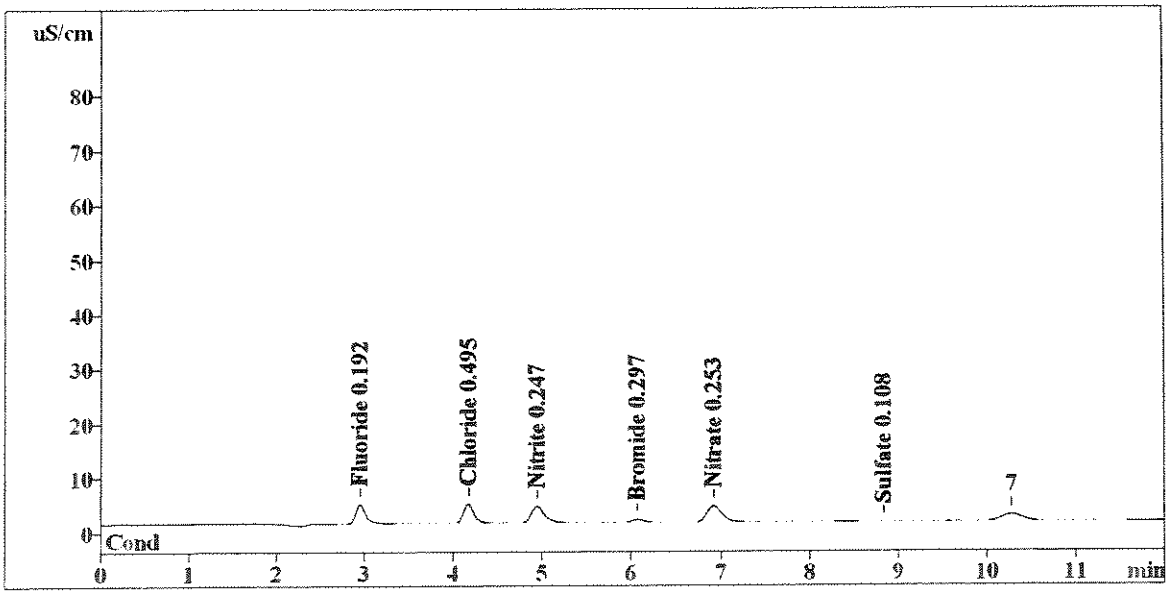
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 11:30:43	
Printed by:	User	
Ident:	STANDARD 4	
Analysis from:	6/10/2008 11:18:45	
File:	S6101118.CHW	Last save: 6/10/2008 11:30:49
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:16:44
Run operator:	User	
Analysis number:	36786	
SAMPLE:		
Vial number:	4	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	30.141	0.192	Fluoride
2	4.17	29.633	0.495	Chloride
3	4.95	32.381	0.247	Nitrite
4	6.07	6.312	0.297	Bromide
5	6.92	37.672	0.253	Nitrate
6	8.83	0.083	0.108	Sulfate
6	12.00	136.221	1.593	

Rep 100883 SO4 for R.T.

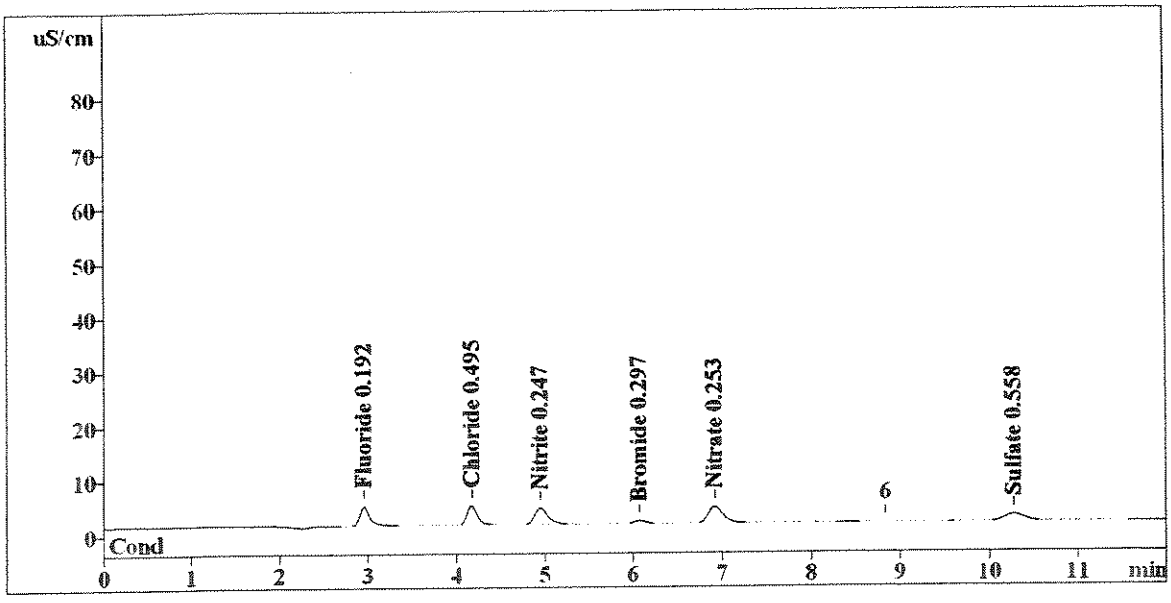
This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:17:52
Printed by:	User
Ident:	STANDARD 4
Analysis from:	6/10/2008 11:18:45
File:	s6101118.chw
Modified!	Last save: 6/10/2008 11:30:49
Method:	06-10-08CAL.mtw
	Last save: 6/10/2008 11:16:44
Run operator:	User
Analysis number:	36786
SAMPLE:	
Vial number:	4
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	30.141	0.192	Fluoride
2	4.17	29.633	0.495	Chloride
3	4.95	32.381	0.247	Nitrite
4	6.07	6.312	0.297	Bromide
5	6.92	37.672	0.253	Nitrate
6	10.28	23.227	0.558	Sulfate
6	12.00	159.366	2.043	

OK

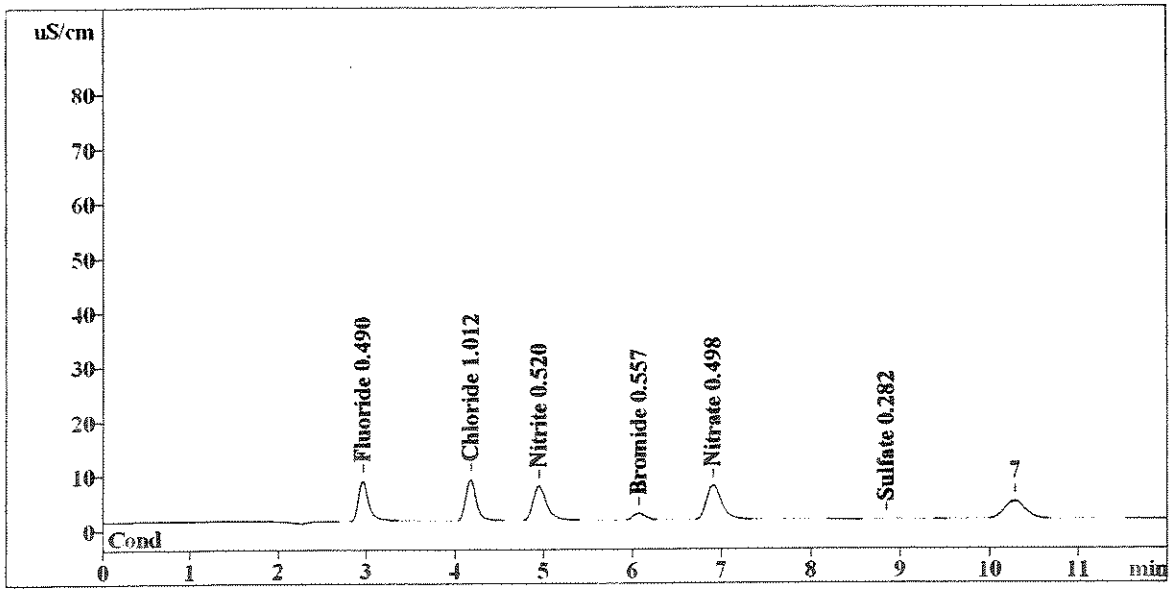
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 11:44:48
Printed by:	User
Ident:	STANDARD 5
Analysis from:	6/10/2008 11:32:50
File:	S6101132.CHW Last save: 6/10/2008 11:44:55
Method:	06-10-08CAL.mtw Last save: 6/10/2008 11:30:49
Run operator:	User
Analysis number:	36787
SAMPLE:	
Vial number:	5
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	63.574	0.490	Fluoride
2	4.17	63.407	1.012	Chloride
3	4.94	69.123	0.520	Nitrite
4	6.07	13.029	0.557	Bromide
5	6.90	78.819	0.498	Nitrate
6	8.84	0.090	0.282	Sulfate
6	12.00	288.041	3.360	

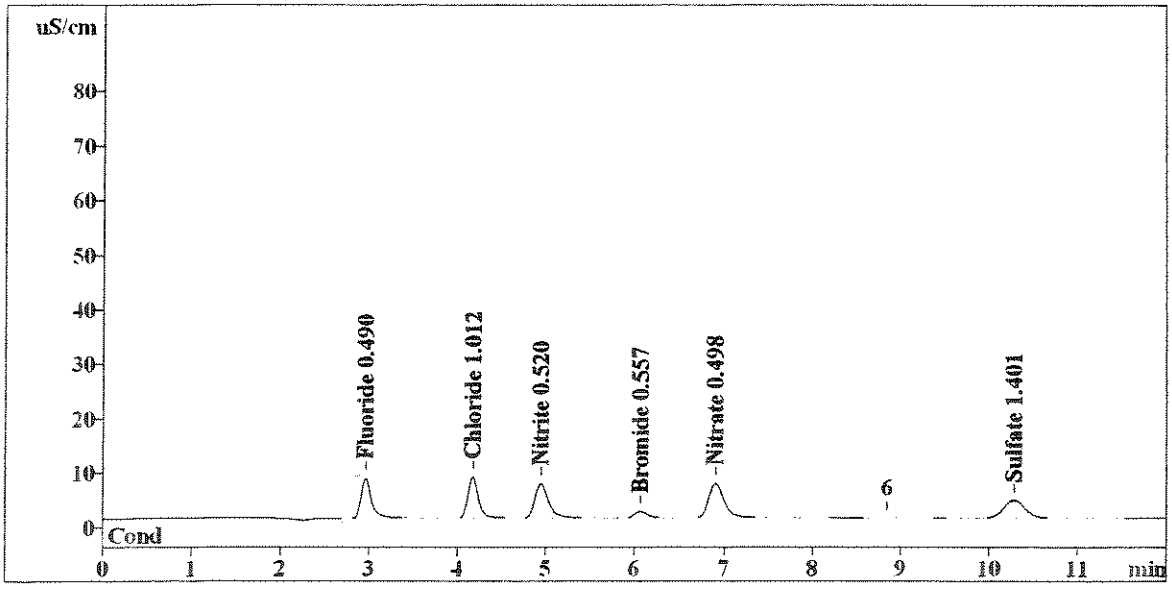
Reprocess SO4 for R.T.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:18:08	
Printed by:	User	
Ident:	STANDARD 5	
Analysis from:	6/10/2008 11:32:50	
File:	s6101132.chw	Last save: 6/10/2008 11:44:55
Modified!		
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:30:49
Run operator:	User	
Analysis number:	36787	
SAMPLE:		
Vial number:	5	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	63.574	0.490	Fluoride
2	4.17	63.407	1.012	Chloride
3	4.94	69.123	0.520	Nitrite
4	6.07	13.029	0.557	Bromide
5	6.90	78.819	0.498	Nitrate
6	10.28	58.915	1.401	Sulfate
6	12.00	346.866	4.479	

OK

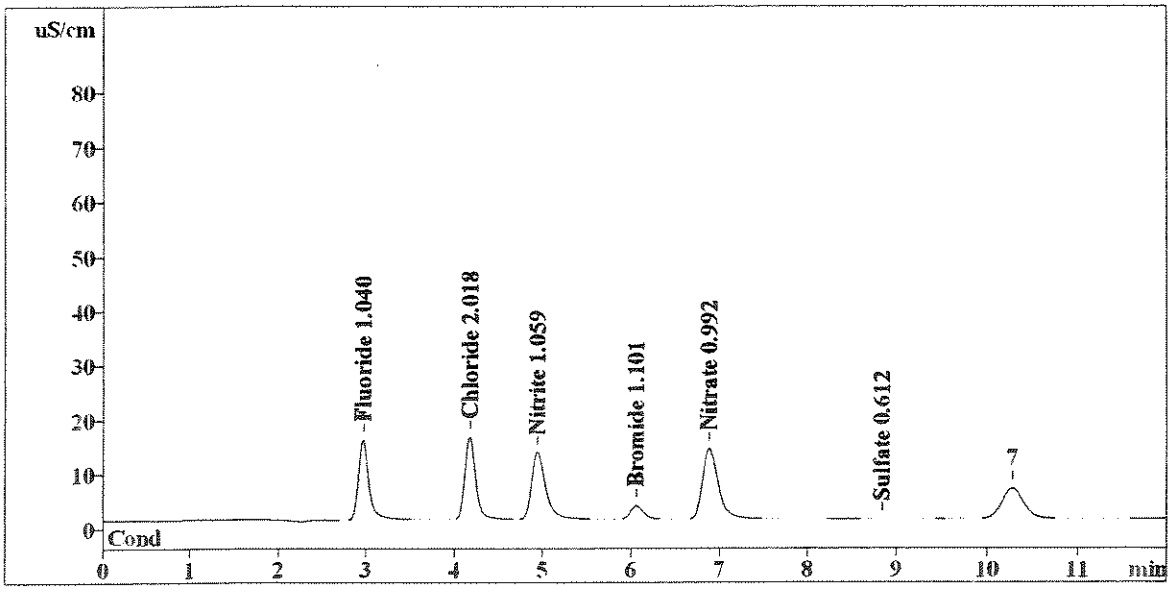
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 11:58:53	
Printed by:	User	
Ident:	STANDARD 6	
Analysis from:	6/10/2008 11:46:56	
File:	S6101146.CHW	Last save: 6/10/2008 11:59:01
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:44:55
Run operator:	User	
Analysis number:	36788	
SAMPLE:		
Vial number:	6	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	124.889	1.040	Fluoride
2	4.17	128.121	2.018	Chloride
3	4.94	139.796	1.059	Nitrite
4	6.06	26.684	1.101	Bromide
5	6.88	161.167	0.992	Nitrate
6	8.85	0.092	0.612	Sulfate
6	12.00	580.751	6.821	

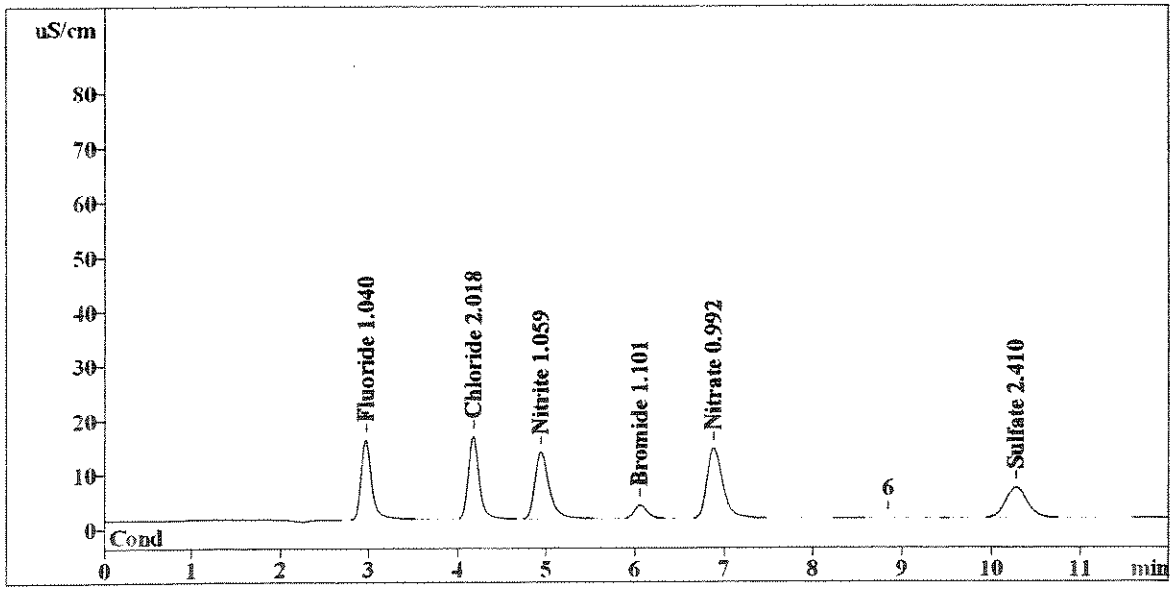
Reprocess for SO4 R.T.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:18:24
Printed by:	User
Ident:	STANDARD 6
Analysis from:	6/10/2008 11:46:56
File:	s6101146.chw Last save: 6/10/2008 11:59:01
Modified!	
Method:	06-10-08CAL.mtw Last save: 6/10/2008 11:44:55
Run operator:	User
Analysis number:	36788
SAMPLE:	
Vial number:	6
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	124.889	1.040	Fluoride
2	4.17	128.121	2.018	Chloride
3	4.94	139.796	1.059	Nitrite
4	6.06	26.684	1.101	Bromide
5	6.88	161.167	0.992	Nitrate
6	10.28	98.215	2.410	Sulfate
6	12.00	678.874	8.619	

OK

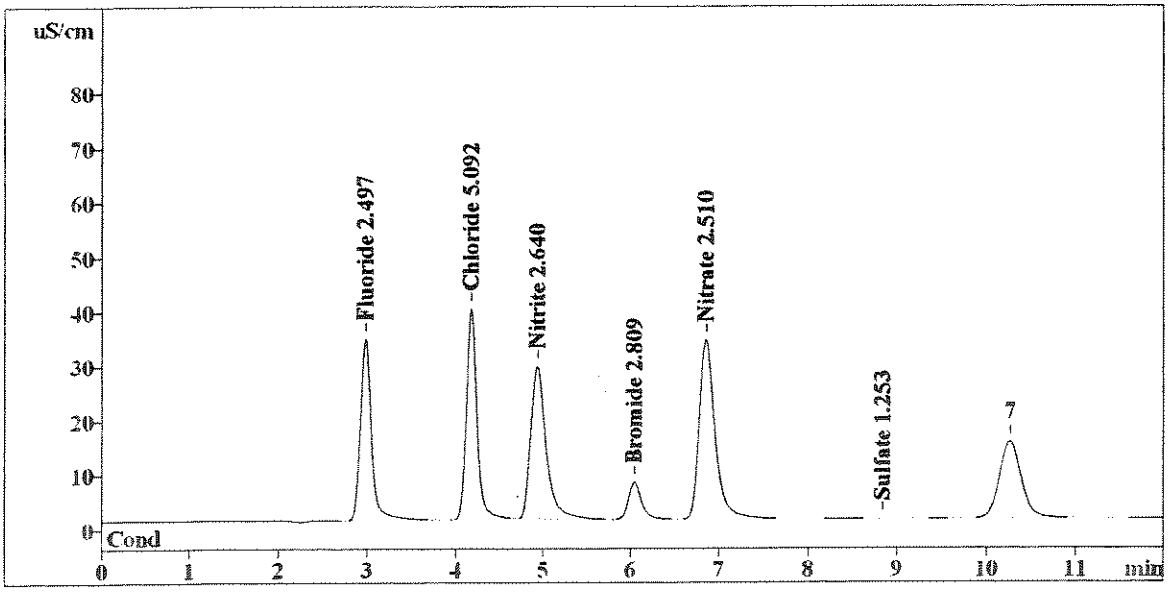
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 12:12:58	
Printed by:	User	
Ident:	STANDARD 7	
Analysis from:	6/10/2008 12:01:01	
File:	S6101201.CHW	Last save: 6/10/2008 12:13:07
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:59:01
Run operator:	User	
Analysis number:	36789	
SAMPLE:		
Vial number:	7	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.97	291.066	2.497	Fluoride
2	4.17	326.118	5.092	Chloride
3	4.93	346.689	2.640	Nitrite
4	6.04	69.338	2.809	Bromide
5	6.85	412.452	2.510	Nitrate
6	8.84	0.091	1.253	Sulfate
6	12.00	1445.754	16.800	

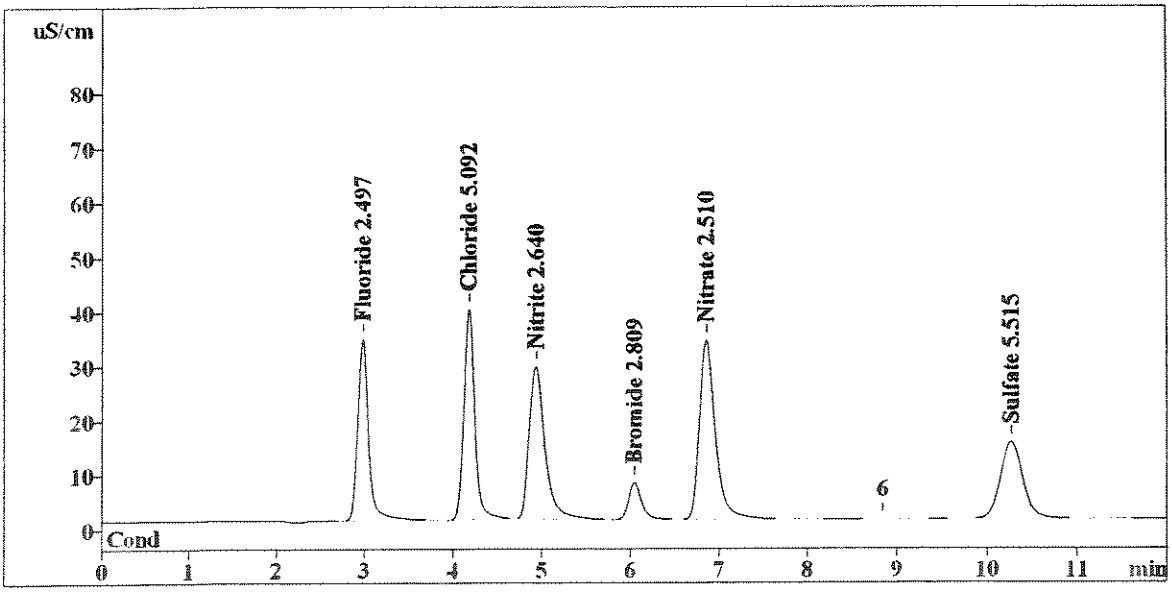
Reprocess for SO4 RT.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:18:39	
Printed by:	User	
Ident:	STANDARD 7	
Analysis from:	6/10/2008 12:01:01	
File:	s6101201.chw	Last save: 6/10/2008 12:13:07
Modified!		
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 11:59:01
Run operator:	User	
Analysis number:	36789	
SAMPLE:		
Vial number:	7	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.97	291.066		2.497	Fluoride
2	4.17	326.118		5.092	Chloride
3	4.93	346.689	OK	2.640	Nitrite
4	6.04	69.338		2.809	Bromide
5	6.85	412.452		2.510	Nitrate
6	10.27	249.613		5.515	Sulfate
6	12.00	1695.277		21.062	

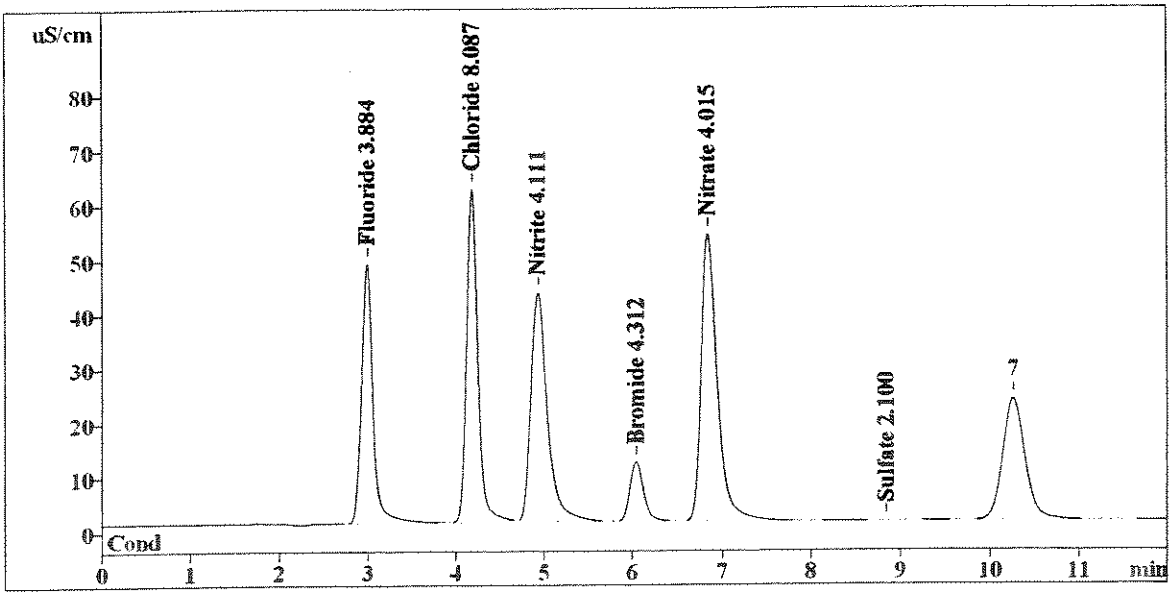
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609
Report date: 6/10/2008 12:27:03
Printed by: User
Ident: STANDARD 8
Analysis from: 6/10/2008 12:15:06
File: S6101215.CHW Last save: 6/10/2008 12:27:13

Method: 06-10-08CAL.mtw Last save: 6/10/2008 12:13:07
Run operator: User
Analysis number: 36790
SAMPLE:
Vial number: 8
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	440.713	3.884	Fluoride
2	4.17	521.823	8.087	Chloride
3	4.92	547.369	4.111	Nitrite
4	6.04	112.329	4.312	Bromide
5	6.84	662.748	4.015	Nitrate
6	8.84	0.077	2.100	Sulfate
6	12.00	2285.058	26.509	

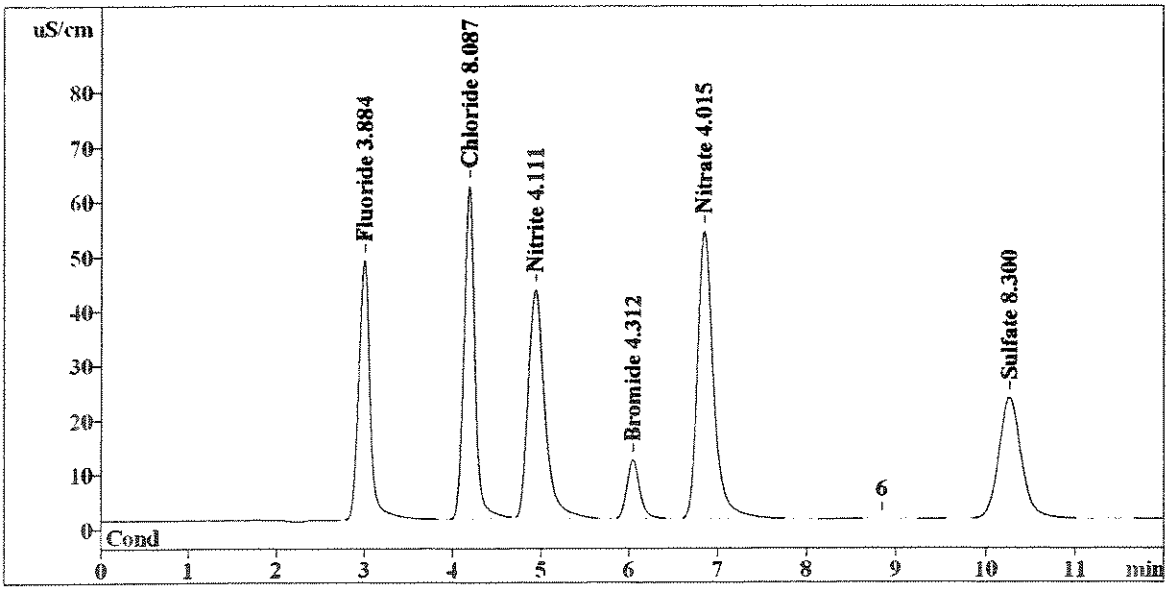
Reprocess for SO4 R.T.

This report has been created by IC Net
METROHM LTD

TC 6/10/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 13:18:53
Printed by:	User
Ident:	STANDARD 8
Analysis from:	6/10/2008 12:15:06
File:	s6101215.chw Last save: 6/10/2008 12:27:13
Modified!	
Method:	06-10-08CAL.mtw Last save: 6/10/2008 12:13:07
Run operator:	User
Analysis number:	36790
SAMPLE:	
Vial number:	8
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.98	440.713	3.884	Fluoride
2	4.17	521.823	8.087	Chloride
3	4.92	547.369	4.111	Nitrite
4	6.04	112.329	4.312	Bromide
5	6.84	662.748	4.015	Nitrate
6	10.26	395.831	8.300	Sulfate
6	12.00	2680.813	32.708	

OK

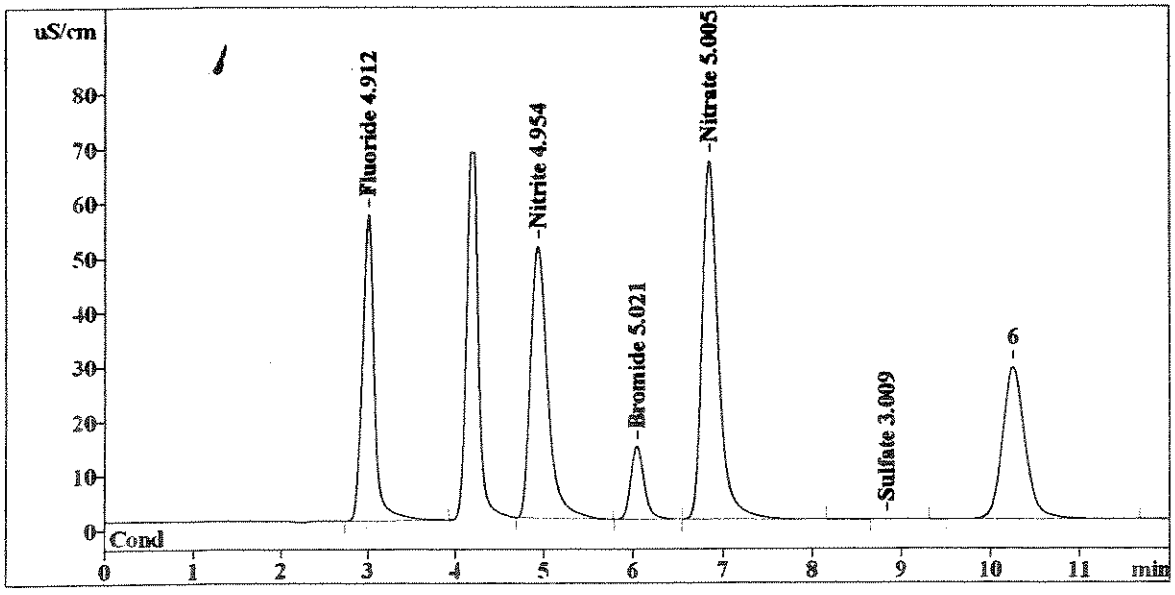
This report has been created by IC Net
METROHM LTD

TC 6/10/08

SD 6/12/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 12:41:09	
Printed by:	User	
Ident:	STANDARD 9	
Analysis from:	6/10/2008 12:29:12	
File:	S6101229.CHW	Last save: 6/10/2008 12:41:19
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 12:27:13
Run operator:	User	
Analysis number:	36791	
SAMPLE:		
Vial number:	9	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	540.335	4.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.92	673.722	4.954	Nitrite
4	6.04	141.275	5.021	Bromide
5	6.83	829.713	5.005	Nitrate
6	8.84	0.080	3.009	Sulfate
6	12.00	2185.125	22.901	

Needs Reprocess for SO4 ICT

This report has been created by IC Net
METROHM LTD

R 6/12/08
Needs reprocess for SO4 due retention time

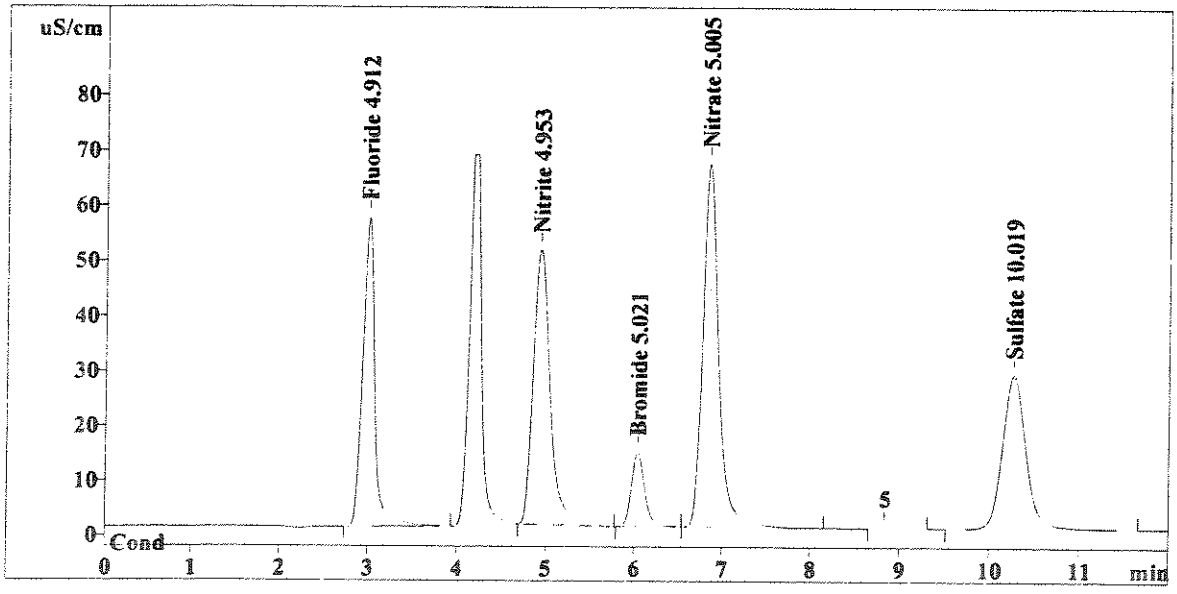
Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 15:26:11
Printed by:	User
Ident:	STANDARD 9
Analysis from:	6/10/2008 12:29:12
File:	s6101229.chw

Last save: 6/10/2008 13:47:36

Method:	06-10-08CAL.mtw
Run operator:	User
Analysis number:	36791
SAMPLE:	
Vial number:	9
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 6/10/2008 10:14:45



Quantitation method: Custom

Reprocessed

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	540.335	4.912	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.92	673.722	4.953	Nitrite
4	6.04	141.275	5.021	Bromide
5	6.83	829.713	5.005	Nitrate
6	10.26	497.998	10.019	Sulfate
6	12.00	2683.043	29.910	

OK — OK

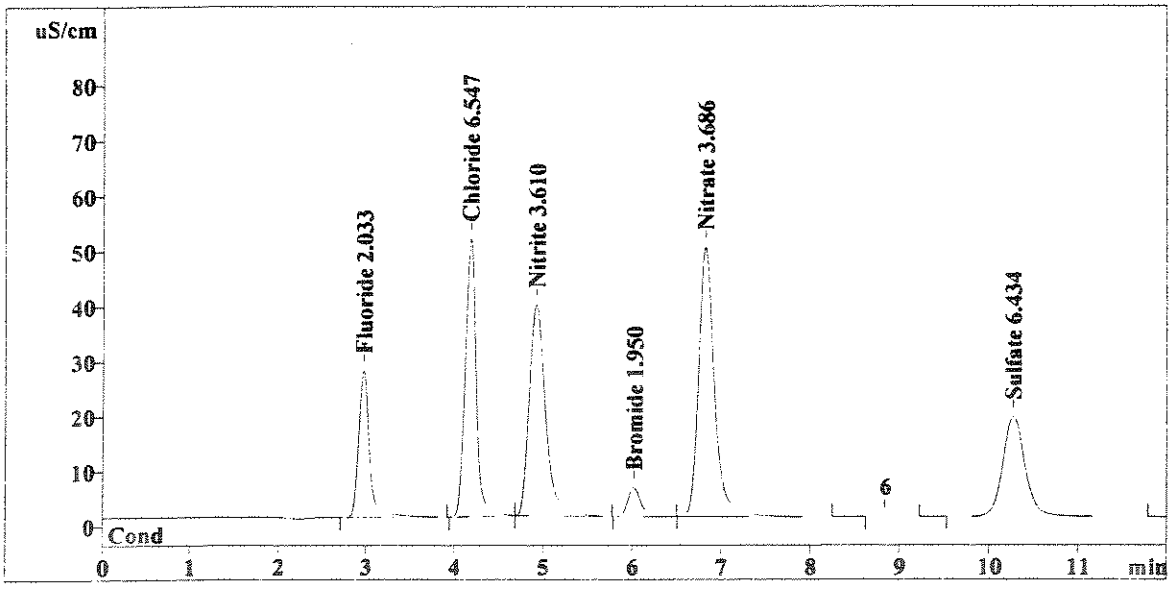
Do Not Report above 8.0 ppm

This report has been created by IC Net
METROHM LTD

SD 6/12/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 15:06:55	
Printed by:	User	
Ident:	ICV	
Analysis from:	6/10/2008 13:52:24	
File:	s6101352.chw	Last save: 6/10/2008 14:04:36
Modified!		
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 13:48:56
Run operator:	User	
Analysis number:	36792	
SAMPLE:		
Vial number:	10	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

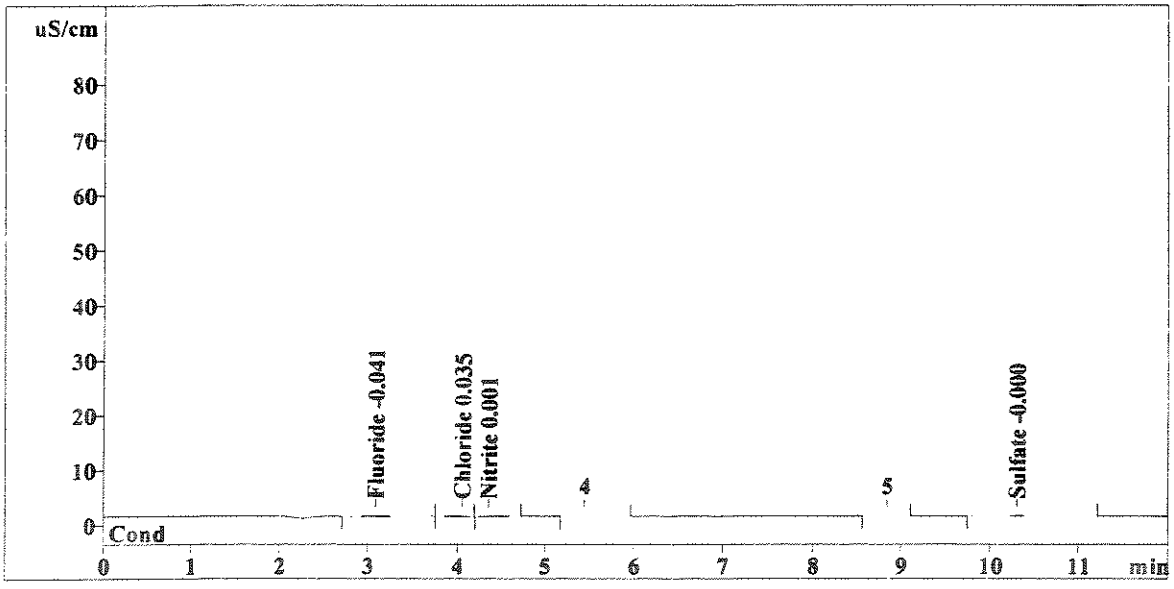
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.96	226.786	2.033	Fluoride
2	4.16	426.728	6.547	Chloride
3	4.91	491.171	3.610	Nitrite
4	6.02	54.440	1.950	Bromide
5	6.81	610.275	3.686	Nitrate
6	10.27	320.183	6.434	Sulfate
6	12.00	2129.582	24.258	

This report has been created by IC Net
METROHM LTD

OK SD 6/12/08

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	6/10/2008 15:03:41	
Printed by:	User	
Ident:	ICB	
Analysis from:	6/10/2008 14:06:30	
File:	s6101406.chw	Last save: 6/10/2008 14:18:42
Method:	06-10-08CAL.mtw	Last save: 6/10/2008 13:48:56
Run operator:	User	
Analysis number:	36793	
SAMPLE:		
Vial number:	11	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.09	1.031	-0.041	Fluoride
2	4.05	0.750	0.035	Chloride
3	4.35	0.917	0.001	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	10.31	1.058	-0.000	Sulfate
6	12.00	3.756	0.077	

~~This report has been created by IC Net~~ OK SD 6/11/08
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 06/10/2008 **Loop size:** 50 uL Loop

Analyst: Tracy Christ **Analysis Date:** 6/10/08

Is copy of LCS attached to run? (YES) / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	06/10/08	WC72050A		Working Calibration Stds	06/10/08	WC72050H
LCS / MS Intermediate	06/10/08	WC72050A		Working LCS/MS Standard	06/10/08	WC72093A
ICV Intermediate	05/05/08	WC72134B		Working ICV Standard	DAILY	WC72134H
CCV Intermediate	05/05/08	WC72134B		Working CCV Standard	DAILY	WC72134H

Comments:

CALIBRATION EXPIRES ON 12/10/2008

CHORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

CALIBRATION INTERMEDIATE STOCK PREP
(used for Calibration and LCS / MS)

Analyte	1000ppm Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final Calibration Intermediate Stock ID
F	WC85077F	1000	10	200	50	TC	6/10/08	A	12/10/08	WC12-0050 A
Cl	WC85106C	1000	20		100			B		
NO2	WC12001J	1000	10		50			C		
Br	WC85116D	1000	10		50			D		
NO3	WC12002N	1000	10		50			E		
OPO4	—	1000	10		50			F		
SO4	WC15051Y	1000	20		100			G		

WORKING CALIBRATION STANDARDS PREP
(Stocks delivered using Volumetric glassware and brought to volume with DI. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs	Final Std Conc. F	Cl	NO2	Br	NO3	OPO4	SO4	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
9		10.0	100	5.0	10.0	5.0	5.0	5.0	5.0	10.0	TC	6/10/08	H	6/17/08	WC12-0050 H
8		8.0		4.0	8.0	4.0	4.0	4.0	4.0	8.0			I		
7		~~2.5~~ 5.0		2.5	5.0	2.5	2.5	2.5	2.5	5.0			J		
6		2.0		1.0	2.0	1.0	1.0	1.0	1.0	2.0			K		
5		1.0		0.5	1.0	0.50	0.50	0.50	0.50	1.0			L		
4		0.5		0.25	0.50	0.25	0.25	0.25	0.25	0.50			M		
3		0.2		0.10	0.20	0.10	0.10	0.10	0.10	0.20			N		
2		0.1		0.05	0.10	0.05	0.05	0.05	0.05	0.10			O		
1		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0			P		

WORKING LCS PREP

Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	LCI2208A	50	2.0	100	1.0	TC	6/10/08	A	6/17/08	LCI2.0093A
Cl		100			2.0			B		
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV / CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final ICV /CCV Intermediate Stock ID
F	WC850537C	1000	4.0	1000	4.0	CMW	3/25/08	A	9/25/08	WC720134A
Cl	WC85100D	650	20.0		13.0	TC	5/5/08	B	9/25/08	WC720134B
NO2	WC72007F	180	40.0		7.2			C		
Br	WC65037D	1000	4.0		4.0			D		
NO3	WC72007N	180	40.0		7.2			E		
OPO4	—	180	40.0		7.2			F		
SO4	WC72006Y	3200	4		12.8			G		

WORKING ICV / CCV PREP
(A 1:2 dilution of the Reference Intermediate Stock is done daily)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Final Working ICV / CCV ID
F	WC720134A	4.0	5.0	10.0	2.0	CMW	*DAILY*	~~A~~ H	WC720134H
Cl		13.0			6.5				
NO2		7.2			3.6				
Br		4.0			2.0				
NO3		7.2			3.6				
OPO4		7.2			3.6				
SO4		12.8			6.4				

CK 6/10/2004

124

01189

Run #: 164471
Analyte: BROMIDE 9056 BROMIDE BY ION CHROMATOGRAPHY
Printed: 07/24/08 09:51

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114758	WATER	1.00	U	10.0	0.100			07/23/08		ASPB
CHK5		1120290	WATER	2.02		1.0	0.100	101.2		07/23/08		
BLK4		1120291	WATER	0.100	U	1.0	0.100			07/23/08		
SPKB		1120292	WATER	0.966		1.0	0.100	96.6		07/23/08		

Records printed: 4

07-23-08 Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.s	CCV	119	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	120	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	121	1.0	1.0	1.0	100.0	0	1	1	ANALYST: CWoods	
Columbia-no dilution.s	1119854	4	1.0	100.0	1.0	100.0	0	1	1	CS	
Columbia-no dilution.s	1119855	5	1.0	100.0	1.0	100.0	0	1	1	CS	Pipets: Mine
Columbia-no dilution.s	1119839	6	1.0	1000.0	1.0	100.0	0	1	1	S	Lucy
Columbia-no dilution.s	1119840	7	1.0	1000.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1119851	8	1.0	100.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1119851 DUP	9	1.0	100.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1119851 SPK	10	1.0	100.0	1.0	100.0	0	1	1	S	
Columbia-no dilution.s	1114419	11	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114419 DUP	12	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114419 SPK	13	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114420	14	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114420 DUP	15	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114420 SPK	16	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114421	17	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114421 DUP	18	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114421 SPK	19	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114756	20	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114756 DUP	21	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114756 SPK	22	1.0	100.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	1114758	23	1.0	10.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	CCV	24	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	25	1.0	1.0	1.0	100.0	0	1	1		

WORKLISTS UPDATED

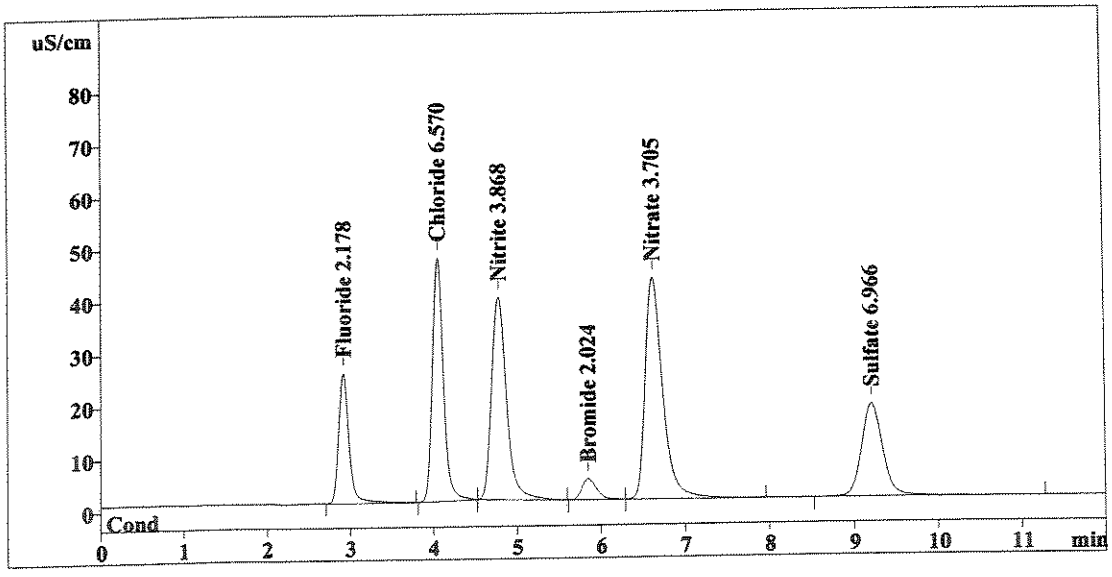
3 cpies.

45061
44803
44941

Reviewed & Approved
By: BBeaue
Date: 7/24 25/08
BB 7/25/08

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 12:27:09	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/23/2008 12:15:11	
File:	S7231215.CHW	Last save: 7/23/2008 12:27:09
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38608	
SAMPLE:		
Vial number:	119	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	221.073	2.178	Fluoride
2	4.05	420.073	6.570	Chloride
3	4.77	481.818	3.868	Nitrite
4	5.85	49.591	2.024	Bromide
5	6.62	602.043	3.705	Nitrate
6	9.21	313.017	6.966	Sulfate
6	12.00	2087.616	25.312	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

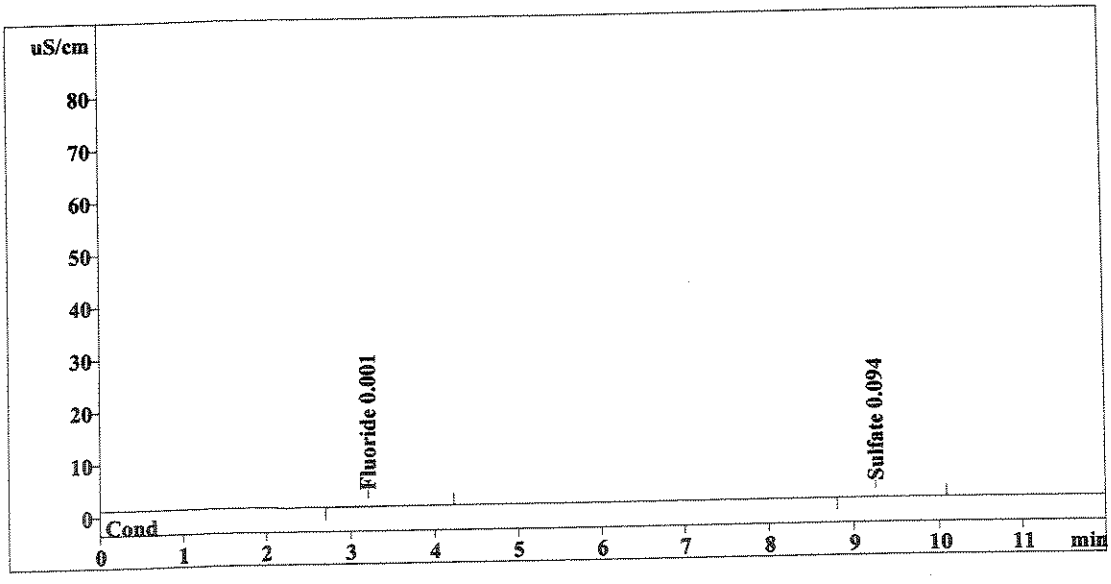
Report date:	7/23/2008 12:41:15
Printed by:	User
Ident:	CCB
Analysis from:	7/23/2008 12:29:17
File:	S7231229.CHW

Last save: 7/23/2008 12:41:15

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38609
SAMPLE:	
Vial number:	120
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/23/2008 12:12:26

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

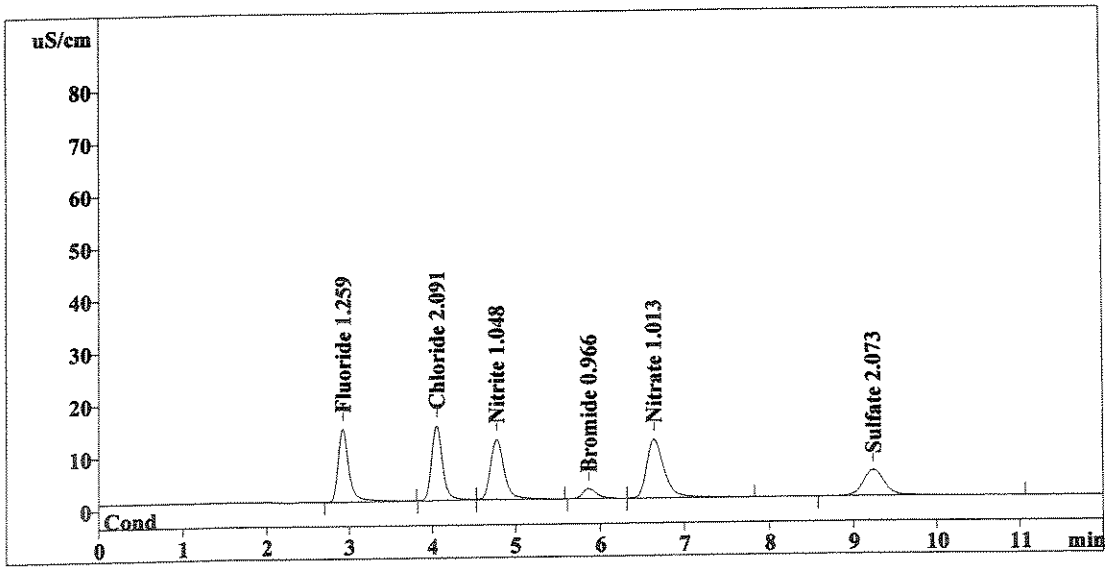
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.20	0.951	OK	0.001	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.26	0.863		0.094	Sulfate
6	12.00	1.813		0.096	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 12:55:21	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/23/2008 12:43:23	
File:	S7231243.CHW	Last save: 7/23/2008 12:55:21
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38610	
SAMPLE:		
Vial number:	121	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	128.104	OUT HIGH	1.259	Fluoride
2	4.05	130.650	OK	2.091	Chloride
3	4.77	129.596		1.048	Nitrite
4	5.87	22.910		0.966	Bromide
5	6.64	160.378		1.013	Nitrate
6	9.24	90.728		2.073	Sulfate
6	12.00	662.366		8.449	

CM 7/23/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

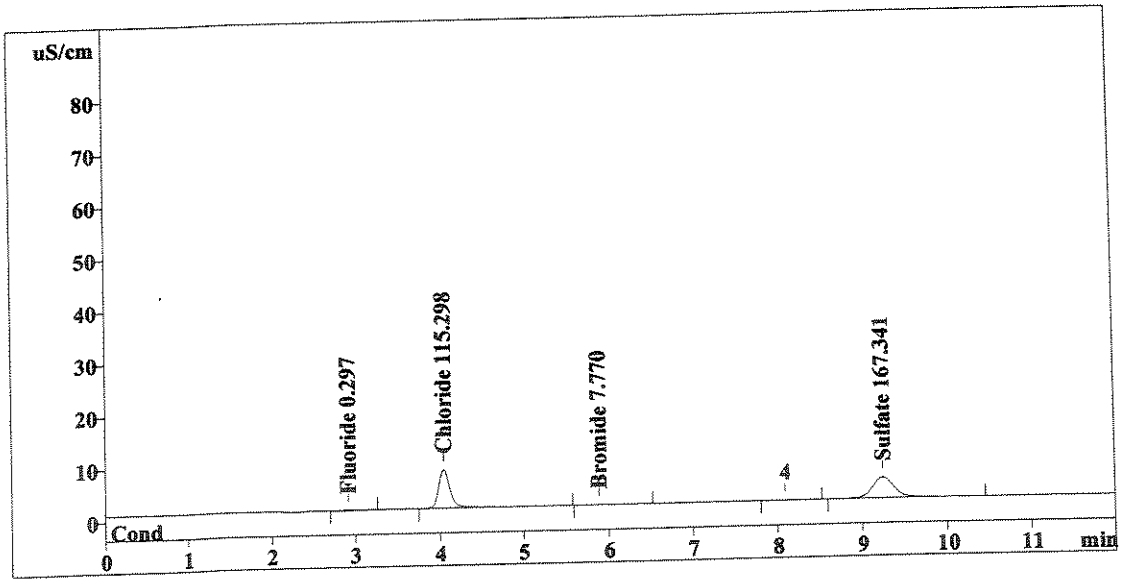
Report date:	7/23/2008 13:23:37
Printed by:	User
Ident:	1119854
Analysis from:	7/23/2008 13:11:39
File:	S7231311.CHW

Last save: 7/23/2008 13:23:37

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38611
SAMPLE:	CS
Vial number:	4
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/23/2008 12:12:26

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

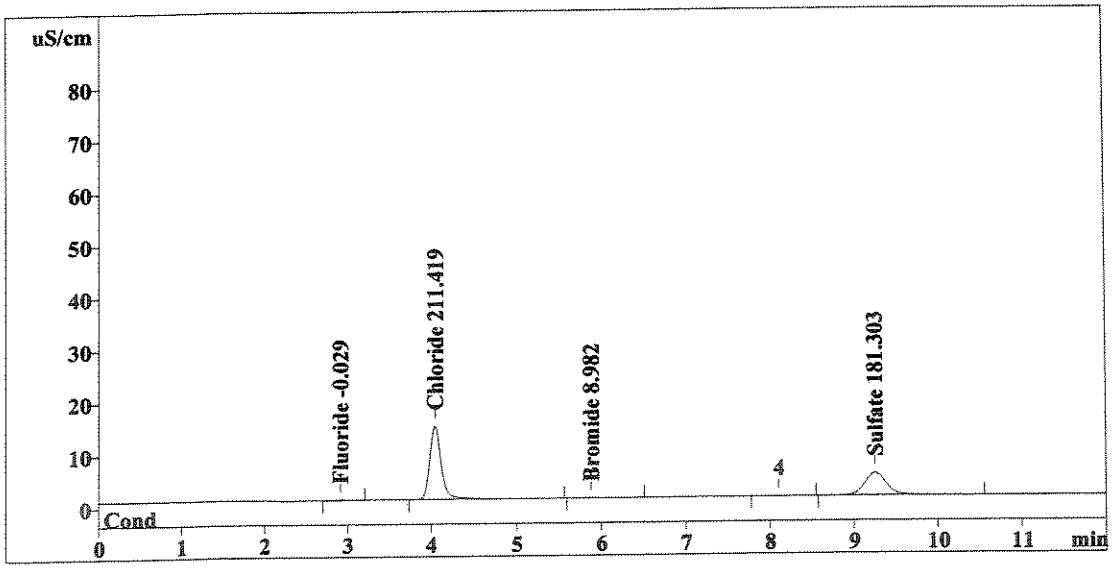
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	1.129		0.297	Fluoride
2	4.05	70.058	OK	115.298	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	0.526		7.770	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.25	72.596	OK	167.341	Sulfate
6	12.00	144.309		290.706	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 13:37:43	
Printed by:	User	
Ident:	1119855	
Analysis from:	7/23/2008 13:25:45	
File:	S7231325.CHW	Last save: 7/23/2008 13:37:43
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38612	
SAMPLE:	CS	
Vial number:	5	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

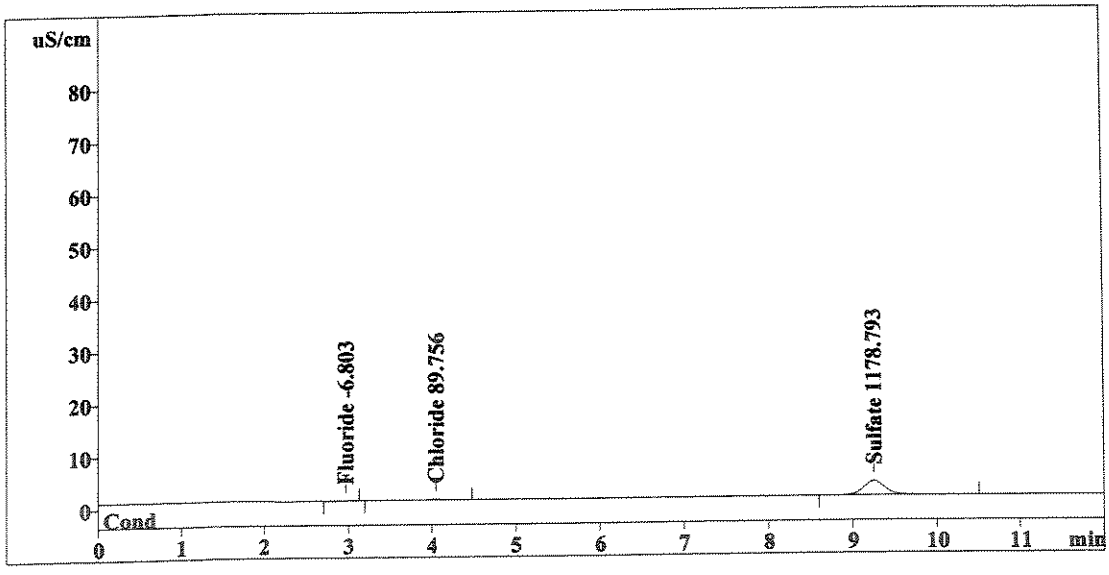
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.799		-0.029	Fluoride
2	4.04	132.160	OK	211.419	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.88	0.832		8.982	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.25	78.939	OK	181.303	Sulfate
6	12.00	212.729		401.733	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 13:51:49	
Printed by:	User	
Ident:	1119839	
Analysis from:	7/23/2008 13:39:51	
File:	S7231339.CHW	Last save: 7/23/2008 13:51:49
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38613	
SAMPLE:	S	
Vial number:	6	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.96	0.140		-6.803	Fluoride
2	4.05	1.365		89.756	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.25	50.127	ok	1178.793	Sulfate
6	12.00	51.632		1275.352	

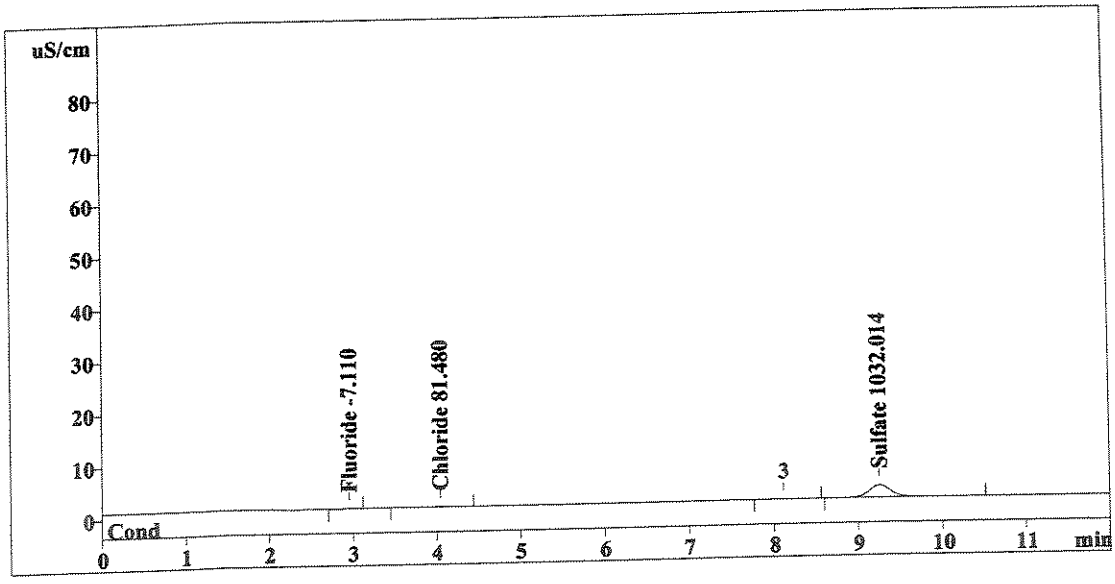
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 14:05:55	
Printed by:	User	
Ident:	1119840	
Analysis from:	7/23/2008 13:53:57	Last save: 7/23/2008 14:05:54
File:	S7231353.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38614	
SAMPLE:	S	
Vial number:	7	
Volume:	1.0 µL	
Dilution:	1000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	0.109	-7.110	Fluoride
2	4.05	0.830	81.480	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.26	43.459	1032.014	Sulfate
6	12.00	44.399	1120.604	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

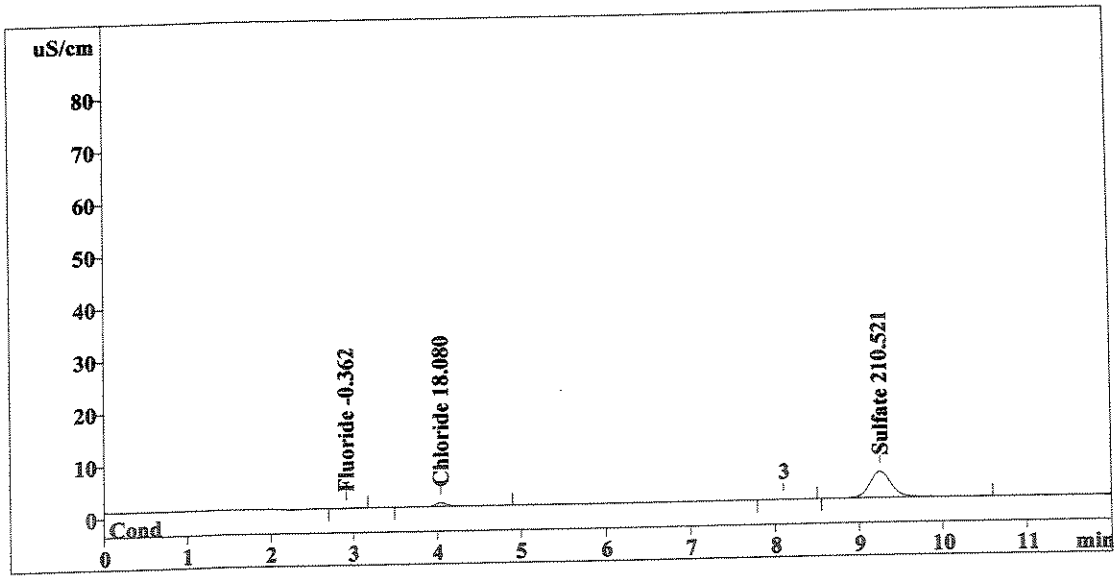
Report date:	7/23/2008 14:20:00
Printed by:	User
Ident:	1119851
Analysis from:	7/23/2008 14:08:02
File:	S7231408.CHW

Last save: 7/23/2008 14:20:00

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38615
SAMPLE:	S
Vial number:	8
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/23/2008 12:12:26

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.463		-0.362	Fluoride
2	4.04	7.247		18.080	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.26	92.212	ox	210.521	Sulfate
6	12.00	99.922		228.963	

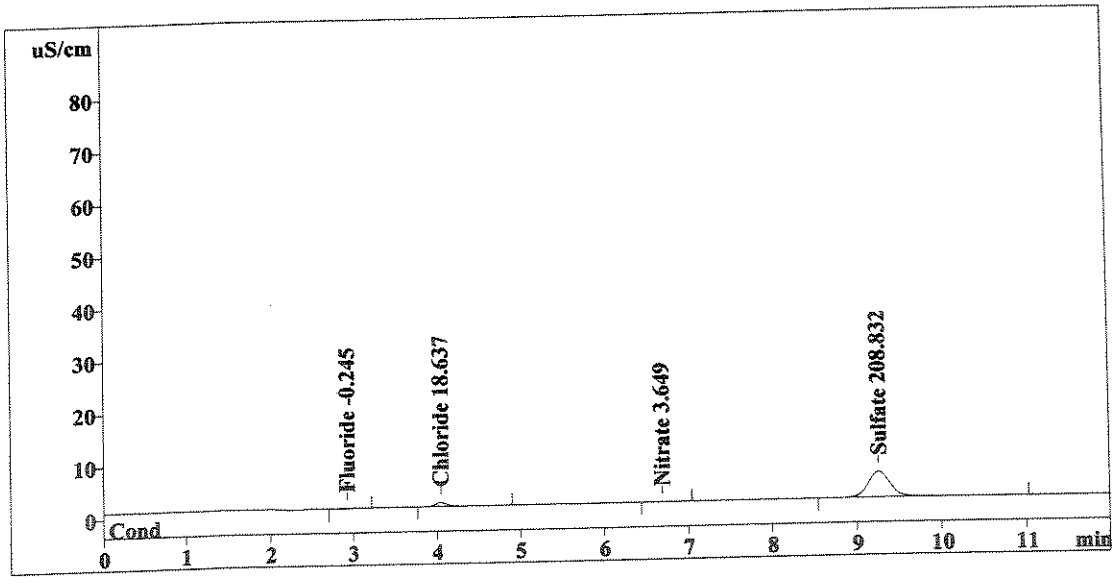
CMT 7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 14:34:06
Printed by:	User
Ident:	1119851 DUP
Analysis from:	7/23/2008 14:22:08
File:	S7231422.CHW
	Last save: 7/23/2008 14:34:06
Method:	07-17-08CAL.mtw
	Last save: 7/23/2008 12:12:26
Run operator:	User
Analysis number:	38616
SAMPLE:	S
Vial number:	9
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.93	0.580		-0.245	Fluoride
2	4.04	7.607		18.637	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.69	0.076		3.649	Nitrate
6	9.26	91.444	OK	208.832	Sulfate
6	12.00	99.707		231.363	

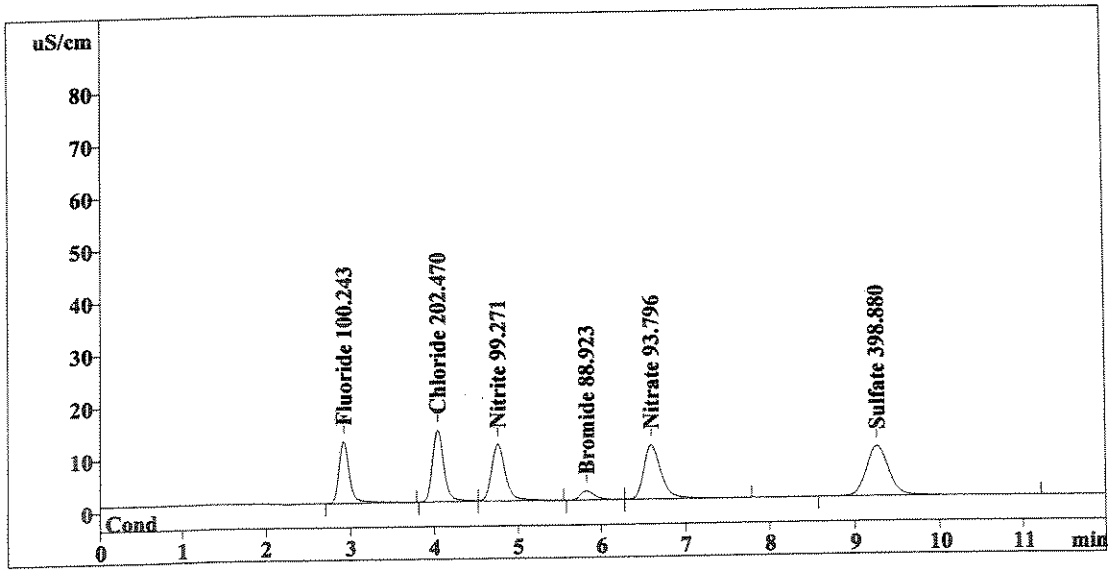
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 14:48:12	
Printed by:	User	
Ident:	1119851 SPK	
Analysis from:	7/23/2008 14:36:14	
File:	S7231436.CHW	Last save: 7/23/2008 14:48:12
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38617	
SAMPLE:	S	
Vial number:	10	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	102.196	100.243	Fluoride
2	4.04	126.378	202.470	Chloride
3	4.75	122.674	99.271	Nitrite
4	5.83	20.983	88.923	Bromide
5	6.59	147.992	93.796	Nitrate
6	9.26	177.778	398.880	Sulfate
6	12.00	698.001	983.584	

OK

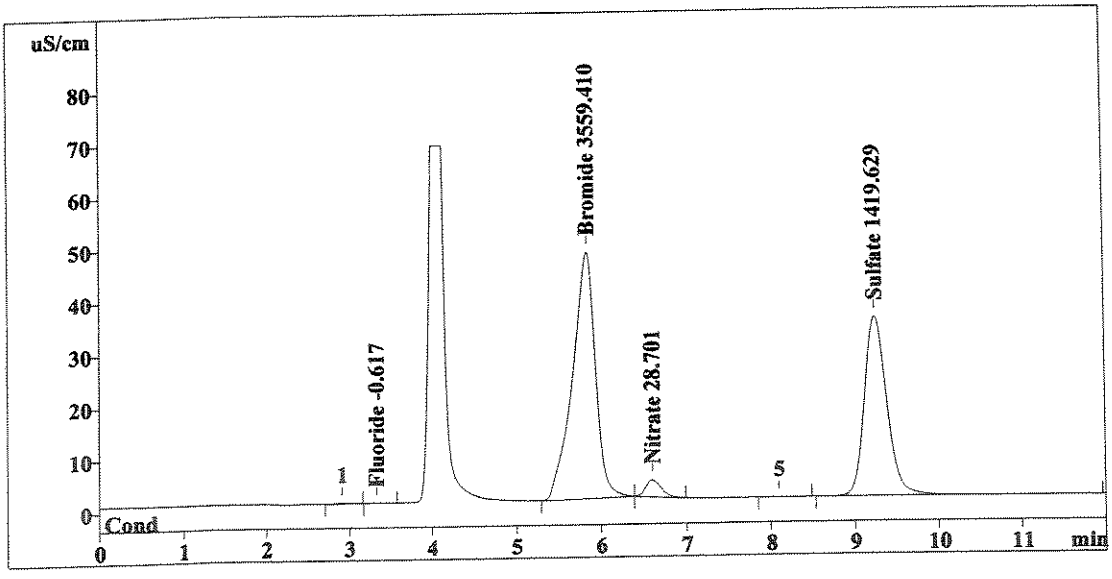
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 15:02:18	
Printed by:	User	
Ident:	1114419	
Analysis from:	7/23/2008 14:50:20	
File:	S7231450.CHW	Last save: 7/23/2008 15:02:17
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38618	
SAMPLE:	B	
Vial number:	11	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

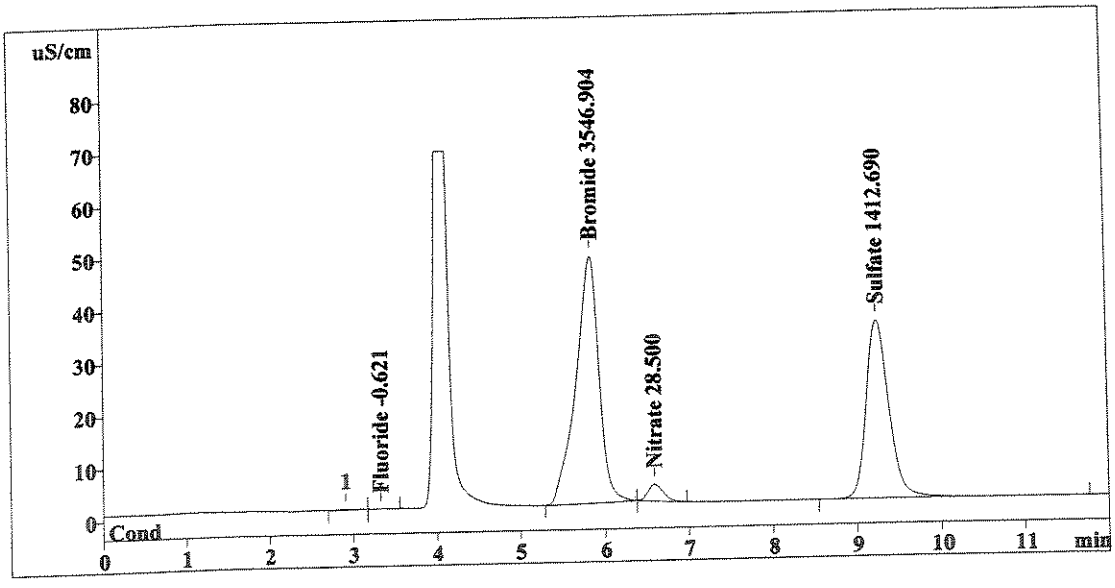
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.32	0.205		-0.617	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.84	895.825	1/400	3559.410	Bromide
5	6.60	41.181		28.701	Nitrate
6	9.25	641.478		1419.629	Sulfate
6	12.00	1578.688		5008.357	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 15:16:23
Printed by:	User
Ident:	1114419 DUP
Analysis from:	7/23/2008 15:04:25
File:	S7231504.CHW
	Last save: 7/23/2008 15:16:23
Method:	07-17-08CAL.mtw
	Last save: 7/23/2008 12:12:26
Run operator:	User
Analysis number:	38619
SAMPLE:	B
Vial number:	12
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

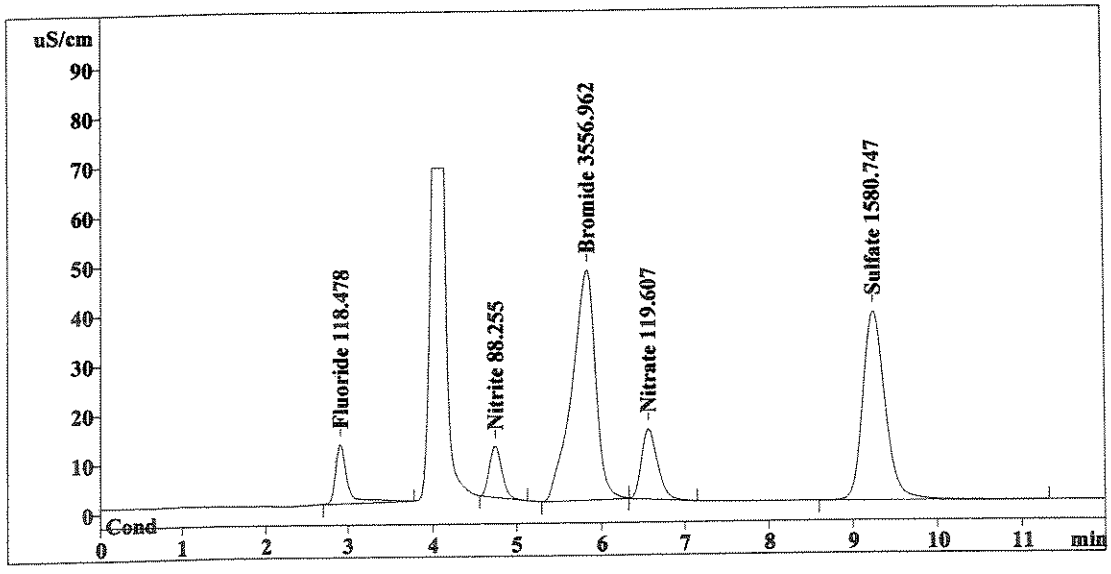
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.32	0.201	-0.621	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.84	892.672	3546.904	Bromide
5	6.59	40.853	28.500	Nitrate
6	9.25	638.326	1412.690	Sulfate
6	12.00	1572.051	4988.715	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 15:30:29	
Printed by:	User	
Ident:	1114419 SPK	
Analysis from:	7/23/2008 15:18:31	
File:	S7231518.CHW	Last save: 7/23/2008 15:30:29
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38620	
SAMPLE:	B	
Vial number:	13	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	120.635	118.478	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.74	108.914	88.255	Nitrite
4	5.83	895.208	3556.962	Bromide
5	6.56	190.346	119.607	Nitrate
6	9.25	714.670	1580.747	Sulfate
6	12.00	2029.772	5464.050	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

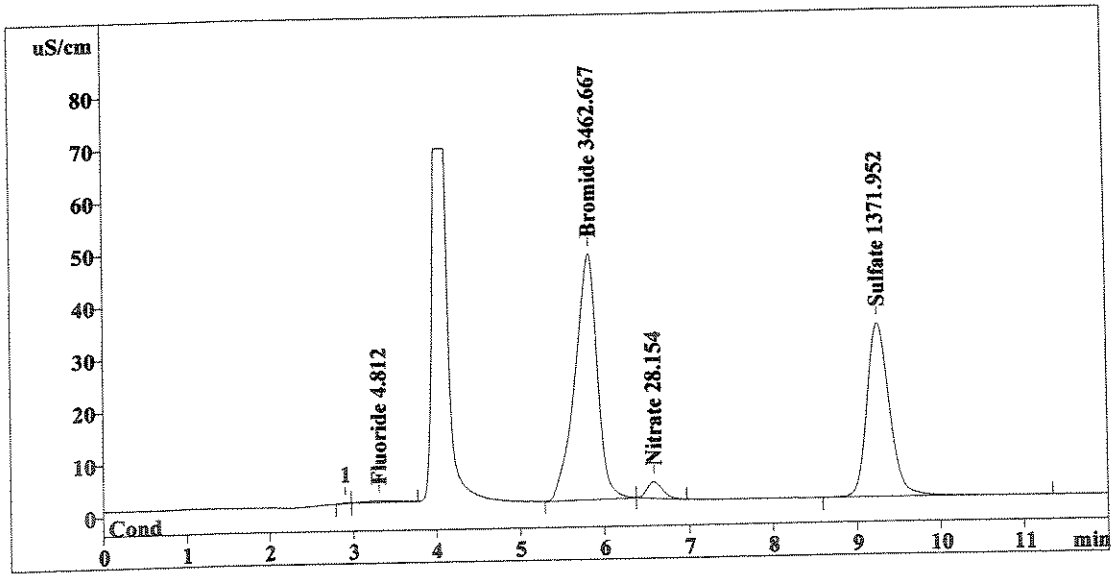
Report date:	7/23/2008 15:44:35
Printed by:	User
Ident:	1114420
Analysis from:	7/23/2008 15:32:37
File:	S7231532.CHW

Last save: 7/23/2008 15:44:35

Method:	07-17-08CAL.mtw

Last save: 7/23/2008 12:12:26

Run operator:	User
Analysis number:	38621
SAMPLE:	B
Vial number:	14
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

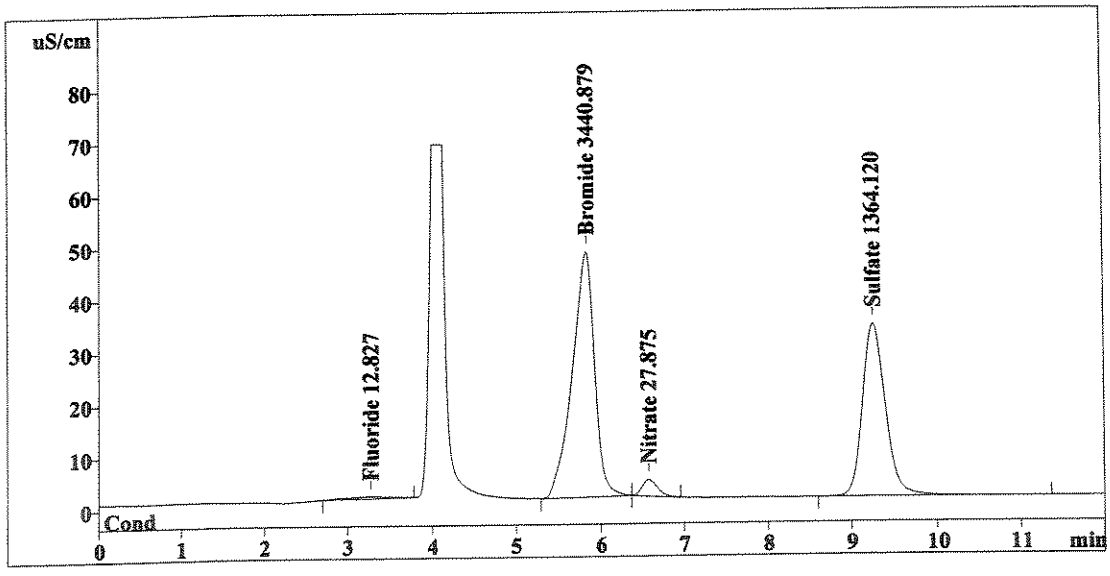
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	5.694	4.812	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	871.438	3462.667	Bromide
5	6.59	40.284	28.154	Nitrate
6	9.26	619.820	1371.952	Sulfate
6	12.00	1537.236	4867.585	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 15:58:41	
Printed by:	User	
Ident:	1114420 DUP	
Analysis from:	7/23/2008 15:46:43	
File:	S7231546.CHW	Last save: 7/23/2008 15:58:40
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38622	
SAMPLE:	B	
Vial number:	15	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.27	13.799	12.827	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.83	865.946	3440.879	Bromide
5	6.58	39.827	27.875	Nitrate
6	9.26	616.261	1364.120	Sulfate
6	12.00	1535.833	4845.702	

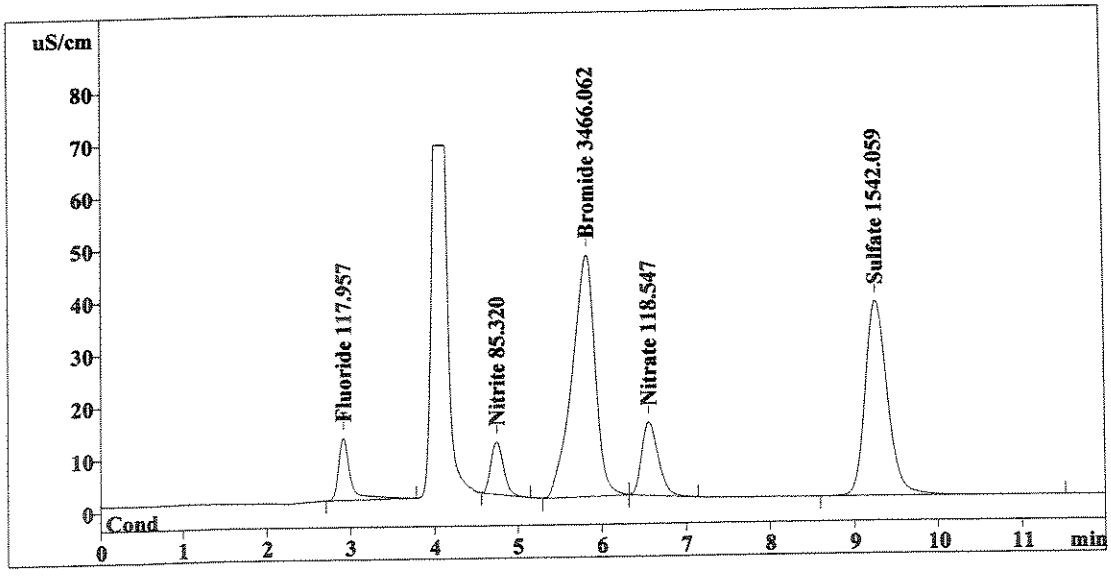
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 16:12:47	
Printed by:	User	
Ident:	1114420 SPK	
Analysis from:	7/23/2008 16:00:49	
File:	S7231600.CHW	Last save: 7/23/2008 16:12:47
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38623	
SAMPLE:	B	
Vial number:	16	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

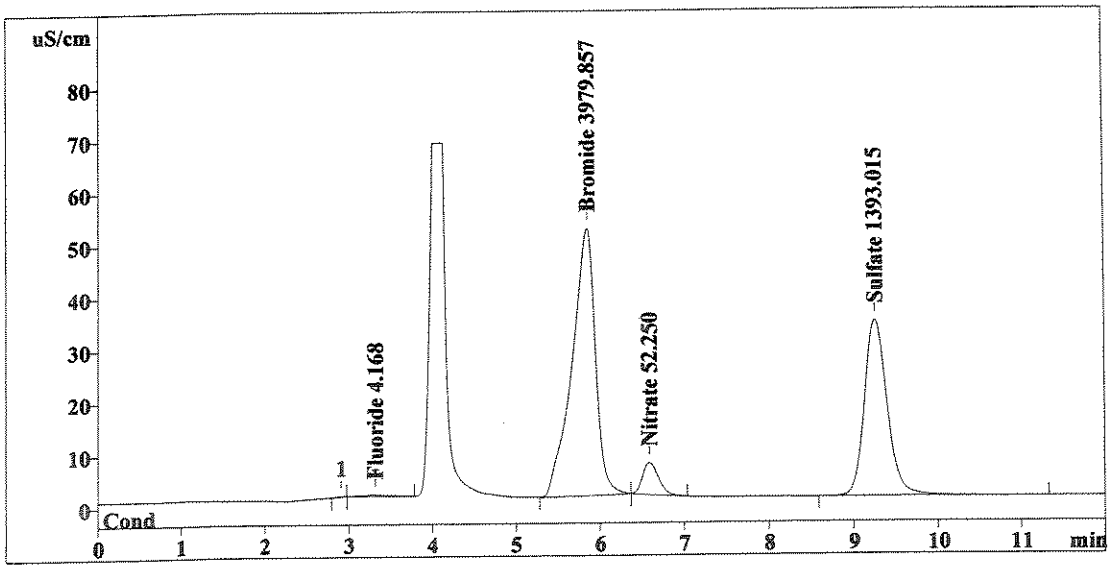
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	120.108	117.957	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.74	105.247	85.320	Nitrite
4	5.83	872.294	3466.062	Bromide
5	6.56	188.606	118.547	Nitrate
6	9.27	697.095	1542.059	Sulfate
6	12.00	1983.349	5329.945	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 16:26:53	
Printed by:	User	
Ident:	1114421	
Analysis from:	7/23/2008 16:14:54	
File:	S7231614.CHW	Last save: 7/23/2008 16:26:52
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38624	
SAMPLE:	B	
Vial number:	17	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

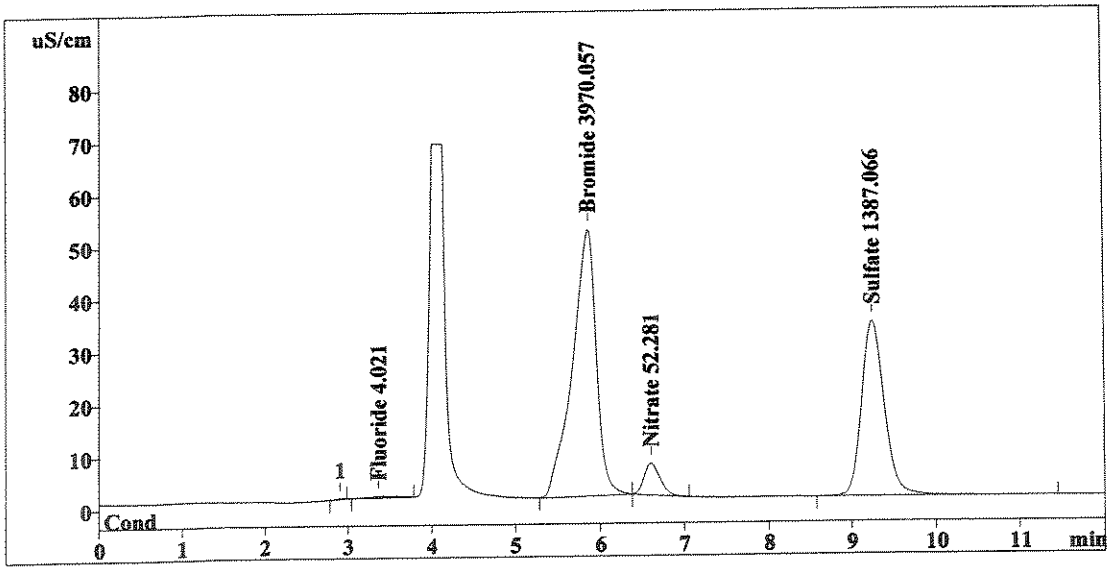
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.31	5.043	4.168	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	1001.811	3979.857	Bromide
5	6.59	79.822	52.250	Nitrate
6	9.26	629.388	1393.015	Sulfate
6	12.00	1716.064	5429.290	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 16:40:58	
Printed by:	User	
Ident:	1114421 DUP	
Analysis from:	7/23/2008 16:29:00	
File:	S7231629.CHW	Last save: 7/23/2008 16:40:58
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38625	
SAMPLE:	B	
Vial number:	18	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

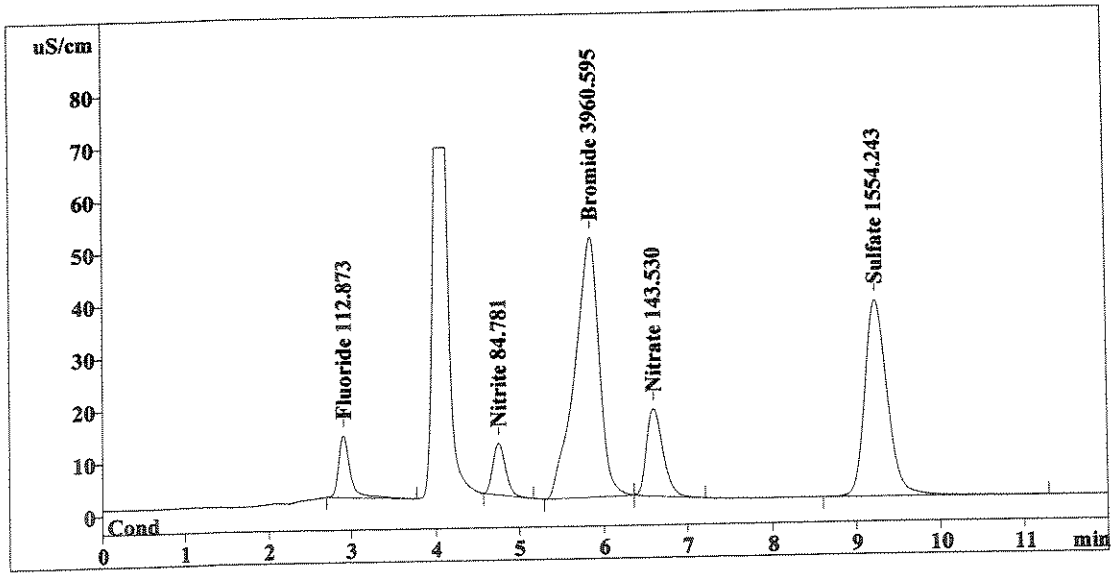
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.36	4.894	4.021	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.85	999.341	3970.057	Bromide
5	6.61	79.873	52.281	Nitrate
6	9.25	626.685	1387.066	Sulfate
6	12.00	1710.794	5413.425	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 16:55:04	
Printed by:	User	
Ident:	1114421 SPK	
Analysis from:	7/23/2008 16:43:06	
File:	S7231643.CHW	Last save: 7/23/2008 16:55:04
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38626	
SAMPLE:	B	
Vial number:	19	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

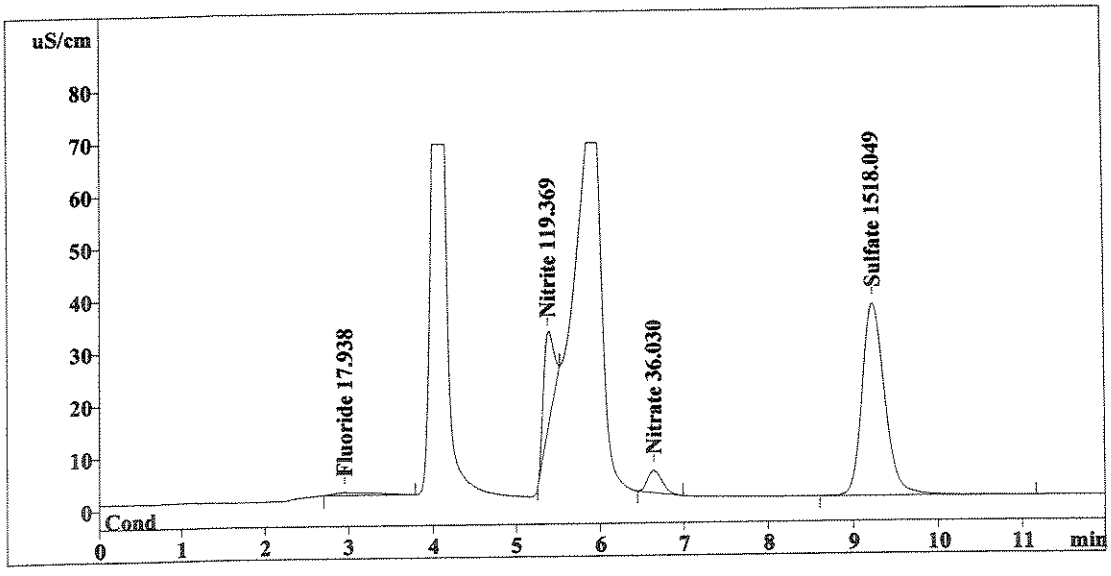
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	114.967	112.873	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.76	104.574	84.781	Nitrite
4	5.85	996.956	3960.595	Bromide
5	6.60	229.599	143.530	Nitrate
6	9.24	702.630	1554.243	Sulfate
6	12.00	2148.726	5856.023	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 17:09:10	
Printed by:	User	
Ident:	1114756	
Analysis from:	7/23/2008 16:57:12	
File:	S7231657.CHW	Last save: 7/23/2008 17:09:10
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38627	
SAMPLE:	B	
Vial number:	20	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.95	18.967	17.938	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.38	147.777	119.369	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	53.207	36.030	Nitrate
6	9.24	686.187	1518.049	Sulfate
6	12.00	906.138	1691.386	

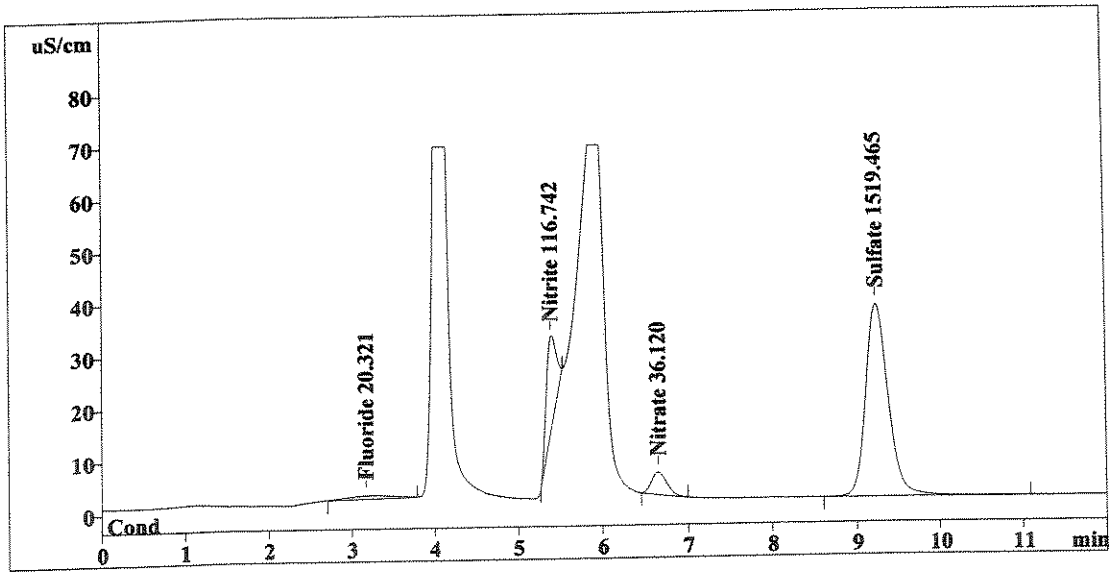
This report has been created by IC Net
METROHM LTD

7/24/08

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 17:23:16	
Printed by:	User	
Ident:	1114756 DUP	
Analysis from:	7/23/2008 17:11:18	
File:	S7231711.CHW	Last save: 7/23/2008 17:23:16
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38628	
SAMPLE:	B	
Vial number:	21	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.17	21.377	20.321	Fluoride
2	0.00	0.000	0.000	Chloride
3	5.38	144.495	116.742	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.65	53.354	36.120	Nitrate
6	9.24	686.831	1519.465	Sulfate
6	12.00	906.057	1692.647	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

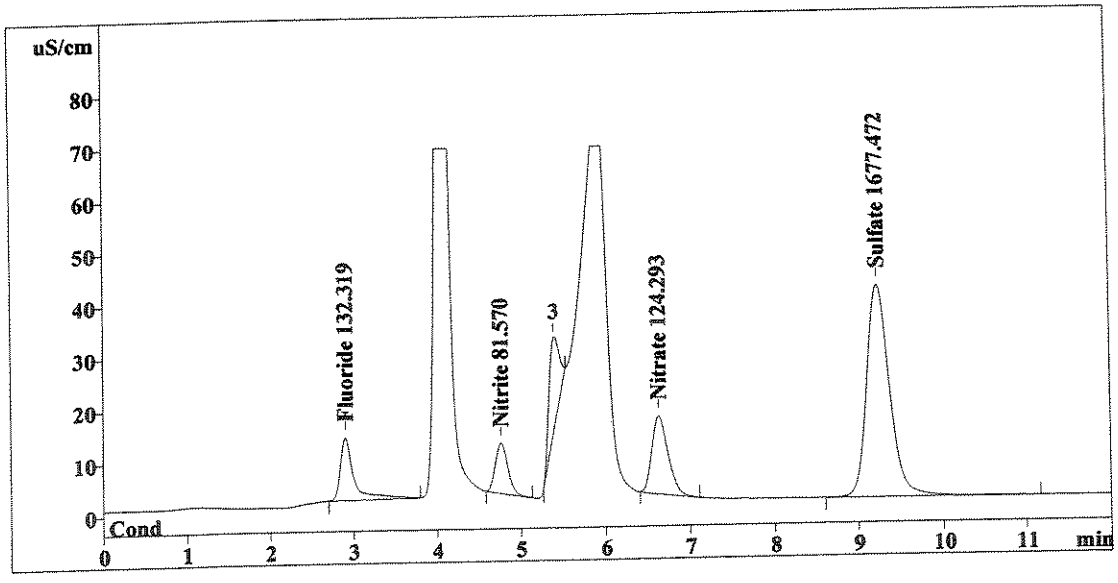
Report date:	7/23/2008 17:37:22
Printed by:	User
Ident:	1114756 SPK
Analysis from:	7/23/2008 17:25:24
File:	S7231725.CHW

Last save: 7/23/2008 17:37:22

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38629
SAMPLE:	B
Vial number:	22
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/23/2008 12:12:26

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



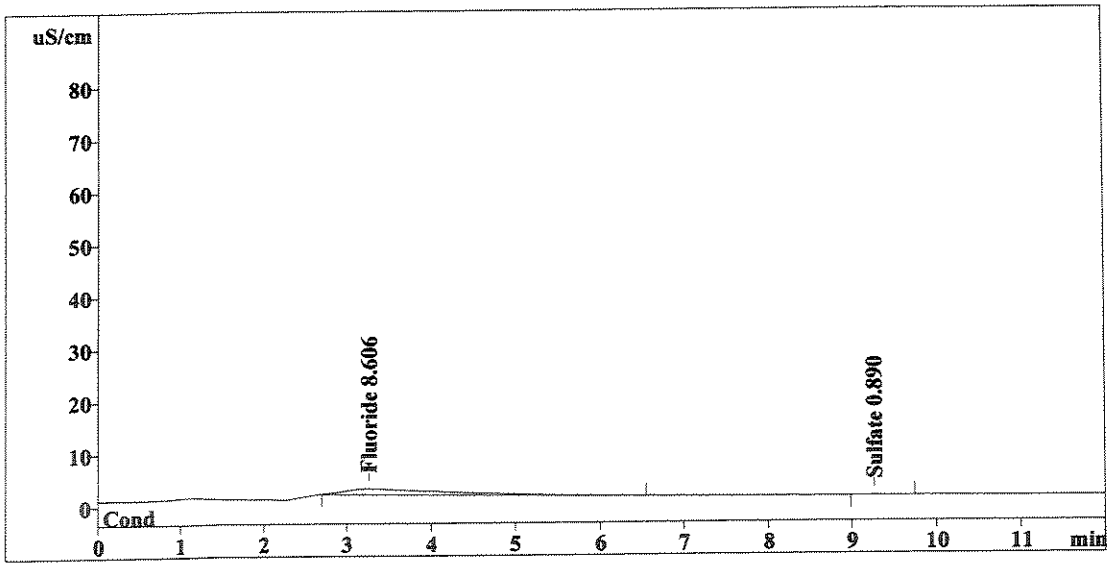
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	134.631	132.319	Fluoride
2	0.00	0.000	0.000	Chloride
3	4.76	100.564	81.570	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.64	198.034	124.293	Nitrate
6	9.24	758.609	1677.472	Sulfate
6	12.00	1191.838	2015.654	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 17:51:28	
Printed by:	User	
Ident:	1114758	
Analysis from:	7/23/2008 17:39:29	
File:	S7231739.CHW	Last save: 7/23/2008 17:51:27
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38630	
SAMPLE:	B	
Vial number:	23	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.26	87.858		8.606	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000	OK	0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.27	0.621		0.890	Sulfate
6	12.00	88.479		9.497	

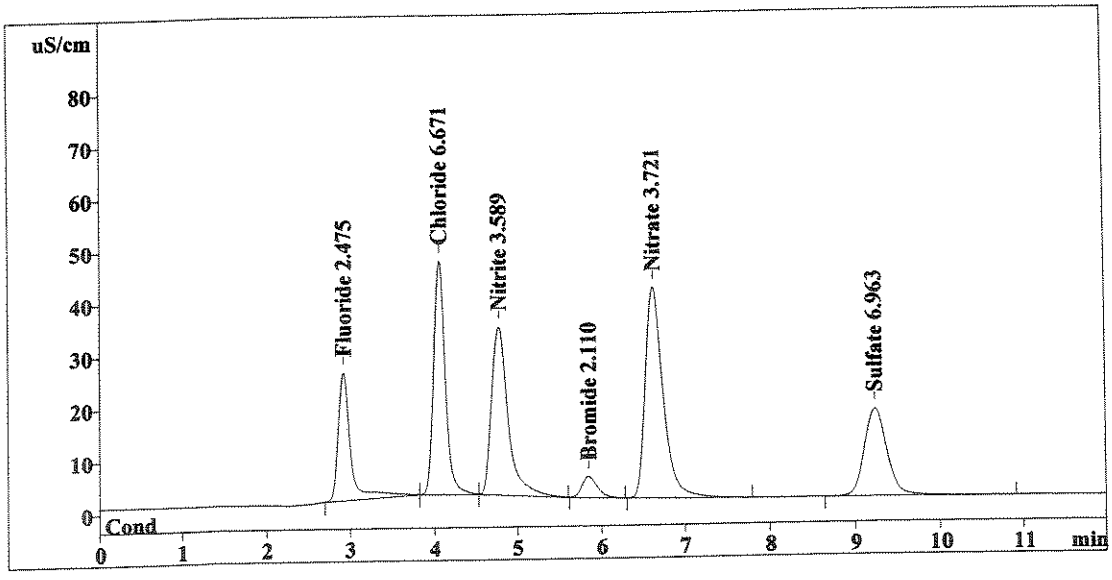
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 18:05:34	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/23/2008 17:53:35	
File:	S7231753.CHW	Last save: 7/23/2008 18:05:33
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38631	
SAMPLE:		
Vial number:	24	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	251.154	OUT HIGH	2.475	Fluoride
2	4.05	426.574	OK	6.671	Chloride
3	4.77	446.940		3.589	Nitrite
4	5.85	51.752		2.110	Bromide
5	6.62	604.710		3.721	Nitrate
6	9.24	312.909		6.963	Sulfate
6	12.00	2094.039		25.530	

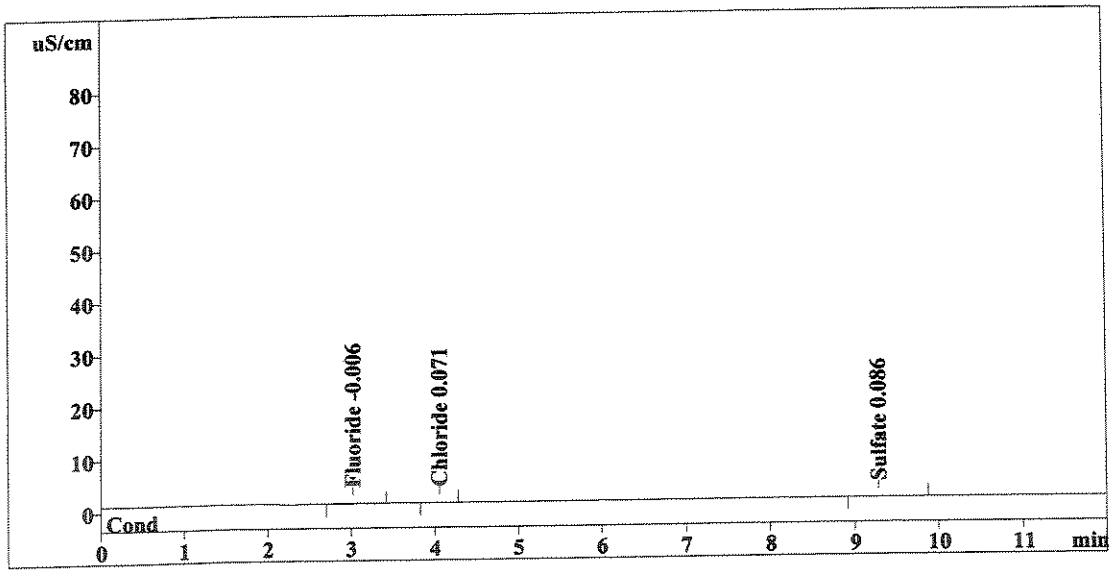
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/23/2008 18:19:39	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/23/2008 18:07:41	
File:	S7231807.CHW	Last save: 7/23/2008 18:19:39
Method:	07-17-08CAL.mtw	Last save: 7/23/2008 12:12:26
Run operator:	User	
Analysis number:	38632	
SAMPLE:		
Vial number:	25	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.251	-0.006	Fluoride
2	4.05	0.154	0.071	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.29	0.471	0.086	Sulfate
6	12.00	0.875	0.162	

OK
7/24/08

This report has been created by IC Net
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 07/17/2008 **Loop size:** 50 uL Loop

Analyst: C. Woods **Analysis Date:** 7-23-08

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	07/14/08	WC90011A		Working Calibration Stds	07/14/08	WC90011H
LCS / MS Intermediate	07/14/08	WC90011A		Working LCS/MS Standard	07/21/08	WC90051B
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	DAILY	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

- CALIBRATION EXPIRES 12/10/2008
- CALIBRATION INVALID FOR FLUORIDE (ICV FAIL HIGH)
- CHLORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC900118	50	2.0	100	1.0	CMW	7/14/08	A	7/21/08	WC900518
Cl		100			2.0	CMW	7/21/08	B	7/28/08	WC900518
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Run #: 164560
Analyte: BROMIDE 9056 BROMIDE BY ION CHROMATOGRAPHY
Printed: 07/25/08 16:28

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844768	1113695	WATER	18.7		10.0	0.100			07/25/08		ASPB
CHK5		1120965	WATER	2.00		1.0	0.100	99.9		07/24/08		
BLK4		1120966	WATER	0.100	U	1.0	0.100			07/24/08		
SPKB		1120967	WATER	0.955		1.0	0.100	95.5		07/24/08		
ESMP	R2844768	1113697	WATER	21.2		10.0	0.100			07/25/08		ASPB
BLK5		1120964	SOIL/SEDIME	2.00		1.0	10.0			07/24/08		
ESMP	R2844797	1114366	SOIL/SEDIME	6.60		4.0	10.0			07/24/08		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	100	U	10.0	10.0			07/24/08		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	0.840		1.0	10.0			07/24/08		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	1.73		2.0	10.0			07/24/08	QC	ASPB
LDUP		1120968	SOIL/SEDIME	1.69		2.0	10.0	83.1% ~~830.5~~	2.34	07/24/08		
SPK1		1120969	SOIL/SEDIME	16.6		2.0	10.0			07/24/08		
ESMP	R2844797	1114382	SOIL/SEDIME	0.920		1.0	10.0			07/24/08		ASPB
ESMP	R2844803	1114419	WATER	2880		2000.0	0.100			07/24/08		ASPB
ESMP	R2844803	1114420	WATER	2780		2000.0	0.100			07/25/08		ASPB
ESMP	R2844803	1114421	WATER	3270		2000.0	0.100			07/24/08	QC	ASPB
LDUP		1120970	WATER	3240		2000.0	0.100		0.74	07/24/08		
SPK1		1120971	WATER	5110		2000.0	0.100	91.9		07/24/08		
ESMP	R2844803	1114756	WATER	~~6750~~ 6720		4000.0	0.100		0.14	07/24/08		ASPB
LDUP		1120972	WATER	6770		4000.0	0.100	94.0	0.25	07/24/08		
SPK1		1120973	WATER	10500		4000.0	0.100	~~93.2~~		07/24/08		

Records printed: 21

ANALYTE:G:\STARLIMS\ASBAR.RP1

01-24-08 Data Manually Entered

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.	CCV	1	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	CCB	2	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	LCS	3	1.0	1.0	1.0	100.0	0	1	1		Analyst: CWoods
Columbia-no dilution.	1114419	4	1.0	400.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114420	5	1.0	400.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114421	6	1.0	400.0	1.0	100.0	0	1	1	B	Pipets: Mine
Columbia-no dilution.	1114756	7	1.0	400.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114756 DUP	8	1.0	400.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114756 SPK	9	1.0	400.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	MTD BLK 7/2/08	10	1.0	1.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	Lucy
Columbia-no dilution.	1114366	11	1.0	4.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114376	12	1.0	10.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114379	13	1.0	1.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114380	14	1.0	2.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114380 DUP	15	1.0	2.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114380 SPK	16	1.0	2.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114382	17	1.0	1.0	1.0	100.0	0	1	1	2.5g -> 250mL (B)	
Columbia-no dilution.	1114419	18	1.0	2000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	CCV	19	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	CCB	20	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	OUTFALL 001	108	1.0	10.0	1.0	100.0	0	1	1	NO3, NO2, S	
Columbia-no dilution.	1114421	22	1.0	2000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114421 DUP	23	1.0	2000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114421 SPK	24	1.0	2000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114756	25	1.0	4000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114756 DUP	26	1.0	4000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	1114756 SPK	27	1.0	4000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.	08-2574-8655	28	1.0	10.0	1.0	100.0	0	1	1	NO3	
Columbia-no dilution.	08-2574-8657	29	1.0	10.0	1.0	100.0	0	1	1	NO3	
Columbia-no dilution.	1112842	30	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1112843	31	1.0	10.0	1.0	100.0	0	1	1	CBNS	45061
Columbia-no dilution.	1112844	32	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1112845	33	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1112846	34	1.0	10.0	1.0	100.0	0	1	1	CBNS	44725
Columbia-no dilution.	CCV	35	1.0	1.0	1.0	100.0	0	1	1	7 copies	
Columbia-no dilution.	CCB	36	1.0	1.0	1.0	100.0	0	1	1		44902
Columbia-no dilution.	LCS	37	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	1112847	38	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1112848	39	1.0	10.0	1.0	100.0	0	1	1	CBNS	44768
Columbia-no dilution.	1112848 DUP	40	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1112848 SPK	41	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1118162	42	1.0	10.0	1.0	100.0	0	1	1	NO3, NO2, S	44797
Columbia-no dilution.	1120201	43	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120202	44	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120203	45	1.0	10.0	1.0	100.0	0	1	1	CBNS	44803
Columbia-no dilution.	1120204	46	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120205	47	1.0	10.0	1.0	100.0	0	1	1	CBNS	44885
Columbia-no dilution.	1120206	48	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120207	49	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120207 DUP	50	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	1120207 SPK	51	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.	CCV	52	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	CCB	53	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.	1113695	54	1.0	10.0	1.0	100.0	0	1	1	B	

WORKLISTS UPDATED

Reviewed & Approved
By: BBauer
Date: 7/28/08

01220

System	Ident	Vial	Volume	Dilution	Amount	Internal Standard Amount	Level	Injections	Done	Sample Info 1	Sample Info 2
Columbia-no dilution.s	1113697	55	1.0	10.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	MTD BLK 7/10/08	56	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116254	57	1.0	400.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116258	58	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116258 DUP @ IC	59	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116258 SPK @ IC	60	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116265	61	1.0	40.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116273	62	1.0	40.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116274	63	1.0	40.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116278	64	1.0	40.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116279	65	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116264	66	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (C)	
Columbia-no dilution.s	CCV	67	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	68	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	69	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	MTD BLK 7/14/08	70	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116802	71	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116803	72	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116804	73	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116804 DUP @ IC	74	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116804 SPK @ IC	75	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116805	76	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116806	77	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116806 DUP @ IC	78	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116806 SPK @ IC	79	1.0	100.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116807	80	1.0	2.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116808	81	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116809	82	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116810	83	1.0	10.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116811	84	1.0	40.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	CCV	85	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	86	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	1116812	87	1.0	4.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116813	88	1.0	1.0	1.0	100.0	0	1	1	25g -> 250mL (CS)	
Columbia-no dilution.s	1116814	89	1.0	10.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116815	90	1.0	20.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116816	91	1.0	4.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116817	92	1.0	10.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116818	93	1.0	4.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	1116819	94	1.0	4.0	1.0	100.0	0	1	1	25g -> 250mL (S)	
Columbia-no dilution.s	WEX-0208-SB	95	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0208-SB DUP	96	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0208-SB SPK	97	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0208-UT	98	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	CCV	99	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	100	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	LCS	101	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	WEX-0208-LL	102	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0214-SB	103	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0214-UT	104	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	WEX-0214-LL	105	1.0	10.0	1.0	100.0	0	1	1	CBNS	
Columbia-no dilution.s	1114420	21	1.0	2000.0	1.0	100.0	0	1	1	B	
Columbia-no dilution.s	CCV	106	1.0	1.0	1.0	100.0	0	1	1		
Columbia-no dilution.s	CCB	107	1.0	1.0	1.0	100.0	0	1	1		

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

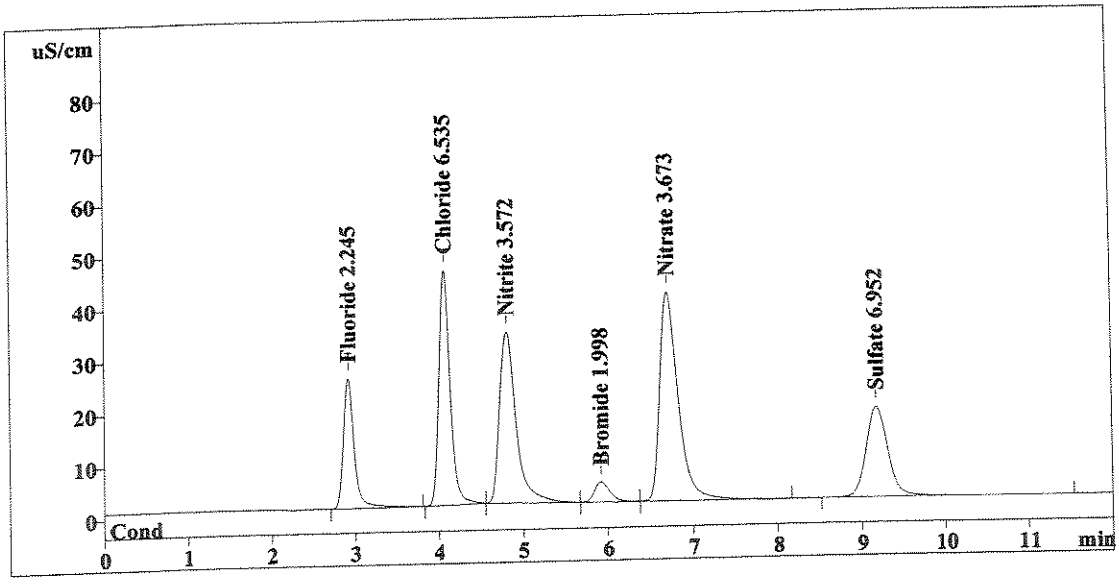
Report date:	7/24/2008 11:51:27
Printed by:	User
Ident:	CCV
Analysis from:	7/24/2008 11:39:29
File:	S7241139.CHW

Last save: 7/24/2008 11:51:27

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38633
SAMPLE:	
Vial number:	1
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

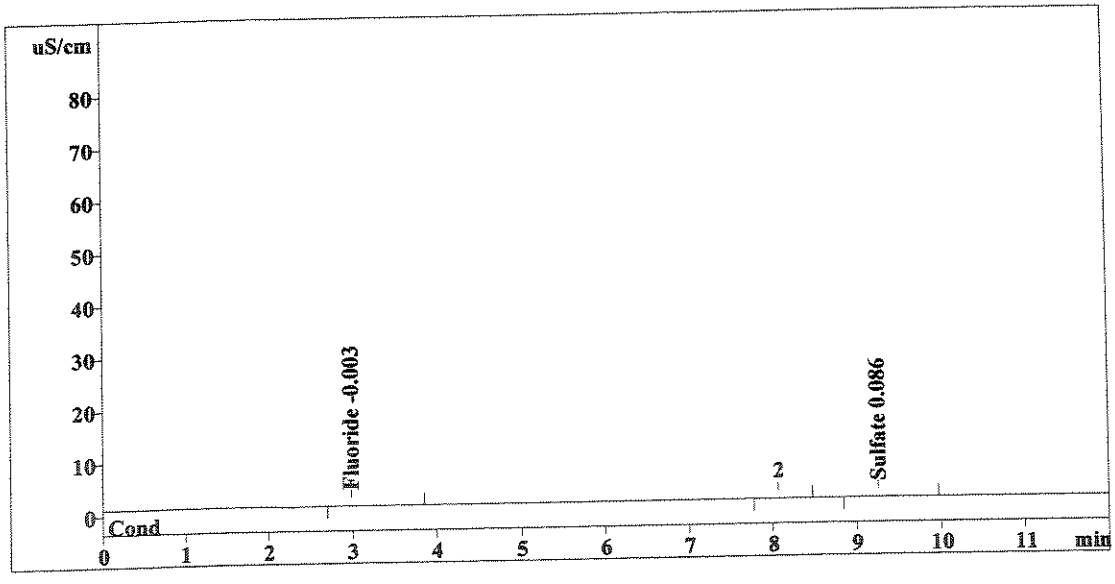
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	227.805	2.245	Fluoride
2	4.07	417.779	6.535	Chloride
3	4.81	444.801	3.572	Nitrite
4	5.92	48.940	1.998	Bromide
5	6.71	596.762	3.673	Nitrate
6	9.18	312.400	6.952	Sulfate
6	12.00	2048.488	24.975	

OK
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 12:05:33	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/24/2008 11:53:35	
File:	S7241153.CHW	Last save: 7/24/2008 12:05:33
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38634	
SAMPLE:		
Vial number:	2	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.99	0.523	-0.003	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.24	0.468	0.086	Sulfate
6	12.00	0.991	0.089	

OK

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

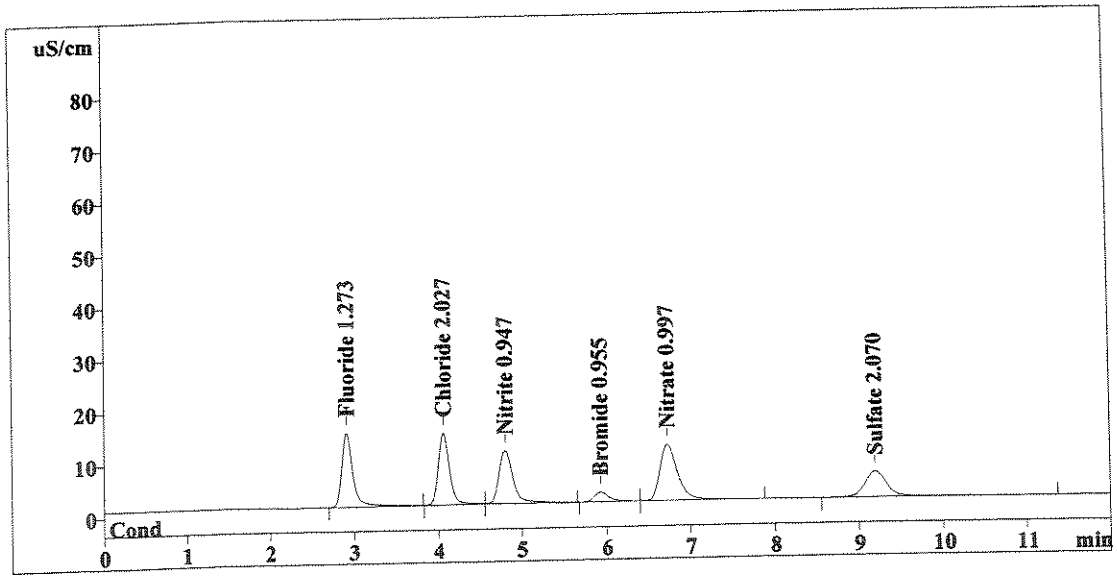
Report date:	7/24/2008 12:19:39
Printed by:	User
Ident:	LCS
Analysis from:	7/24/2008 12:07:41
File:	S7241207.CHW

Last save: 7/24/2008 12:19:39

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38635
SAMPLE:	
Vial number:	3
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	129.524	1.273	Fluoride
2	4.06	126.550	2.027	Chloride
3	4.80	116.953	0.947	Nitrite
4	5.93	22.632	0.955	Bromide
5	6.73	157.642	0.997	Nitrate
6	9.20	90.612	2.070	Sulfate
6	12.00	643.913	8.268	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

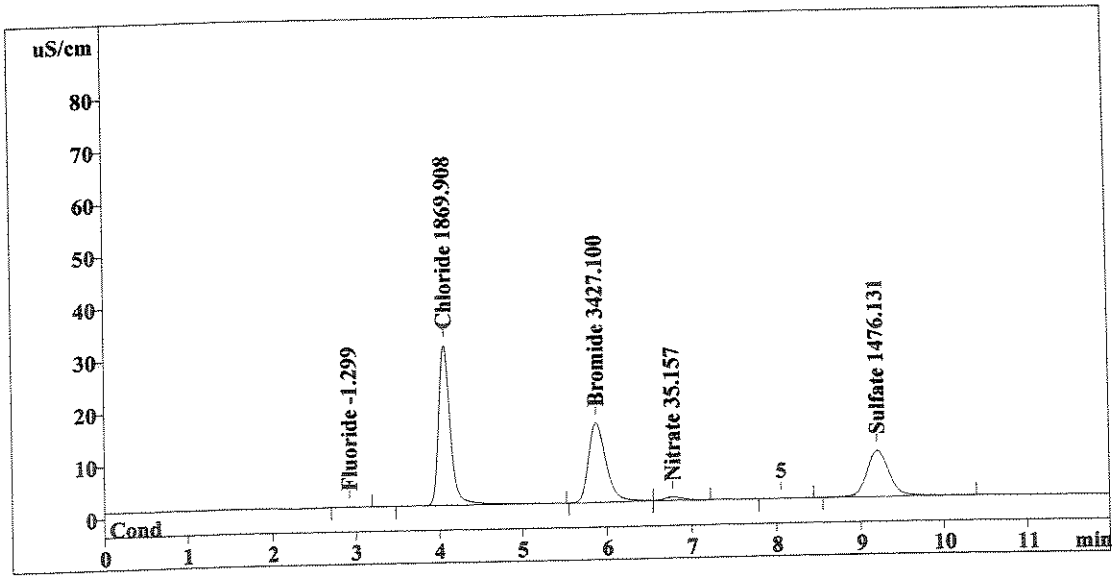
Report date:	7/24/2008 12:33:45
Printed by:	User
Ident:	1114419
Analysis from:	7/24/2008 12:21:46
File:	S7241221.CHW

Last save: 7/24/2008 12:33:45

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38636
SAMPLE:	B
Vial number:	4
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	0.500		-1.299	Fluoride
2	4.06	297.594		1869.908	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.88	214.544	Mpt 1/2000	3427.100	Bromide
5	6.78	8.510		35.157	Nitrate
6	9.21	164.220		1476.131	Sulfate
6	12.00	685.367		6809.595	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

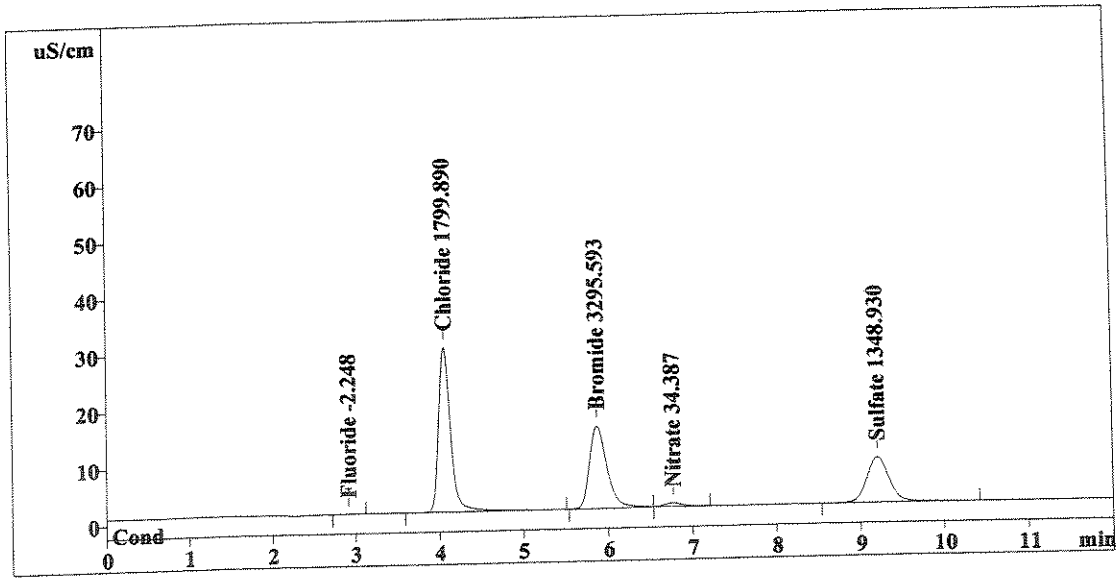
Report date:	7/24/2008 12:47:50
Printed by:	User
Ident:	1114420
Analysis from:	7/24/2008 12:35:52
File:	S7241235.CHW

Last save: 7/24/2008 12:47:50

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38637
SAMPLE:	B
Vial number:	5
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.92	0.260		-2.248	Fluoride
2	4.06	286.285		1799.890	Chloride
3	0.00	0.000	1/1000	0.000	Nitrite
4	5.88	206.256		3295.593	Bromide
5	6.77	8.194		34.387	Nitrate
6	9.21	149.773		1348.930	Sulfate
6	12.00	650.768		6481.048	

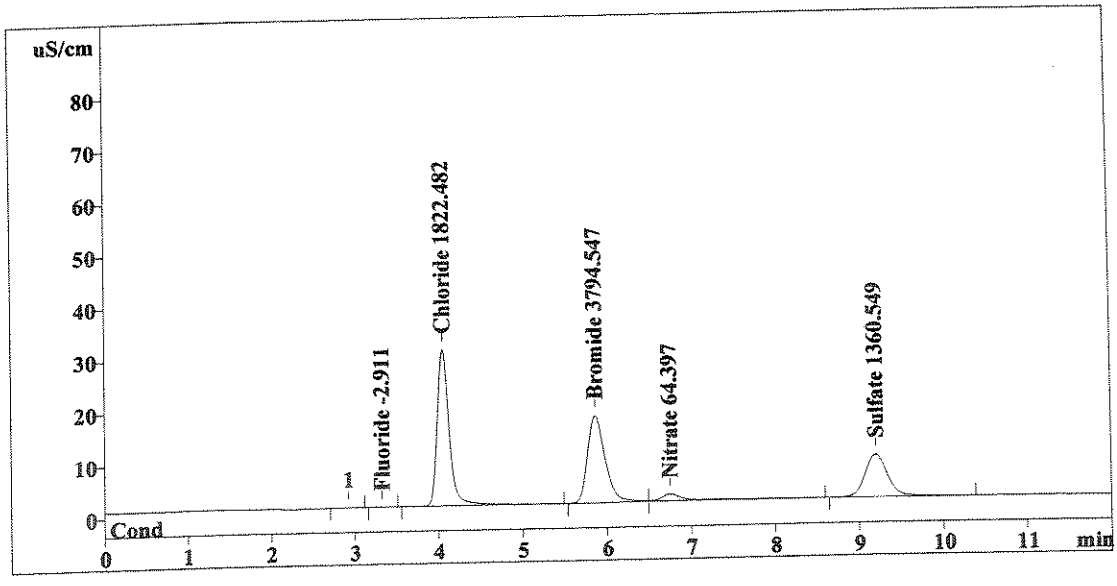
7/24/8

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 13:01:56
Printed by:	User
Ident:	1114421
Analysis from:	7/24/2008 12:49:58
File:	S7241249.CHW
	Last save: 7/24/2008 13:01:56
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38638
SAMPLE:	B
Vial number:	6
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.092		-2.911	Fluoride
2	4.06	289.934		1822.482	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.87	237.700	1/2000	3794.547	Bromide
5	6.75	20.504		64.397	Nitrate
6	9.20	151.093		1360.549	Sulfate
6	12.00	699.324		7044.886	

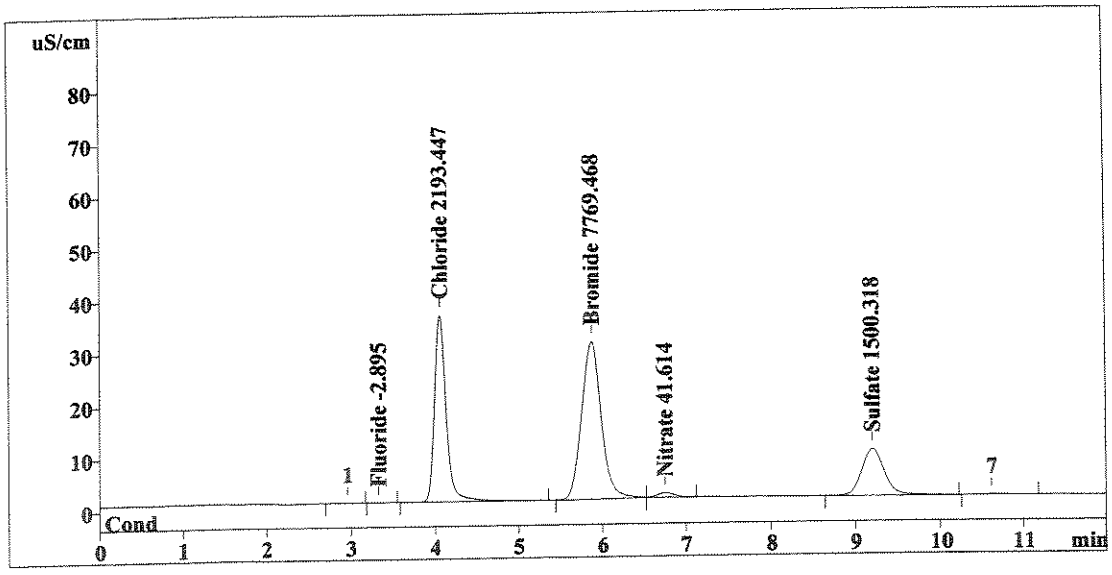
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 13:16:02
Printed by:	User
Ident:	1114756
Analysis from:	7/24/2008 13:04:04
File:	S7241304.CHW — Last save: 7/24/2008 13:16:02
Method:	07-17-08CAL.mtw — Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38639
SAMPLE:	B
Vial number:	7
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.096		-2.895	Fluoride
2	4.06	349.852		2193.447	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.88	488.200	1/400	7769.468	Bromide
5	6.75	11.158		41.614	Nitrate
6	9.21	166.966		1500.318	Sulfate
6	12.00	1016.274		11507.742	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

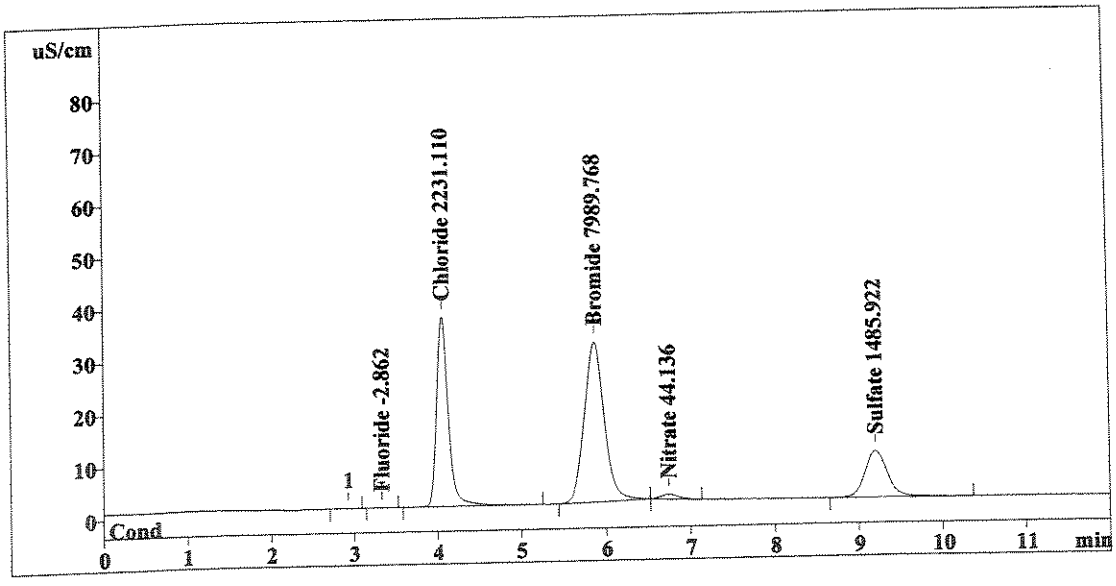
Report date:	7/24/2008 13:30:08
Printed by:	User
Ident:	1114756 DUP
Analysis from:	7/24/2008 13:18:10
File:	S7241318.CHW

Last save: 7/24/2008 13:30:08

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38640
SAMPLE:	B
Vial number:	8
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.105	-2.862	Fluoride
2	4.06	355.936	2231.110	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.87	502.083	7989.768	Bromide
5	6.75	12.193	44.136	Nitrate
6	9.21	165.331	1485.922	Sulfate
6	12.00	1035.648	11753.797	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

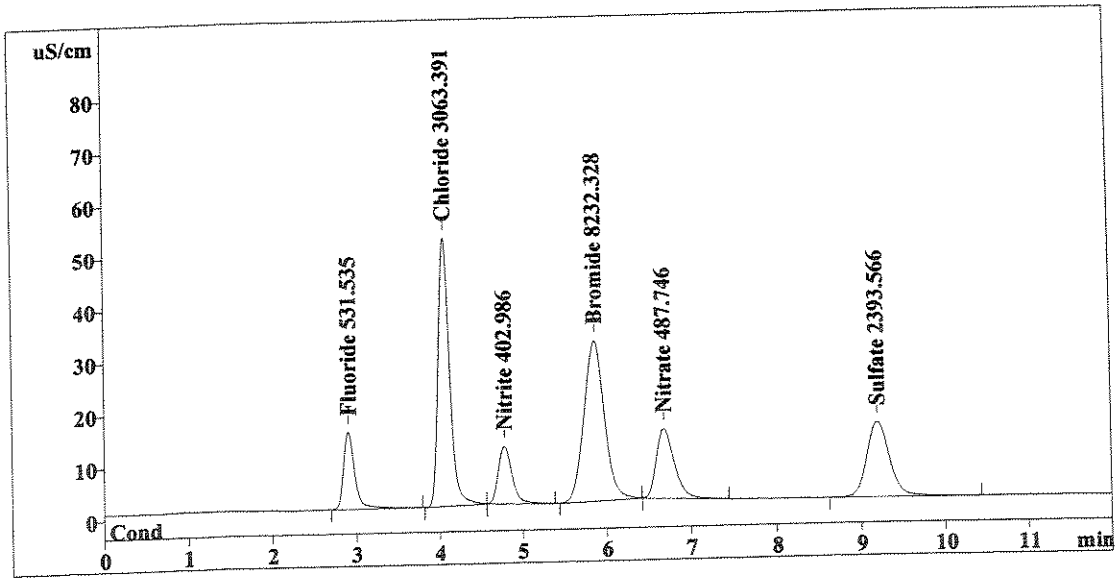
Report date:	7/24/2008 13:44:14
Printed by:	User
Ident:	1114756 SPK
Analysis from:	7/24/2008 13:32:16
File:	S7241332.CHW

Last save: 7/24/2008 13:44:14

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38641
SAMPLE:	B
Vial number:	9
Volume:	1.0 µL
Dilution:	400.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	135.202	531.535	Fluoride
2	4.06	490.366	3063.391	Chloride
3	4.78	124.516	402.986	Nitrite
4	5.87	517.370	8232.328	Bromide
5	6.69	194.167	487.746	Nitrate
6	9.20	268.411	2393.566	Sulfate
6	12.00	1730.032	15111.552	

7/24/8

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

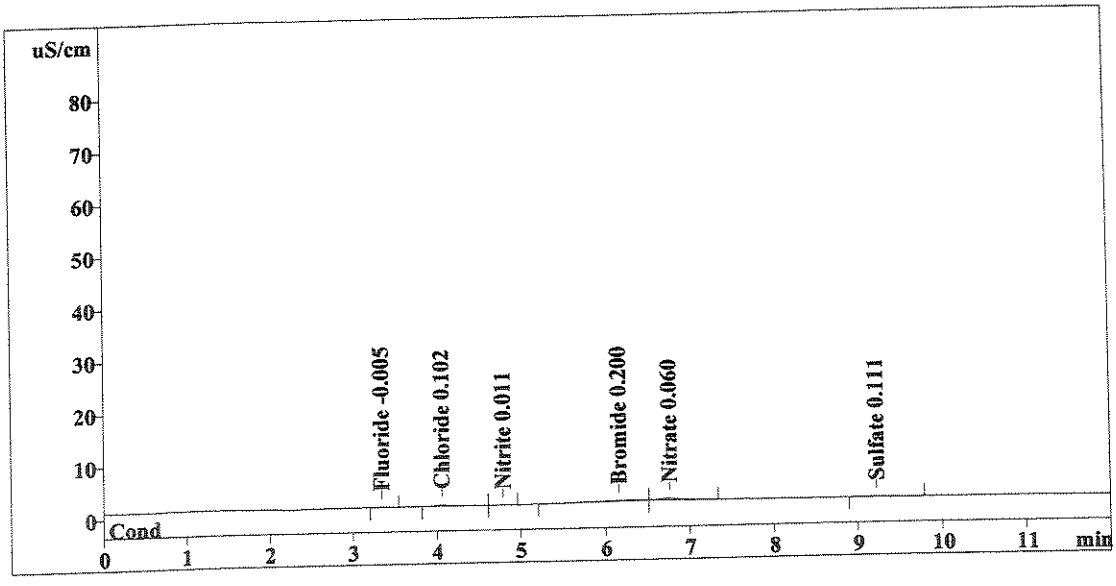
Report date:	7/24/2008 13:58:20
Printed by:	User
Ident:	MTD BLK 7/2/08
Analysis from:	7/24/2008 13:46:22
File:	S7241346.CHW

Last save: 7/24/2008 13:58:20

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38642
SAMPLE:	2.5g -> 250mL (B) ∴ results x 10
Vial number:	10
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.307	-0.005	Fluoride
2	4.06	2.175	0.102	Chloride
3	4.79	0.055	0.011	Nitrite
4	6.15	3.612	0.200	Bromide
5	6.76	3.905	0.060	Nitrate
6	9.23	1.622	0.111	Sulfate
6	12.00	11.676	0.489	

OK

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

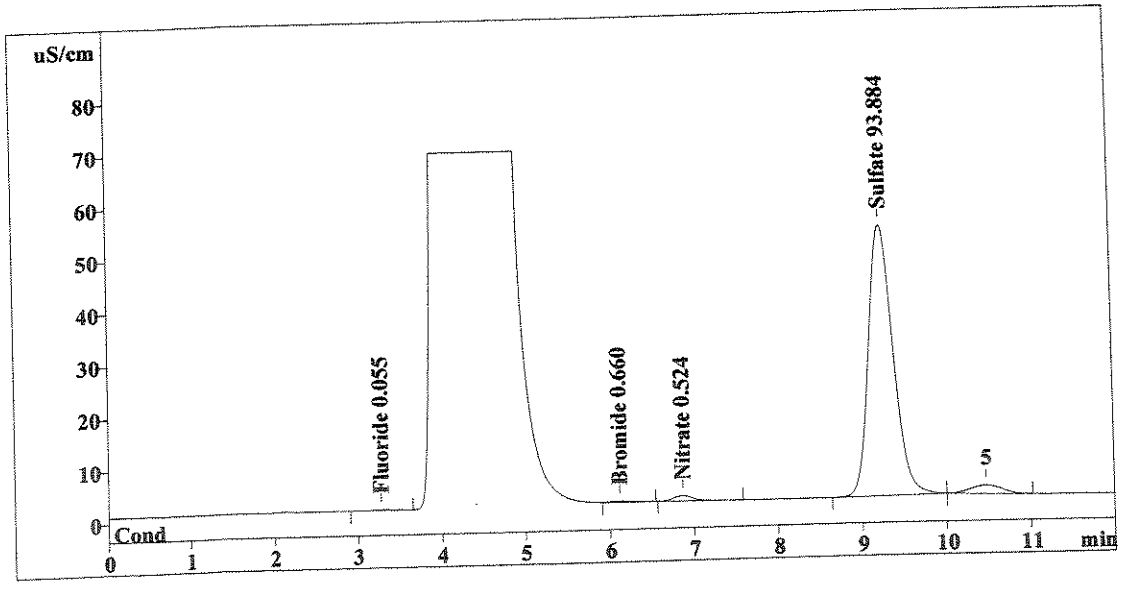
Report date:	7/24/2008 14:12:26
Printed by:	User
Ident:	1114366
Analysis from:	7/24/2008 14:00:28
File:	S7241400.CHW

Last save: 7/24/2008 14:12:26

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38643
SAMPLE:	2.5g -> 250mL (B)
Vial number:	11
Volume:	1.0 µL
Dilution:	4.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.28	2.211		0.055	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.12	2.727	OK	0.660	Bromide
5	6.87	15.573		0.524	Nitrate
6	9.26	1062.801		93.884	Sulfate
6	12.00	1083.312		95.122	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

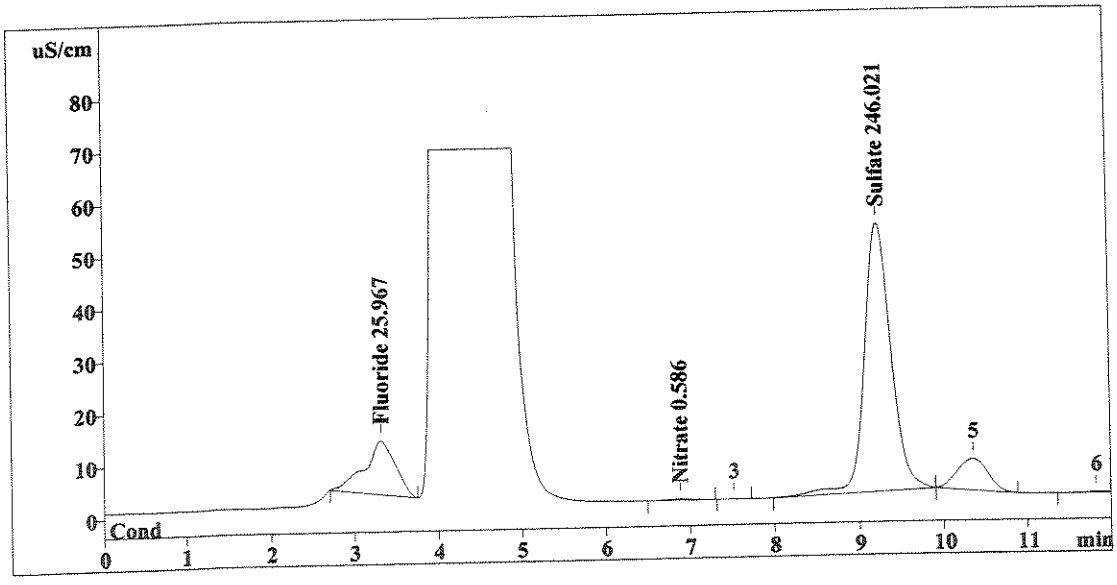
Report date:	7/24/2008 14:26:32
Printed by:	User
Ident:	1114376
Analysis from:	7/24/2008 14:14:34
File:	S7241414.CHW

Last save: 7/24/2008 14:26:32

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38644
SAMPLE:	2.5g -> 250mL (B)
Vial number:	12
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.32	263.415		25.967	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000	ok	0.000	Bromide
5	6.89	3.697		0.586	Nitrate
6	9.25	1114.187		246.021	Sulfate
6	12.00	1381.299		272.574	

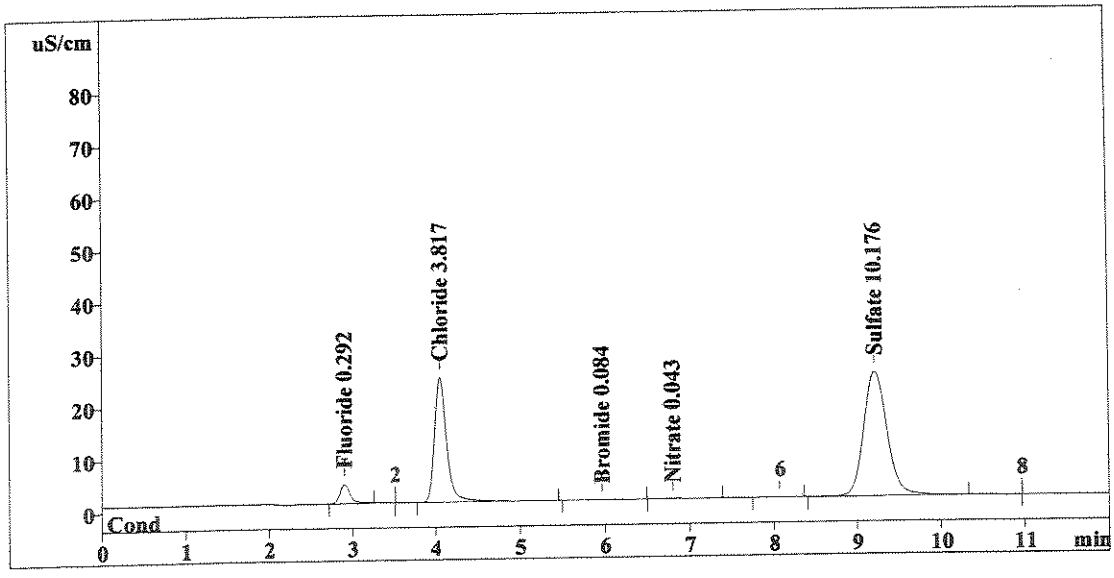
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 14:40:37	
Printed by:	User	
Ident:	1114379	
Analysis from:	7/24/2008 14:28:39	
File:	S7241428.CHW	Last save: 7/24/2008 14:40:38
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38645	
SAMPLE:	2.5g -> 250mL (B)	
Vial number:	13	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	30.346		0.292	Fluoride
2	4.05	242.153		3.817	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.97	0.692	OK	0.084	Bromide
5	6.80	1.131		0.043	Nitrate
6	9.22	458.858		10.176	Sulfate
6	12.00	733.181		14.412	

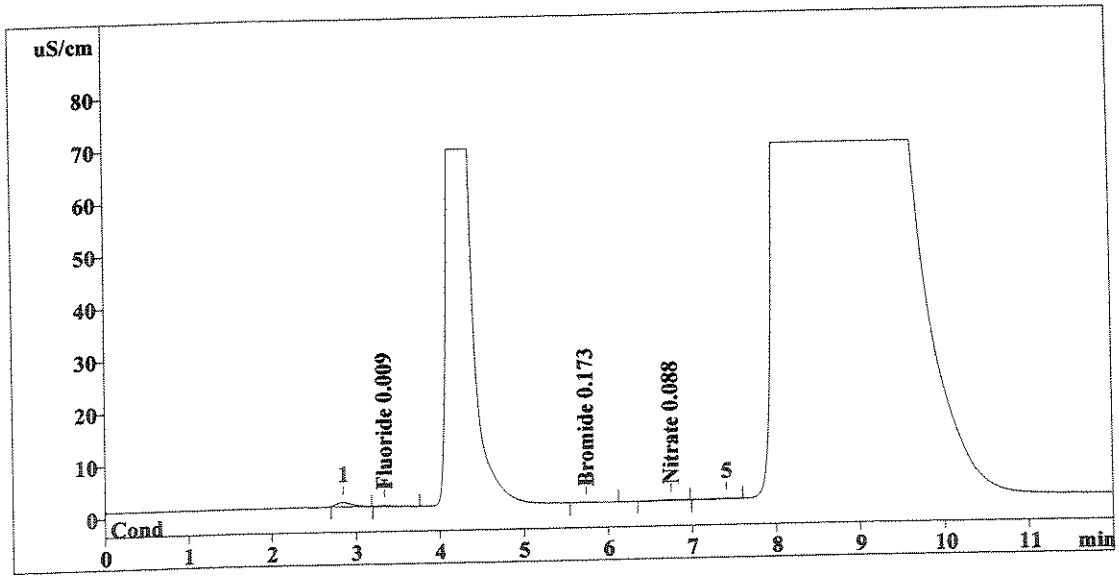
7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 14:54:43	
Printed by:	User	
Ident:	1114380	
Analysis from:	7/24/2008 14:42:45	Last save: 7/24/2008 14:54:43
File:	S7241442.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38646	
SAMPLE:	2.5g -> 250mL (B)	
Vial number:	14	
Volume:	1.0 µL	
Dilution:	2.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.34	1.299		0.009	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.74	0.746	ok	0.173	Bromide
5	6.74	1.280		0.088	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	3.325		0.270	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

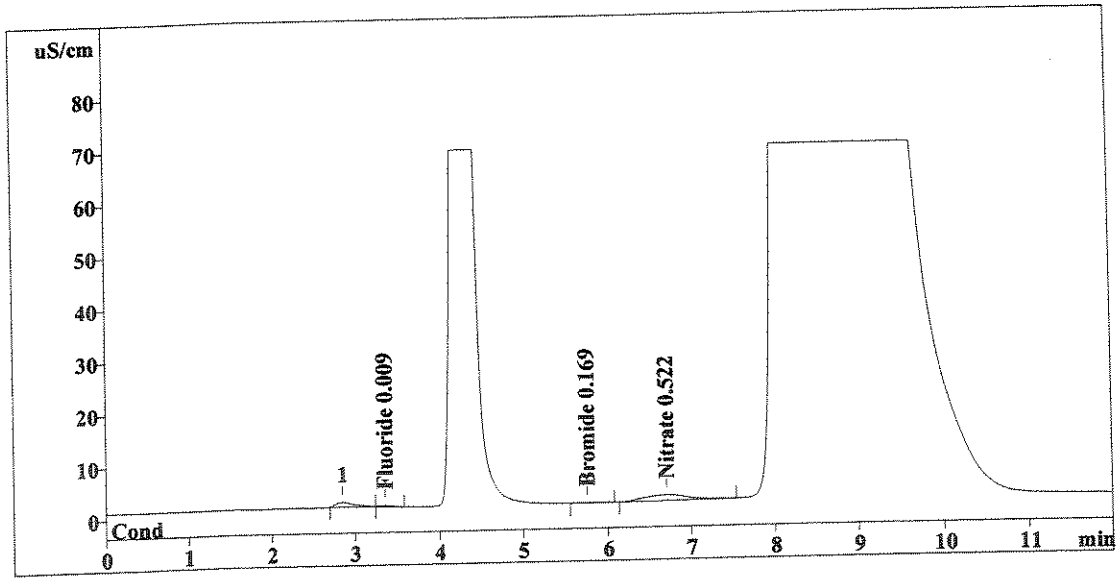
Report date:	7/24/2008 15:08:49
Printed by:	User
Ident:	1114380 DUP
Analysis from:	7/24/2008 14:56:51
File:	S7241456.CHW

Last save: 7/24/2008 15:08:49

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38647
SAMPLE:	2.5g -> 250mL (B)
Vial number:	15
Volume:	1.0 µL
Dilution:	2.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.35	1.298	0.009	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.75	0.703	0.169	Bromide
5	6.70	36.899	0.522	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	38.900	0.701	

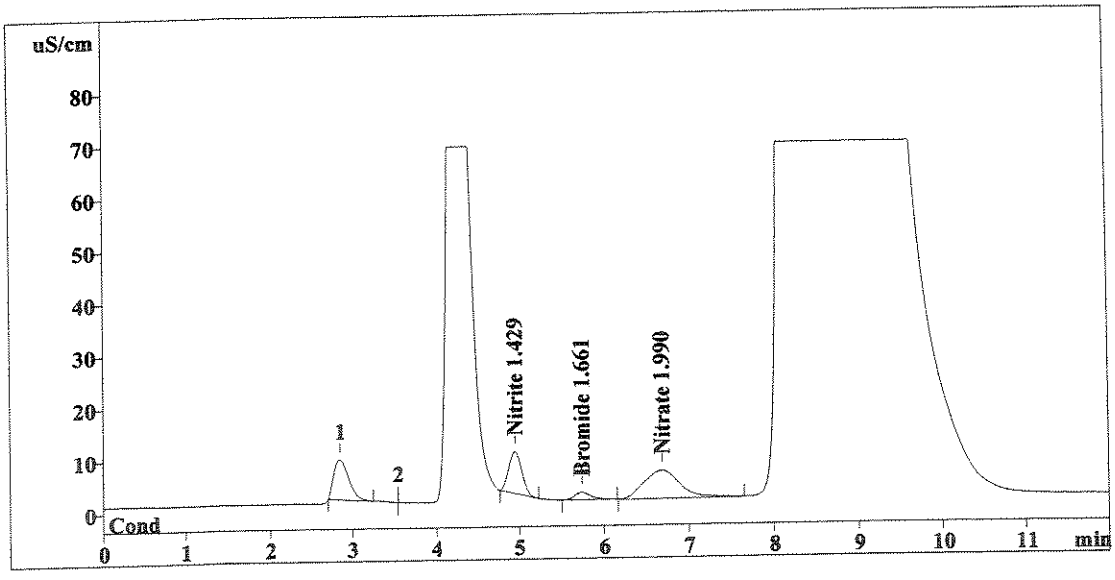
OK 7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 15:22:55	
Printed by:	User	
Ident:	1114380 SPK	
Analysis from:	7/24/2008 15:10:57	
File:	S7241510.CHW	Last save: 7/24/2008 15:22:55
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38648	
SAMPLE:	2.5g -> 250mL (B)	
Vial number:	16	
Volume:	1.0 µL	
Dilution:	2.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	0.00	0.000		0.000	Chloride
3	4.95	87.929		1.429	Nitrite
4	5.74	19.502	OK	1.661	Bromide
5	6.68	157.353		1.990	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	264.783		5.080	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

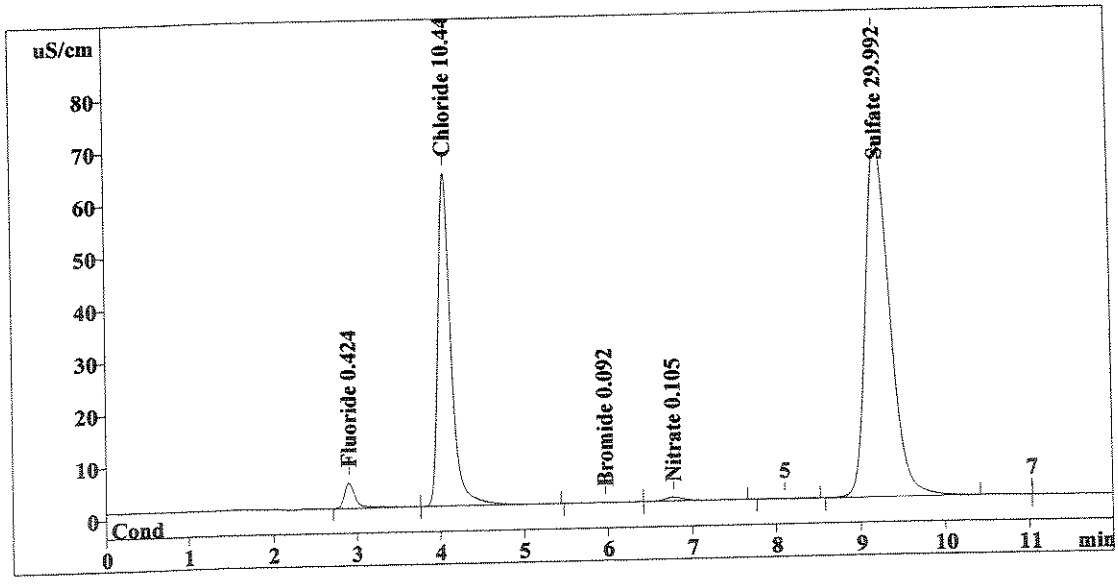
Report date:	7/24/2008 15:37:01
Printed by:	User
Ident:	1114382
Analysis from:	7/24/2008 15:25:02
File:	S7241525.CHW

Last save: 7/24/2008 15:37:01

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38649
SAMPLE:	2.5g -> 250mL (B)
Vial number:	17
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

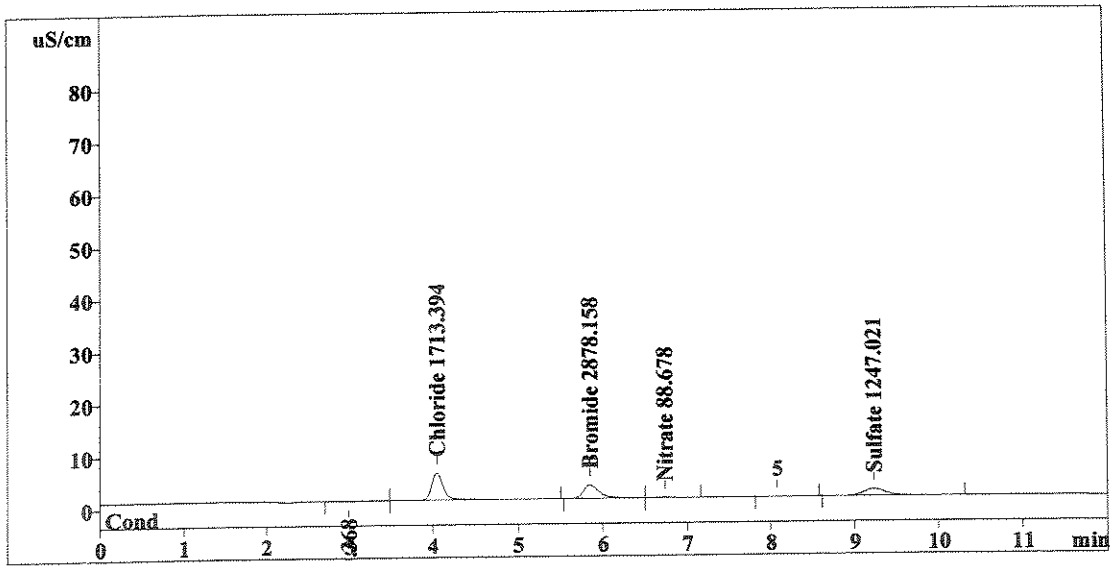
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	43.732		0.424	Fluoride
2	4.06	670.678		10.449	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.98	0.899	OK	0.092	Bromide
5	6.78	11.296		0.105	Nitrate
6	9.23	1359.035		29.992	Sulfate
6	12.00	2085.639	7/24/08	41.063	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 15:51:07	
Printed by:	User	
Ident:	1114419	
Analysis from:	7/24/2008 15:39:08	
File:	S7241539.CHW	Last save: 7/24/2008 15:51:07
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38650	
SAMPLE:	B	
Vial number:	18	
Volume:	1.0 µL	
Dilution:	2000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

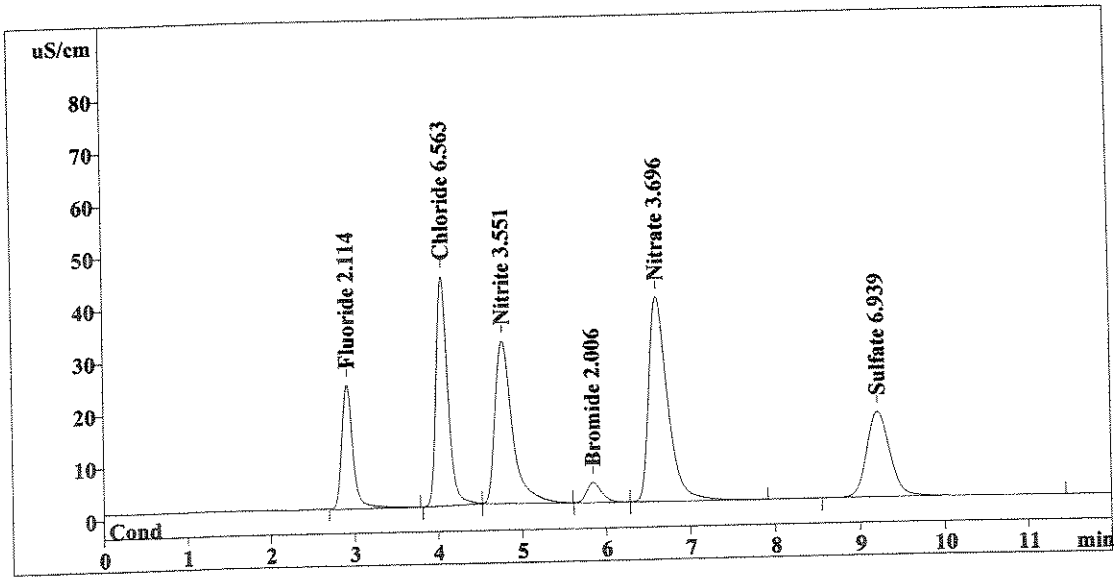
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.99	0.304		-10.368	Fluoride
2	4.05	50.916		1713.394	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	34.844	OK	2878.158	Bromide
5	6.73	1.363		88.678	Nitrate
6	9.23	24.902		1247.021	Sulfate
6	12.00	112.329		5937.619	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 16:05:13	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/24/2008 15:53:14	Last save: 7/24/2008 16:05:13
File:	S7241553.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38651	
SAMPLE:		
Vial number:	19	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	214.624	2.114	Fluoride
2	4.05	419.609	6.563	Chloride
3	4.77	442.262	3.551	Nitrite
4	5.84	49.129	2.006	Bromide
5	6.62	600.508	3.696	Nitrate
6	9.22	311.797	6.939	Sulfate
6	12.00	2037.929	24.869	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

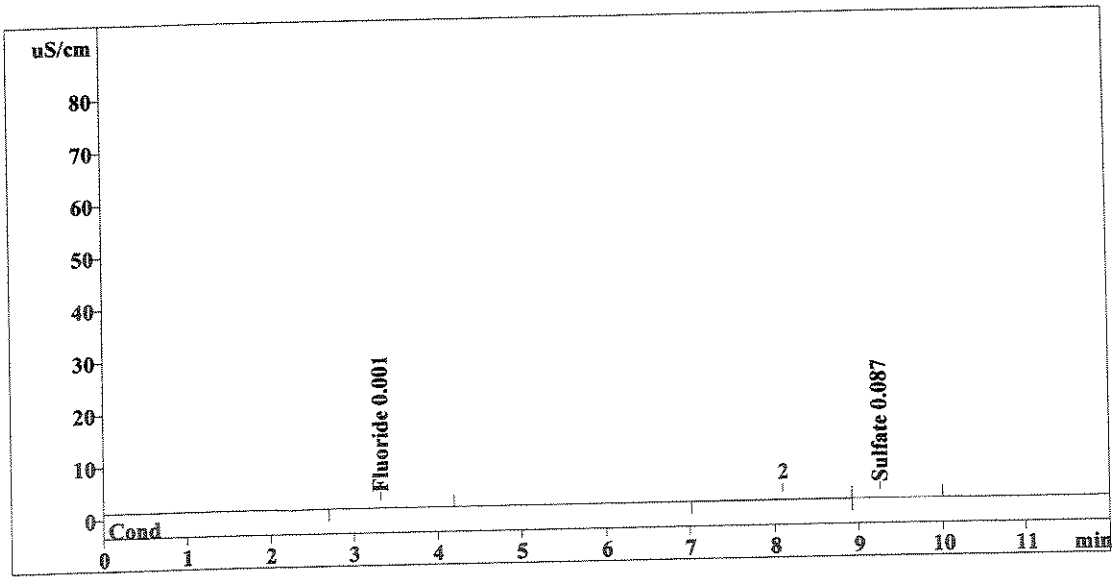
Report date:	7/24/2008 16:19:18
Printed by:	User
Ident:	CCB
Analysis from:	7/24/2008 16:07:20
File:	S7241607.CHW

Last save: 7/24/2008 16:19:19

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38652
SAMPLE:	
Vial number:	20
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.898	OK	0.001	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.26	0.529		0.087	Sulfate
6	12.00	1.427		0.088	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

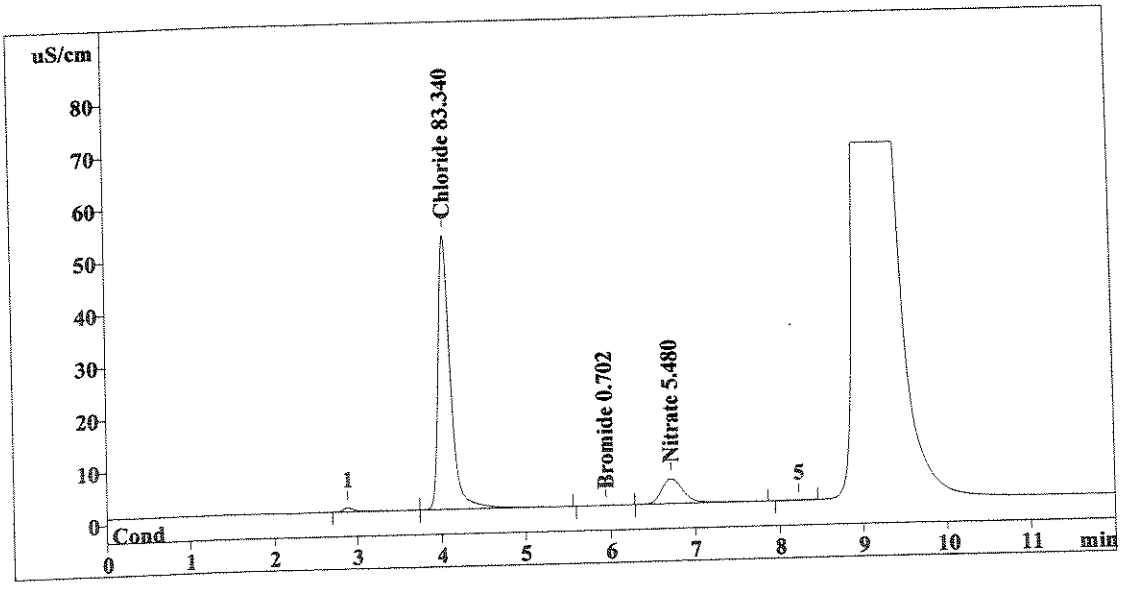
Report date:	7/24/2008 16:33:24
Printed by:	User
Ident:	OUTFALL 001
Analysis from:	7/24/2008 16:21:26
File:	S7241621.CHW

Last save: 7/24/2008 16:33:25

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38653
SAMPLE:	NO3, NO2, S
Vial number:	108
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.04	534.009		83.340	Chloride
3	0.00	0.000	OK	0.000	Nitrite
4	5.94	0.337		0.702	Bromide
5	6.72	84.008	OK	5.480	Nitrate
6	0.00	0.000	1/2000	0.000	Sulfate
6	12.00	618.354		89.522	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

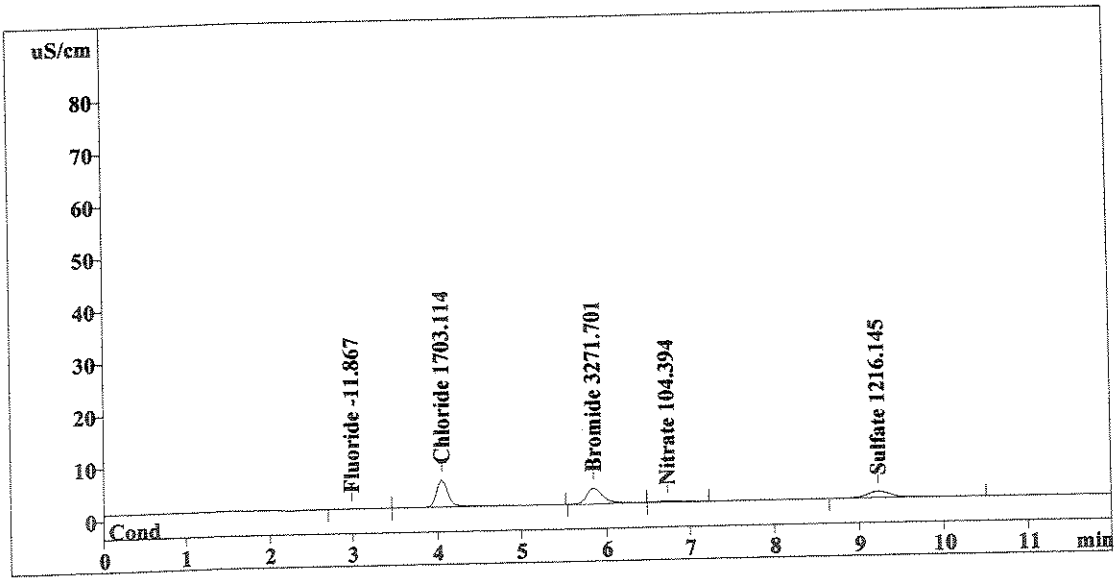
Report date:	7/24/2008 16:47:37
Printed by:	User
Ident:	1114421
Analysis from:	7/24/2008 16:35:32
File:	S7241635.CHW

Last save: 7/24/2008 16:47:37

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38654
SAMPLE:	B
Vial number:	22
Volume:	1.0 µL
Dilution:	2000.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.99	0.228		-11.867	Fluoride
2	4.05	50.584		1703.114	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	39.804	✗	3271.701	Bromide
5	6.73	2.652		104.394	Nitrate
6	9.23	24.201		1216.145	Sulfate
6	12.00	117.469		6307.220	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

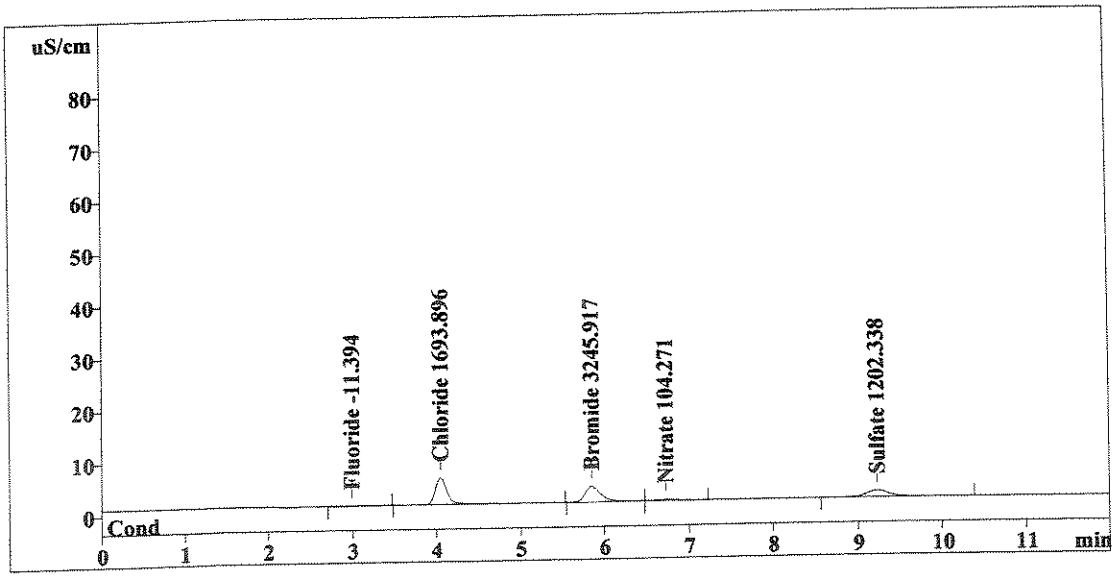
Report date:	7/24/2008 17:01:52
Printed by:	User
Ident:	1114421 DUP
Analysis from:	7/24/2008 16:49:53
File:	S7241649.CHW

Last save: 7/24/2008 17:01:52

Method:	07-17-08CAL.mtw

Last save: 7/24/2008 11:35:17

Run operator:	User
Analysis number:	38655
SAMPLE:	B
Vial number:	23
Volume:	1.0 µL
Dilution:	2000.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.99	0.252		-11.394	Fluoride
2	4.05	50.286		1693.896	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	39.479	OK	3245.917	Bromide
5	6.72	2.642		104.271	Nitrate
6	9.23	23.887		1202.338	Sulfate
6	12.00	116.547		6257.815	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

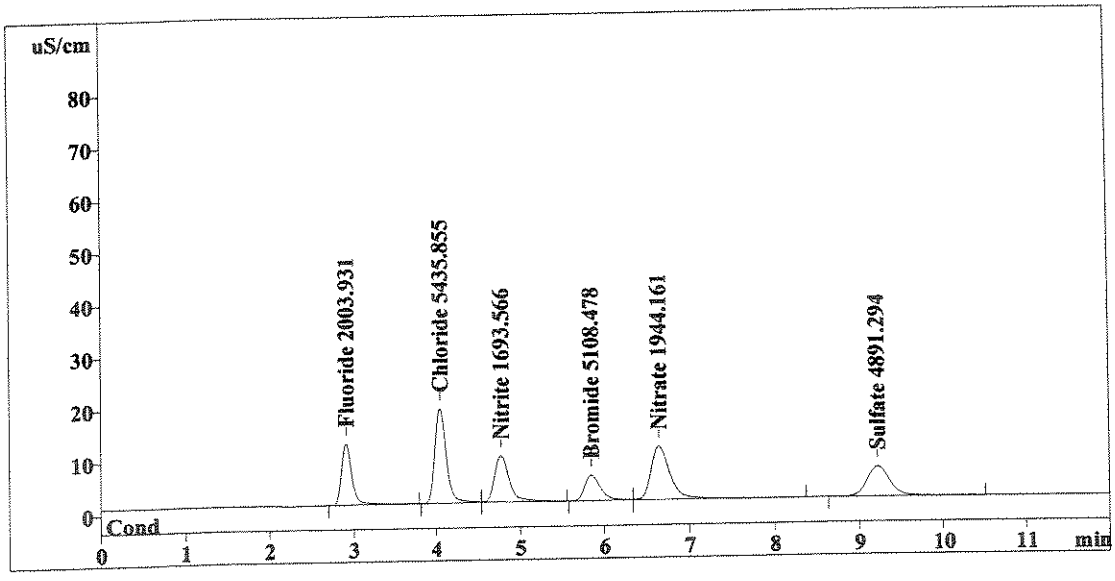
Report date:	7/24/2008 17:15:57
Printed by:	User
Ident:	1114421 SPK
Analysis from:	7/24/2008 17:03:59
File:	S7241703.CHW

Last save: 7/24/2008 17:15:57

Method:	07-17-08CAL.mtw

Last save: 7/24/2008 11:35:17

Run operator:	User
Analysis number:	38656
SAMPLE:	B
Vial number:	24
Volume:	1.0 µL
Dilution:	2000.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



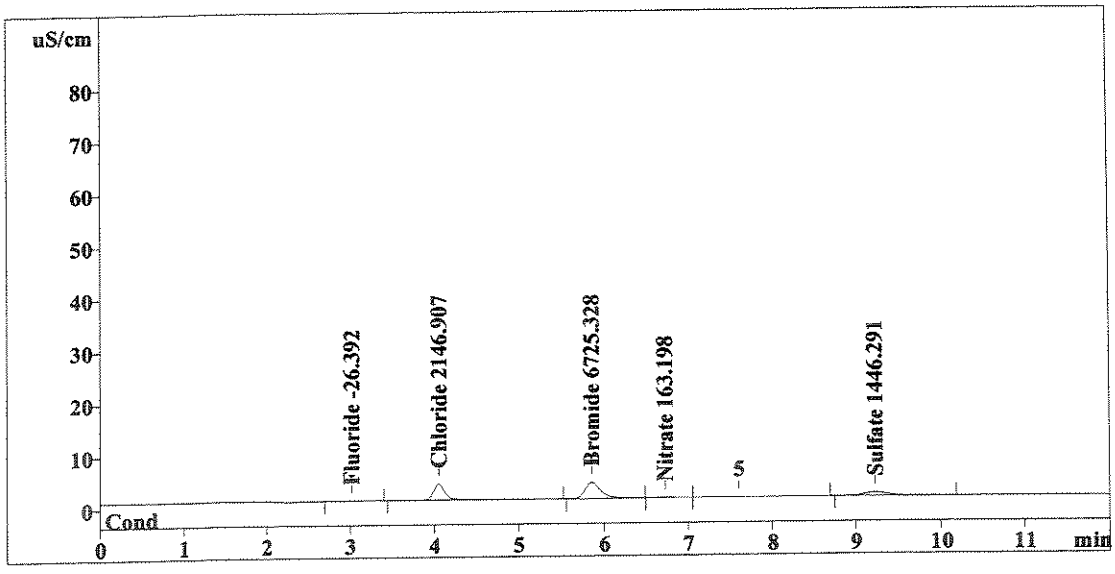
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	102.148		2003.931	Fluoride
2	4.05	171.166		5435.855	Chloride
3	4.77	104.446		1693.566	Nitrite
4	5.85	62.955	ox	5108.478	Bromide
5	6.65	153.591		1944.161	Nitrate
6	9.22	107.677		4891.294	Sulfate
6	12.00	701.984		21077.286	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 17:30:03	
Printed by:	User	
Ident:	1114756	
Analysis from:	7/24/2008 17:18:05	
File:	S7241718.CHW	Last save: 7/24/2008 17:30:03
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38657	
SAMPLE:	B	
Vial number:	25	
Volume:	1.0 µL	
Dilution:	4000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.01	0.161		-26.392	Fluoride
2	4.05	30.243		2146.907	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	40.951	OK	6725.328	Bromide
5	6.73	0.782		163.198	Nitrate
6	9.23	13.003		1446.291	Sulfate
6	12.00	85.140		10508.116	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

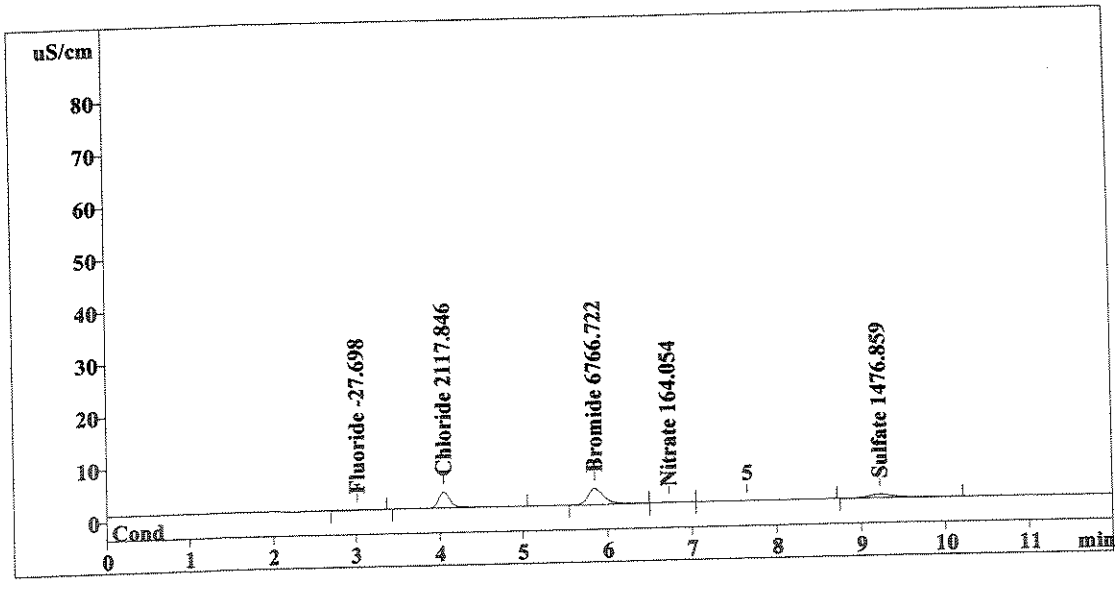
Report date:	7/24/2008 17:44:09
Printed by:	User
Ident:	1114756 DUP
Analysis from:	7/24/2008 17:32:11
File:	S7241732.CHW

Last save: 7/24/2008 17:44:09

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38658
SAMPLE:	B
Vial number:	26
Volume:	1.0 µL
Dilution:	4000.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

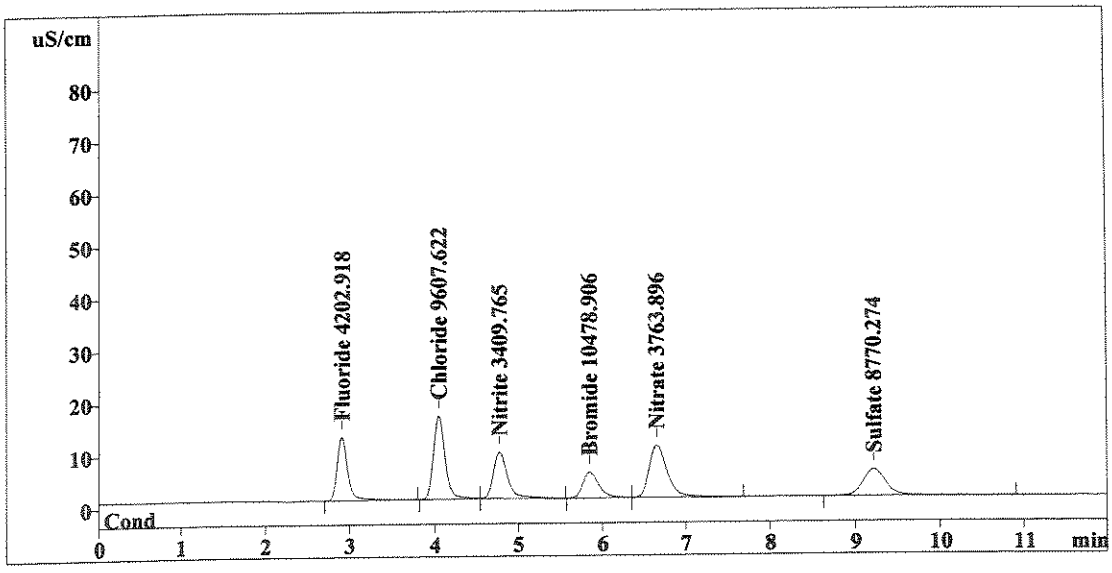
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.02	0.128		-27.698	Fluoride
2	4.05	29.774		2117.846	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.85	41.212	OK	6766.722	Bromide
5	6.73	0.817		164.054	Nitrate
6	9.23	13.350		1476.859	Sulfate
6	12.00	85.281		10553.179	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 17:58:15	
Printed by:	User	
Ident:	1114756 SPK	
Analysis from:	7/24/2008 17:46:17	
File:	S7241746.CHW	Last save: 7/24/2008 17:58:15
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38659	
SAMPLE:	B	
Vial number:	27	
Volume:	1.0 µL	
Dilution:	4000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	107.080		4202.918	Fluoride
2	4.04	150.749		9607.622	Chloride
3	4.77	105.153		3409.765	Nitrite
4	5.85	64.606	OK	10478.906	Bromide
5	6.65	148.487		3763.896	Nitrate
6	9.22	96.180		8770.274	Sulfate
6	12.00	672.255		40233.383	

7/24/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 18:12:21
Printed by:	User
Ident:	08-2574-8655
Analysis from:	7/24/2008 18:00:23
File:	S7241800.CHW

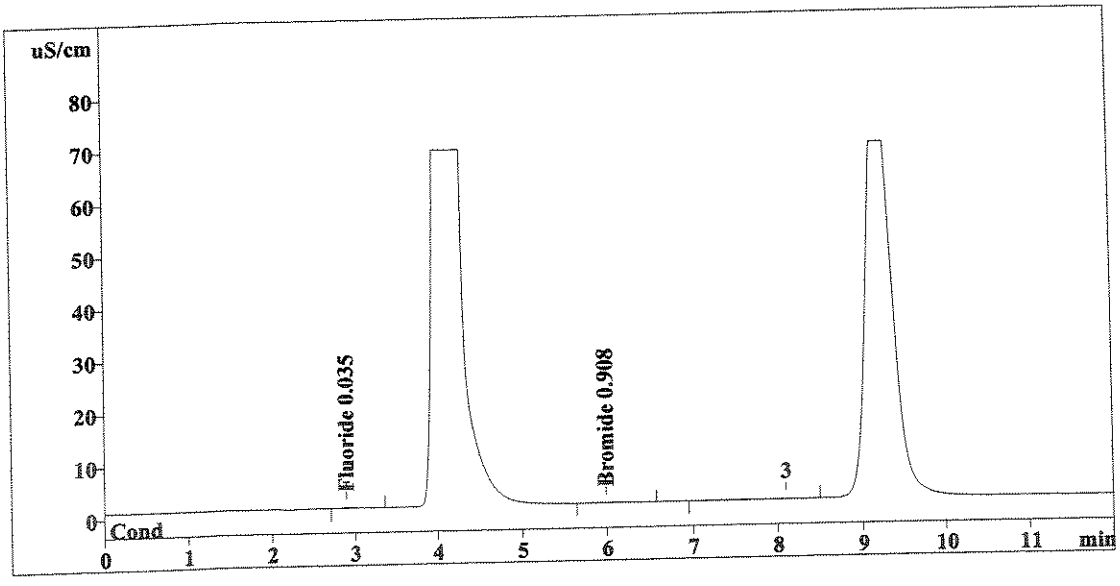
112049

Last save: 7/24/2008 18:12:21

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38660
SAMPLE:	NO3
Vial number:	28
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

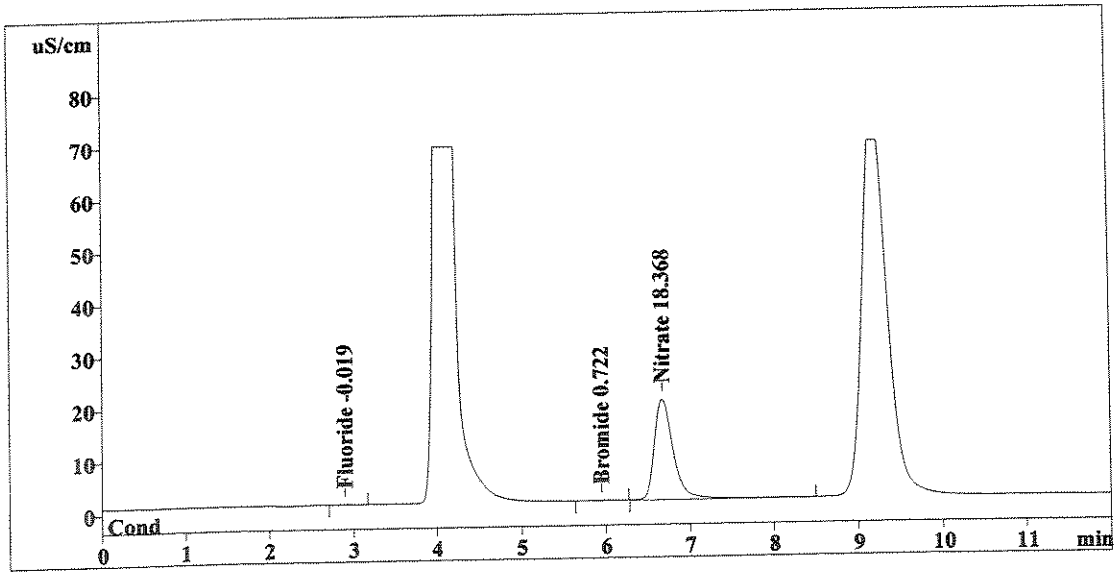
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	1.179		0.035	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.99	0.857		0.908	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	2.036		0.943	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 18:26:27
Printed by:	User
Ident:	08-2574-8657 1120250
Analysis from:	7/24/2008 18:14:29
File:	S7241814.CHW Last save: 7/24/2008 18:26:27
Method:	07-17-08CAL.mtw Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38661
SAMPLE:	NO3
Vial number:	29
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	0.633		-0.019	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.94	0.388		0.722	Bromide
5	6.68	295.483	OK	18.368	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	296.503		19.110	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

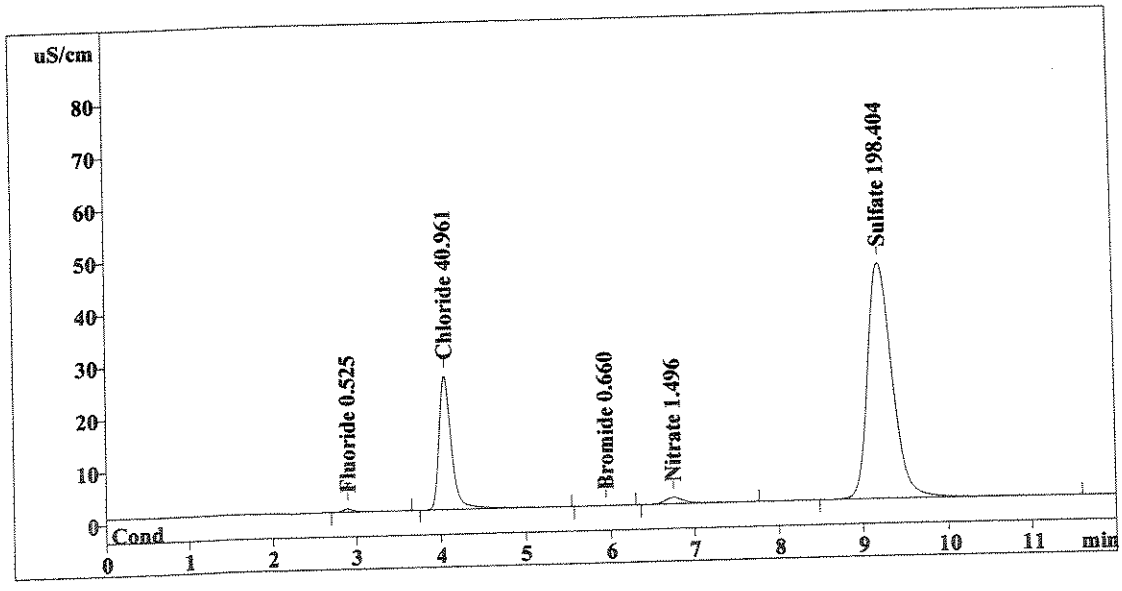
Report date:	7/24/2008 18:40:33
Printed by:	User
Ident:	1112842
Analysis from:	7/24/2008 18:28:35
File:	S7241828.CHW

Last save: 7/24/2008 18:40:33

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38662
SAMPLE:	CBNS
Vial number:	30
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	6.135		0.525	Fluoride
2	4.05	260.209	OK	40.961	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.94	0.231	OK	0.660	Bromide
5	6.75	18.636	OK	1.496	Nitrate
6	9.22	897.877	1/100	198.404	Sulfate
6	12.00	1183.088		242.046	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

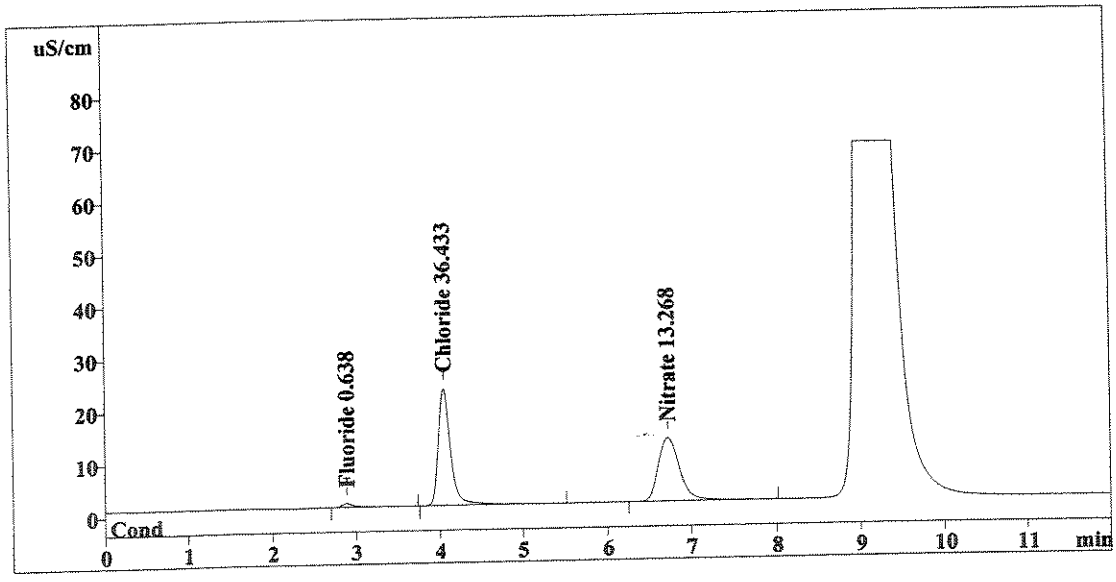
Report date:	7/24/2008 18:54:39
Printed by:	User
Ident:	1112843
Analysis from:	7/24/2008 18:42:40
File:	S7241842.CHW

Last save: 7/24/2008 18:54:39

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38663
SAMPLE:	CBNS
Vial number:	31
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

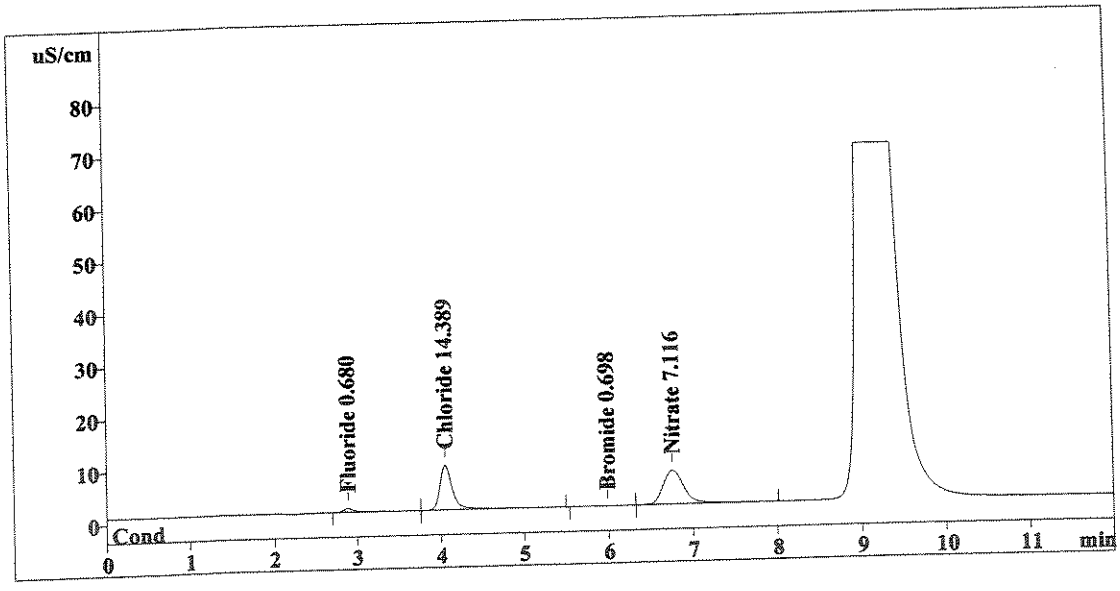
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	7.279		0.638	Fluoride
2	4.05	230.956	OK	36.433	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000	OK	0.000	Bromide
5	6.73	211.800	OK	13.268	Nitrate
6	0.00	0.000	1/4000	0.000	Sulfate
6	12.00	450.035		50.340	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 19:08:44
Printed by:	User
Ident:	1112844
Analysis from:	7/24/2008 18:56:46
File:	S7241856.CHW
	Last save: 7/24/2008 19:08:44
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38664
SAMPLE:	CBNS
Vial number:	32
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
		7.708		0.680	Fluoride
1	2.89	88.533	OK	14.389	Chloride
2	4.05	0.000		0.000	Nitrite
3	0.00	0.327	OK	0.698	Bromide
4	5.98	110.851	OK	7.116	Nitrate
5	6.76	0.000	1/2000	0.000	Sulfate
6	0.00				
6	12.00	207.420		22.884	

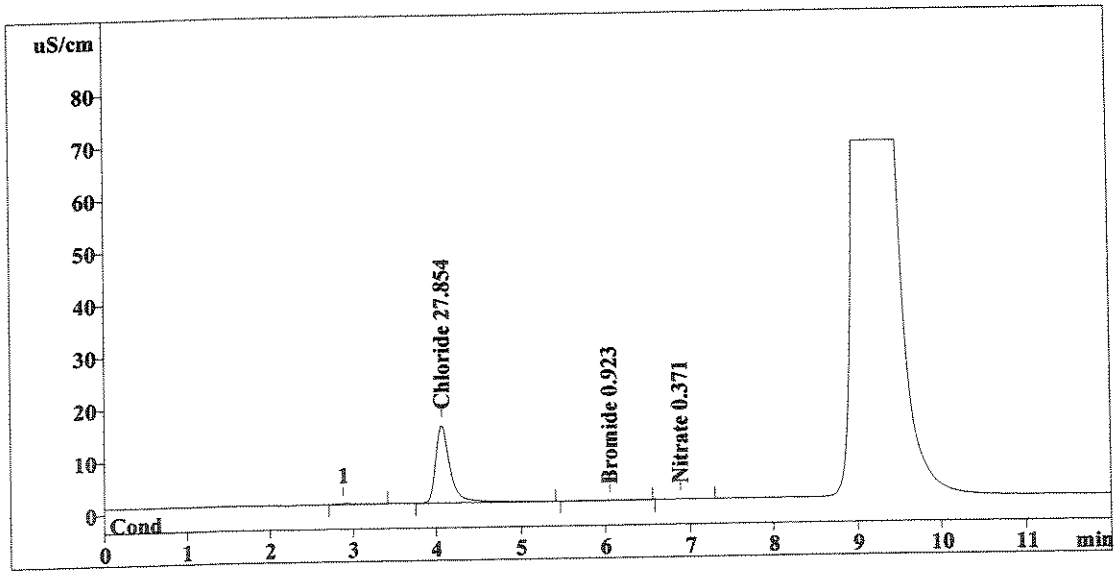
CM 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 19:22:50	
Printed by:	User	
Ident:	1112845	
Analysis from:	7/24/2008 19:10:52	
File:	S7241910.CHW	Last save: 7/24/2008 19:22:50
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38665	
SAMPLE:	CBNS	
Vial number:	33	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

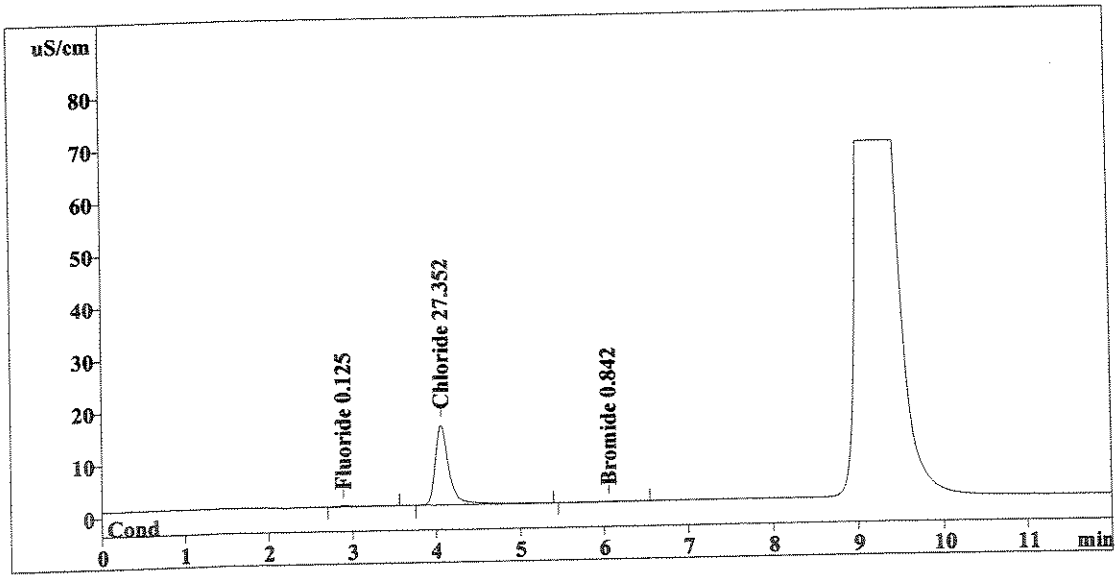
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.07	175.526	OK	27.854	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.05	0.893	OK	0.923	Bromide
5	6.88	0.174	OK	0.371	Nitrate
6	0.00	0.000	1/2000	0.000	Sulfate
6	12.00	176.593		29.148	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 19:36:56
Printed by:	User
Ident:	1112846
Analysis from:	7/24/2008 19:24:58
File:	S7241924.CHW Last save: 7/24/2008 19:36:56
Method:	07-17-08CAL.mtw Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38666
SAMPLE:	CBNS
Vial number:	34
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

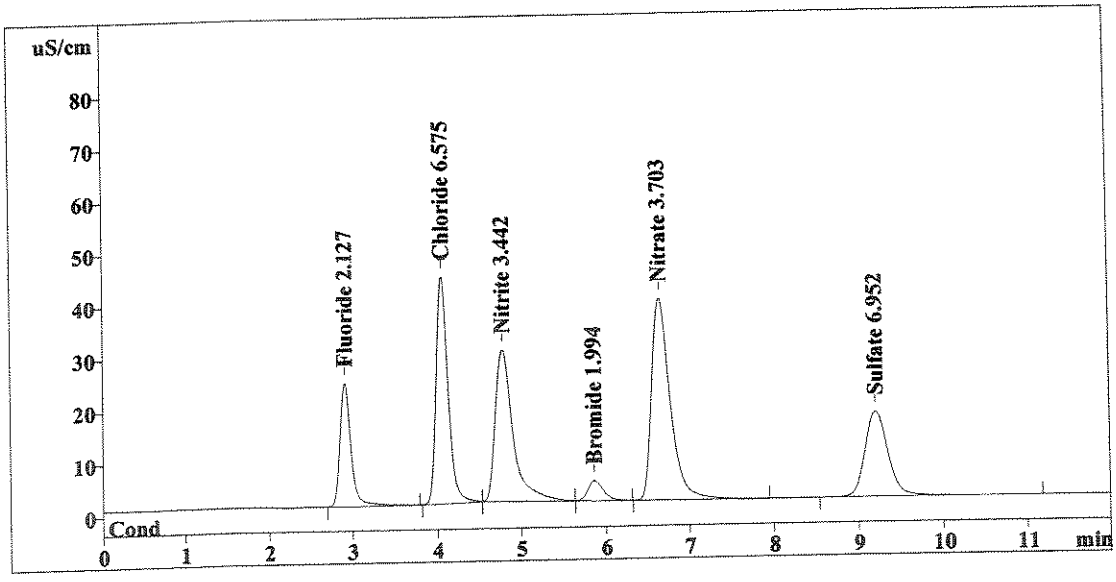
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	2.094		0.125	Fluoride
2	4.06	172.285	OK	27.352	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.05	0.691	OK	0.842	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	175.070		28.320	

CM 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 19:51:02	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/24/2008 19:39:04	
File:	S7241939.CHW	Last save: 7/24/2008 19:51:02
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38667	
SAMPLE:		
Vial number:	35	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	215.876	2.127	Fluoride
2	4.06	420.396	6.575	Chloride
3	4.78	428.577	3.442	Nitrite
4	5.87	48.821	1.994	Bromide
5	6.65	601.680	3.703	Nitrate
6	9.21	312.403	6.952	Sulfate
6	12.00	2027.752	24.793	

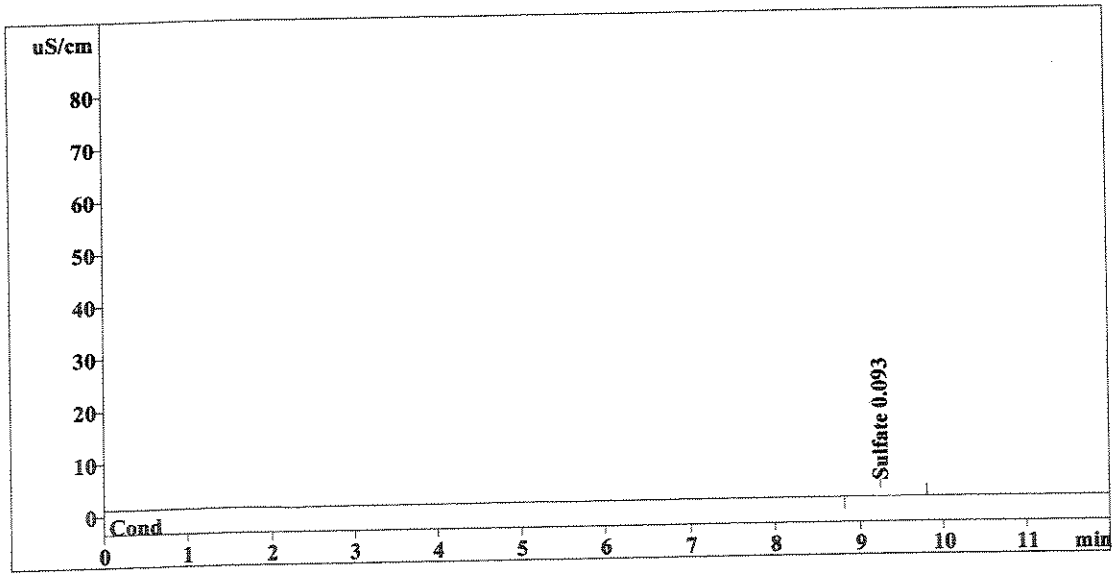
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 20:05:08	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/24/2008 19:53:10	
File:	S7241953.CHW	Last save: 7/24/2008 20:05:08
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38668	
SAMPLE:		
Vial number:	36	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.24	0.799	0.093	Sulfate
6	12.00	0.799	0.093	

OK

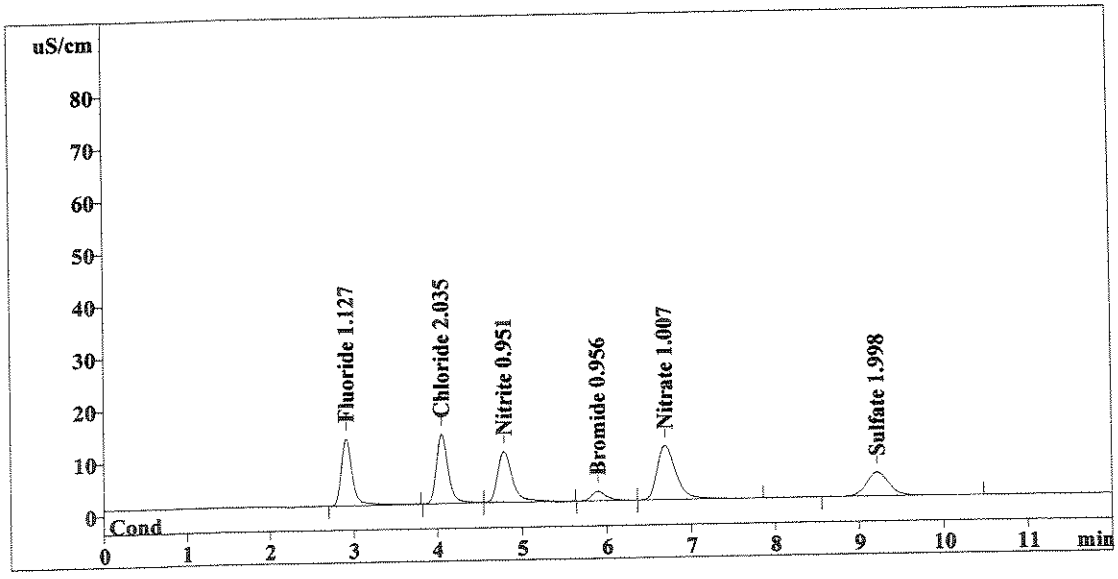
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 20:19:14	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/24/2008 20:07:16	
File:	S7242007.CHW	Last save: 7/24/2008 20:19:14
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38669	
SAMPLE:		
Vial number:	37	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	114.757	1.127	Fluoride
2	4.05	127.068	2.035	Chloride
3	4.79	117.461	0.951	Nitrite
4	5.90	22.664	0.956	Bromide
5	6.69	159.283	1.007	Nitrate
6	9.21	87.350	1.998	Sulfate
6	12.00	628.583	8.074	

ok
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

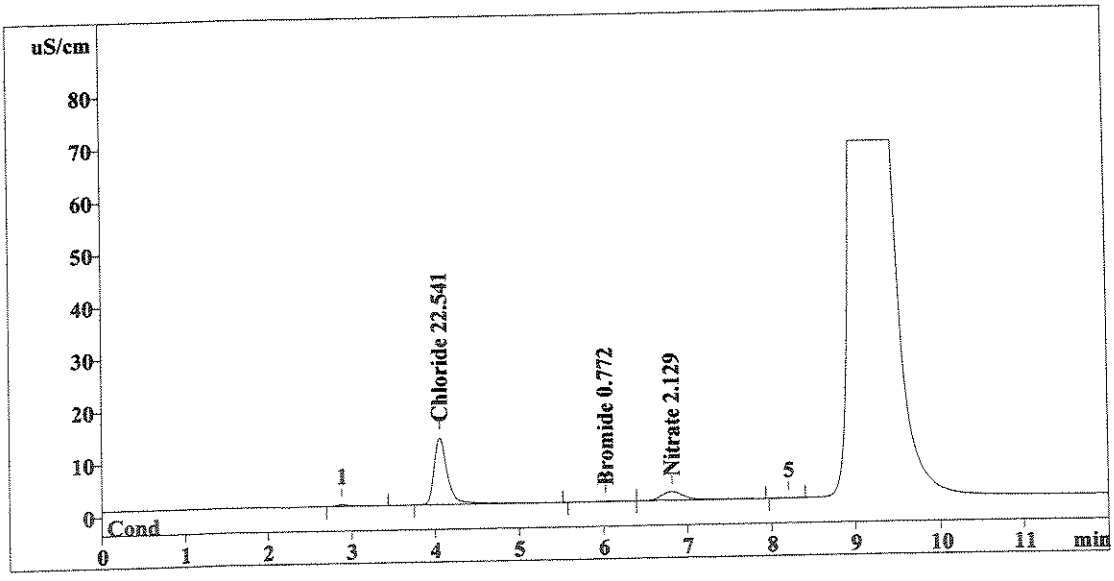
Report date:	7/24/2008 20:33:20
Printed by:	User
Ident:	1112847
Analysis from:	7/24/2008 20:21:22
File:	S7242021.CHW

Last save: 7/24/2008 20:33:20

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38670
SAMPLE:	CBNS
Vial number:	38
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

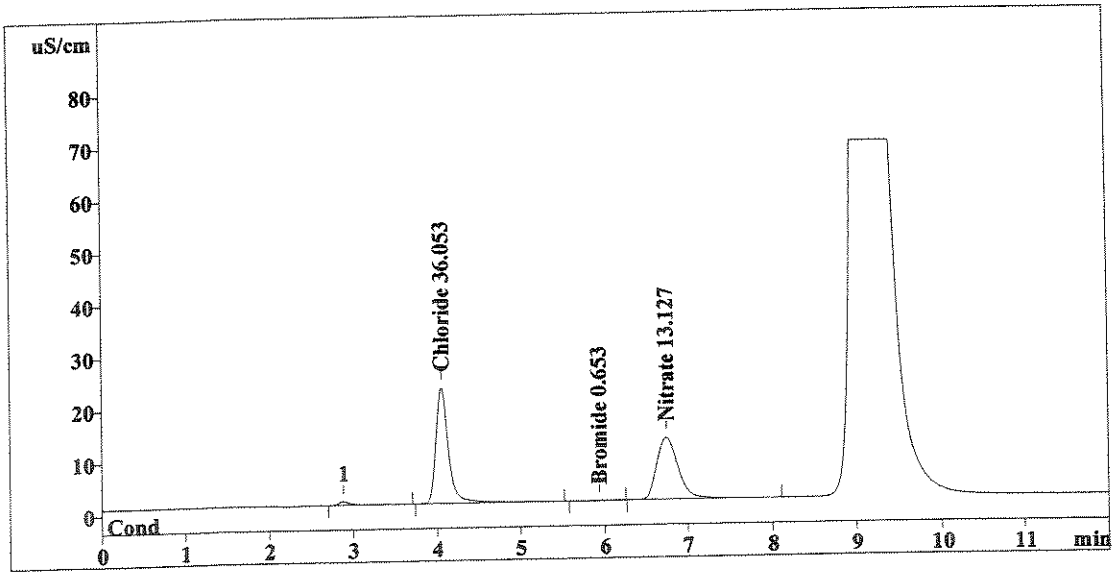
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
	0.00	0.000		0.000	Fluoride
1	4.06	141.197	OK	22.541	Chloride
2	0.00	0.000		0.000	Nitrite
3	6.02	0.513	OK	0.772	Bromide
4	6.82	29.029	OK	2.129	Nitrate
5	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	170.740		25.442	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 20:47:26	
Printed by:	User	
Ident:	1112848	
Analysis from:	7/24/2008 20:35:27	
File:	S7242035.CHW	Last save: 7/24/2008 20:47:25
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38671	
SAMPLE:	CBNS	
Vial number:	39	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000		0.000	Fluoride
2	4.05	228.499	OK	36.053	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.93	0.213	OK	0.653	Bromide
5	6.75	209.486	OK	13.127	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	438.197		49.833	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

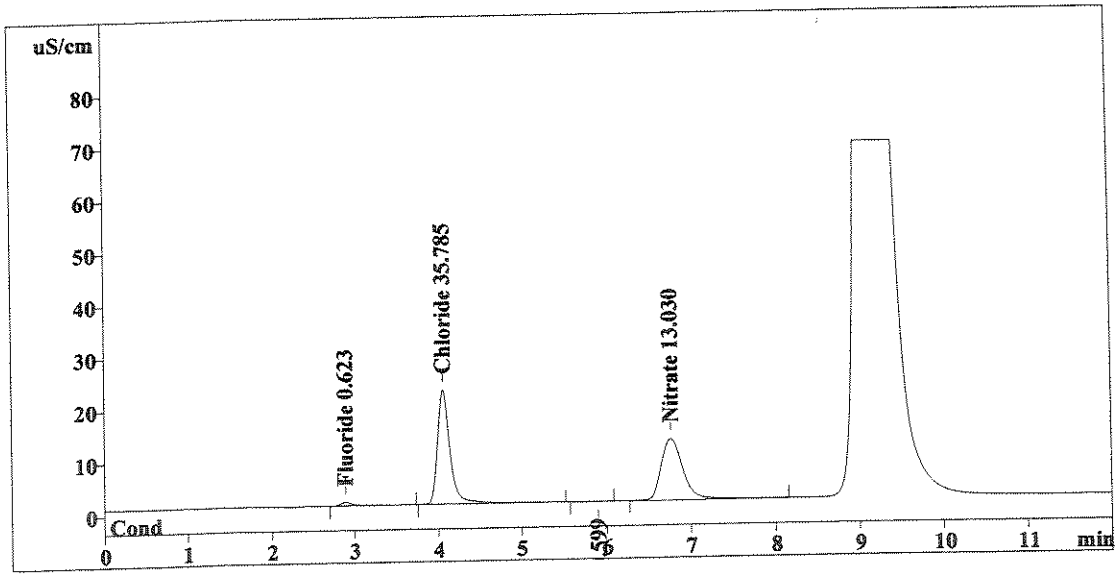
Report date:	7/24/2008 21:01:31
Printed by:	User
Ident:	1112848 DUP
Analysis from:	7/24/2008 20:49:33
File:	S7242049.CHW

Last save: 7/24/2008 21:01:31

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38672
SAMPLE:	CBNS
Vial number:	40
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	7.124		0.623	Fluoride
2	4.06	226.765	OK	35.785	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.89	0.078	OK	0.599	Bromide
5	6.76	207.883	OK	13.030	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	441.851		50.036	

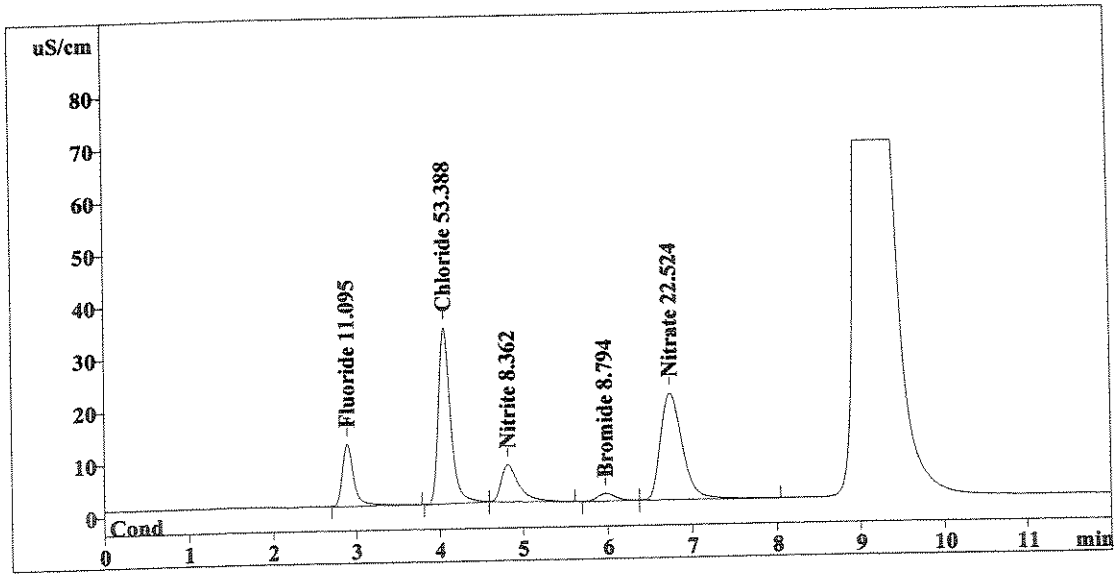
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 21:15:37	
Printed by:	User	
Ident:	1112848 SPK	
Analysis from:	7/24/2008 21:03:39	
File:	S7242103.CHW	Last save: 7/24/2008 21:15:37
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38673	
SAMPLE:	CBNS	
Vial number:	41	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	113.018		11.095	Fluoride
2	4.06	340.497	OK	53.388	Chloride
3	4.82	103.124		8.362	Nitrite
4	5.97	20.736	OK	8.794	Bromide
5	6.75	363.669	OK	22.524	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	941.044		104.163	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

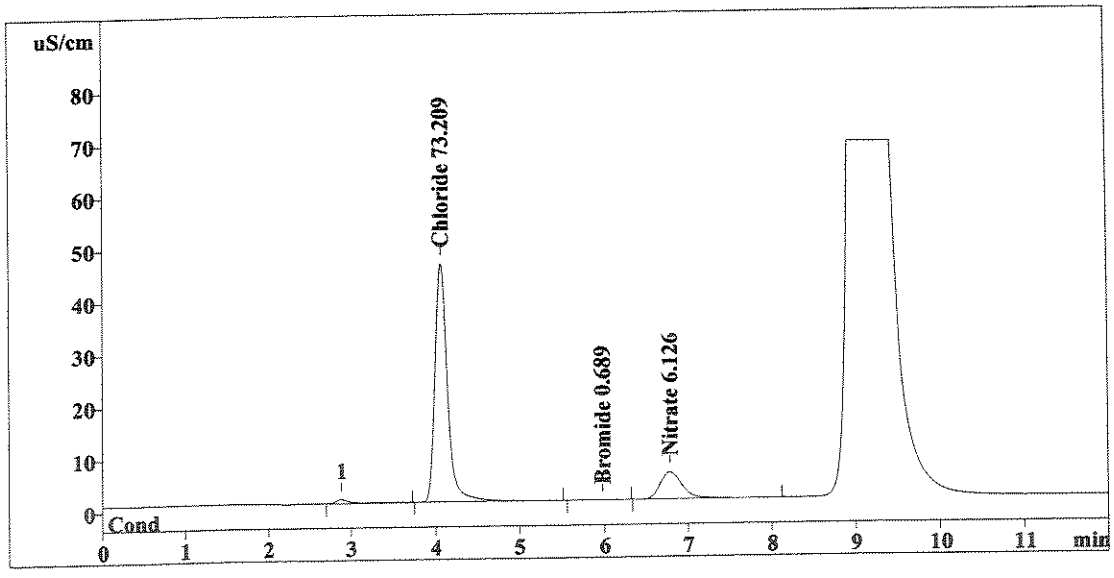
Report date:	7/24/2008 21:29:43
Printed by:	User
Ident:	1118162
Analysis from:	7/24/2008 21:17:45
File:	S7242117.CHW

Last save: 7/24/2008 21:29:43

Method:	07-17-08CAL.mtw

Last save: 7/24/2008 11:35:17

Run operator:	User
Analysis number:	38674
SAMPLE:	NO3, NO2, S
Vial number:	42
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
	0.00	0.000		0.000	Fluoride
1	4.06	468.557		73.209	Chloride
2	0.00	0.000	OK	0.000	Nitrite
3	5.98	0.304		0.689	Bromide
4	6.78	94.598	OK	6.126	Nitrate
5	0.00	0.000	1/100 D	0.000	Sulfate
6					
6	12.00	563.459		80.024	

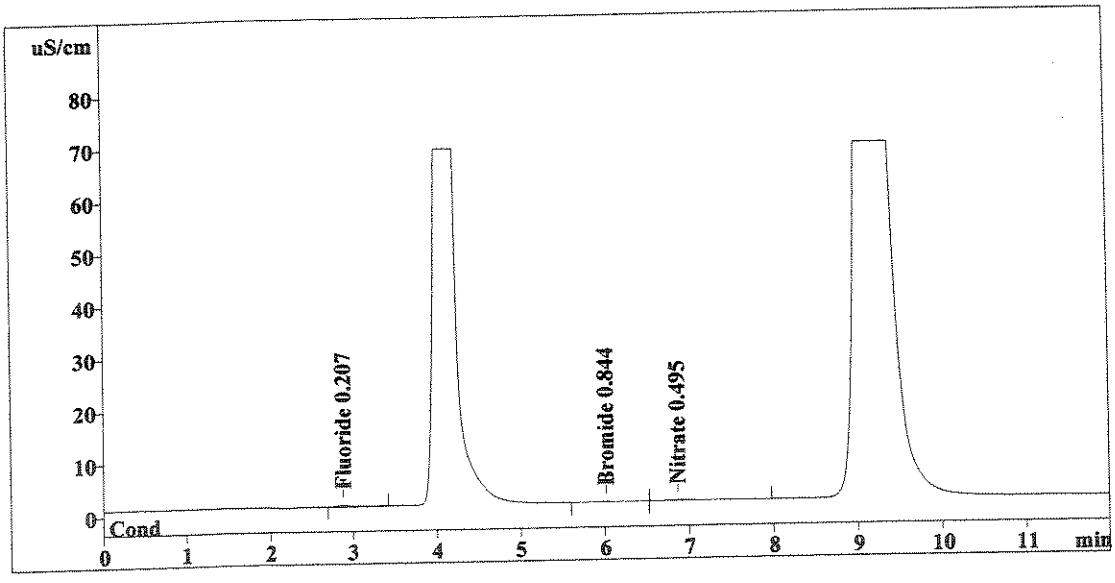
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 21:43:49	
Printed by:	User	
Ident:	1120201	
Analysis from:	7/24/2008 21:31:51	
File:	S7242131.CHW	Last save: 7/24/2008 21:43:49
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38675	
SAMPLE:	CBNS	
Vial number:	43	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.88	2.921		0.207	Fluoride
2	0.00	0.000	1/400	0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.02	0.694	OK	0.844	Bromide
5	6.86	2.206	OK	0.495	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	5.822		1.545	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

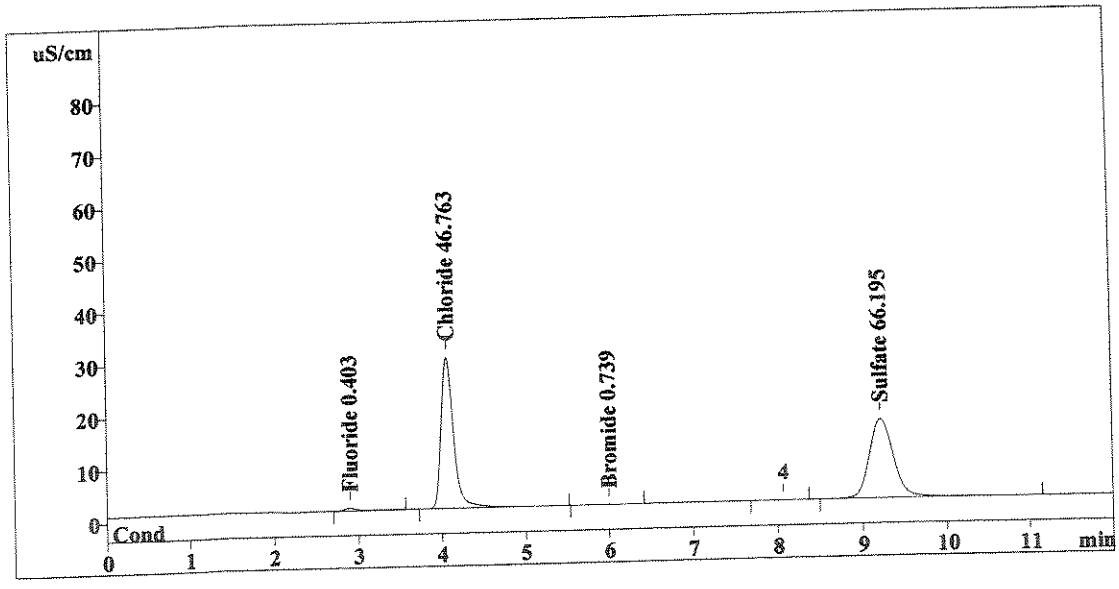
Report date:	7/24/2008 21:57:55
Printed by:	User
Ident:	1120202
Analysis from:	7/24/2008 21:45:57
File:	S7242145.CHW

Last save: 7/24/2008 21:57:55

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38676
SAMPLE:	CBNS
Vial number:	44
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



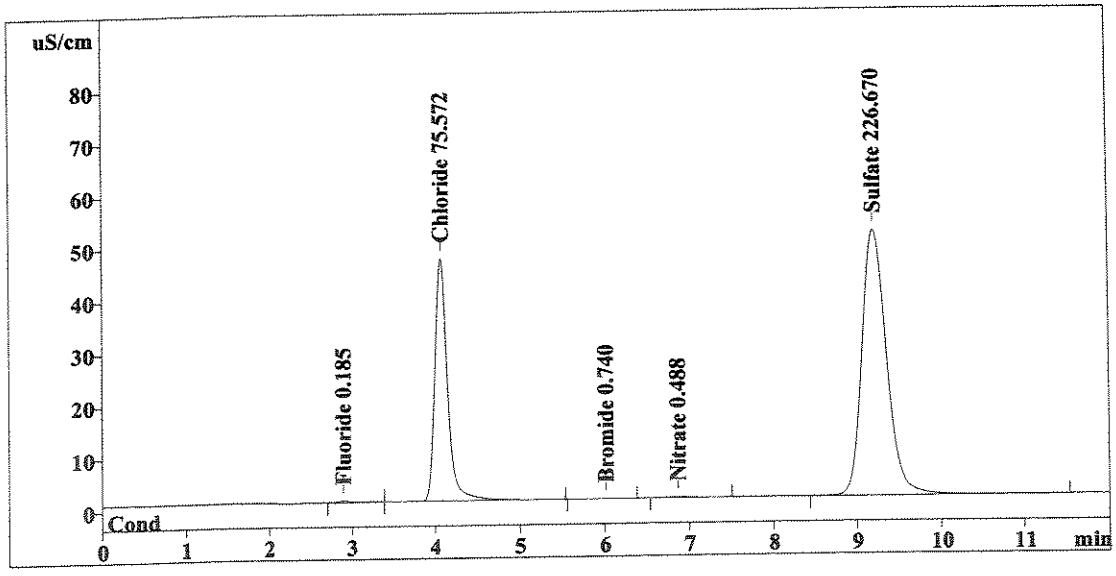
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	4.903		0.403	Fluoride
2	4.07	297.694	OK	46.763	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.00	0.431	OK	0.739	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	9.22	297.282	OK	66.195	Sulfate
6	12.00	600.310		114.100	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 22:12:01
Printed by:	User
Ident:	1120203
Analysis from:	7/24/2008 22:00:03
File:	S7242200.CHW — Last save: 7/24/2008 22:12:01
Method:	07-17-08CAL.mtw — Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38677
SAMPLE:	CBNS
Vial number:	45
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	2.703		0.185	Fluoride
2	4.07	483.820	OK	75.572	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.02	0.433	OK	0.740	Bromide
5	6.86	2.092	OK	0.488	Nitrate
6	9.21	1026.279	1/100	226.670	Sulfate
6	12.00	1515.328		303.655	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

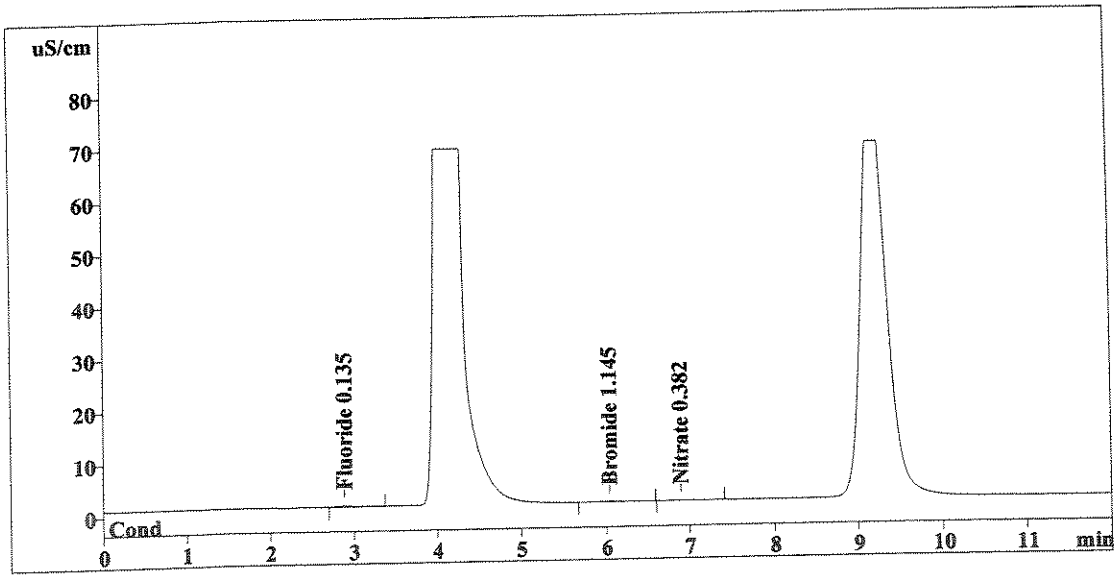
Report date:	7/24/2008 22:26:07
Printed by:	User
Ident:	1120204
Analysis from:	7/24/2008 22:14:09
File:	S7242214.CHW

Last save: 7/24/2008 22:26:07

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38678
SAMPLE:	CBNS
Vial number:	46
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.88	2.191		0.135	Fluoride
2	0.00	0.000	1/400	0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.04	1.454	OK	1.145	Bromide
5	6.89	0.353	OK	0.382	Nitrate
6	0.00	0.000	1/400	0.000	Sulfate
6	12.00	3.998		1.661	

LMT 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

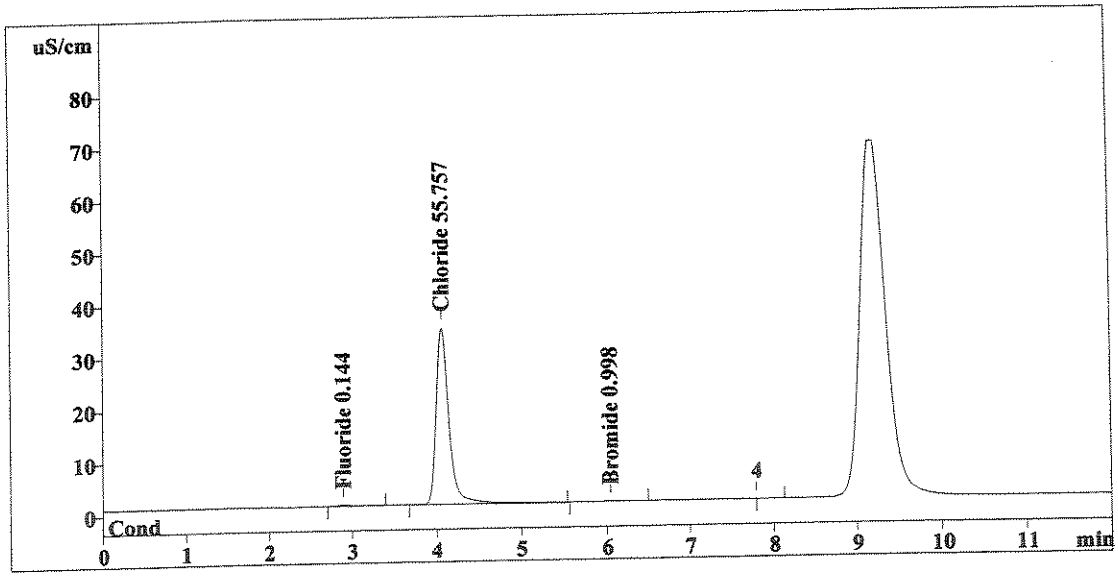
Report date:	7/24/2008 22:40:13
Printed by:	User
Ident:	1120205
Analysis from:	7/24/2008 22:28:14
File:	S7242228.CHW

Last save: 7/24/2008 22:40:13

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38679
SAMPLE:	CBNS
Vial number:	47
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	2.285		0.144	Fluoride
2	4.07	355.802	OK	55.757	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.04	1.084	OK	0.998	Bromide
5	0.00	0.000		0.000	Nitrate
6	0.00	0.000	OK 10/100	0.000	Sulfate
6	12.00	359.171		56.899	

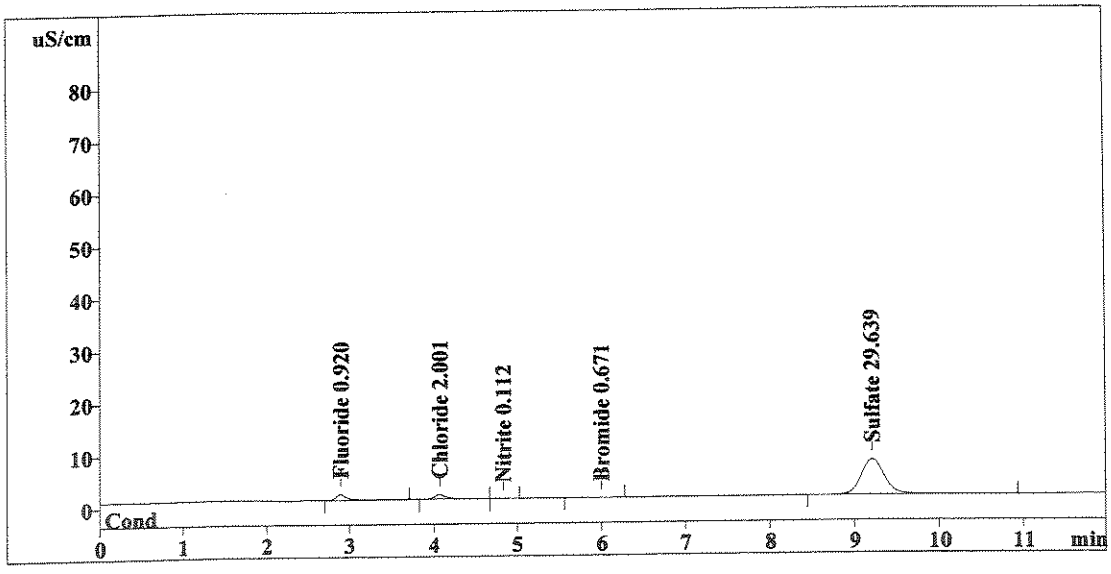
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 22:54:19
Printed by:	User
Ident:	1120206
Analysis from:	7/24/2008 22:42:20
File:	S7242242.CHW — Last save: 7/24/2008 22:54:18
Method:	07-17-08CAL.mtw — Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38680
SAMPLE:	CBNS
Vial number:	48
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	10.130		0.920	Fluoride
2	4.07	8.497	OK	2.001	Chloride
3	4.83	0.083		0.112	Nitrite
4	6.00	0.260	OK	0.671	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	9.21	131.222	OK	29.639	Sulfate
6	12.00	150.191		33.344	

7-25-08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

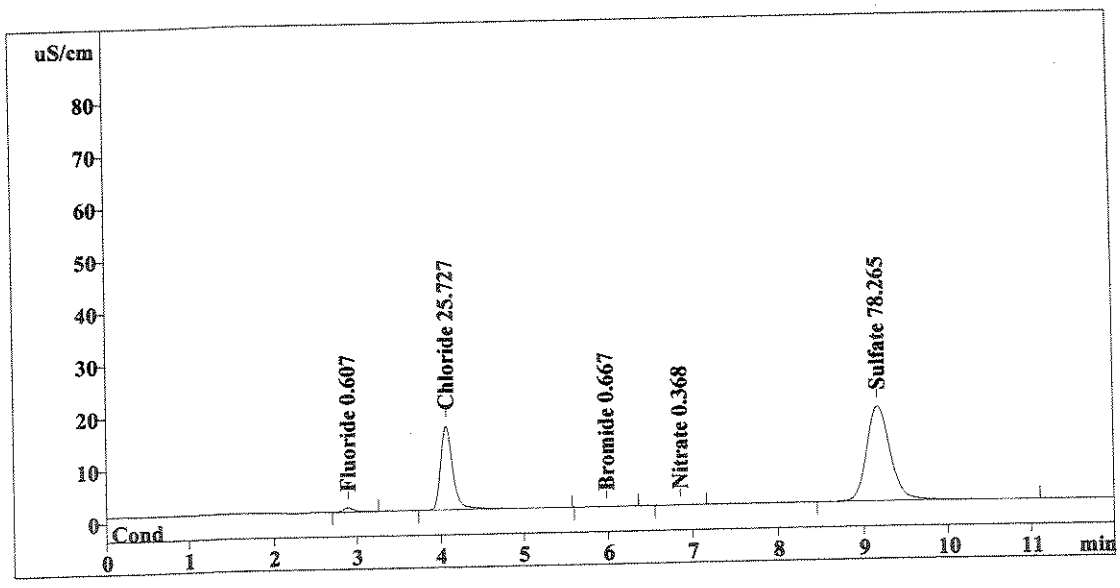
Report date:	7/24/2008 23:08:25
Printed by:	User
Ident:	1120207
Analysis from:	7/24/2008 22:56:26
File:	S7242256.CHW

Last save: 7/24/2008 23:08:24

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38681
SAMPLE:	CBNS
Vial number:	49
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	6.965		0.607	Fluoride
2	4.06	161.781	OK	25.727	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.98	0.249	OK	0.667	Bromide
5	6.86	0.124	OK	0.368	Nitrate
6	9.18	352.116	OK	78.265	Sulfate
6	12.00	521.235		105.634	

CMT 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

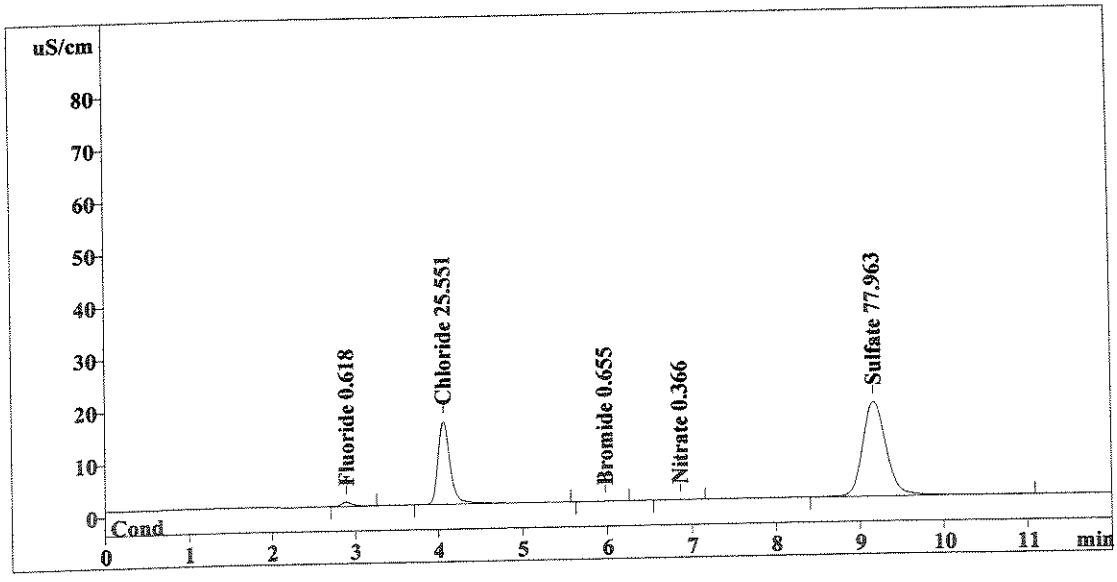
Report date:	7/24/2008 23:22:31
Printed by:	User
Ident:	1120207 DUP
Analysis from:	7/24/2008 23:10:32
File:	S7242310.CHW

Last save: 7/24/2008 23:22:30

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38682
SAMPLE:	CBNS
Vial number:	50
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
		7.079		0.618	Fluoride
1	2.89	160.649	OK	25.551	Chloride
2	4.06	0.000		0.000	Nitrite
3	0.00	0.219	OK	0.655	Bromide
4	5.98	0.097	OK	0.366	Nitrate
5	6.86	350.742	OK	77.963	Sulfate
6	9.17				
6	12.00	518.787		105.154	

7/25/08

This report has been created by IC Net
METROHM LTD

01271

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

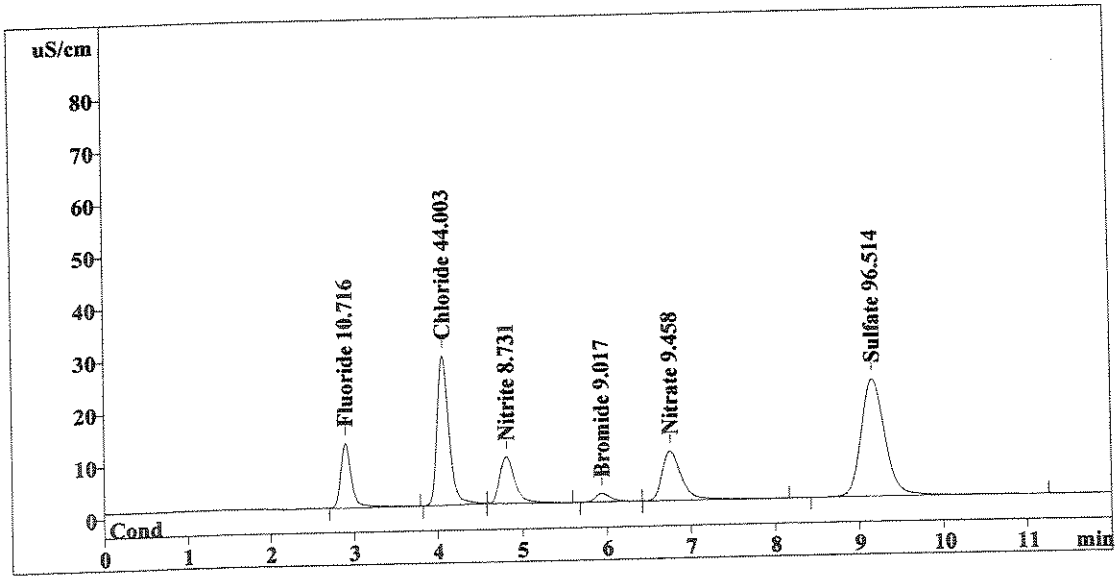
Report date:	7/24/2008 23:36:37
Printed by:	User
Ident:	1120207 SPK
Analysis from:	7/24/2008 23:24:39
File:	S7242324.CHW

Last save: 7/24/2008 23:36:37

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38683
SAMPLE:	CBNS
Vial number:	51
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	109.191		10.716	Fluoride
2	4.06	279.861	OK	44.003	Chloride
3	4.81	107.739		8.731	Nitrite
4	5.94	21.297	OK	9.017	Bromide
5	6.76	149.279	OK	9.458	Nitrate
6	9.16	435.013	OK	96.514	Sulfate
6	12.00	1102.381		178.439	

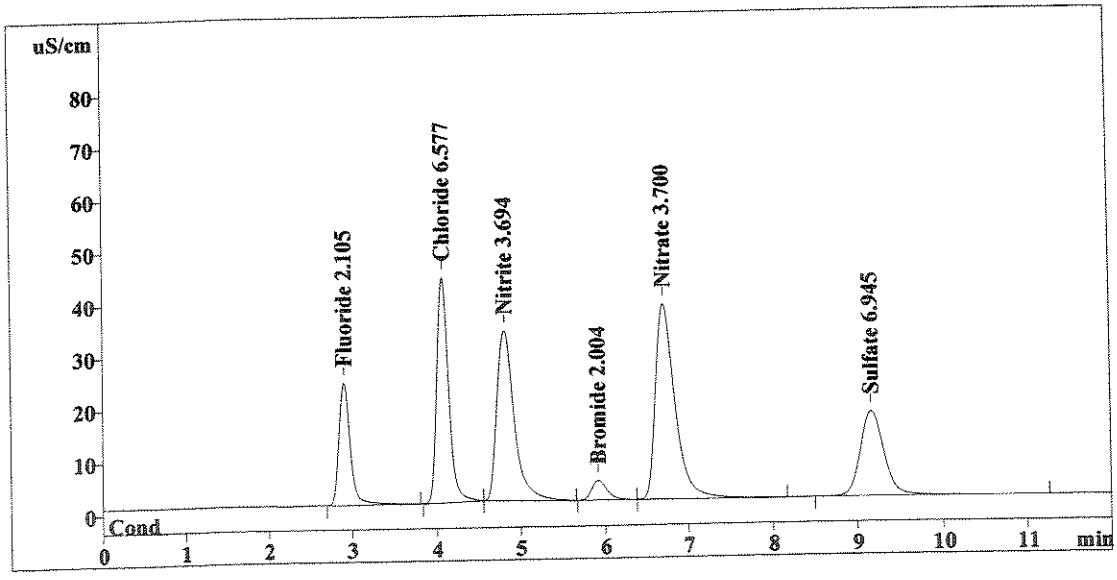
CMT 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/24/2008 23:50:43	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/24/2008 23:38:45	
File:	S7242338.CHW	Last save: 7/24/2008 23:50:43
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38684	
SAMPLE:		
Vial number:	52	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	213.681	2.105	Fluoride
2	4.07	420.498	6.577	Chloride
3	4.81	460.034	3.694	Nitrite
4	5.92	49.080	2.004	Bromide
5	6.72	601.163	3.700	Nitrate
6	9.17	312.082	6.945	Sulfate
6	12.00	2056.538	25.024	

ok

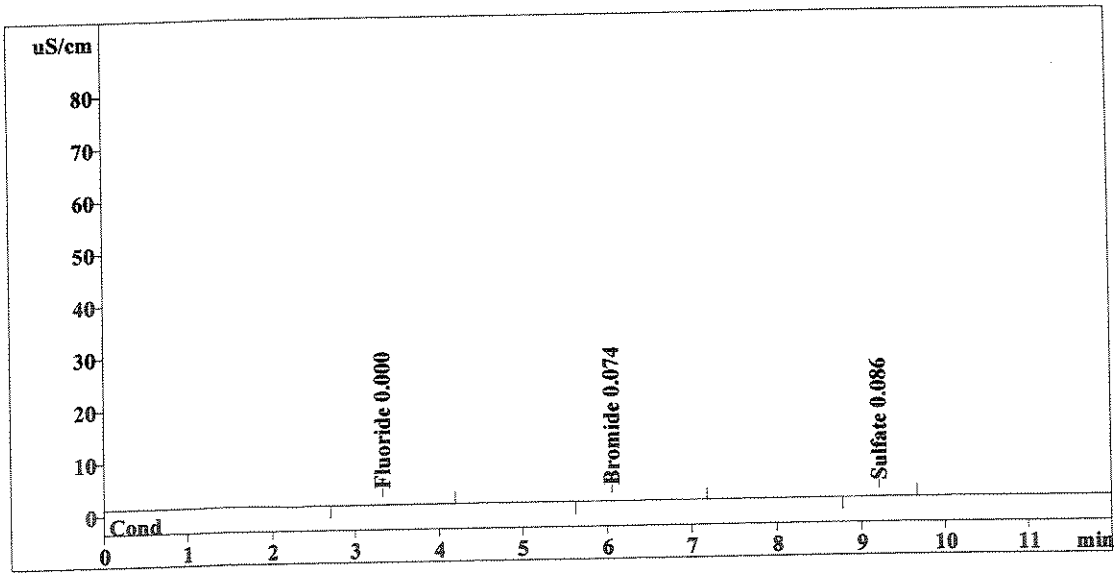
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 00:04:49	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/24/2008 23:52:50	
File:	S7242352.CHW	Last save: 7/25/2008 00:04:48
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38685	
SAMPLE:		
Vial number:	53	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.33	0.868	0.000	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.442	0.074	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.21	0.476	0.086	Sulfate
6	12.00	1.787	0.161	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

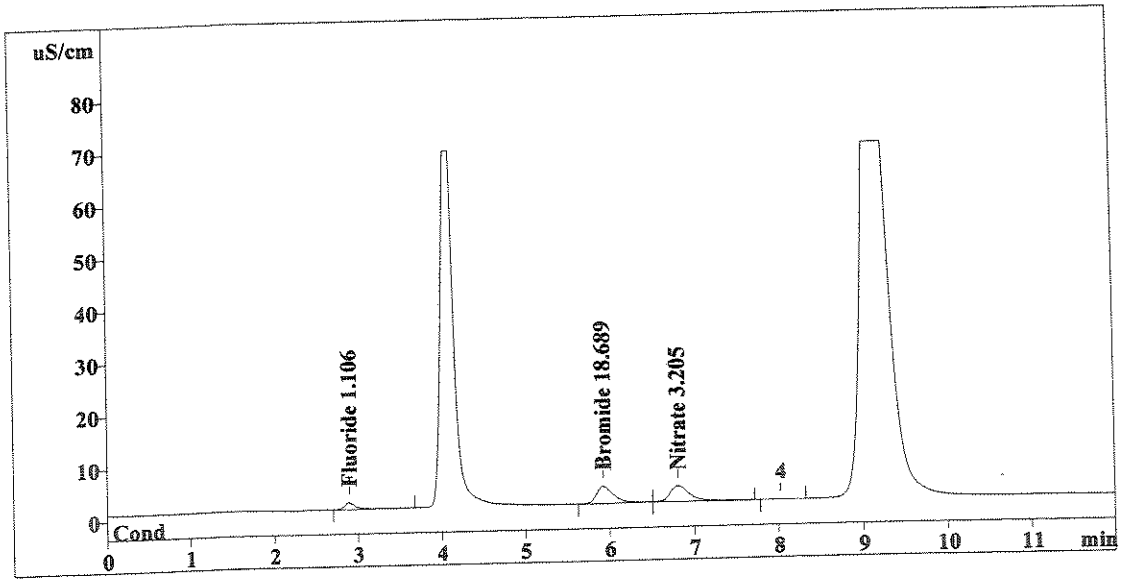
Report date:	7/25/2008 00:18:55
Printed by:	User
Ident:	1113695
Analysis from:	7/25/2008 00:06:56
File:	S7250006.CHW

Last save: 7/25/2008 00:18:54

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38686
SAMPLE:	B
Vial number:	54
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	12.013		1.106	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.93	45.679	OK	18.689	Bromide
5	6.81	46.669		3.205	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	104.362		23.000	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

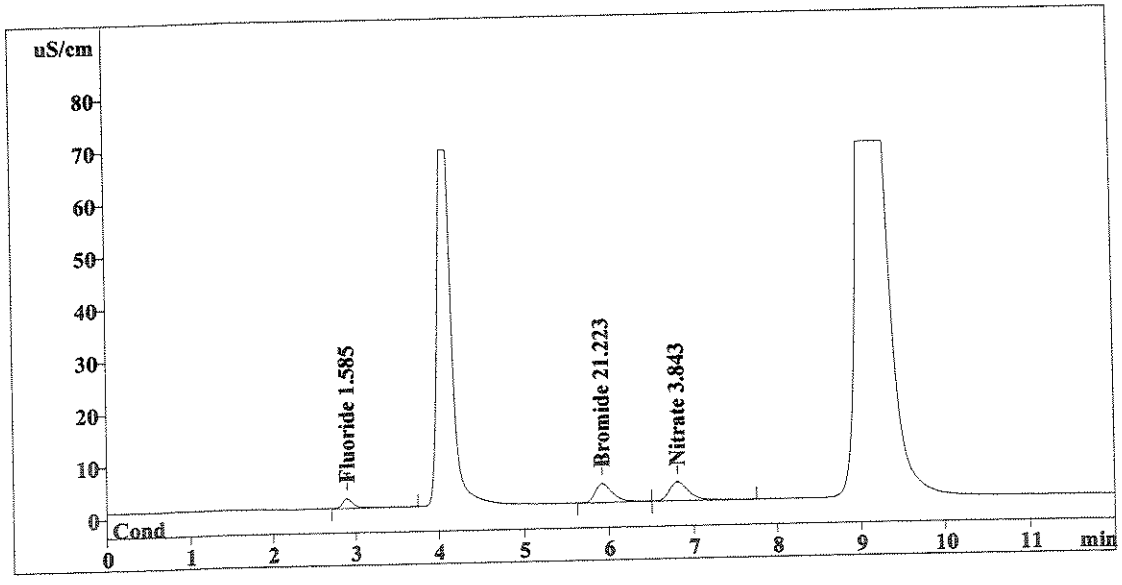
Report date:	7/25/2008 00:33:01
Printed by:	User
Ident:	1113697
Analysis from:	7/25/2008 00:21:02
File:	S7250021.CHW

Last save: 7/25/2008 00:33:00

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38687
SAMPLE:	B
Vial number:	55
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	16.853		1.585	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.92	52.065	OK	21.223	Bromide
5	6.81	57.149		3.843	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	126.067		26.650	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

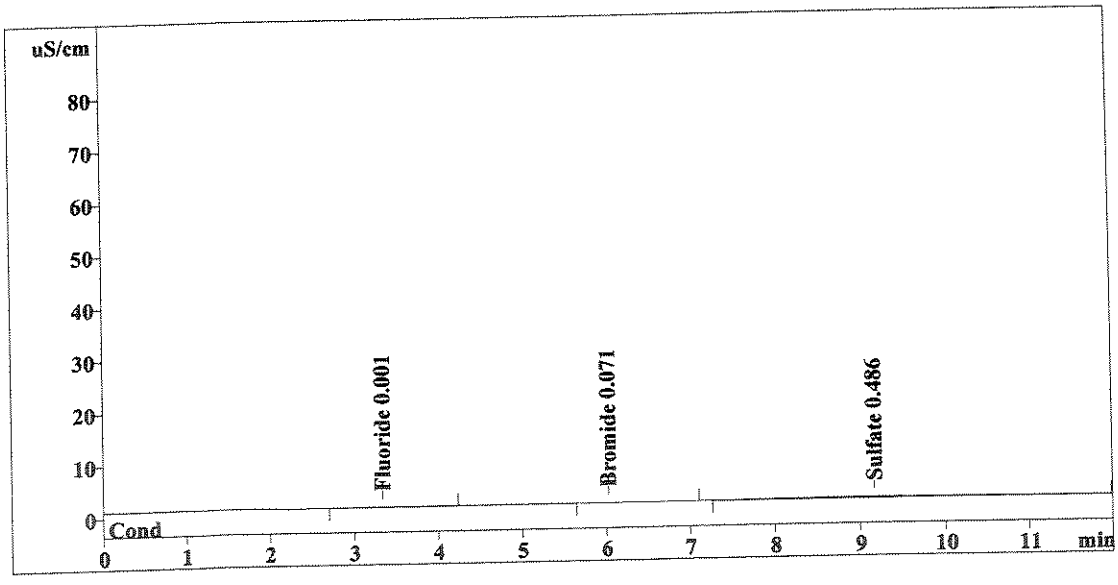
Report date:	7/25/2008 00:47:07
Printed by:	User
Ident:	MTD BLK 7/10/08
Analysis from:	7/25/2008 00:35:08
File:	S7250035.CHW

Last save: 7/25/2008 00:47:06

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38688
SAMPLE:	25g -> 250mL (CS) ∴ results x 10
Vial number:	56
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.939	OK	0.001	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.06	0.356		0.071	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.16	18.670	OK	0.486	Sulfate
6	12.00	19.965		0.558	

7/25/8

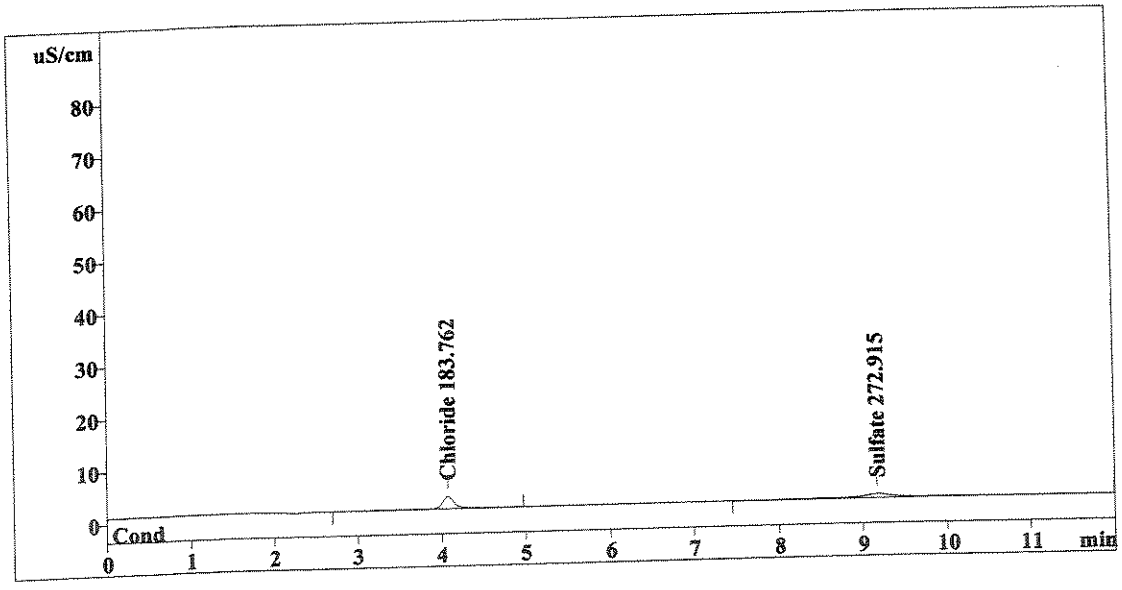
This report has been created by IC Net
METROHM LTD

01277

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

Report date:	7/25/2008 01:01:13	
Printed by:	User	
Ident:	1116254	
Analysis from:	7/25/2008 00:49:14	Last save: 7/25/2008 01:01:12
File:	S7250049.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38689	
SAMPLE:	25g -> 250mL (CS)	
Vial number:	57	
Volume:	1.0 µL	
Dilution:	400.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

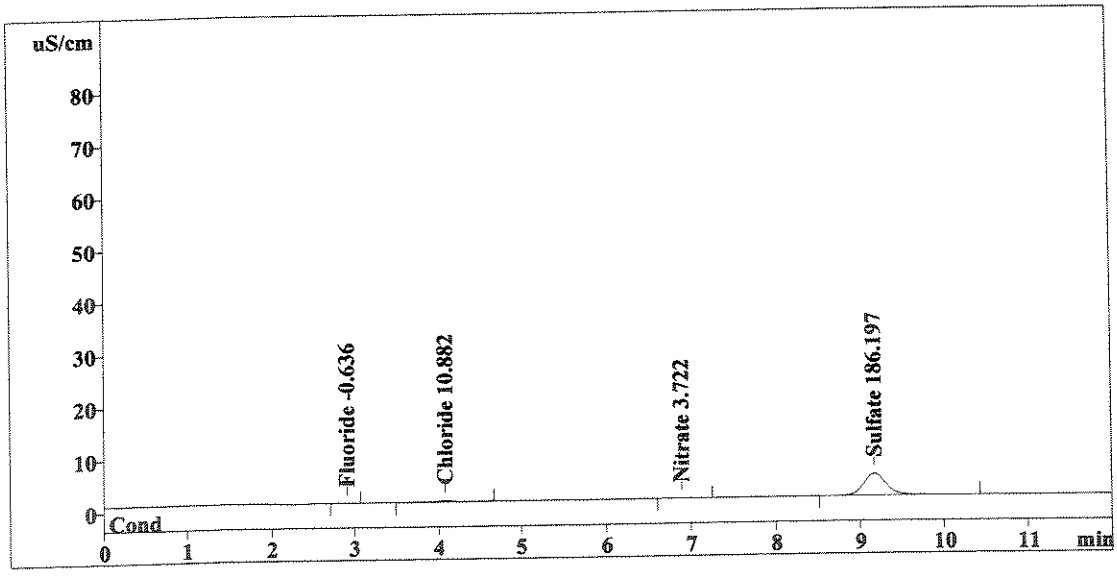
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
	0.00	0.000		0.000	Fluoride
1	4.07	25.247	1/100	183.762	Chloride
2	0.00	0.000		0.000	Nitrite
3	0.00	0.000		0.000	Bromide
4	0.00	0.000		0.000	Nitrate
5	9.17	27.572	1/100	272.915	Sulfate
6					
6	12.00	52.820		456.678	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 01:15:19	
Printed by:	User	
Ident:	1116258	
Analysis from:	7/25/2008 01:03:20	
File:	S7250103.CHW	Last save: 7/25/2008 01:15:18
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38690	
SAMPLE:	25g -> 250mL (S)	
Vial number:	58	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.185		-0.636	Fluoride
2	4.08	2.597		10.882	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.89	0.195		3.722	Nitrate
6	9.17	81.162	OK	186.197	Sulfate
6	12.00	84.139		201.438	

CW 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

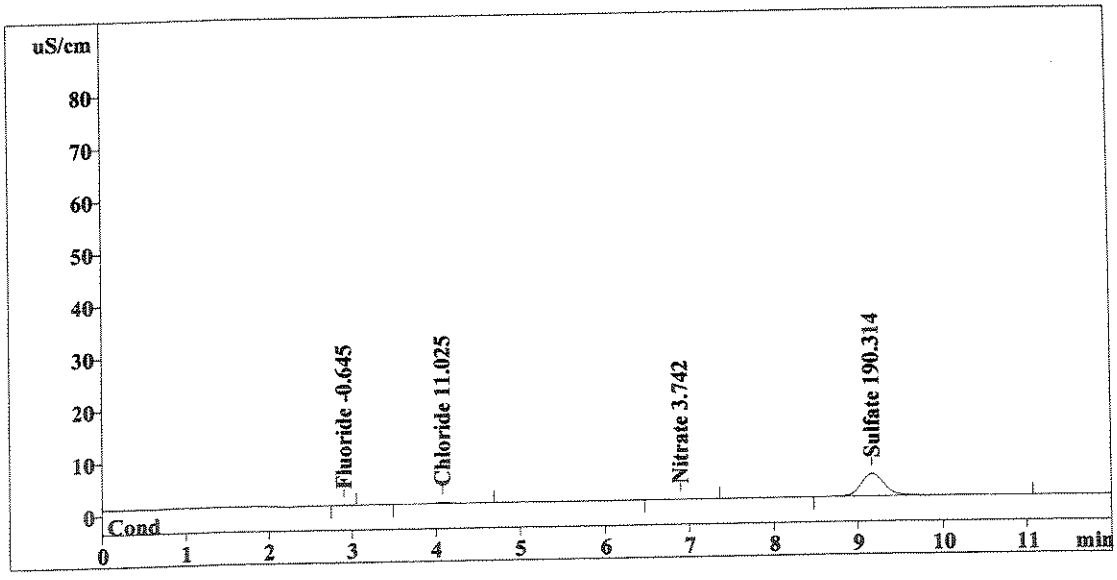
Report date:	7/25/2008 01:29:24
Printed by:	User
Ident:	1116258 DUP @ IC
Analysis from:	7/25/2008 01:17:26
File:	S7250117.CHW

Last save: 7/25/2008 01:29:24

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38691
SAMPLE:	25g -> 250mL (S)
Vial number:	59
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	0.176		-0.645	Fluoride
2	4.08	2.689		11.025	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	6.90	0.228		3.742	Nitrate
6	9.17	83.032	DH	190.314	Sulfate
6	12.00	86.125		205.726	

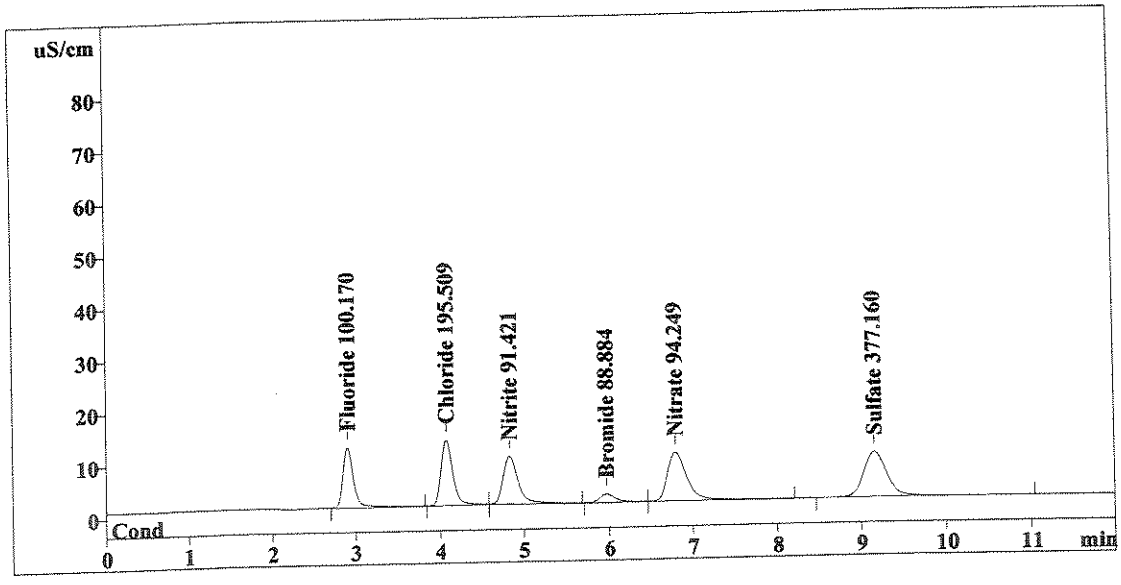
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 01:43:30	
Printed by:	User	
Ident:	1116258 SPK @ IC	
Analysis from:	7/25/2008 01:31:32	Last save: 7/25/2008 01:43:30
File:	S7250131.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38692	
SAMPLE:	25g -> 250mL (S)	
Vial number:	60	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	102.122	100.170	Fluoride
2	4.07	121.881	195.509	Chloride
3	4.83	112.868	91.421	Nitrite
4	5.97	20.973	88.884	Bromide
5	6.80	148.735	94.249	Nitrate
6	9.16	167.911	377.160	Sulfate
6	12.00	674.490	947.392	

ok
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

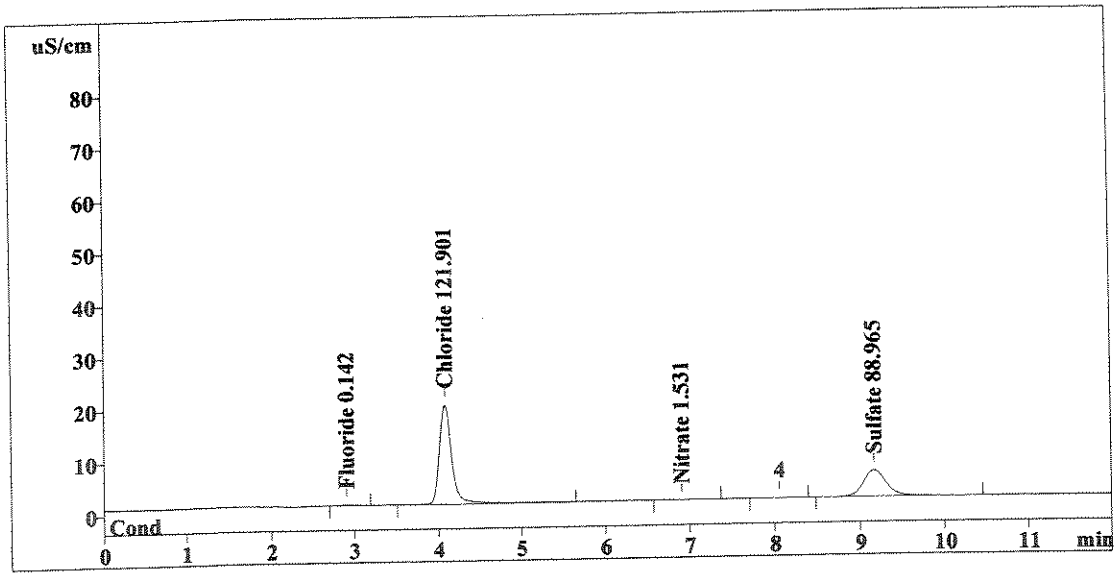
Report date:	7/25/2008 01:57:36
Printed by:	User
Ident:	1116265
Analysis from:	7/25/2008 01:45:38
File:	S7250145.CHW

Last save: 7/25/2008 01:57:36

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38693
SAMPLE:	25g -> 250mL (S)
Vial number:	61
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.187	0.142	Fluoride
2	4.08	192.461	121.901	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.90	0.369	1.531	Nitrate
6	9.17	97.614	88.965	Sulfate
6	12.00	291.631	212.539	

OK

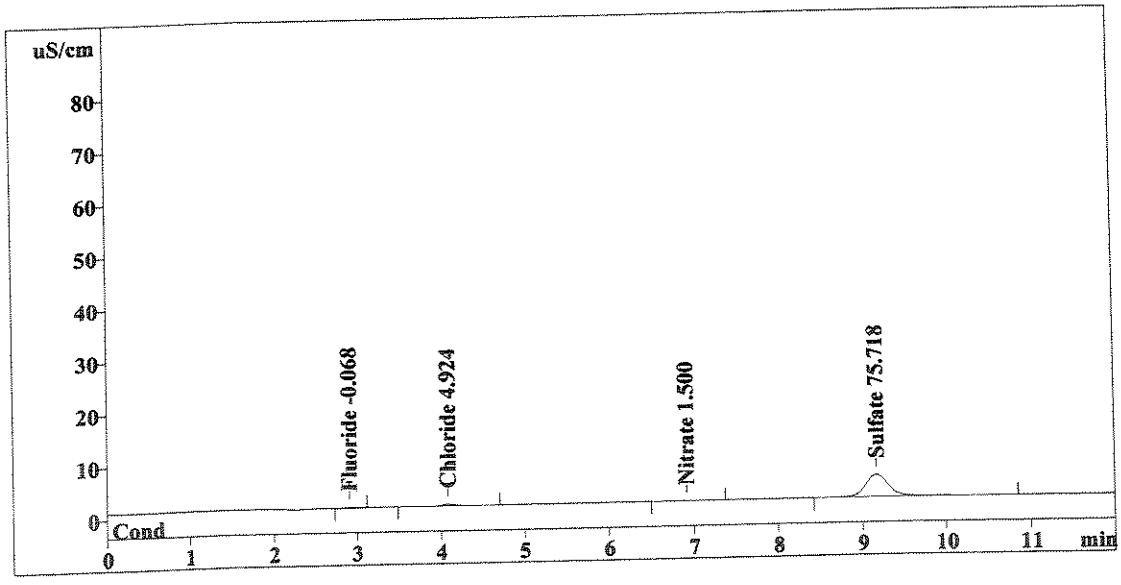
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 02:11:42	
Printed by:	User	
Ident:	1116273	
Analysis from:	7/25/2008 01:59:44	Last save: 7/25/2008 02:11:42
File:	S7250159.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38694	
SAMPLE:	25g -> 250mL (S)	
Vial number:	62	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.655	-0.068	Fluoride
2	4.08	3.519	4.924	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.91	0.242	1.500	Nitrate
6	9.17	82.569	75.718	Sulfate
6	12.00	86.985	82.210	

OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

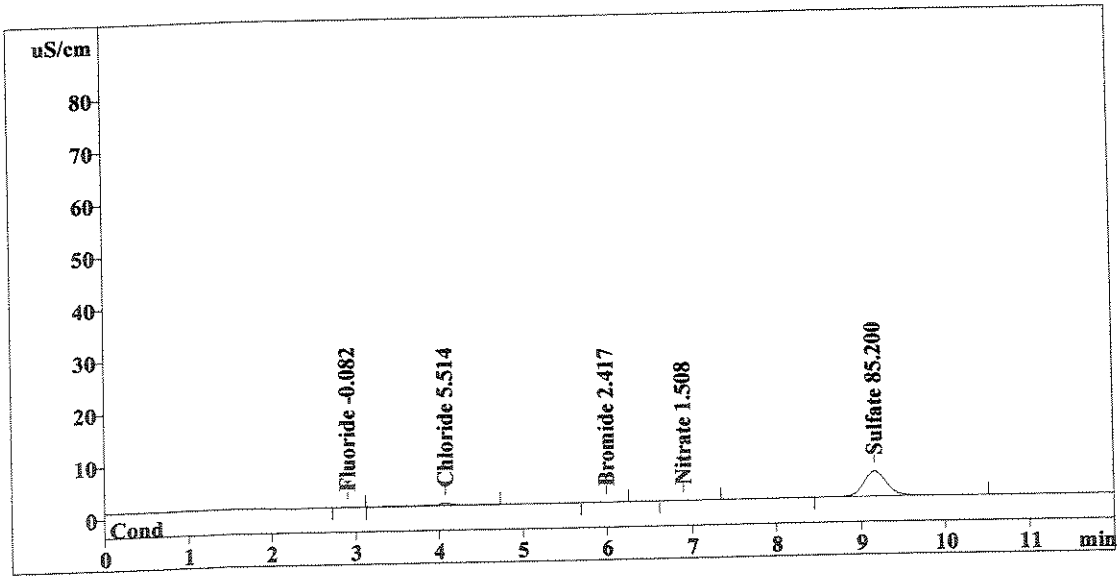
Report date:	7/25/2008 02:25:48
Printed by:	User
Ident:	1116274
Analysis from:	7/25/2008 02:13:50
File:	S7250213.CHW

Last save: 7/25/2008 02:25:48

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38695
SAMPLE:	25g -> 250mL (S)
Vial number:	63
Volume:	1.0 µL
Dilution:	40.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

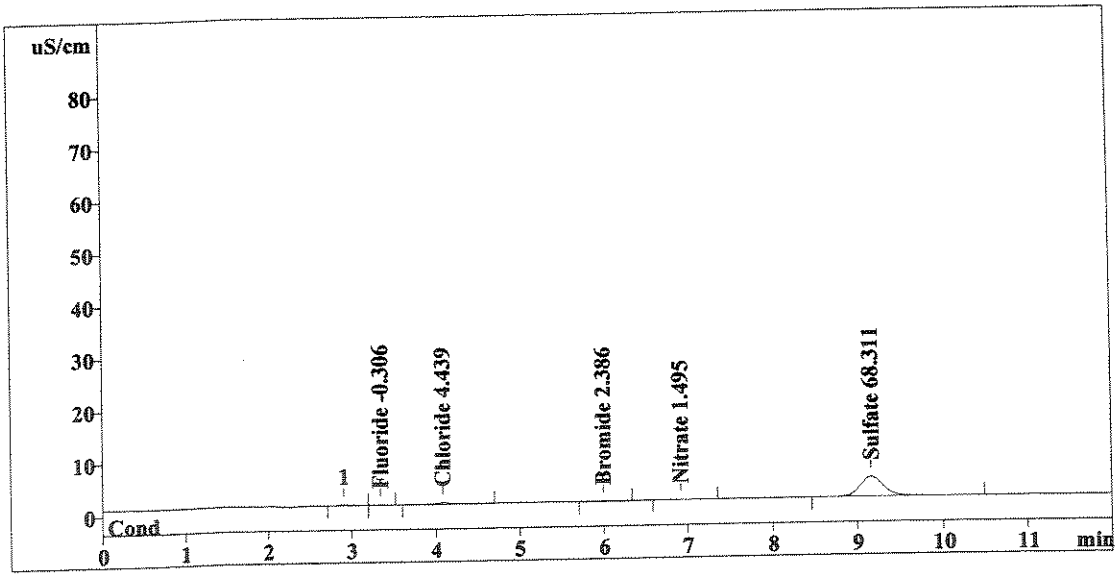
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	0.622		-0.082	Fluoride
2	4.08	4.472		5.514	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.99	0.091		2.417	Bromide
5	6.91	0.274		1.508	Nitrate
6	9.16	93.338	OK	85.200	Sulfate
6	12.00	98.796		94.720	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 02:39:54	
Printed by:	User	
Ident:	1116278	
Analysis from:	7/25/2008 02:27:56	
File:	S7250227.CHW	Last save: 7/25/2008 02:39:54
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38696	
SAMPLE:	25g -> 250mL (S)	
Vial number:	64	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.055	-0.306	Fluoride
2	4.08	2.736	4.439	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	0.071	2.386	Bromide
5	6.91	0.220	1.495	Nitrate
6	9.16	74.157	68.311	Sulfate
6	12.00	77.241	76.937	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

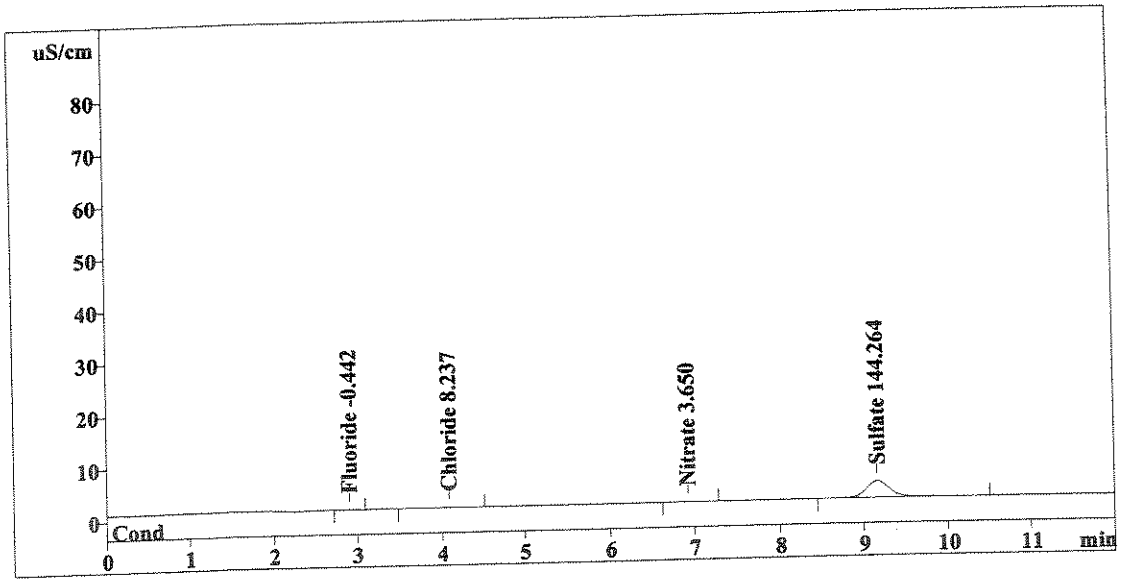
Report date:	7/25/2008 02:54:00
Printed by:	User
Ident:	1116279
Analysis from:	7/25/2008 02:42:02
File:	S7250242.CHW

Last save: 7/25/2008 02:54:00

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38697
SAMPLE:	25g -> 250mL (S)
Vial number:	65
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.381	-0.442	Fluoride
2	4.08	0.888	8.237	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.92	0.076	3.650	Nitrate
6	9.16	62.113	144.264	Sulfate
6	12.00	63.458	156.593	

OK

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

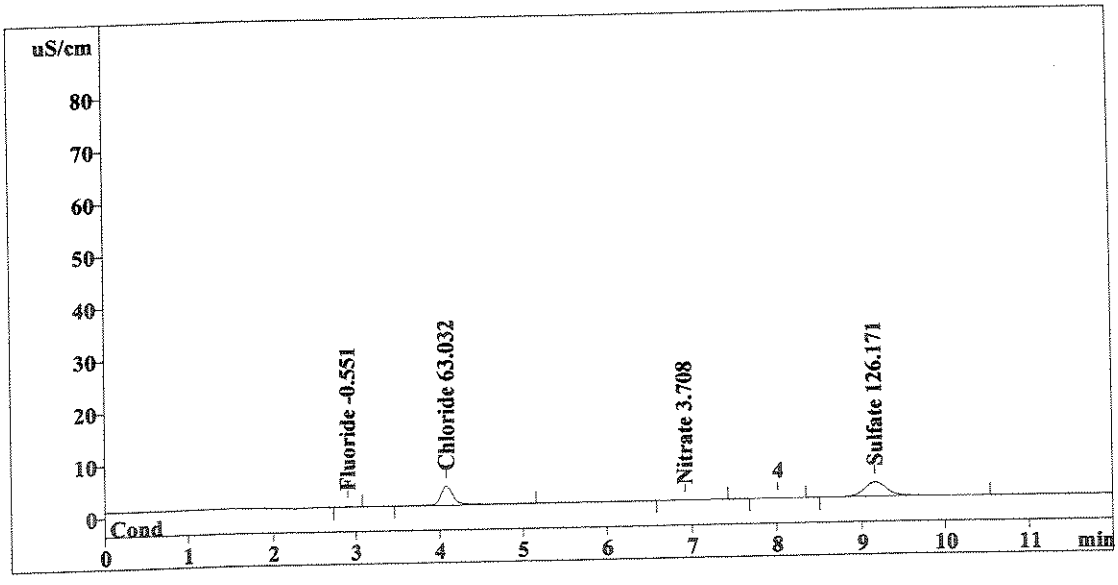
Report date:	7/25/2008 03:08:06
Printed by:	User
Ident:	1116264
Analysis from:	7/25/2008 02:56:08
File:	S7250256.CHW

Last save: 7/25/2008 03:08:06

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38698
SAMPLE:	25g -> 250mL (C)
Vial number:	66
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
		0.271		-0.551	Fluoride
1	2.90	36.290	1/40	63.032	Chloride
2	4.08	0.000		0.000	Nitrite
3	0.00	0.000		0.000	Bromide
4	0.00	0.172		3.708	Nitrate
5	6.92	53.894		126.171	Sulfate
6	9.16				
6	12.00	90.627		193.462	

CMT 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

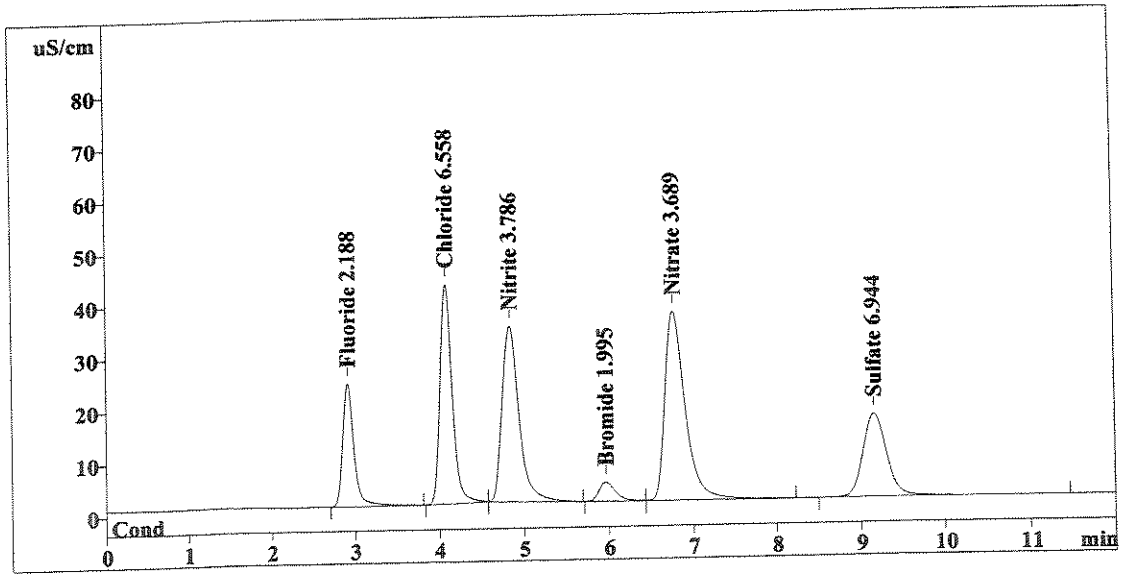
Report date:	7/25/2008 03:22:12
Printed by:	User
Ident:	CCV
Analysis from:	7/25/2008 03:10:14
File:	S7250310.CHW

Last save: 7/25/2008 03:22:12

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38699
SAMPLE:	
Vial number:	67
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	222.075	2.188	Fluoride
2	4.08	419.288	6.558	Chloride
3	4.83	471.600	3.786	Nitrite
4	5.97	48.866	1.995	Bromide
5	6.77	599.446	3.689	Nitrate
6	9.16	312.023	6.944	Sulfate
6	12.00	2073.297	25.161	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

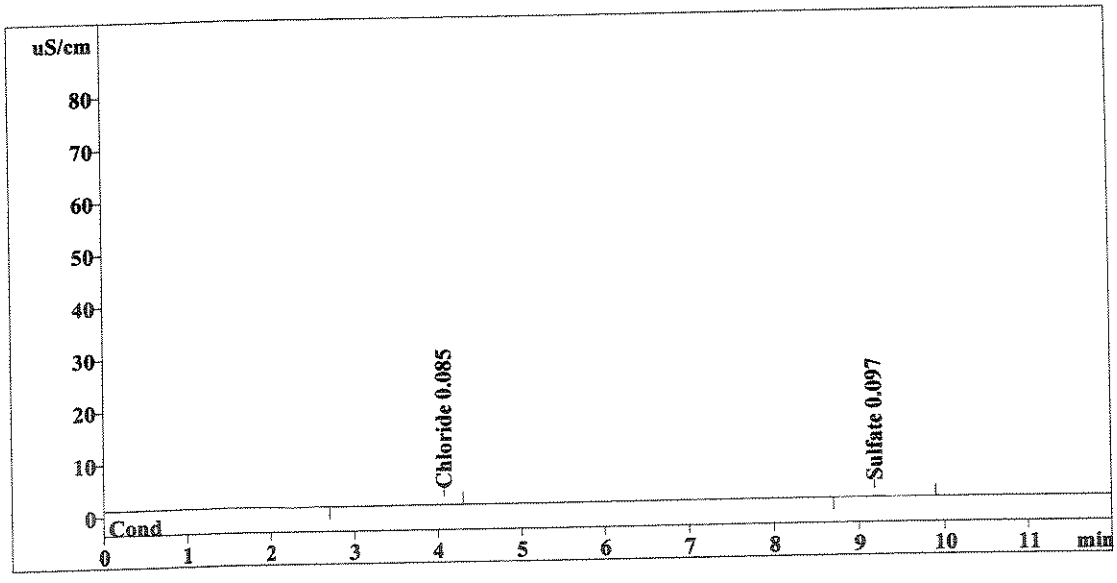
Report date:	7/25/2008 03:36:18
Printed by:	User
Ident:	CCB
Analysis from:	7/25/2008 03:24:19
File:	S7250324.CHW

Last save: 7/25/2008 03:36:18

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38700
SAMPLE:	
Vial number:	68
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	0.00	0.000	OK	0.000	Fluoride
2	4.07	1.086		0.085	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.18	0.985		0.097	Sulfate
6	12.00	2.070		0.182	

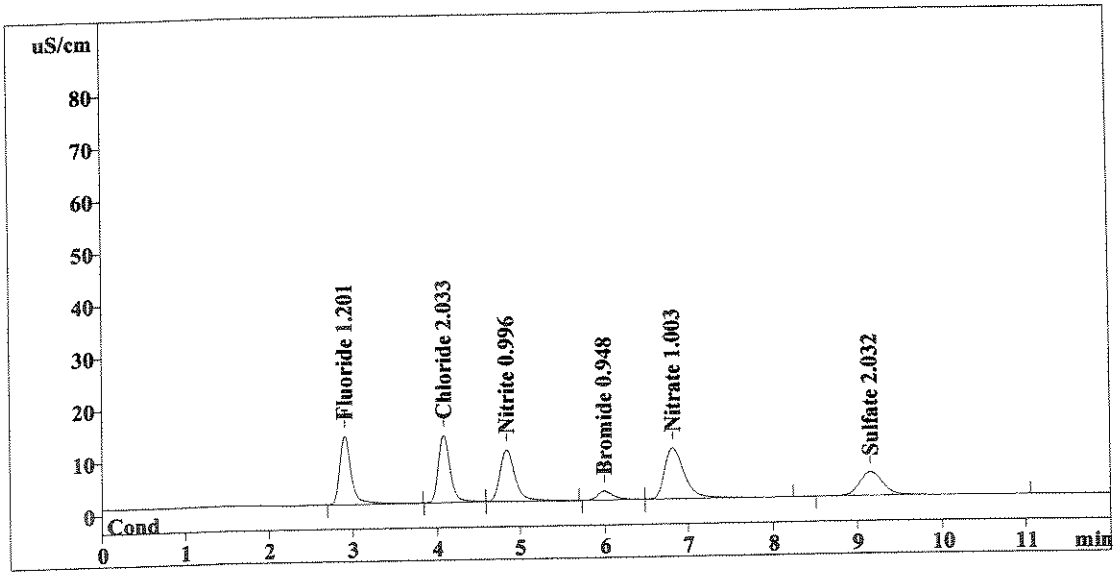
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 03:50:24	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/25/2008 03:38:25	
File:	S7250338.CHW	Last save: 7/25/2008 03:50:24
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38701	
SAMPLE:		
Vial number:	69	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	122.308	1.201	Fluoride
2	4.08	126.934	2.033	Chloride
3	4.84	123.071	0.996	Nitrite
4	6.00	22.454	0.948	Bromide
5	6.82	158.668	1.003	Nitrate
6	9.16	88.865	2.032	Sulfate
6	12.00	642.300	8.213	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

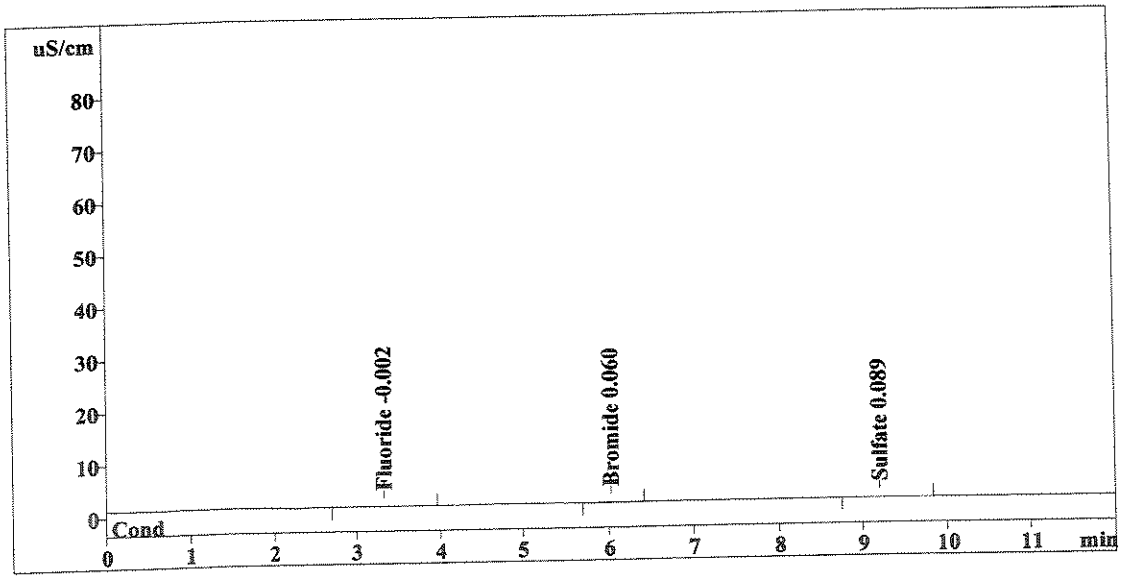
Report date:	7/25/2008 04:04:30
Printed by:	User
Ident:	MTD BLK 7/14/08
Analysis from:	7/25/2008 03:52:31
File:	S7250352.CHW

Last save: 7/25/2008 04:04:30

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38702
SAMPLE:	25g -> 250mL (CS) ; results x 10
Vial number:	70
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

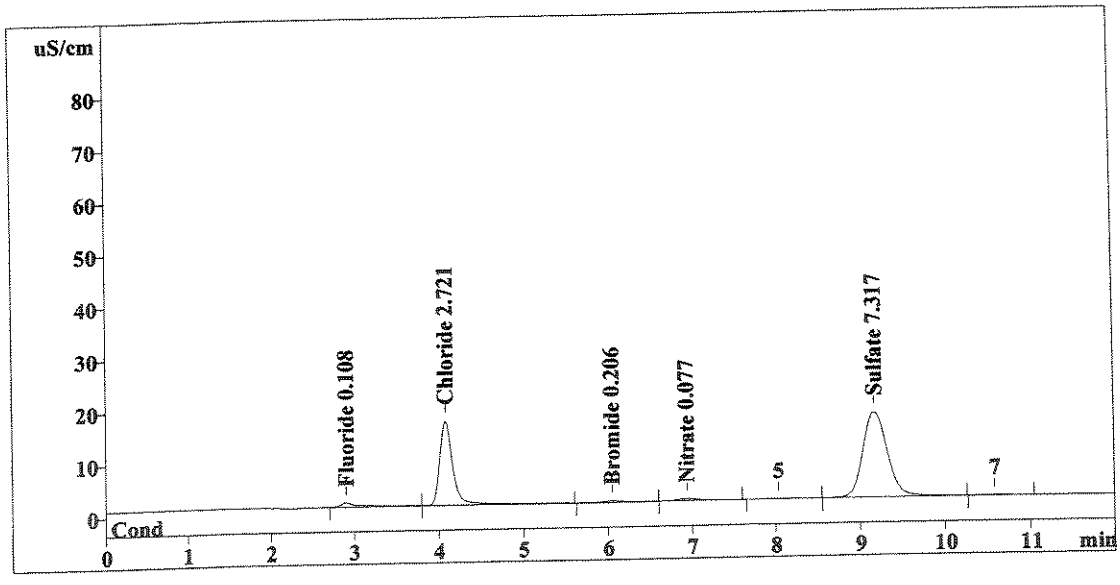
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.33	0.619		-0.002	Fluoride
2	0.00	0.000	OK	0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.03	0.079		0.060	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.20	0.602	OK	0.089	Sulfate
6	12.00	1.300	CMF 7/25/08	0.151	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 04:18:36	
Printed by:	User	
Ident:	1116802	
Analysis from:	7/25/2008 04:06:37	
File:	S7250406.CHW	Last save: 7/25/2008 04:18:36
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38703	
SAMPLE:	25g -> 250mL (CS)	
Vial number:	71	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	11.718		0.108	Fluoride
2	4.08	171.383	OK	2.721	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.05	3.750		0.206	Bromide
5	6.94	6.796		0.077	Nitrate
6	9.18	328.991	OK	7.317	Sulfate
6	12.00	522.638		10.429	

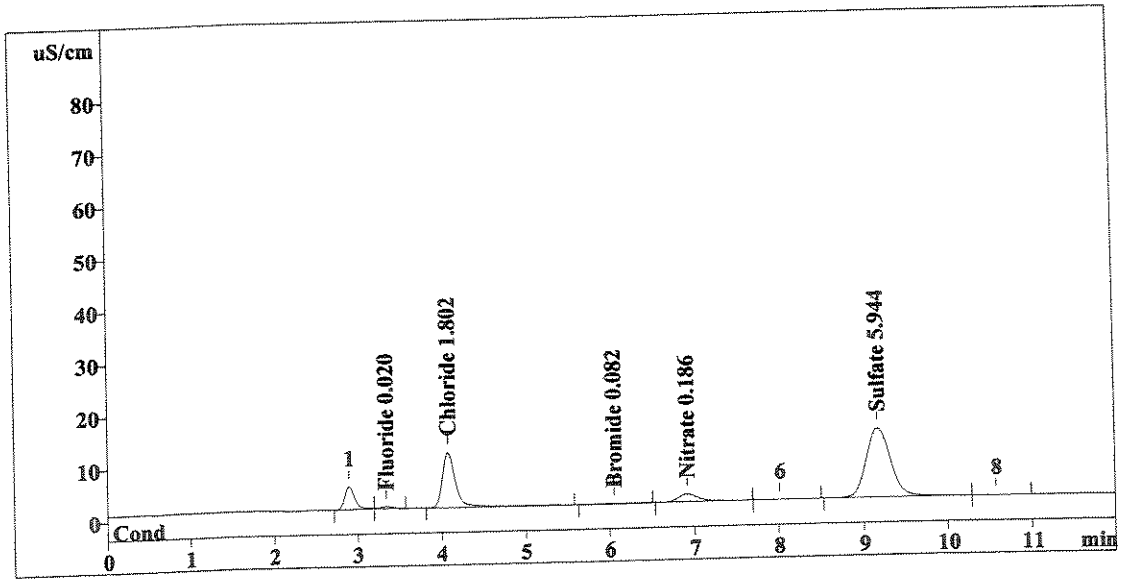
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 04:32:42
Printed by:	User
Ident:	1116803
Analysis from:	7/25/2008 04:20:43
File:	S7250420.CHW
	Last save: 7/25/2008 04:32:42
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38704
SAMPLE:	25g -> 250mL (CS)
Vial number:	72
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.34	2.821		0.020	Fluoride
2	4.08	112.017	OK	1.802	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.06	0.636		0.082	Bromide
5	6.91	24.665		0.186	Nitrate
6	9.17	266.600	OK	5.944	Sulfate
6	12.00	406.740		8.035	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

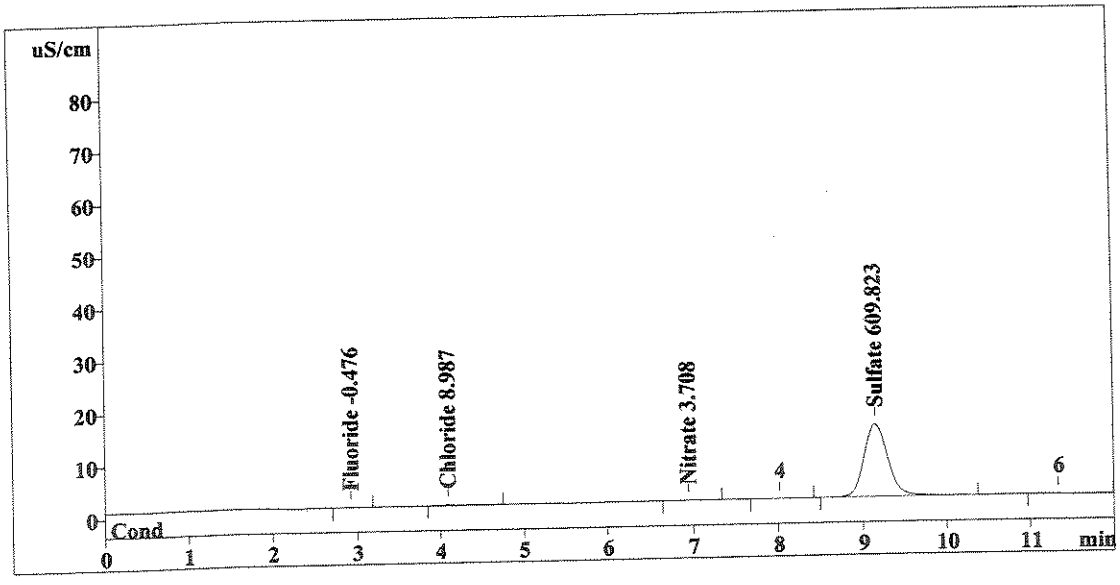
Report date:	7/25/2008 04:46:48
Printed by:	User
Ident:	1116804
Analysis from:	7/25/2008 04:34:49
File:	S7250434.CHW

Last save: 7/25/2008 04:46:48

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38705
SAMPLE:	25g -> 250mL (S)
Vial number:	73
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	0.347	-0.476	Fluoride
2	4.09	1.373	8.987	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.94	0.171	3.708	Nitrate
6	9.15	273.604	609.823	Sulfate
6	12.00	275.495	622.995	

OK

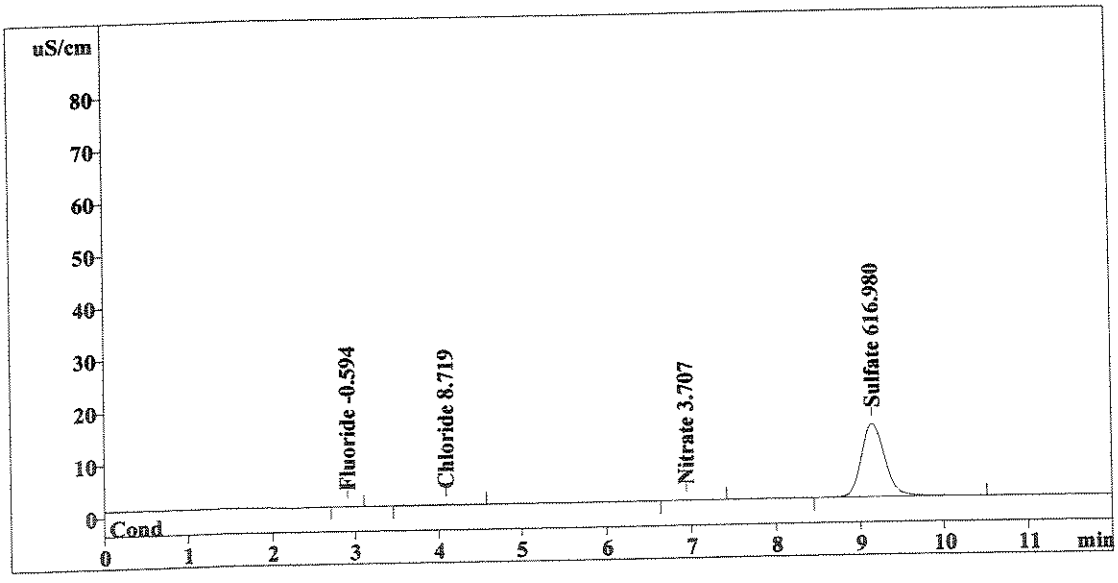
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 05:00:54
Printed by:	User
Ident:	1116804 DUP @ IC
Analysis from:	7/25/2008 04:48:55
File:	S7250448.CHW
	Last save: 7/25/2008 05:00:54
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38706
SAMPLE:	25g -> 250mL (S)
Vial number:	74
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	0.227	-0.594	Fluoride
2	4.09	1.199	8.719	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.94	0.170	3.707	Nitrate
6	9.15	276.855	616.980	Sulfate
6	12.00	278.452	630.000	

OK
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

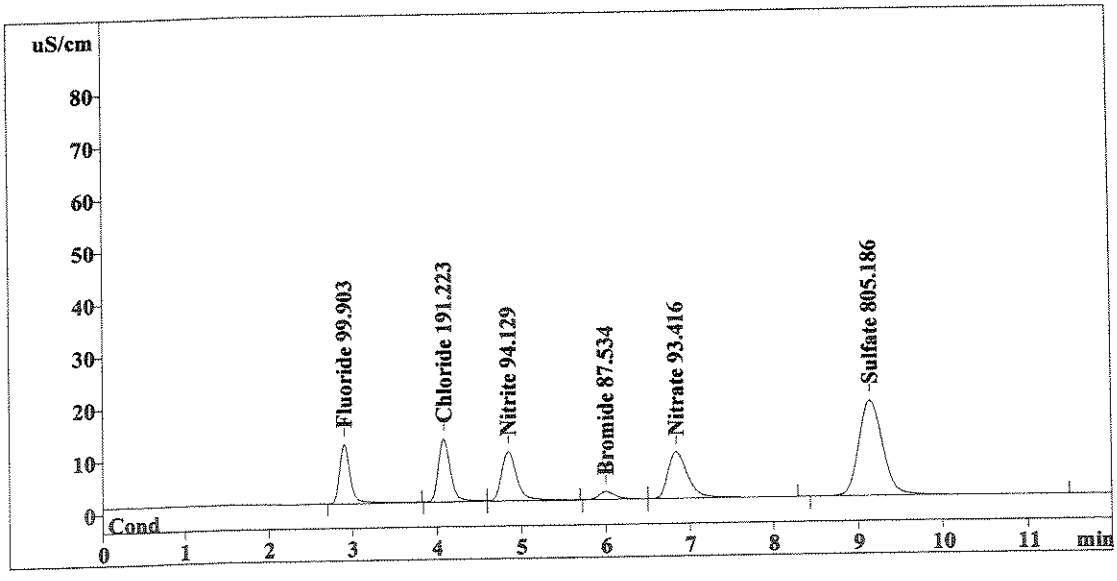
Report date:	7/25/2008 05:15:00
Printed by:	User
Ident:	1116804 SPK @ IC
Analysis from:	7/25/2008 05:03:01
File:	S7250503.CHW

Last save: 7/25/2008 05:15:00

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38707
SAMPLE:	25g -> 250mL (S)
Vial number:	75
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	101.851	99.903	Fluoride
2	4.08	119.112	191.223	Chloride
3	4.84	116.251	94.129	Nitrite
4	6.00	20.633	87.534	Bromide
5	6.84	147.368	93.416	Nitrate
6	9.14	362.353	805.186	Sulfate
6	12.00	867.568	1371.391	

OK

7-25-08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

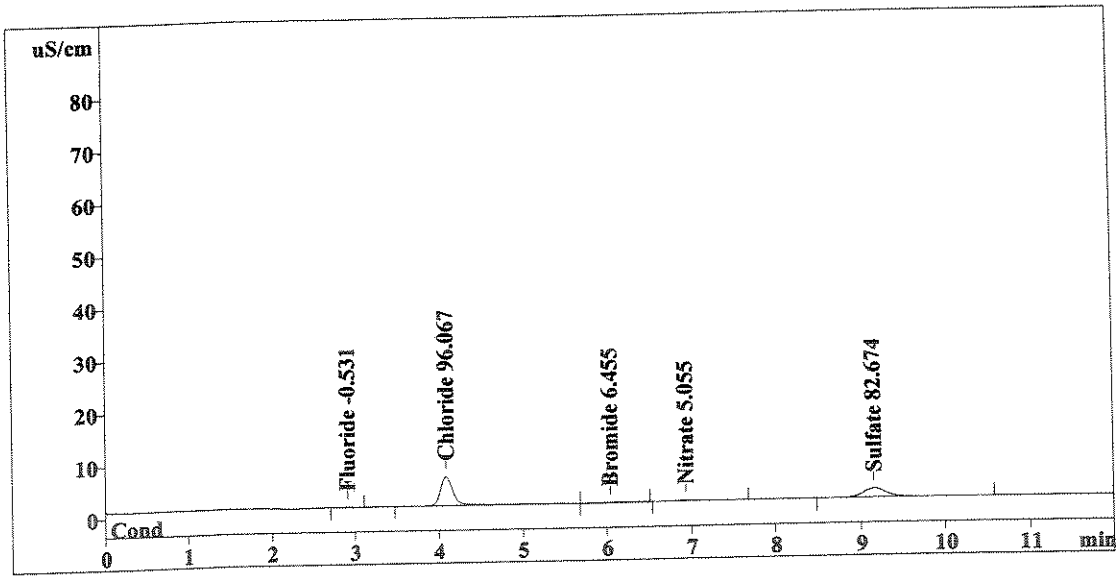
Report date:	7/25/2008 05:29:06
Printed by:	User
Ident:	1116805
Analysis from:	7/25/2008 05:17:07
File:	S7250517.CHW

Last save: 7/25/2008 05:29:06

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38708
SAMPLE:	25g -> 250mL (CS)
Vial number:	76
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

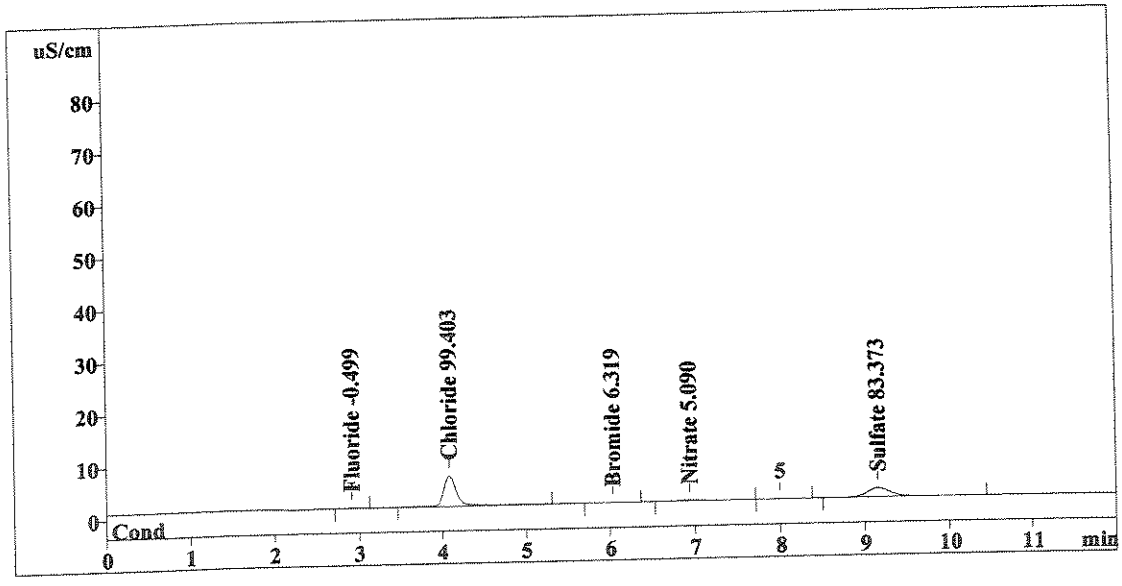
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
		0.291		-0.531	Fluoride
1	2.91	57.633	1/40	96.067	Chloride
2	4.09	0.000		0.000	Nitrite
3	0.00	0.195		6.455	Bromide
4	6.04	2.383		5.055	Nitrate
5	6.93	34.134	1/40	82.674	Sulfate
6	9.15				
6	12.00	94.637		190.782	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 05:43:12	
Printed by:	User	
Ident:	1116806	
Analysis from:	7/25/2008 05:31:13	Last save: 7/25/2008 05:43:11
File:	S7250531.CHW	
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38709	
SAMPLE:	25g -> 250mL (CS)	
Vial number:	77	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

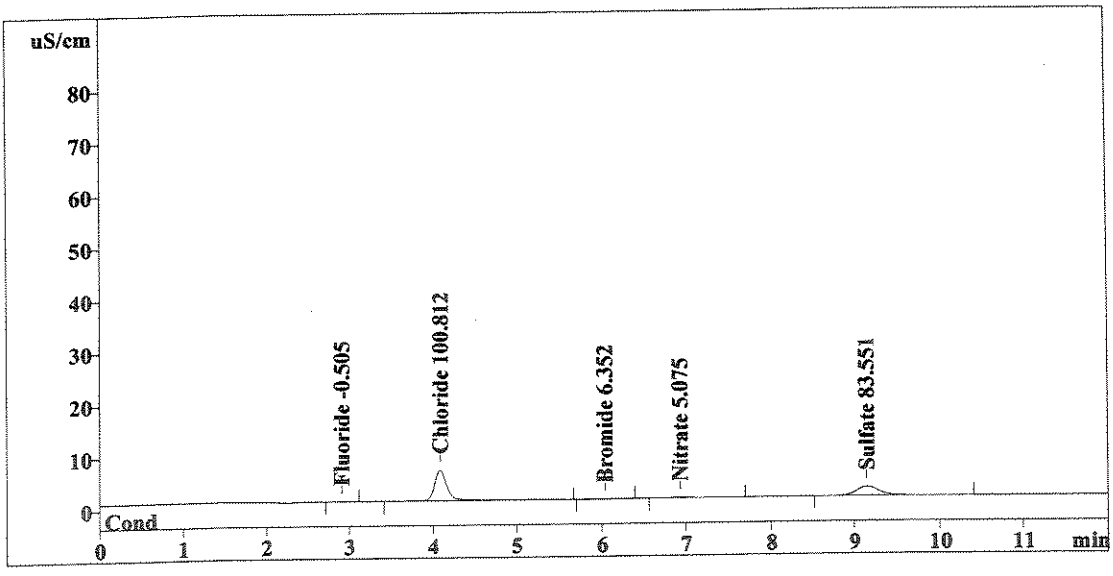
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	0.323		-0.499	Fluoride
2	4.09	59.788	OK	99.403	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.04	0.161		6.319	Bromide
5	6.94	2.439		5.090	Nitrate
6	9.15	34.452	OK	83.373	Sulfate
6	12.00	97.163		194.684	

CM 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 05:57:18	
Printed by:	User	
Ident:	1116806 DUP @ IC	
Analysis from:	7/25/2008 05:45:19	
File:	S7250545.CHW	Last save: 7/25/2008 05:57:18
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38710	
SAMPLE:	25g -> 250mL (CS)	
Vial number:	78	
Volume:	1.0 µL	
Dilution:	100.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	0.318		-0.505	Fluoride
2	4.08	60.699	OK	100.812	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.04	0.169		6.352	Bromide
5	6.93	2.416		5.075	Nitrate
6	9.15	34.533	OK	83.551	Sulfate
6	12.00	98.133		196.295	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 06:11:24
Printed by:	User
Ident:	1116806 SPK @ IC
Analysis from:	7/25/2008 05:59:25
File:	S7250559.CHW

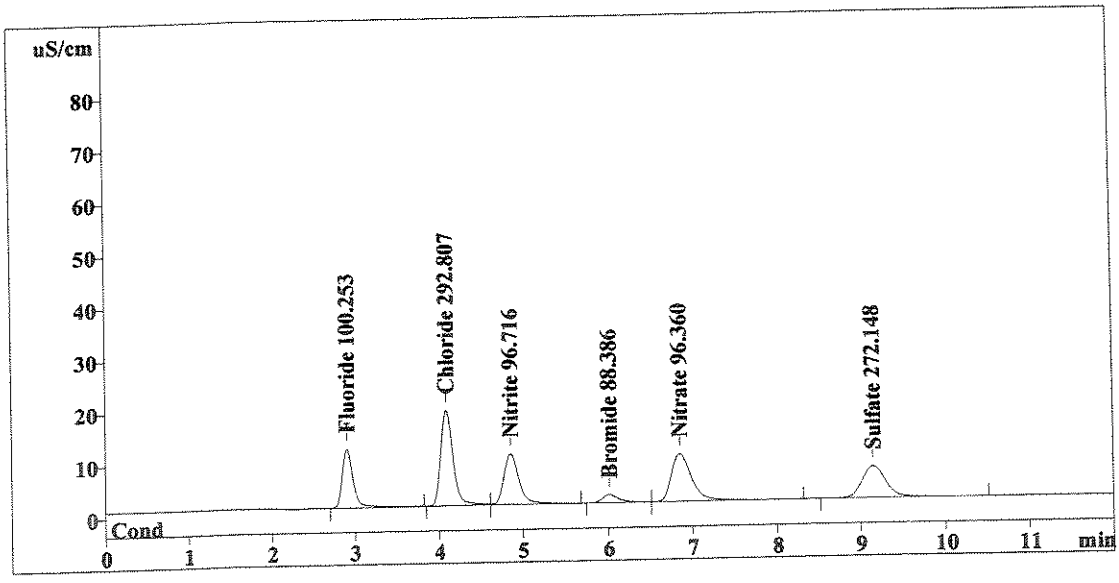
Last save: 7/25/2008 06:11:23

Method:	07-17-08CAL.mtw

Last save: 7/24/2008 11:35:17

Run operator:	User
Analysis number:	38711
SAMPLE:	25g -> 250mL (CS)
Vial number:	79
Volume:	1.0 µL
Dilution:	100.00
Amount:	1.0000

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	102.205		100.253	Fluoride
2	4.09	184.743	OK	292.807	Chloride
3	4.85	119.481		96.716	Nitrite
4	6.02	20.848		88.386	Bromide
5	6.85	152.200		96.360	Nitrate
6	9.15	120.207	OK	272.148	Sulfate
6	12.00	699.684		946.668	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

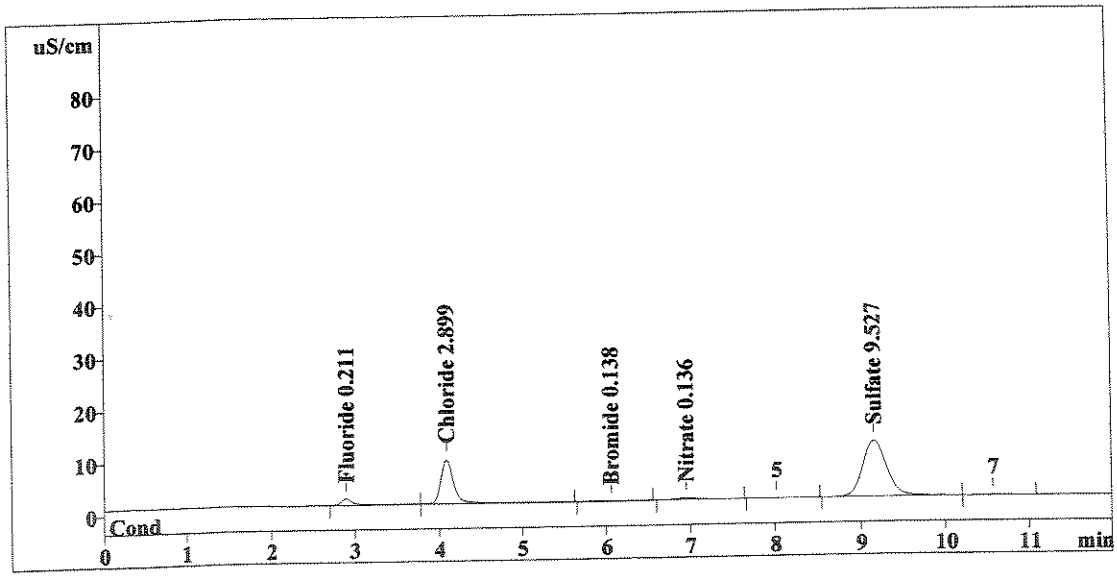
Report date:	7/25/2008 06:25:30
Printed by:	User
Ident:	1116807
Analysis from:	7/25/2008 06:13:31
File:	S7250613.CHW

Last save: 7/25/2008 06:25:29

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38712
SAMPLE:	25g -> 250mL (CS)
Vial number:	80
Volume:	1.0 µL
Dilution:	2.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.90	11.488		0.211	Fluoride
2	4.08	89.219	OK	2.899	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.07	0.304		0.138	Bromide
5	6.95	5.236		0.136	Nitrate
6	9.16	212.980	OK	9.527	Sulfate
6	12.00	319.228		12.911	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

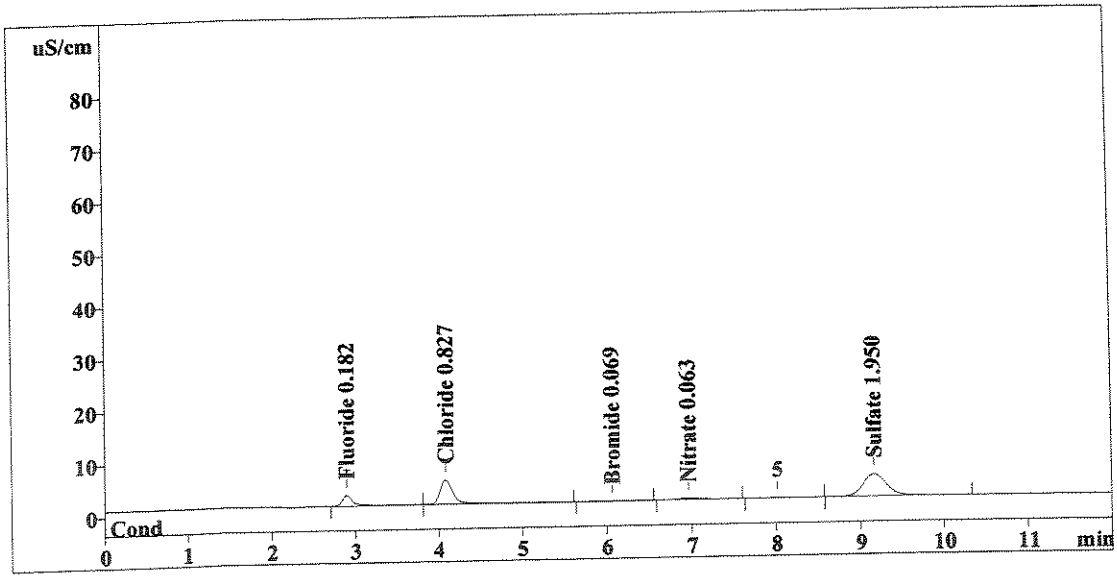
Report date:	7/25/2008 06:39:36
Printed by:	User
Ident:	1116808
Analysis from:	7/25/2008 06:27:37
File:	S7250627.CHW

Last save: 7/25/2008 06:39:35

Method:	07-17-08CAL.mtw

Last save: 7/24/2008 11:35:17

Run operator:	User
Analysis number:	38713
SAMPLE:	25g -> 250mL (CS)
Vial number:	81
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	19.191		0.182	Fluoride
2	4.08	49.005	DK	0.827	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.06	0.303		0.069	Bromide
5	6.96	4.458		0.063	Nitrate
6	9.16	85.164	DK	1.950	Sulfate
6	12.00	158.121		3.091	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

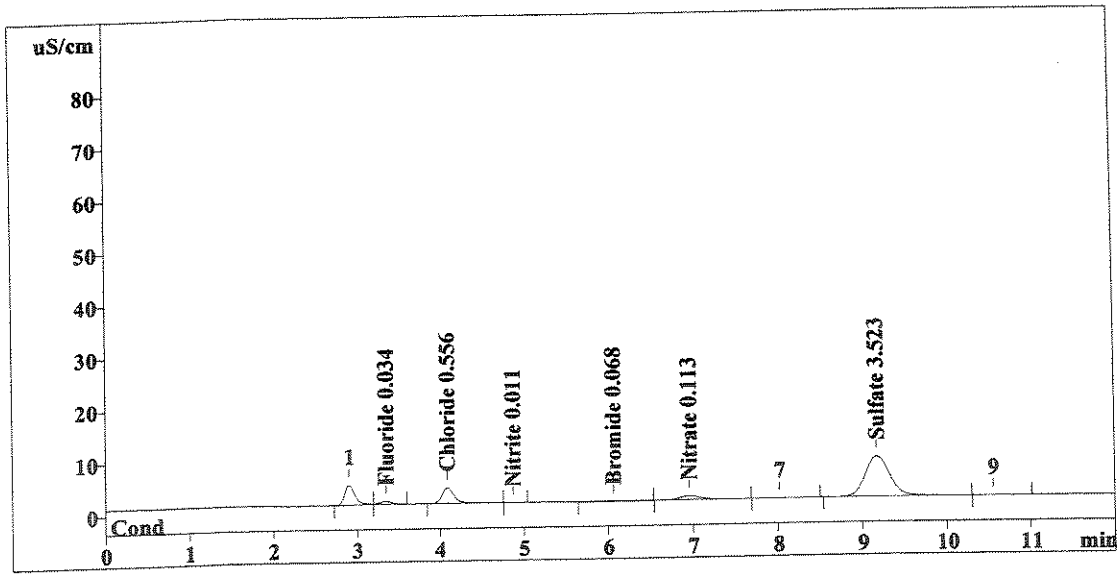
Report date:	7/25/2008 06:53:41
Printed by:	User
Ident:	1116809
Analysis from:	7/25/2008 06:41:43
File:	S7250641.CHW

Last save: 7/25/2008 06:53:41

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38714
SAMPLE:	25g -> 250mL (CS)
Vial number:	82
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

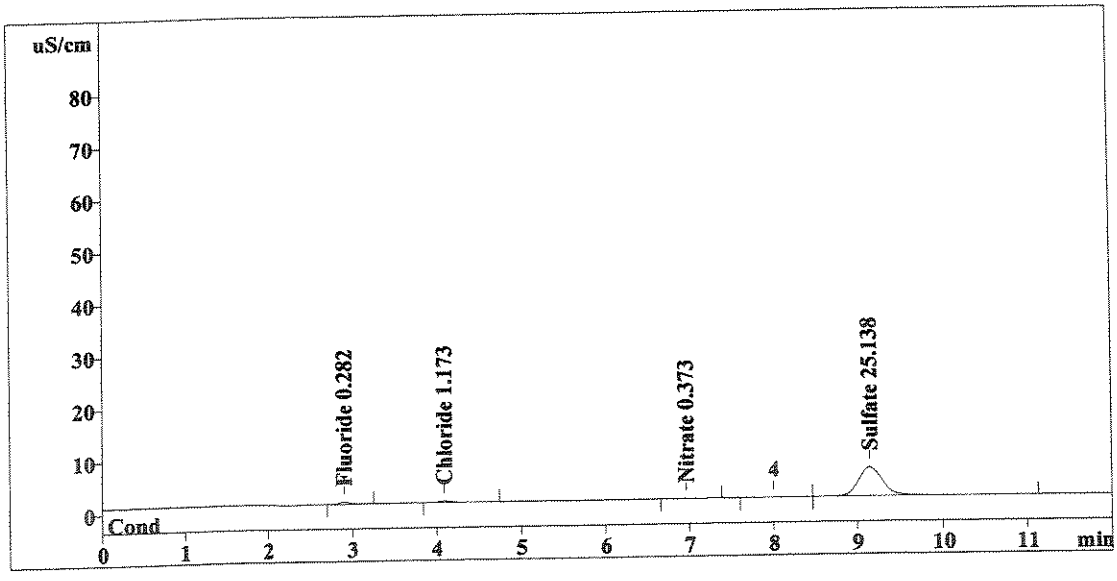
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.35	4.278		0.034	Fluoride
2	4.09	31.520		0.556	Chloride
3	4.87	0.056		0.011	Nitrite
4	6.08	0.292		0.068	Bromide
5	6.95	12.658		0.113	Nitrate
6	9.17	156.606		3.523	Sulfate
6	12.00	205.410		4.306	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 07:07:48	
Printed by:	User	
Ident:	1116810	
Analysis from:	7/25/2008 06:55:49	
File:	S7250655.CHW	Last save: 7/25/2008 07:07:47
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38715	
SAMPLE:	25g -> 250mL (S)	
Vial number:	83	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	3.684	0.282	Fluoride
2	4.09	3.148	1.173	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.96	0.204	0.373	Nitrate
6	9.15	110.771	25.138	Sulfate
6	12.00	117.806	26.966	

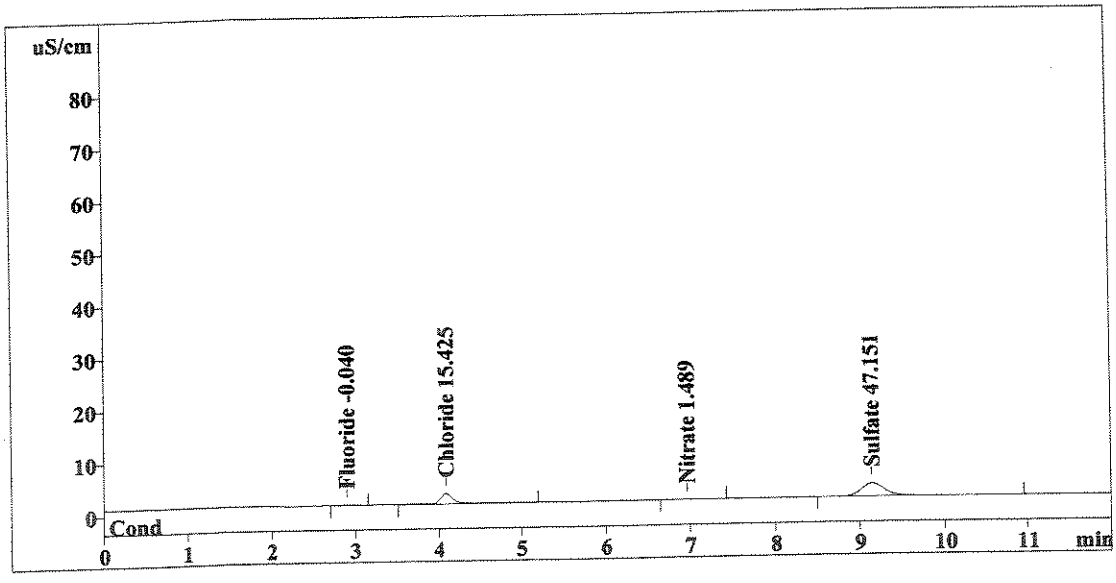
OK
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 07:21:53	
Printed by:	User	
Ident:	1116811	
Analysis from:	7/25/2008 07:09:55	
File:	S7250709.CHW	Last save: 7/25/2008 07:21:53
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38716	
SAMPLE:	25g -> 250mL (S)	
Vial number:	84	
Volume:	1.0 µL	
Dilution:	40.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	0.726	-0.040	Fluoride
2	4.09	20.481	15.425	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	6.96	0.194	1.489	Nitrate
6	9.15	50.126	47.151	Sulfate
6	12.00	71.527	64.105	

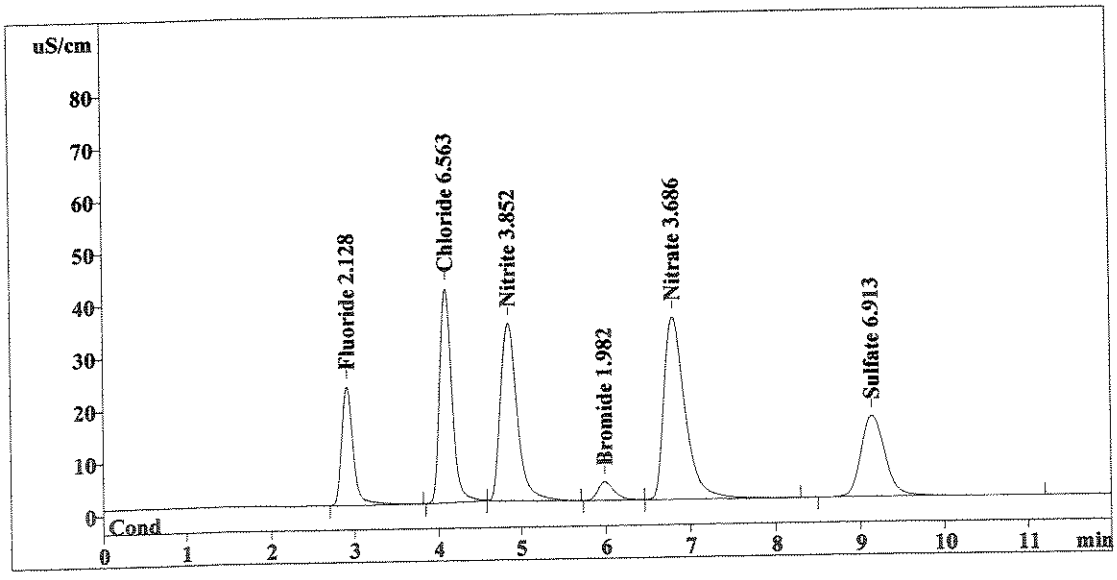
OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 07:35:59	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/25/2008 07:24:01	
File:	S7250724.CHW	Last save: 7/25/2008 07:35:59
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38717	
SAMPLE:		
Vial number:	85	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

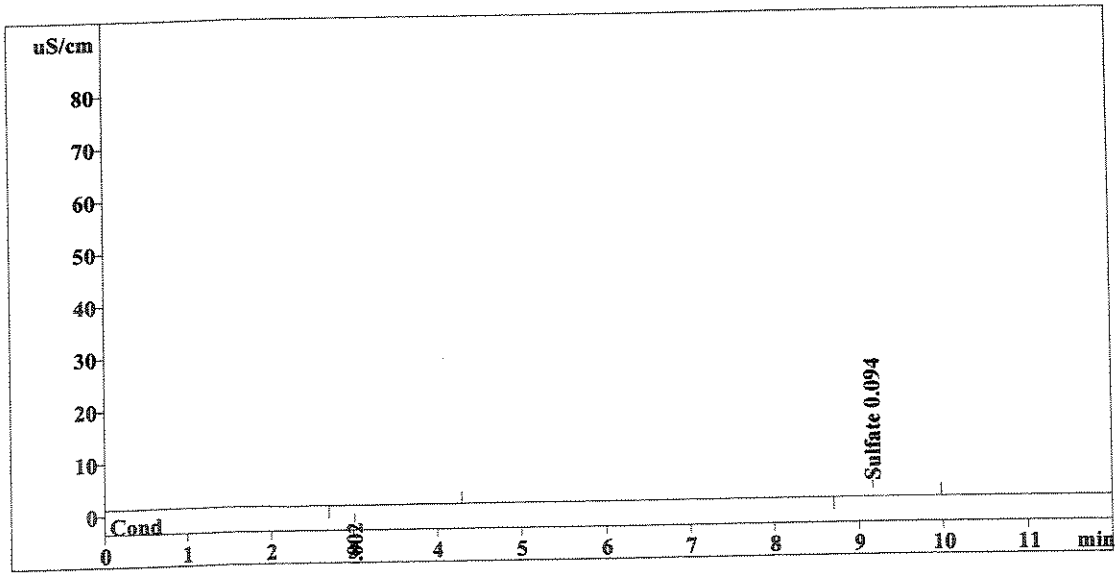
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	215.982	2.128	Fluoride
2	4.09	419.574	6.563	Chloride
3	4.84	479.827	3.852	Nitrite
4	5.99	48.540	1.982	Bromide
5	6.80	598.978	3.686	Nitrate
6	9.14	310.627	6.913	Sulfate
6	12.00	2073.527	25.125	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 07:50:05	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/25/2008 07:38:07	
File:	S7250738.CHW	Last save: 7/25/2008 07:50:05
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38718	
SAMPLE:		
Vial number:	86	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.01	0.990	0.002	Fluoride
2	0.00	0.000	0.000	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.17	0.866	0.094	Sulfate
6	12.00	1.855	0.096	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

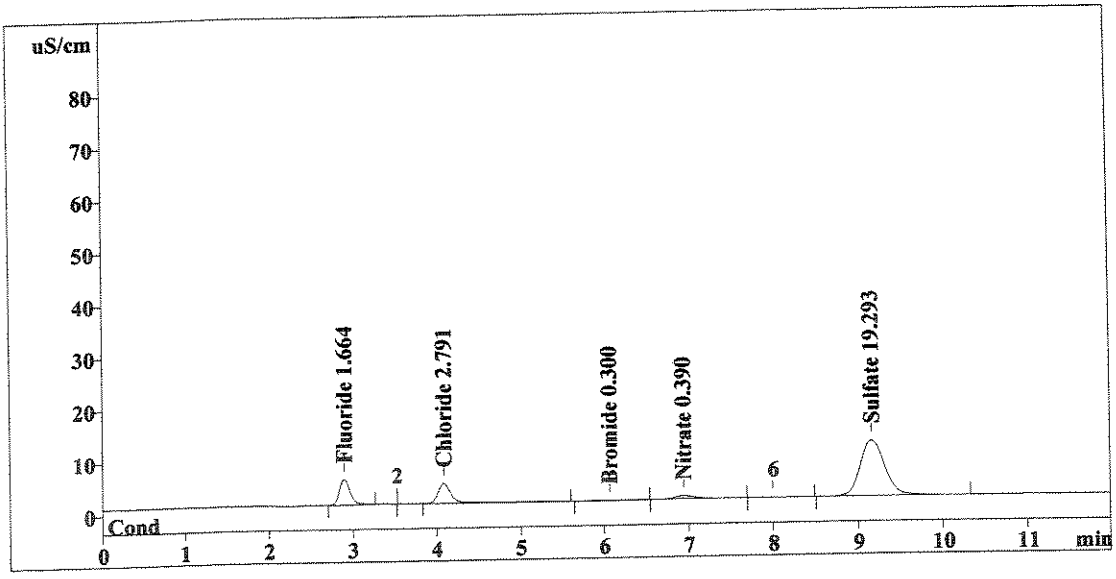
Report date:	7/25/2008 08:04:11
Printed by:	User
Ident:	1116812
Analysis from:	7/25/2008 07:52:13
File:	S7250752.CHW

Last save: 7/25/2008 08:04:11

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38719
SAMPLE:	25g -> 250mL (S)
Vial number:	87
Volume:	1.0 µL
Dilution:	4.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	42.905	1.664	Fluoride
2	4.08	40.645	2.791	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.07	0.461	0.300	Bromide
5	6.94	10.085	0.390	Nitrate
6	9.16	215.683	19.293	Sulfate
6	12.00	309.778	24.439	

OK

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

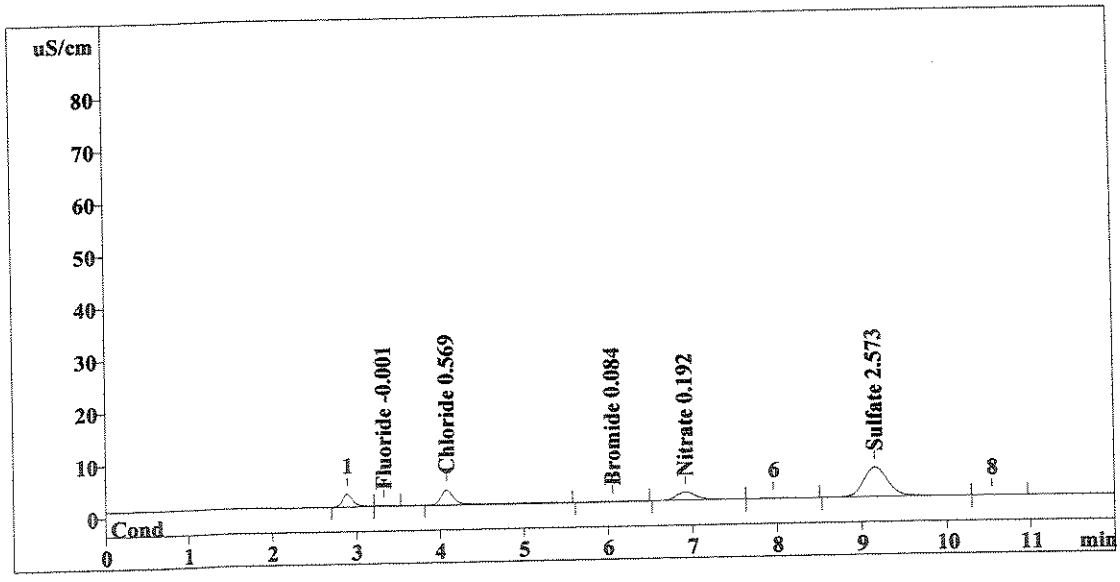
Report date:	7/25/2008 08:18:17
Printed by:	User
Ident:	1116813
Analysis from:	7/25/2008 08:06:19
File:	S7250806.CHW

Last save: 7/25/2008 08:18:17

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38720
SAMPLE:	25g -> 250mL (CS)
Vial number:	88
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
	3.33	0.685		-0.001	Fluoride
1	4.08	32.303	OK	0.569	Chloride
2	0.00	0.000		0.000	Nitrite
3	6.06	0.686		0.084	Bromide
4	6.92	25.546		0.192	Nitrate
5	9.16	113.478	OK	2.573	Sulfate
6	12.00	172.699		3.419	

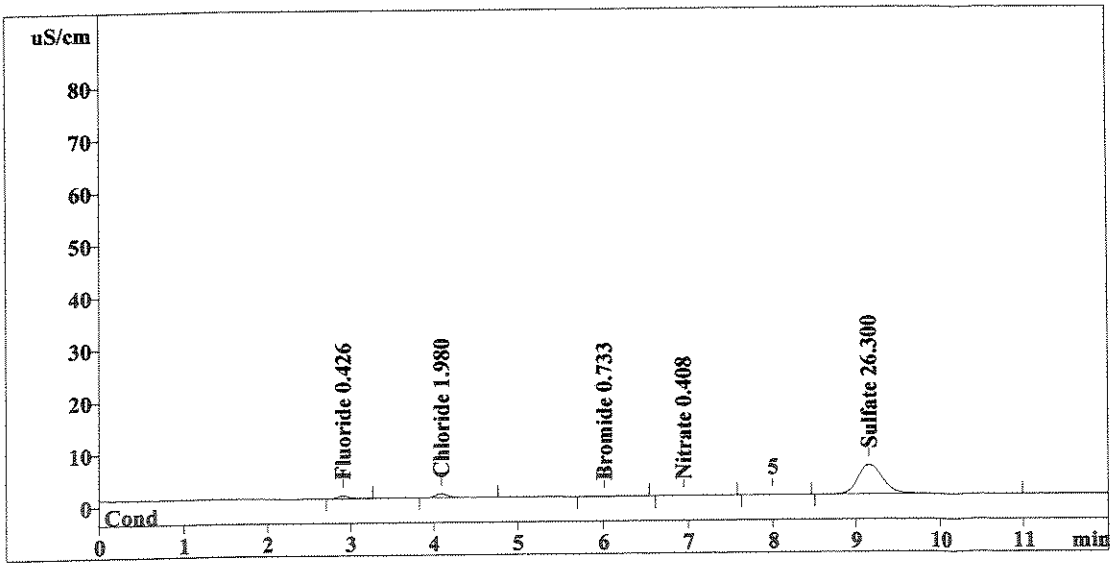
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 08:32:23	
Printed by:	User	
Ident:	1116814	
Analysis from:	7/25/2008 08:20:25	
File:	S7250820.CHW	Last save: 7/25/2008 08:32:23
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38721	
SAMPLE:	25g -> 250mL (S)	
Vial number:	89	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	5.132	0.426	Fluoride
2	4.09	8.357	1.980	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.02	0.415	0.733	Bromide
5	6.95	0.775	0.408	Nitrate
6	9.16	116.050	26.300	Sulfate
6	12.00	130.730	29.846	

OK 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

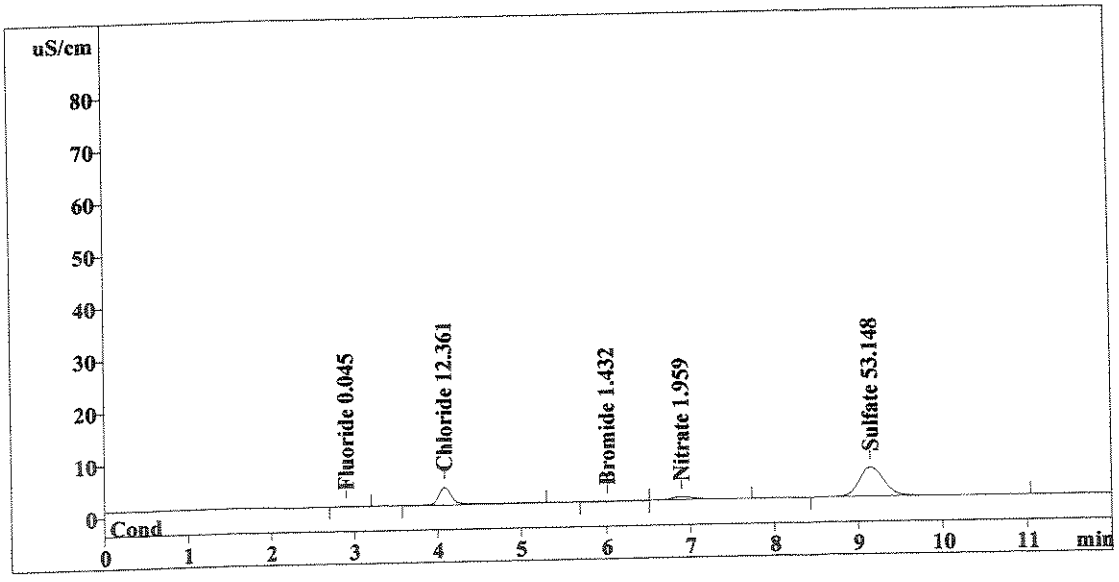
Report date:	7/25/2008 08:46:29
Printed by:	User
Ident:	1116815
Analysis from:	7/25/2008 08:34:31
File:	S7250834.CHW

Last save: 7/25/2008 08:46:29

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38722
SAMPLE:	25g -> 250mL (S)
Vial number:	90
Volume:	1.0 µL
Dilution:	20.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	1.057	0.045	Fluoride
2	4.08	35.498	12.361	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.01	0.373	1.432	Bromide
5	6.90	10.161	1.959	Nitrate
6	9.15	117.295	53.148	Sulfate
6	12.00	164.384	68.945	

OK
CM 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

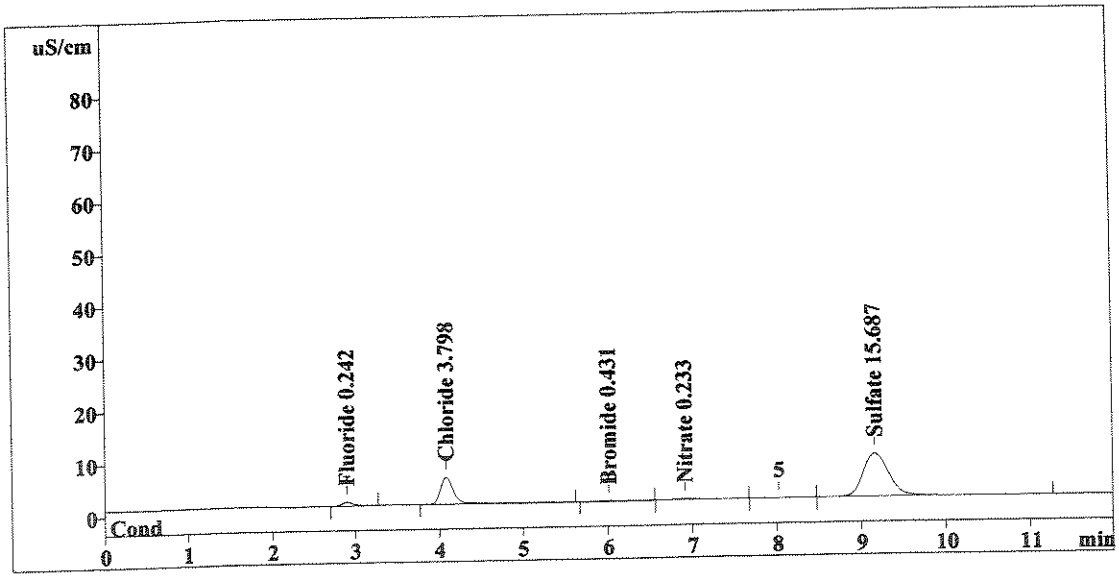
Report date:	7/25/2008 09:00:35
Printed by:	User
Ident:	1116816
Analysis from:	7/25/2008 08:48:37
File:	S7250848.CHW

Last save: 7/25/2008 09:00:35

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38723
SAMPLE:	25g -> 250mL (S)
Vial number:	91
Volume:	1.0 µL
Dilution:	4.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	6.940	0.242	Fluoride
2	4.08	56.913	3.798	Chloride
3	0.00	0.000	0.000	Nitrite
4	6.01	1.282	0.431	Bromide
5	6.91	3.628	0.233	Nitrate
6	9.16	174.729	15.687	Sulfate
6	12.00	243.491	20.390	

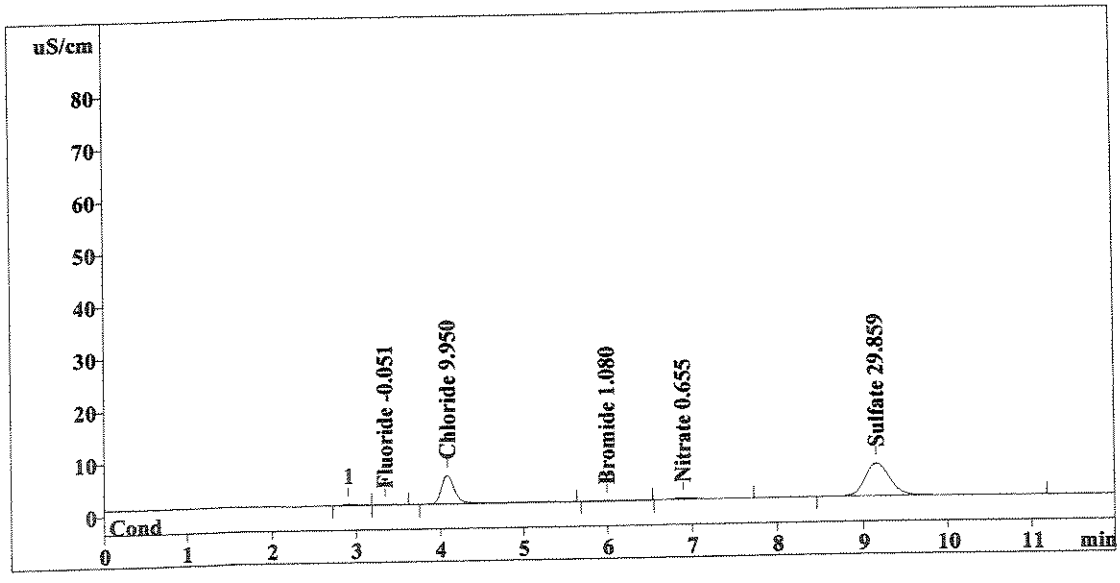
OK

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 09:14:41	
Printed by:	User	
Ident:	1116817	
Analysis from:	7/25/2008 09:02:43	
File:	S7250902.CHW	Last save: 7/25/2008 09:14:41
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38724	
SAMPLE:	25g -> 250mL (S)	
Vial number:	92	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.309	-0.051	Fluoride
2	4.08	59.853	9.950	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	1.289	1.080	Bromide
5	6.89	4.839	0.655	Nitrate
6	9.15	132.217	29.859	Sulfate
6	12.00	198.507	41.595	

OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

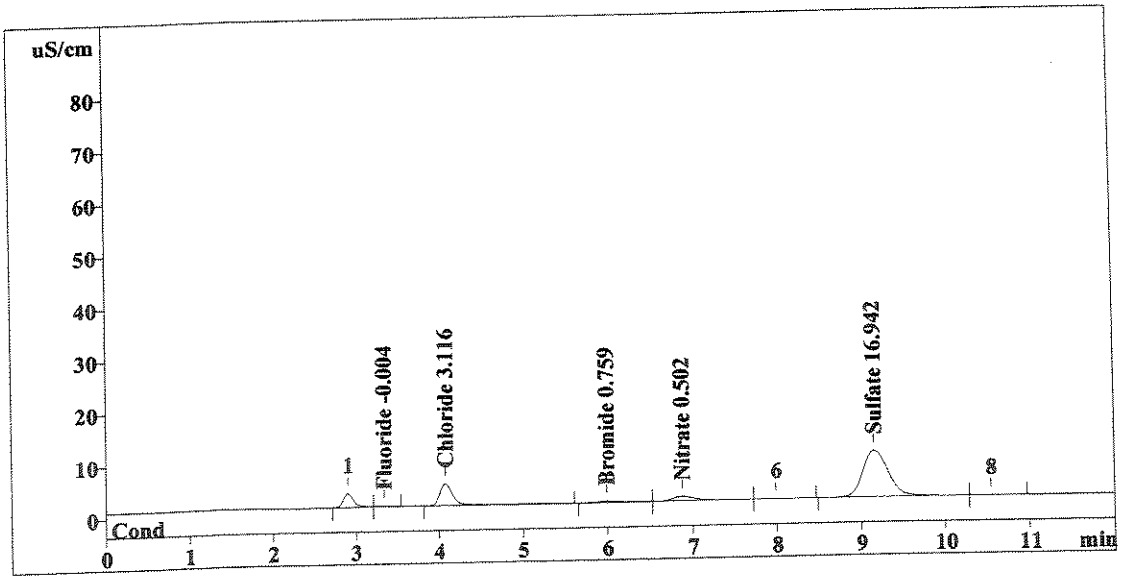
Report date:	7/25/2008 09:28:48
Printed by:	User
Ident:	1116818
Analysis from:	7/25/2008 09:16:49
File:	S7250916.CHW

Last save: 7/25/2008 09:28:47

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38725
SAMPLE:	25g -> 250mL (S)
Vial number:	93
Volume:	1.0 µL
Dilution:	4.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.34	0.738	-0.004	Fluoride
2	4.08	45.889	3.116	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	3.349	0.759	Bromide
5	6.88	14.677	0.502	Nitrate
6	9.16	188.981	16.942	Sulfate
6	12.00	253.633	21.321	

OK

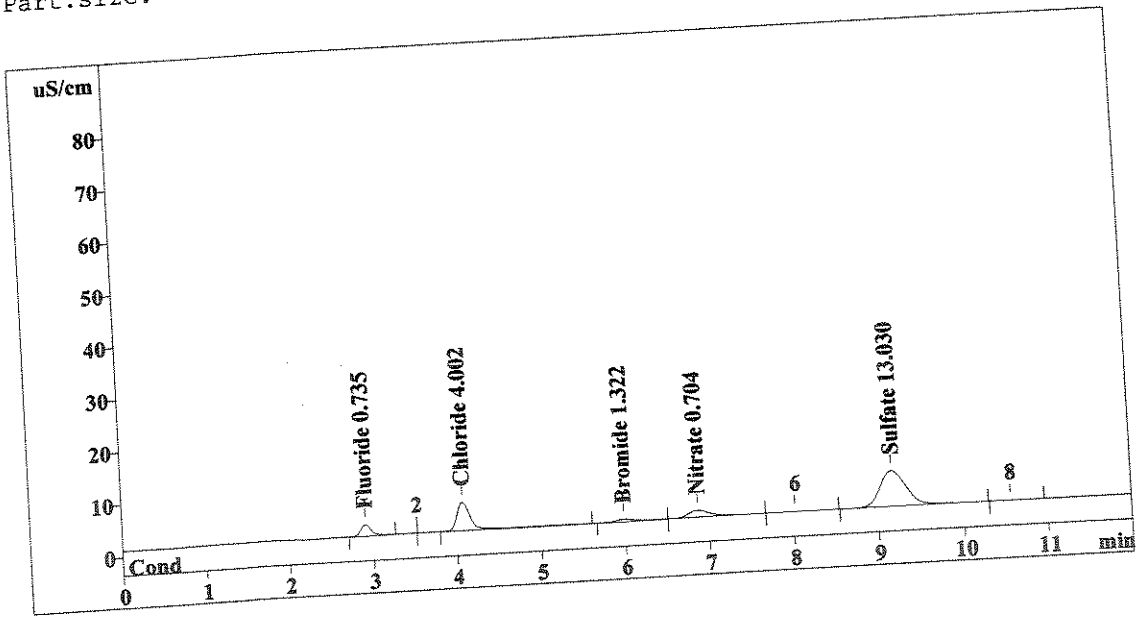
7/25/08

This report has been created by IC Net
METROHM LTD

Method 300.0/9056

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 09:42:54
Printed by:	User
Ident:	1116819
Analysis from:	7/25/2008 09:30:55
File:	S7250930.CHW
	Last save: 7/25/2008 09:42:53
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38726
SAMPLE:	25g -> 250mL (S)
Vial number:	94
Volume:	1.0 µL
Dilution:	4.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.90	19.409	0.735	Fluoride
2	4.08	60.205	4.002	Chloride
3	0.00	0.000	0.000	Nitrite
4	5.99	6.899	1.322	Bromide
5	6.86	22.961	0.704	Nitrate
6	9.17	144.556	13.030	Sulfate
6	12.00	254.030	19.793	

OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

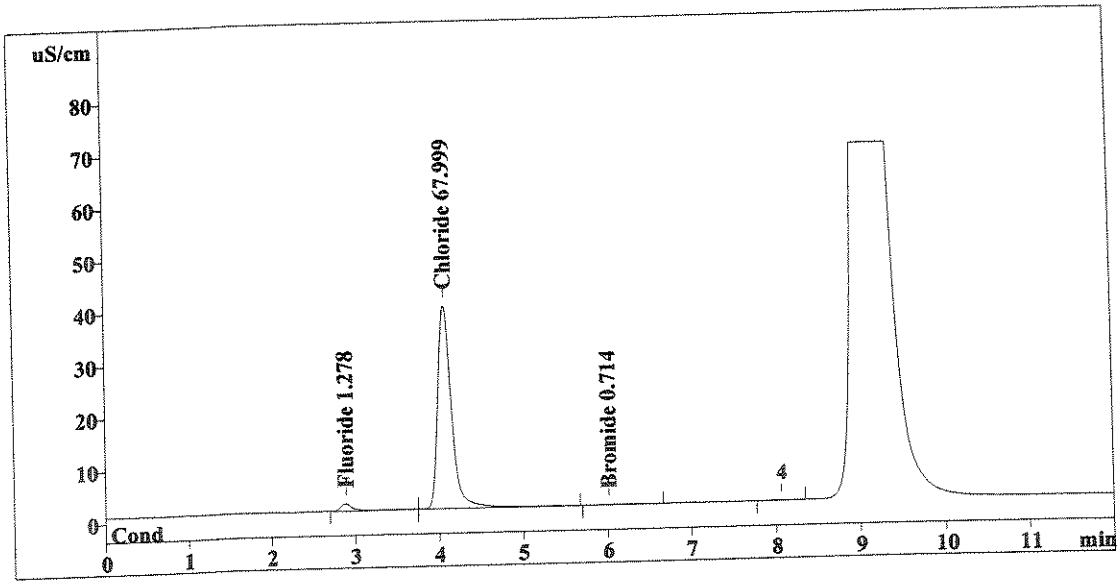
Report date:	7/25/2008 09:56:59
Printed by:	User
Ident:	WEX-0208-SB 1120561
Analysis from:	7/25/2008 09:45:01
File:	S7250945.CHW

Last save: 7/25/2008 09:56:59

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38727
SAMPLE:	CBNS
Vial number:	95
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000

Last save: 7/24/2008 11:35:17

COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	13.747		1.278	Fluoride
2	4.07	434.895	OK	67.999	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.02	0.367	OK	0.714	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	0.00	0.000	1/1000	0.000	Sulfate
6	12.00	449.009		69.990	

7/25/08

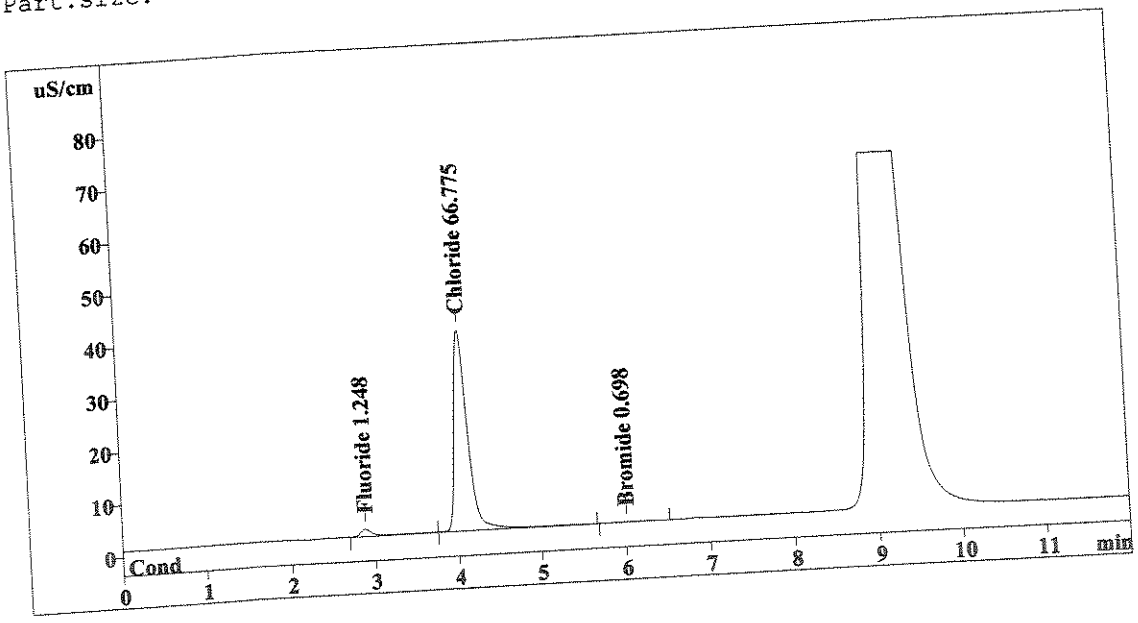
This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report
Columbia Analytical Services
Rochester, NY 14609

Method 300.0/9056

1120561 DUP

Report date:	7/25/2008 10:11:05
Printed by:	User
Ident:	WEX-0208-SB DUP
Analysis from:	7/25/2008 09:59:07
File:	S7250959.CHW
	Last save: 7/25/2008 10:11:05
Method:	07-17-08CAL.mtw
	Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38728
SAMPLE:	CBNS
Vial number:	96
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.88	13.450	OK	1.248	Fluoride
2	4.06	426.989		66.775	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.01	0.326	OK	0.698	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	0.00	0.000		0.000	Sulfate
6	12.00	440.765		68.721	

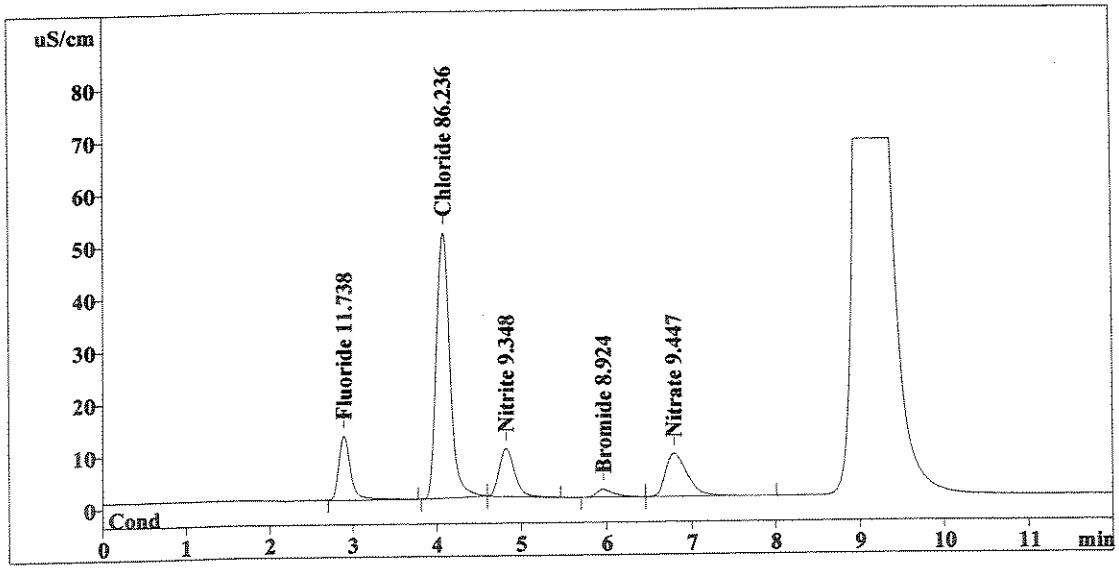
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 10:25:11	
Printed by:	User	
Ident:	WEX-0208-SB SPK	
Analysis from:	7/25/2008 10:13:13	
File:	S7251013.CHW	Last save: 7/25/2008 10:25:11
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38729	
SAMPLE:	CBNS	
Vial number:	97	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



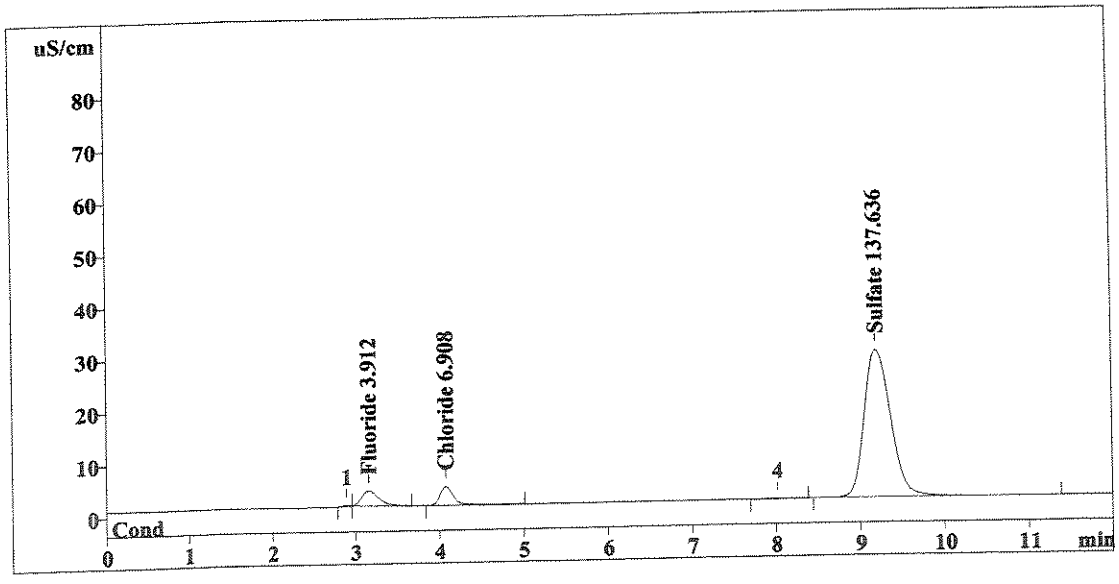
Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.89	119.521	11.738	Fluoride
2	4.06	552.721	86.236	Chloride
3	4.82	115.443	9.348	Nitrite
4	5.96	21.062	8.924	Bromide
5	6.79	149.098	9.447	Nitrate
6	0.00	0.000	0.000	Sulfate
6	12.00	957.846	125.693	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 10:39:17
Printed by:	User
Ident:	WEX-0208-UT 1120562
Analysis from:	7/25/2008 10:27:19
File:	S7251027.CHW Last save: 7/25/2008 10:39:17
Method:	07-17-08CAL.mtw Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38730
SAMPLE:	CBNS
Vial number:	98
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.16	40.390		3.912	Fluoride
2	4.07	40.199	OK	6.908	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000	OK	0.000	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	9.20	621.823	1/40	137.636	Sulfate
6	12.00	702.412		148.457	

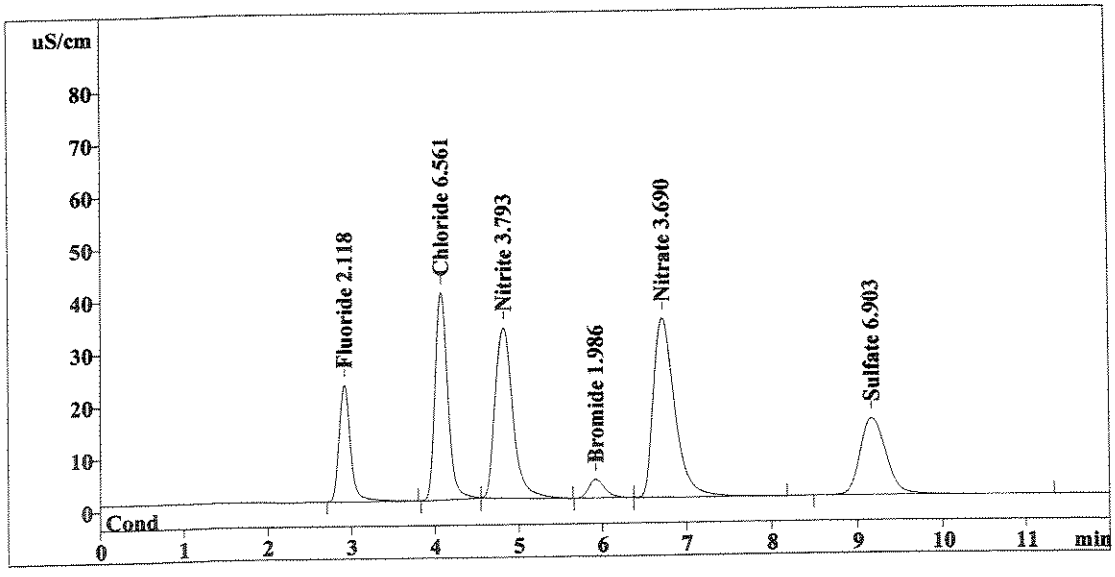
CM 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 10:53:23	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/25/2008 10:41:25	
File:	S7251041.CHW	Last save: 7/25/2008 10:53:23
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38731	
SAMPLE:		
Vial number:	99	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	214.986	2.118	Fluoride
2	4.07	419.475	6.561	Chloride
3	4.82	472.387	3.793	Nitrite
4	5.92	48.627	1.986	Bromide
5	6.72	599.497	3.690	Nitrate
6	9.17	310.148	6.903	Sulfate
6	12.00	2065.121	25.050	

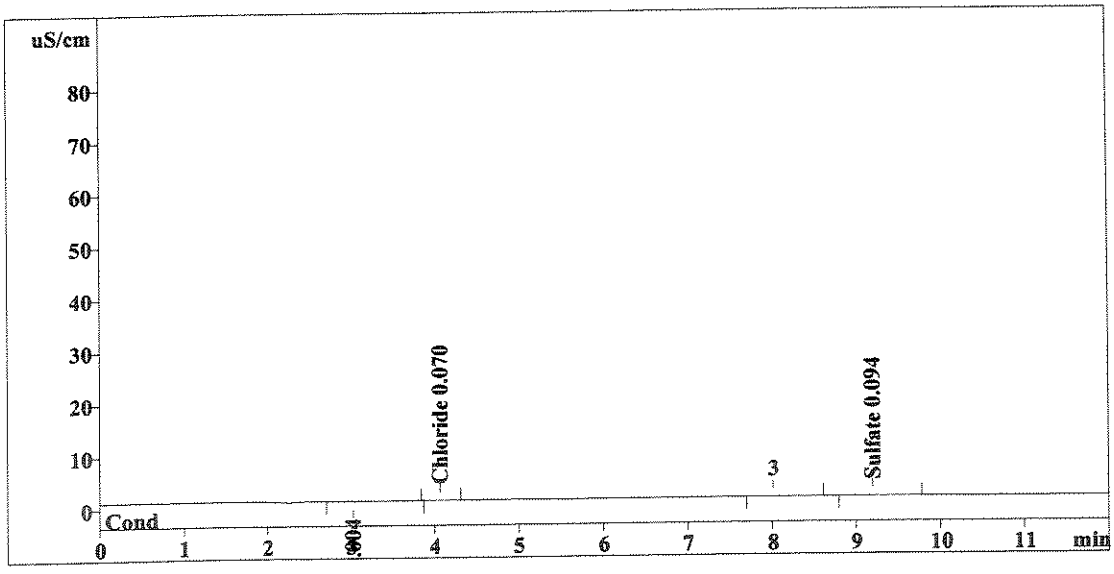
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 11:07:29	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/25/2008 10:55:31	
File:	S7251055.CHW	Last save: 7/25/2008 11:07:29
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38732	
SAMPLE:		
Vial number:	100	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.03	0.472	OK	-0.004	Fluoride
2	4.06	0.101		0.070	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.20	0.865		0.094	Sulfate
6	12.00	1.439		0.168	

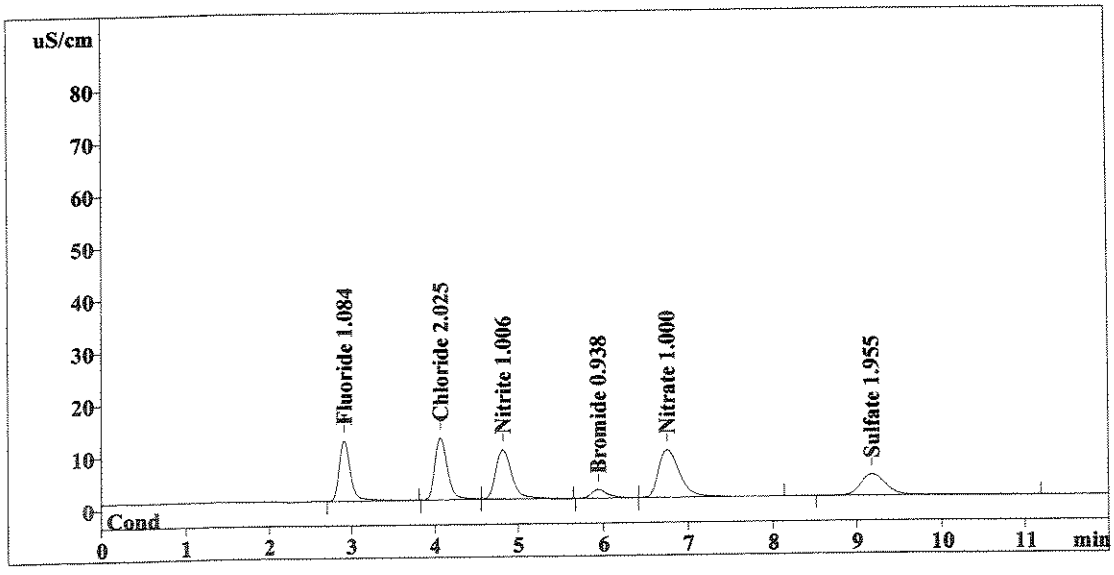
7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 11:21:35	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/25/2008 11:09:37	
File:	S7251109.CHW	Last save: 7/25/2008 11:21:35
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38733	
SAMPLE:		
Vial number:	101	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	110.412	1.084	Fluoride
2	4.07	126.418	2.025	Chloride
3	4.82	124.311	1.006	Nitrite
4	5.94	22.215	0.938	Bromide
5	6.75	158.254	1.000	Nitrate
6	9.18	85.366	1.955	Sulfate
6	12.00	626.976	8.008	

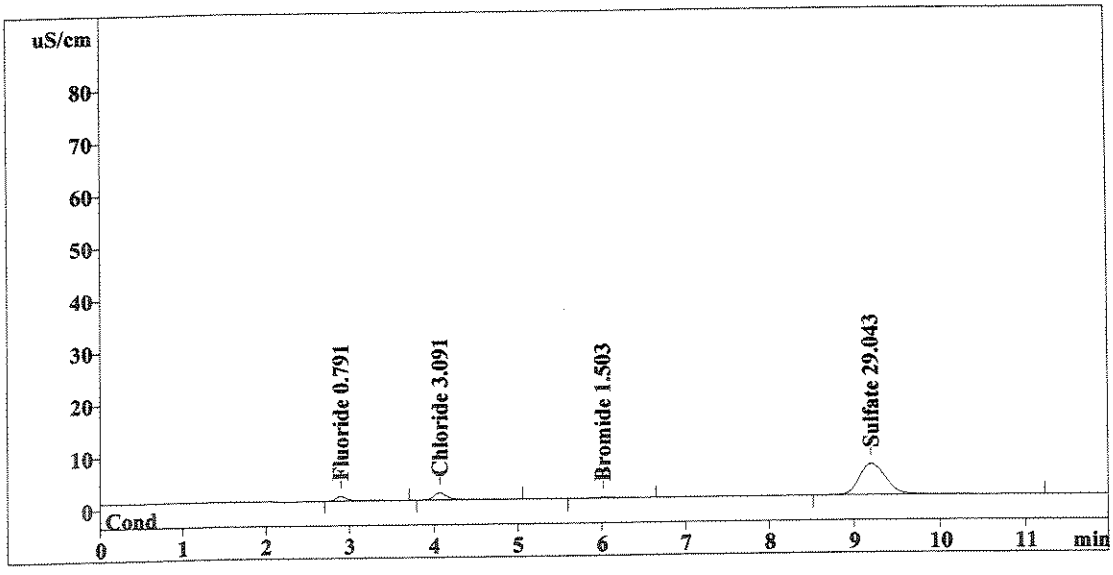
OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 11:35:41	
Printed by:	User	
Ident:	WEX-0208-LL 1120563	
Analysis from:	7/25/2008 11:23:43	
File:	S7251123.CHW	Last save: 7/25/2008 11:35:41
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38734	
SAMPLE:	CBNS	
Vial number:	102	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

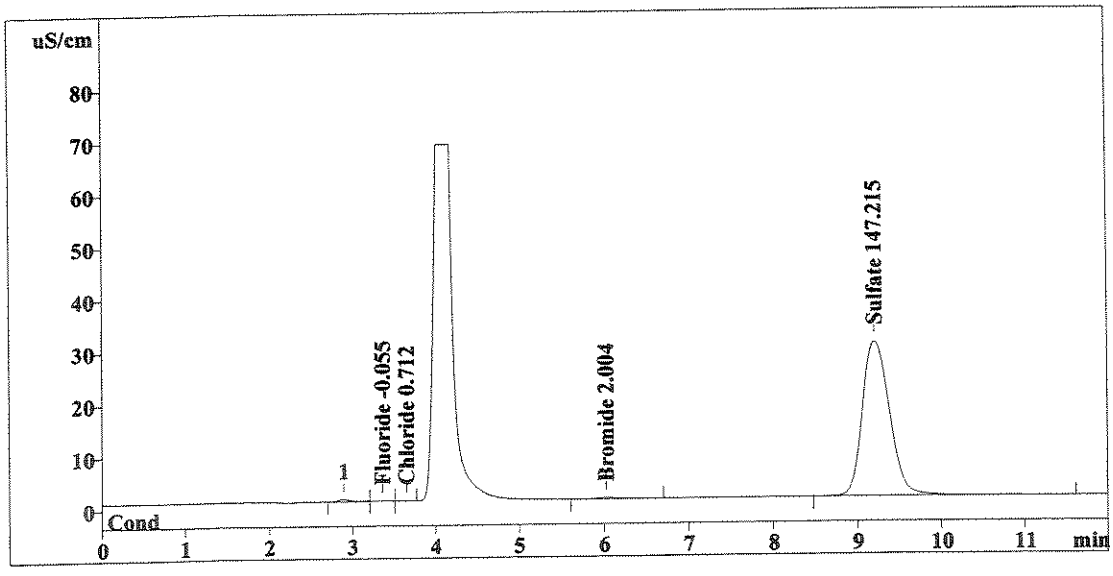
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.89	8.829		0.791	Fluoride
2	4.07	15.535	OK	3.091	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.01	2.356	OK	1.503	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	9.20	128.511	OK	29.043	Sulfate
6	12.00	155.230		34.427	

CW 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 11:49:47
Printed by:	User
Ident:	WEX-0214-SB 1120566
Analysis from:	7/25/2008 11:37:49
File:	S7251137.CHW Last save: 7/25/2008 11:49:47
Method:	07-17-08CAL.mtw Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38735
SAMPLE:	CBNS
Vial number:	103
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

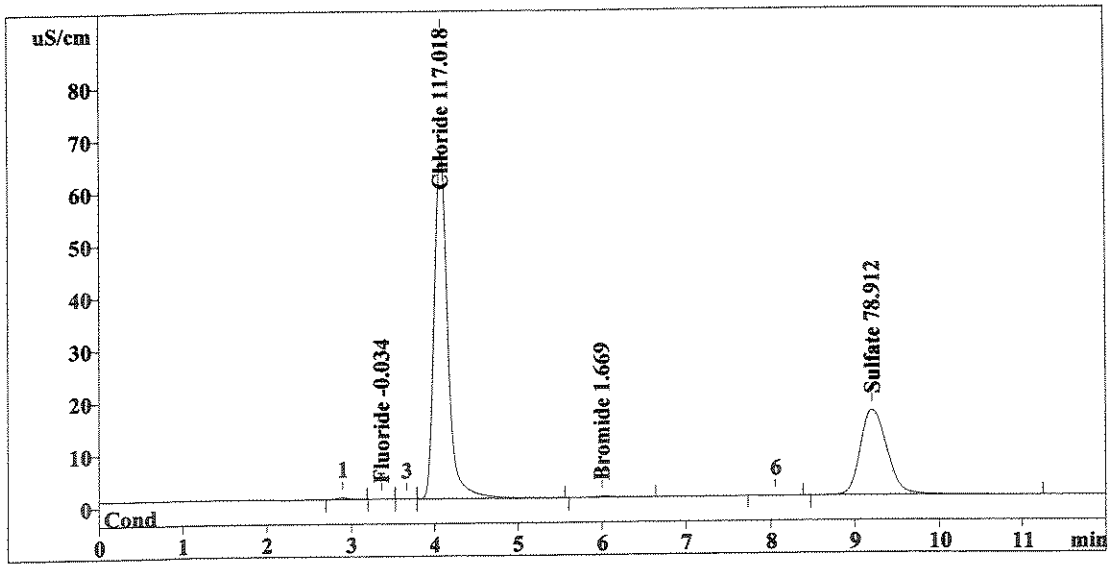
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.276		-0.055	Fluoride
2	3.65	0.167	1/100	0.712	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.03	3.619	OK	2.004	Bromide
5	0.00	0.000	OK	0.000	Nitrate
6	9.21	665.336	1/100	147.215	Sulfate
6	12.00	669.399		149.986	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 12:03:53	
Printed by:	User	
Ident:	WEX-0214-UT 1120569	
Analysis from:	7/25/2008 11:51:54	
File:	S7251151.CHW	Last save: 7/25/2008 12:03:53
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38736	
SAMPLE:	CBNS	
Vial number:	104	
Volume:	1.0 µL	
Dilution:	10.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

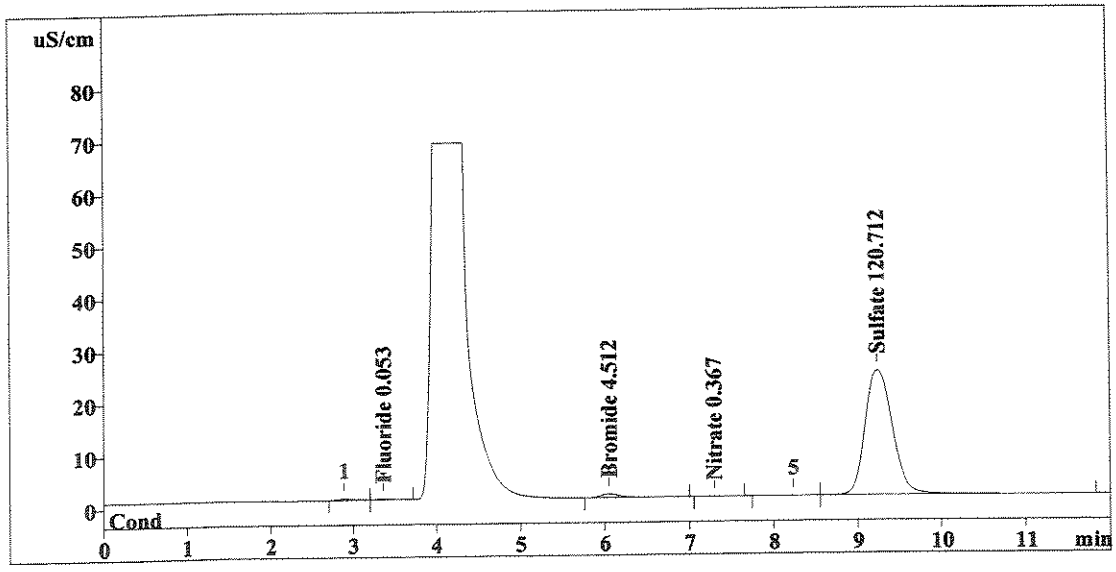
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	0.483		-0.034	Fluoride
2	4.07	751.598	1/40	117.018	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.00	2.774	0%	1.669	Bromide
5	0.00	0.000	0	0.000	Nitrate
6	9.21	355.056	0%	78.912	Sulfate
6	12.00	1109.911		197.633	

CW 7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 12:17:58
Printed by:	User
Ident:	WEX-0214-LL 1120570
Analysis from:	7/25/2008 12:06:00
File:	S7251206.CHW Last save: 7/25/2008 12:17:58
Method:	07-17-08CAL.mtw Last save: 7/24/2008 11:35:17
Run operator:	User
Analysis number:	38737
SAMPLE:	CBNS
Vial number:	105
Volume:	1.0 µL
Dilution:	10.00
Amount:	1.0000
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)
Size:	4.0 x 100 mm
Number:	7503293
Part.size:	5.0 µm



Quantitation method: Custom

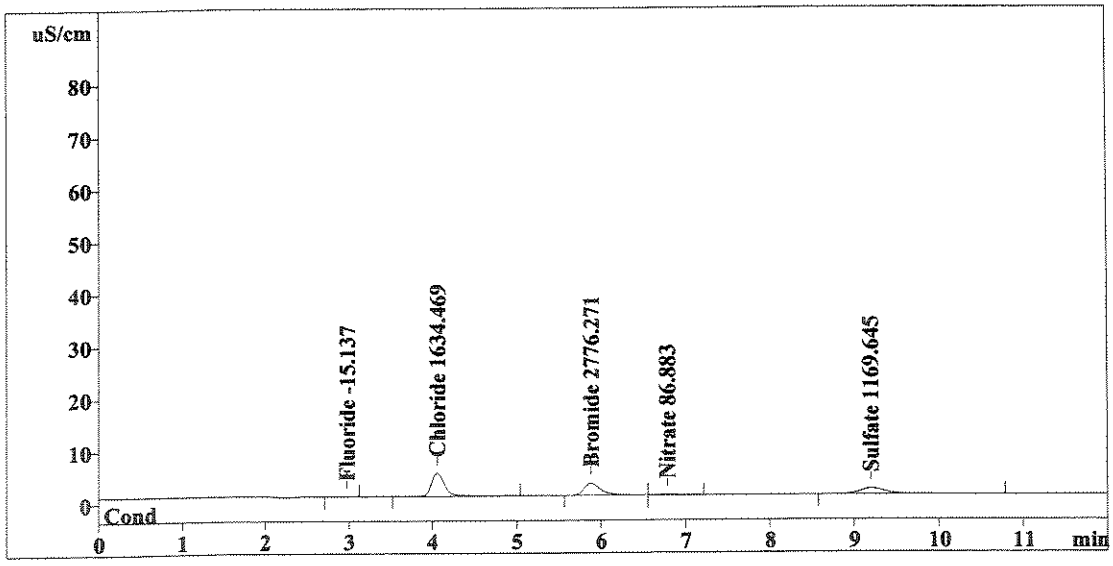
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	3.36	1.362	1/1000	0.053	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	6.05	9.940	OK	4.512	Bromide
5	7.30	0.102	OK	0.367	Nitrate
6	9.24	544.940	1/40	120.712	Sulfate
6	12.00	556.344		125.643	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 12:32:04	
Printed by:	User	
Ident:	1114420	
Analysis from:	7/25/2008 12:20:06	
File:	S7251220.CHW	Last save: 7/25/2008 12:32:04
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38738	
SAMPLE:	B	
Vial number:	21	
Volume:	1.0 µL	
Dilution:	2000.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

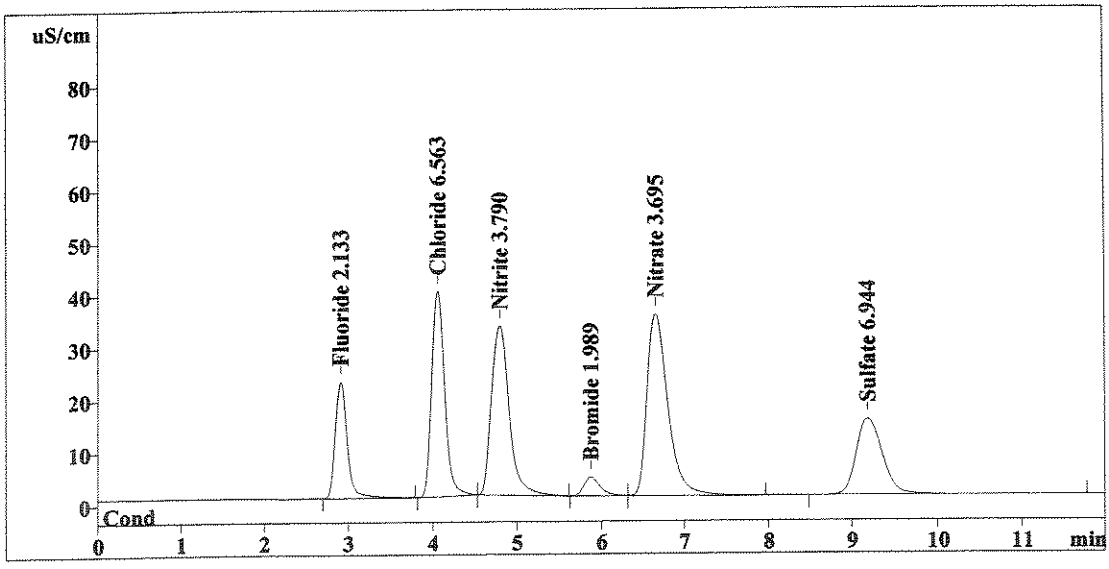
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.96	0.063		-15.137	Fluoride
2	4.06	48.366		1634.469	Chloride
3	0.00	0.000		0.000	Nitrite
4	5.88	33.560	OK	2776.271	Bromide
5	6.79	1.216		86.883	Nitrate
6	9.19	23.145		1169.645	Sulfate
6	12.00	106.349		5682.404	

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 12:46:12	
Printed by:	User	
Ident:	CCV	
Analysis from:	7/25/2008 12:34:12	
File:	S7251234.CHW	Last save: 7/25/2008 12:46:12
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38739	
SAMPLE:		
Vial number:	106	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	216.472		2.133	Fluoride
2	4.05	419.617		6.563	Chloride
3	4.79	472.030		3.790	Nitrite
4	5.87	48.712		1.989	Bromide
5	6.66	600.385		3.695	Nitrate
6	9.19	312.034		6.944	Sulfate
6	12.00	2069.252		25.114	

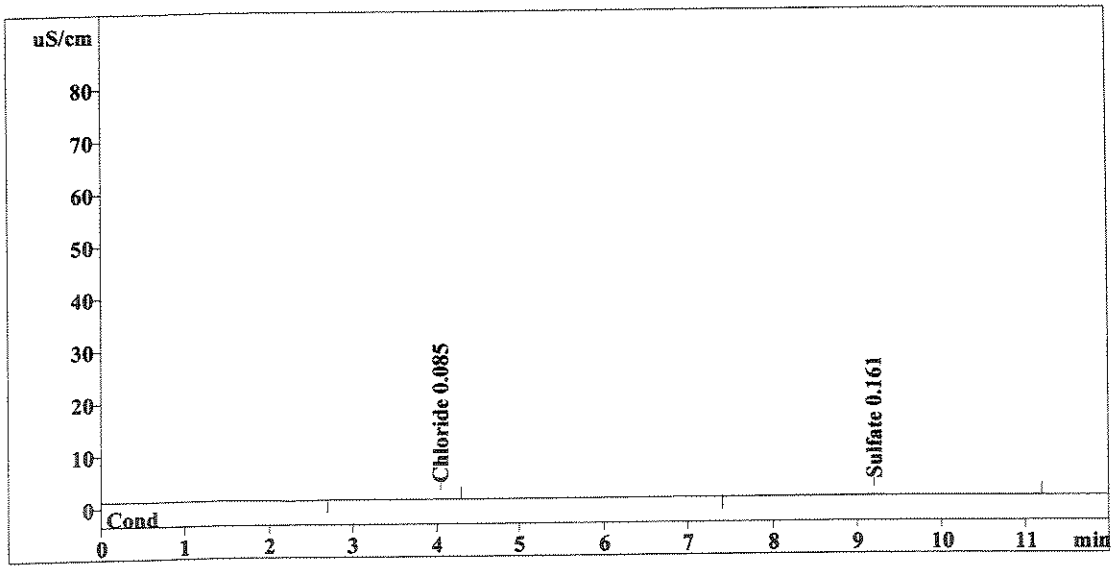
OK

7/25/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/25/2008 13:00:22	
Printed by:	User	
Ident:	CCB	
Analysis from:	7/25/2008 12:48:23	
File:	S7251248.CHW	Last save: 7/25/2008 13:00:21
Method:	07-17-08CAL.mtw	Last save: 7/24/2008 11:35:17
Run operator:	User	
Analysis number:	38740	
SAMPLE:		
Vial number:	107	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
COLUMN:	METROSEP A SUPP 5 - 100 (6.1006.510)	
Size:	4.0 x 100 mm	
Number:	7503293	
Part.size:	5.0 µm	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	0.00	0.000	0.000	Fluoride
2	4.04	1.076	0.085	Chloride
3	0.00	0.000	0.000	Nitrite
4	0.00	0.000	0.000	Bromide
5	0.00	0.000	0.000	Nitrate
6	9.21	3.892	0.161	Sulfate
6	12.00	4.968	0.246	

7/25/08

This report has been created by IC Net
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 07/17/2008 **Loop size:** 50 uL Loop

Analyst: C. Woods **Analysis Date:** 07-24-08 (07/25/08)

Is copy of LCS attached to run? YES / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*	*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	07/14/08	WC90011A	Working Calibration Stds	07/14/08	WC90011H
LCS / MS Intermediate	07/14/08	WC90011A	Working LCS/MS Standard	07/21/08	WC90051B
ICV Intermediate	06/23/08	WC90100A	Working ICV Standard	DAILY	WC90100H
CCV Intermediate	06/23/08	WC90100A	Working CCV Standard	DAILY	WC90100H

Comments:

- CALIBRATION EXPIRES 12/10/2008
- CALIBRATION INVALID FOR FLUORIDE (ICV FAIL HIGH)
- CHLORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

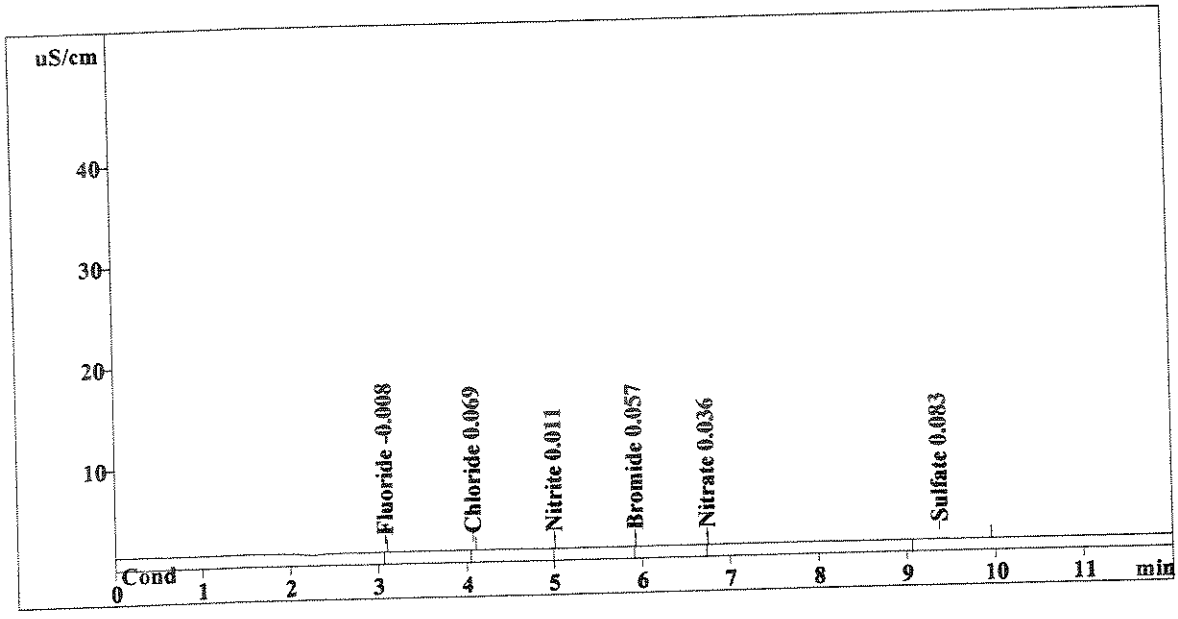
Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC900118	50	2.0	100	1.0	CMW	7/14/08	A	7/21/08	WC900518
Cl		100			2.0	CMW	7/21/08	B	7/28/08	WC900518
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:22
Printed by:	User
Ident:	STANDARD 1
Analysis from:	7/17/2008 21:16:22
File:	s7172116.chw
Manual peaks!	
Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38455
SAMPLE:	
Vial number:	125
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3
Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	6.0 MPa

Last save: 7/22/2008 15:55:51

Last save: 7/17/2008 20:55:39



Quantitation method: Custom

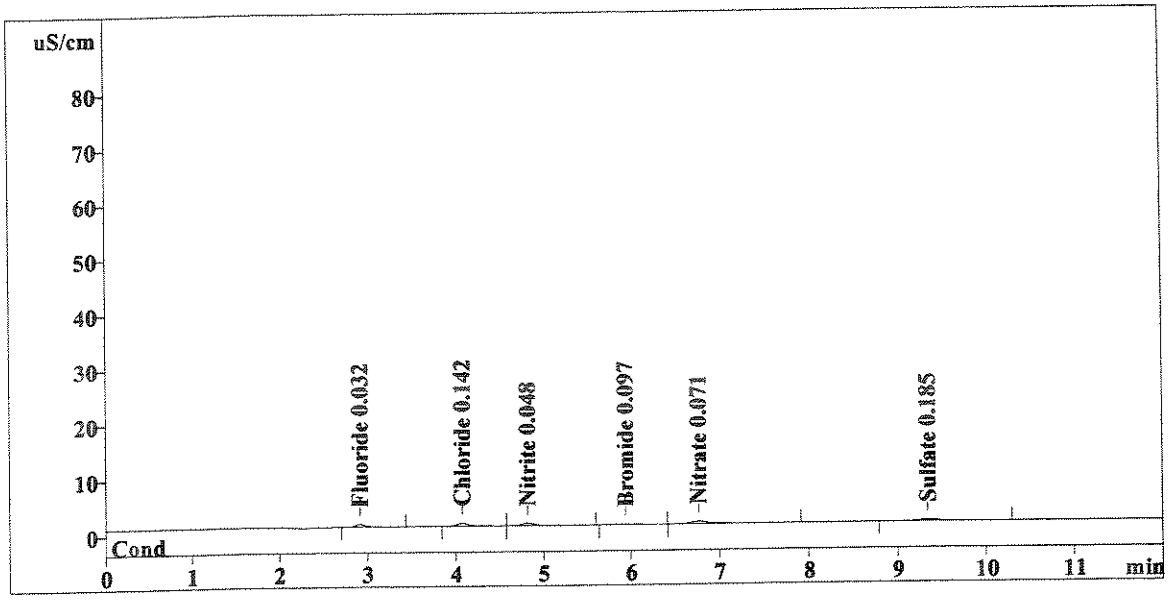
No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	3.08	0.000	-0.008	Fluoride
2	4.07	0.002	0.069	Chloride
3	5.00	0.000	0.011	Nitrite
4	5.92	0.000	0.057	Bromide
5	6.74	-0.000	0.036	Nitrate
6	9.36	0.370	0.083	Sulfate
6	12.00	0.372	0.264	

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:27	
Printed by:	User	
Ident:	STANDARD 2	
Analysis from:	7/17/2008 21:30:28	
File:	s7172130.chw	Last save: 7/22/2008 15:55:51
Method:	07-17-08CAL.mtw	Last save: 7/17/2008 20:55:39
Run operator:	User	
Analysis number:	38456	
SAMPLE:		
Vial number:	126	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3	
Flow:	0.70 mL/min	
Temperature:	20.0°C	
Pressure:	5.9 MPa	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	4.064	OK	0.032	Fluoride
2	4.07	4.715		0.142	Chloride
3	4.81	4.687		0.048	Nitrite
4	5.94	1.018		0.097	Bromide
5	6.76	5.725		0.071	Nitrate
6	9.34	4.991		0.185	Sulfate
6	12.00	25.200		0.575	

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

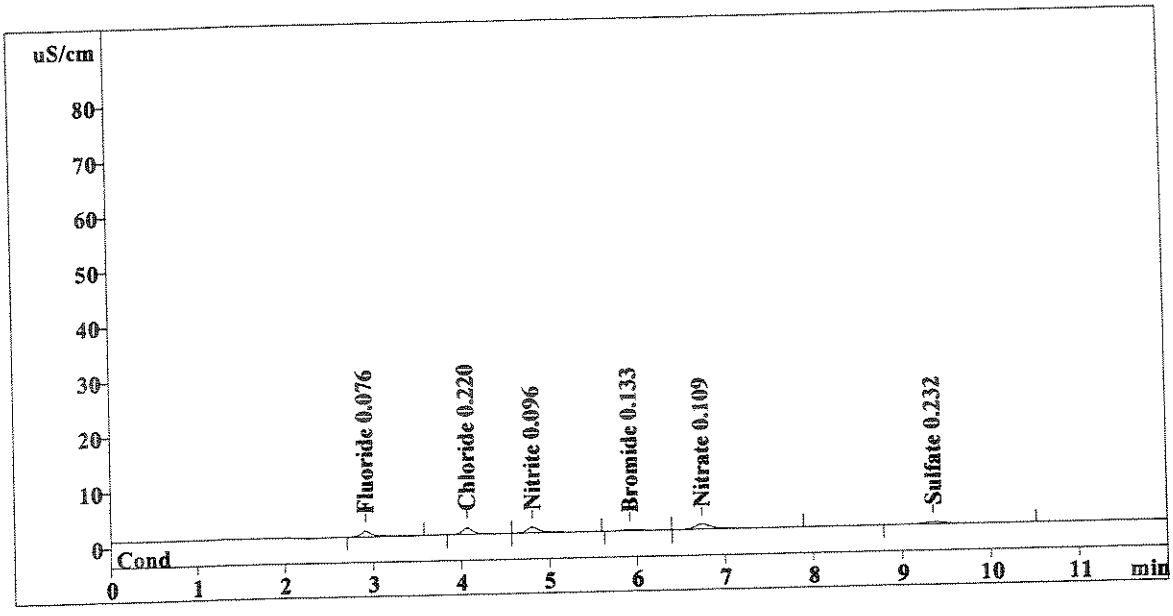
Report date:	7/22/2008 15:56:31
Printed by:	User
Ident:	STANDARD 3
Analysis from:	7/17/2008 21:44:34
File:	s7172144.chw

Last save: 7/22/2008 15:55:51

Method:	07-17-08CAL.mtw

Last save: 7/17/2008 20:55:39

Run operator:	User
Analysis number:	38457
SAMPLE:	
Vial number:	127
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3
Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.9 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	8.549	0.076	Fluoride
2	4.07	9.762	0.220	Chloride
3	4.81	10.676	0.096	Nitrite
4	5.92	1.918	0.133	Bromide
5	6.74	12.031	0.109	Nitrate
6	9.35	7.110	0.232	Sulfate
6	12.00	50.046	0.866	

OK

7/22/08

This report has been created by IC Net
METROHM LTD

01334

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:34
Printed by:	User
Ident:	STANDARD 4
Analysis from:	7/17/2008 21:58:40
File:	s7172158.chw

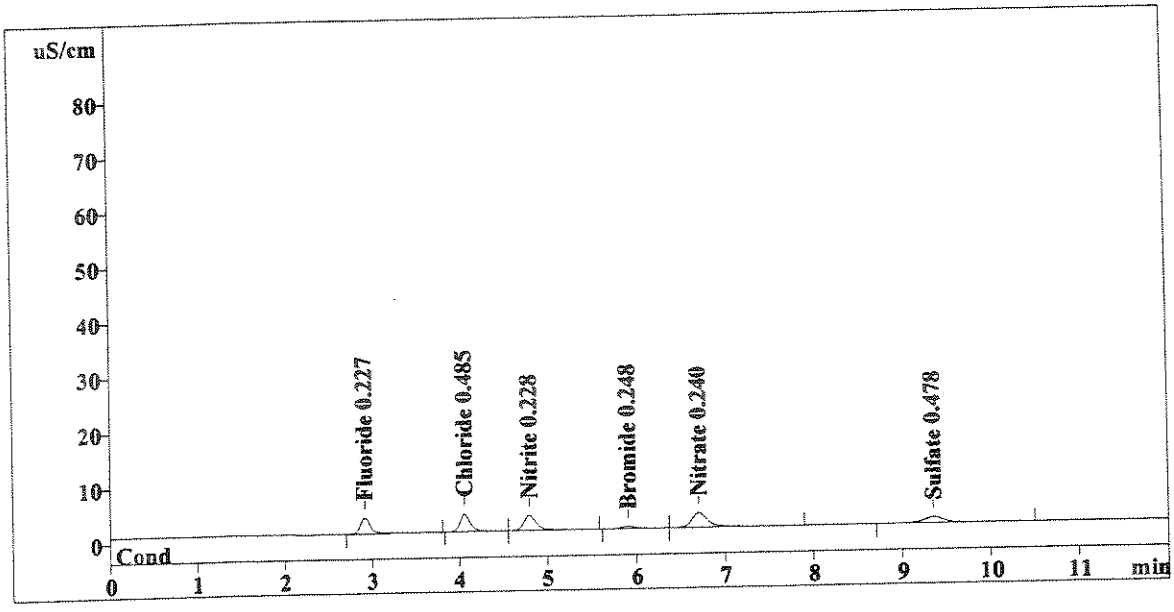
Last save: 7/22/2008 15:55:51

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38458
SAMPLE:	
Vial number:	128
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/17/2008 20:55:39

ELUENT: 3.2 mM Na2CO3 / 1.0 mM NaHCO3

Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.91	23.819	0.227	Fluoride
2	4.06	26.920	0.485	Chloride
3	4.79	27.193	0.228	Nitrite
4	5.91	4.830	0.248	Bromide
5	6.70	33.460	0.240	Nitrate
6	9.35	18.301	0.478	Sulfate
6	12.00	134.524	1.908	

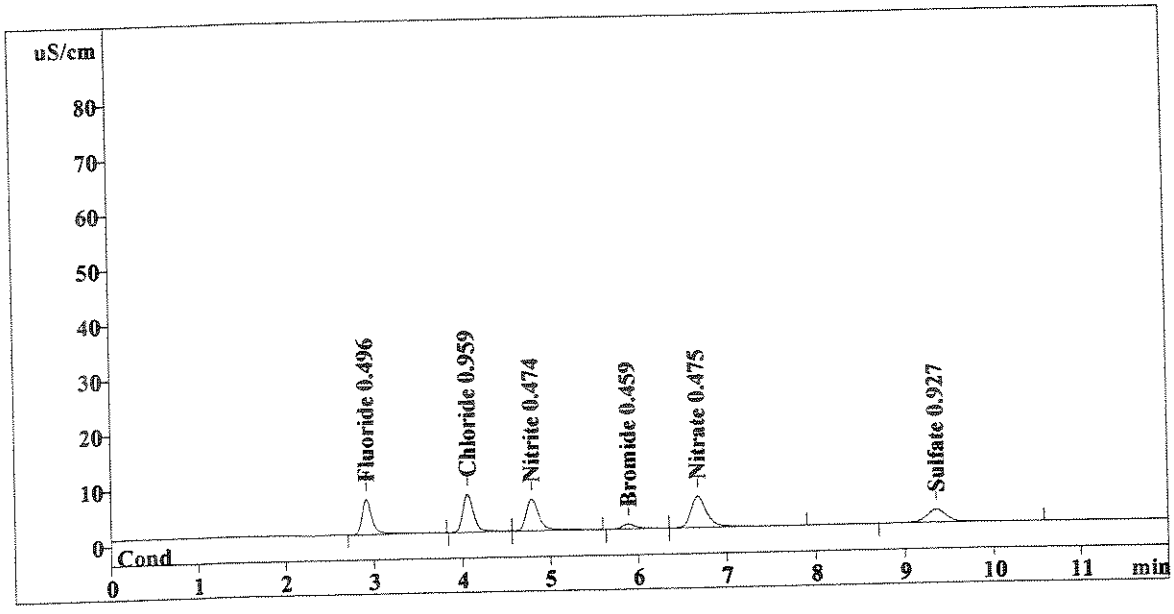
ok

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:37
Printed by:	User
Ident:	STANDARD 5
Analysis from:	7/17/2008 22:12:46
File:	s7172212.chw
	Last save: 7/22/2008 15:55:52
Method:	07-17-08CAL.mtw
	Last save: 7/17/2008 20:55:39
Run operator:	User
Analysis number:	38459
SAMPLE:	
Vial number:	129
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3
Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



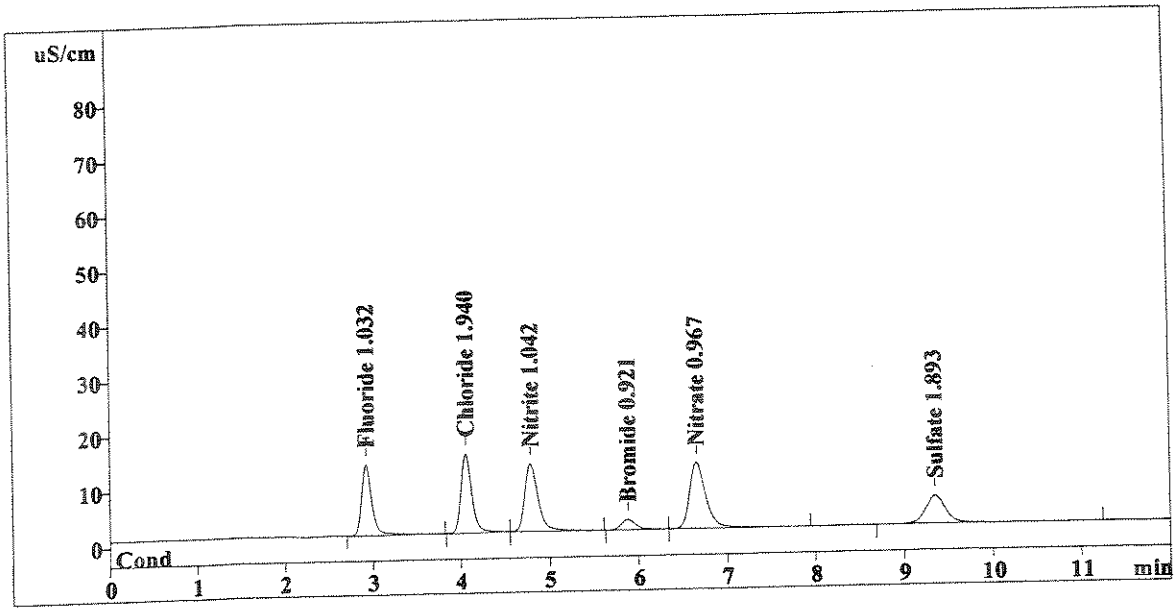
Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.91	51.010	ok	0.496	Fluoride
2	4.06	57.495		0.959	Chloride
3	4.79	57.846		0.474	Nitrite
4	5.89	10.149		0.459	Bromide
5	6.68	72.071		0.475	Nitrate
6	9.35	38.700		0.927	Sulfate
6	12.00	287.271	7/22/08	3.790	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:40
Printed by:	User
Ident:	STANDARD 6
Analysis from:	7/17/2008 22:26:52
File:	s7172226.chw
	Last save: 7/22/2008 15:55:52
Method:	07-17-08CAL.mtw
	Last save: 7/17/2008 20:55:39
Run operator:	User
Analysis number:	38460
SAMPLE:	
Vial number:	130
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3
Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	105.195	1.032	Fluoride
2	4.06	120.919	1.940	Chloride
3	4.78	128.793	1.042	Nitrite
4	5.88	21.795	0.921	Bromide
5	6.65	152.794	0.967	Nitrate
6	9.35	82.555	1.893	Sulfate
6	12.00	612.050	7.795	

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:43
Printed by:	User
Ident:	STANDARD 7
Analysis from:	7/17/2008 22:40:58
File:	s7172240.chw

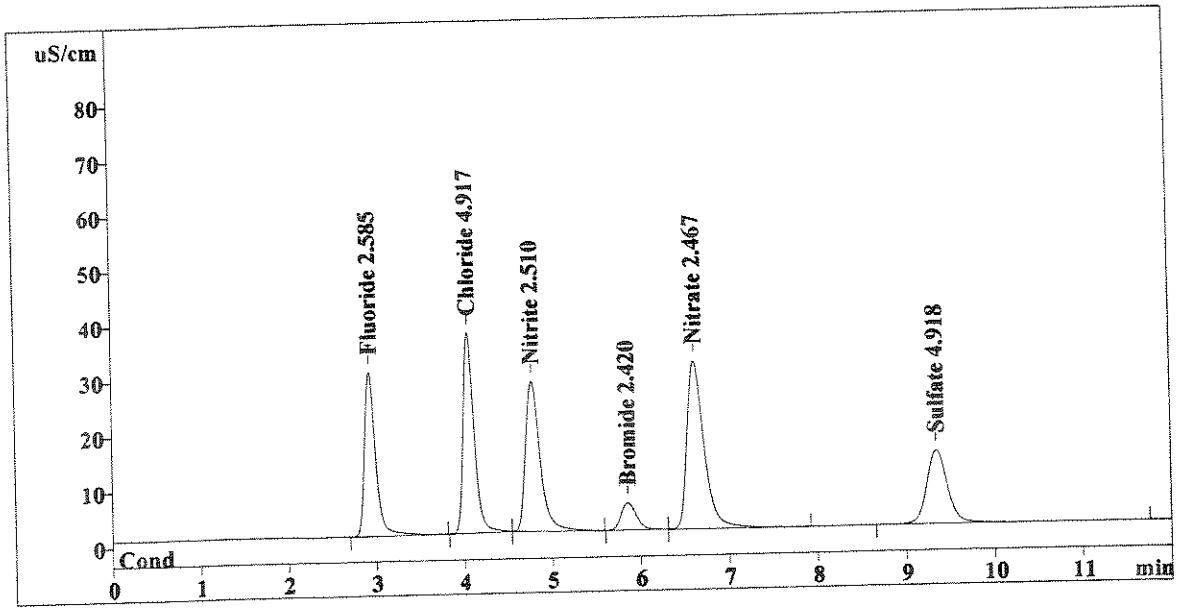
Last save: 7/22/2008 15:55:53

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38461
SAMPLE:	
Vial number:	131
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/17/2008 20:55:39

ELUENT: 3.2 mM Na2CO3 / 1.0 mM NaHCO3

Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.93	262.256	2.585	Fluoride
2	4.06	313.254	4.917	Chloride
3	4.78	312.176	2.510	Nitrite
4	5.86	59.562	2.420	Bromide
5	6.62	398.883	2.467	Nitrate
6	9.35	219.992	4.918	Sulfate
6	12.00	1566.123	19.817	

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:46
Printed by:	User
Ident:	STANDARD 8
Analysis from:	7/17/2008 22:55:04
File:	s7172255.chw

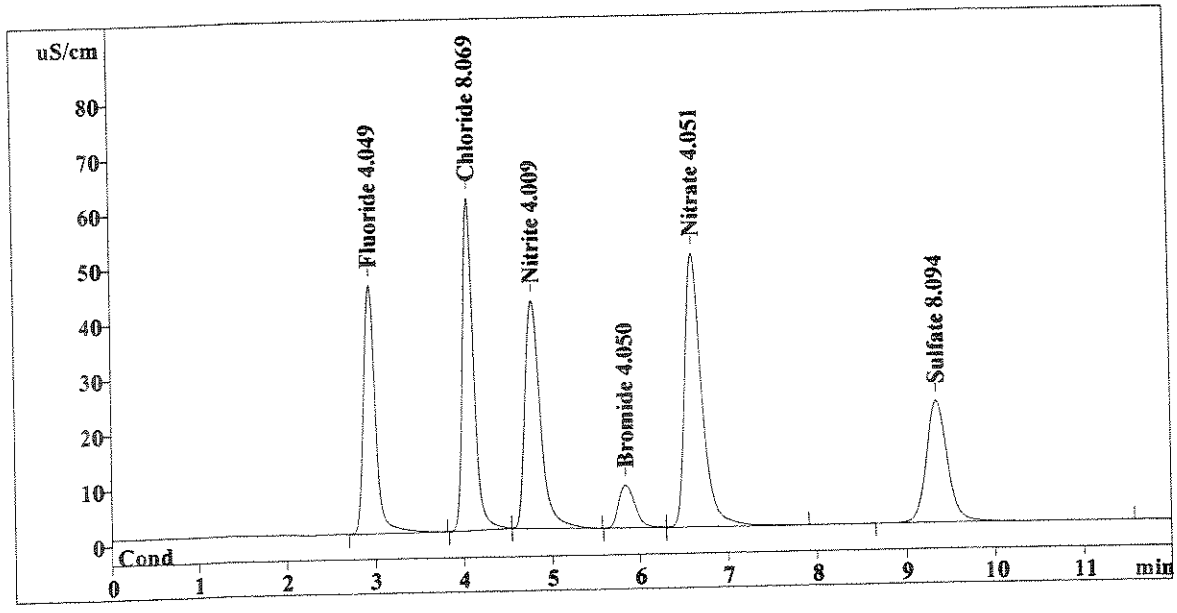
Last save: 7/22/2008 15:55:53

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38462
SAMPLE:	
Vial number:	132
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/17/2008 20:55:39

ELUENT: 3.2 mM Na2CO3 / 1.0 mM NaHCO3

Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.94	410.282	4.049	Fluoride
2	4.06	516.878	8.069	Chloride
3	4.77	499.464	4.009	Nitrite
4	5.84	100.648	4.050	Bromide
5	6.61	658.754	4.051	Nitrate
6	9.34	364.284	8.094	Sulfate
6	12.00	2550.309	32.322	

OK

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

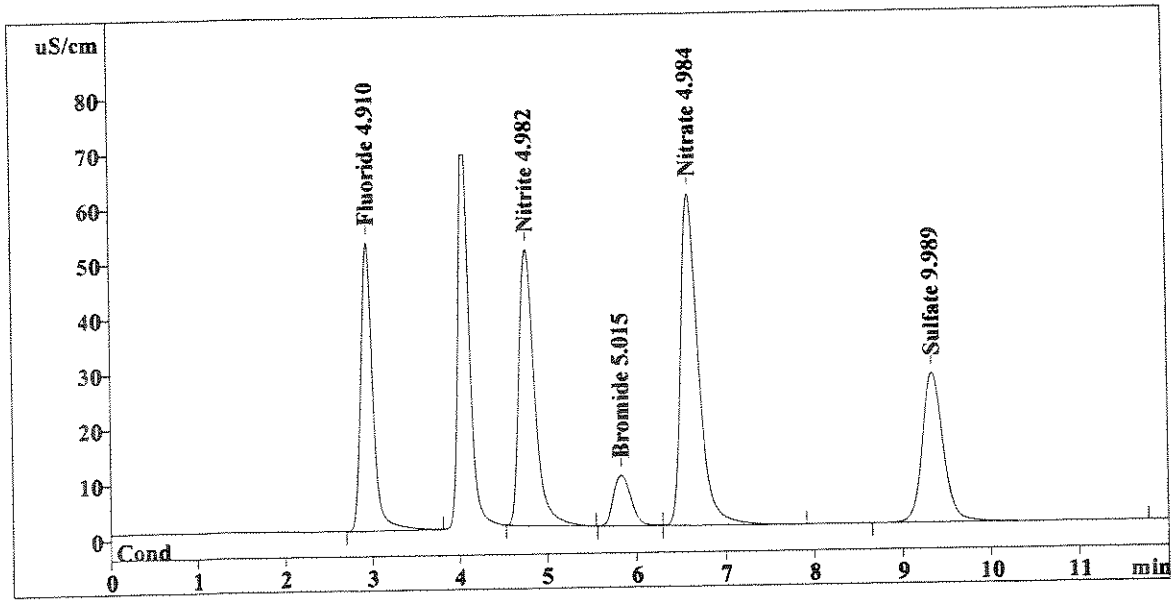
Report date:	7/22/2008 15:56:49
Printed by:	User
Ident:	STANDARD 9
Analysis from:	7/17/2008 23:09:10
File:	s7172309.chw

Last save: 7/22/2008 15:55:53

Method:	07-17-08CAL.mtw

Last save: 7/17/2008 20:55:39

Run operator:	User
Analysis number:	38463
SAMPLE:	
Vial number:	133
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3
Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.94	497.307	OK	4.910	Fluoride
2	0.00	0.000		0.000	Chloride
3	4.77	621.001	OK	4.982	Nitrite
4	5.83	124.975		5.015	Bromide
5	6.60	811.812		4.984	Nitrate
6	9.34	450.352		9.989	Sulfate
6	12.00	2505.446		29.879	

7/22/08

This report has been created by IC Net
METROHM LTD

ACQUISITION PARAMETERS

Channels:	1
Method duration:	12.00min
Run duration:	0.00min
Measurements (method):	7200
Measurements (run):	0
Freq.divisor:	1
Sampling:	10.00 pts/sec
Start delay:	sec
Device:	732 IC Detector
Program before:	
Program after:	
Spikes filter:	No
Median filter:	No
slit:	0
Gauss filter:	No
slit:	0

INTEGRATION DEFAULTS

Channel:	Cond
Delay:	2.70 min
Width:	2.00 sec
Broadening:	2.00
Slope:	1.00
Asymmetry:	1.00
MinArea:	0.05
MinHeight:	0.00
Rider ratio:	0.00

No. min
1 0.00 Enable valley-to-valley

CALIBRATION

Channel:	Cond
Method:	External standard
Response:	Area
Standard:	No

IDENTIFICATION

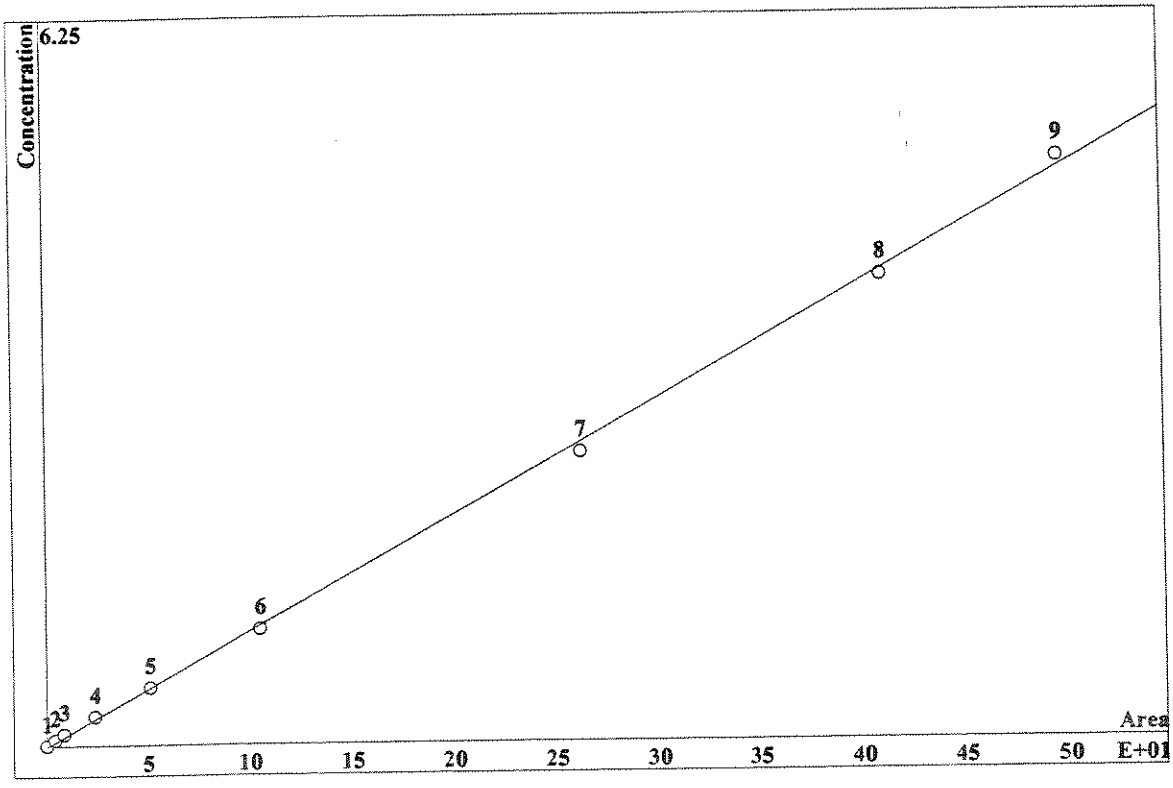
Reference peaks:	Time
Other peaks:	Time
Retention units:	min

No	Retention	Window%	RF	Conc.	Index	Type	Group	Name
1	3.20	10.0	9.889e-03	0.00	0.000		0	Fluoride
2	4.04	10.0	1.548e-02	0.00	0.000		0	Chloride
3	5.07	10.0	8.006e-03	0.00	0.000		0	Nitrite
4	6.08	10.0	3.967e-02	0.00	0.000		0	Bromide
5	6.98	10.0	6.094e-03	0.00	0.000		0	Nitrate
6	9.51	10.0	2.201e-02	0.00	0.000		0	Sulfate

This report has been created by IC Net
METROHM LTD

CALIBRATION OF COMPONENT Fluoride

Method: 07-17-08CAL.mtw
Equation: Q = 0.0098891·A - 0.00819104
RSD: 3.621 %
Correlation coefficient: 0.999645

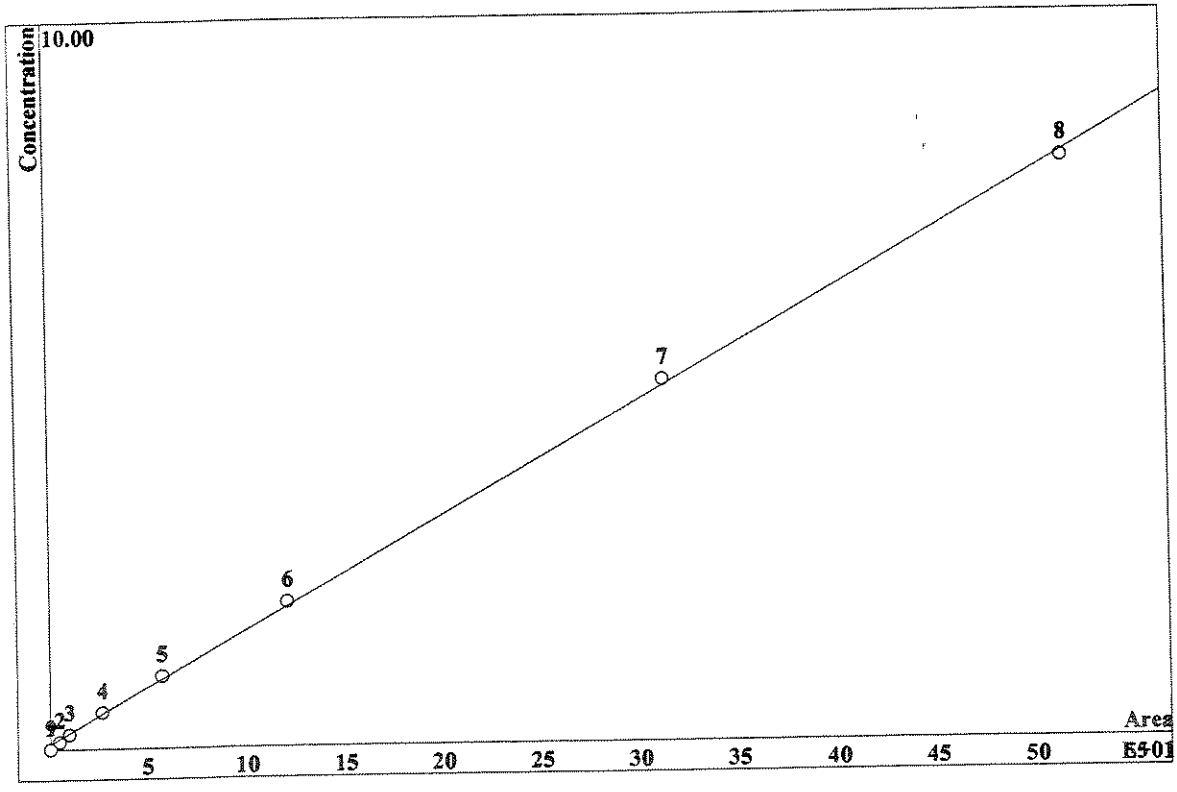


K3 = 0 K2 = 0 K1 = 0.0098891 K0 = -0.00819104
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	5.5e-05	6.95e-05	1e-05	1	3.202	Yes	s7172116.chw
2	0.473	4.064	0.05	1	3.202	Yes	s7172130.chw
3	1.008	8.549	0.1	1	3.202	Yes	s7172144.chw
4	2.883	23.82	0.25	1	3.202	Yes	s7172158.chw
5	6.337	51.01	0.5	1	3.202	Yes	s7172212.chw
6	12.77	105.2	1	1	3.202	Yes	s7172226.chw
7	29.73	262.3	2.5	1	3.202	Yes	s7172240.chw
8	45.02	410.3	4	1	3.202	Yes	s7172255.chw
9	52.22	497.3	5	1	3.202	Yes	s7172309.chw

CALIBRATION OF COMPONENT Chloride

Method: 07-17-08CAL.mtw
Equation: Q = 0.0154779·A + 0.0686283
RSD: 3.008 %
Correlation coefficient: 0.999797

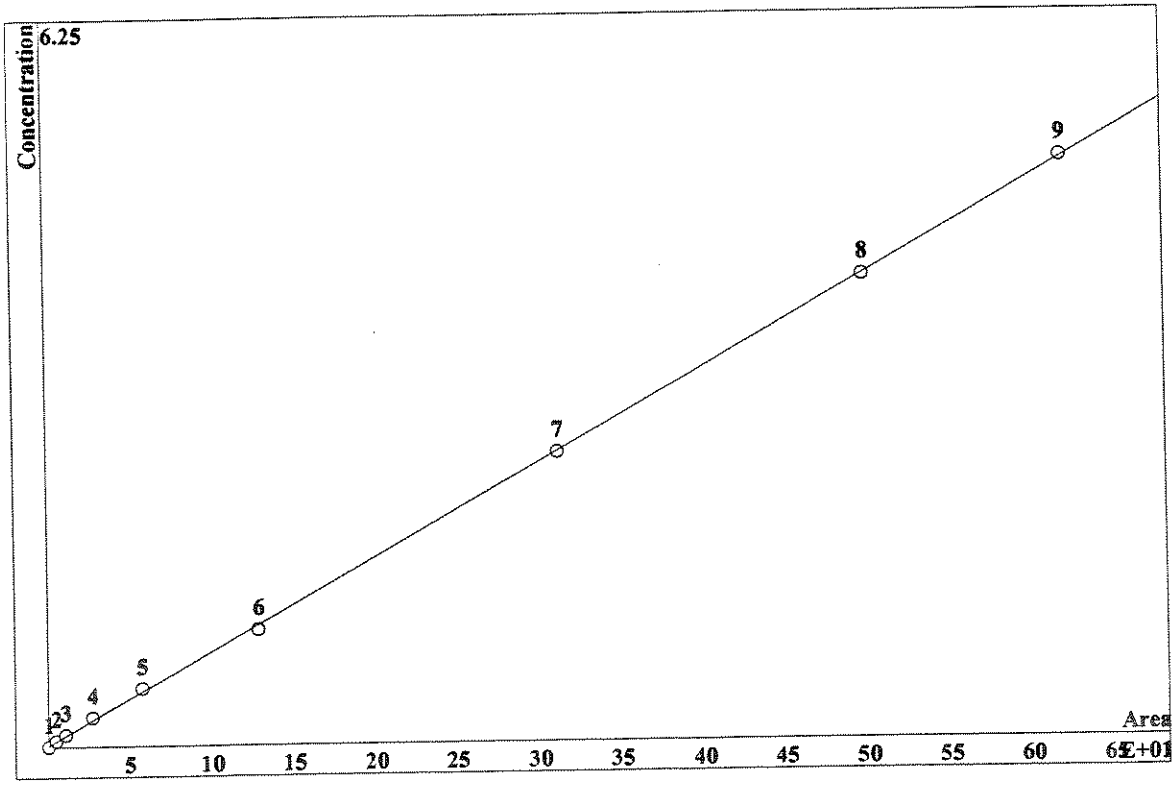


K3 = 0 K2 = 0 K1 = 0.0154779 K0 = 0.0686283
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.001035	0.002151	1e-05	1	4.04	Yes	s7172116.chw
2	0.5372	4.715	0.1	1	4.04	Yes	s7172130.chw
3	1.129	9.762	0.2	1	4.04	Yes	s7172144.chw
4	3.159	26.92	0.5	1	4.04	Yes	s7172158.chw
5	6.862	57.5	1	1	4.04	Yes	s7172212.chw
6	14.3	120.9	2	1	4.04	Yes	s7172226.chw
7	36.36	313.3	5	1	4.04	Yes	s7172240.chw
8	60.26	516.9	8	1	4.04	Yes	s7172255.chw
9	0	0	10	0	0	No	s7172309.chw

CALIBRATION OF COMPONENT Nitrite

Method: 07-17-08CAL.mtw
Equation: Q = 0.00800608·A + 0.0105792
RSD: 1.508 %
Correlation coefficient: 0.999938

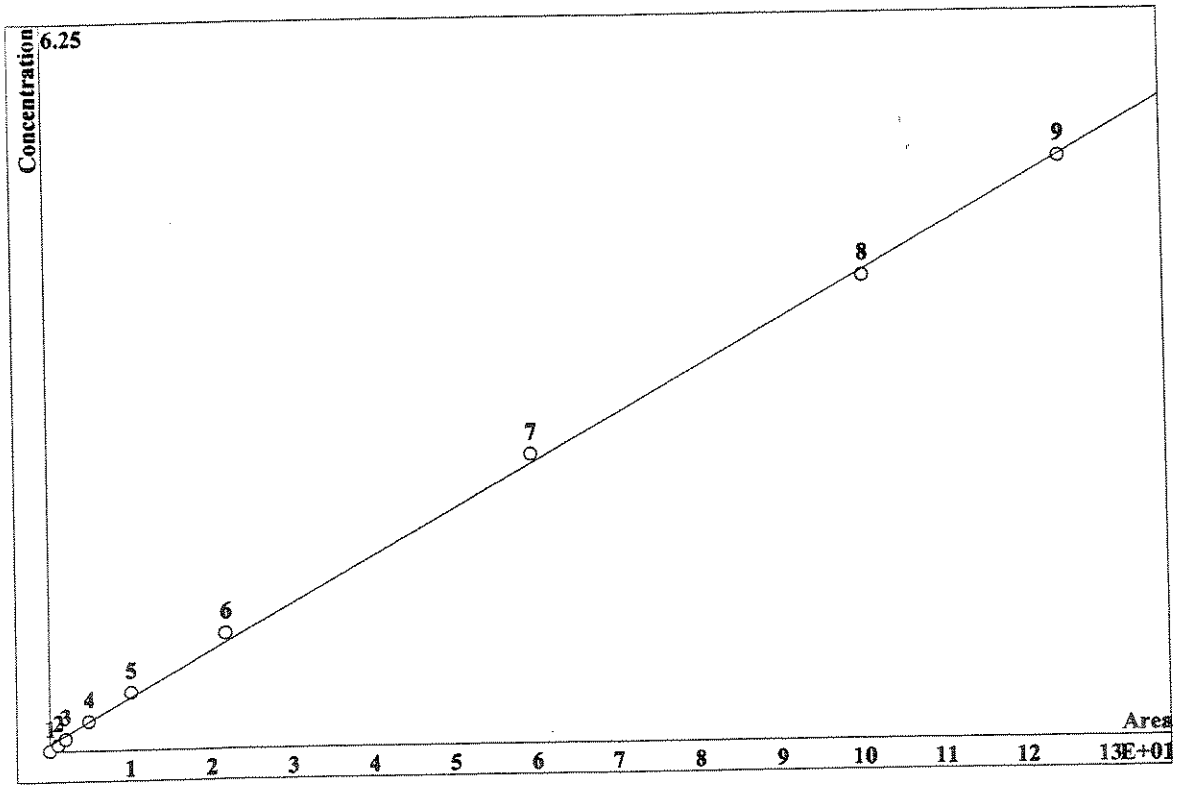


K3 = 0 K2 = 0 K1 = 0.00800608 K0 = 0.0105792
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	-3.667e-05	5e-06	1e-05	1	5.073	Yes	s7172116.chw
2	0.4363	4.687	0.05	1	5.073	Yes	s7172130.chw
3	1.026	10.68	0.1	1	5.073	Yes	s7172144.chw
4	2.687	27.19	0.25	1	5.073	Yes	s7172158.chw
5	5.703	57.85	0.5	1	5.073	Yes	s7172212.chw
6	12.2	128.8	1	1	5.073	Yes	s7172226.chw
7	27.14	312.2	2.5	1	5.073	Yes	s7172240.chw
8	41.27	499.5	4	1	5.073	Yes	s7172255.chw
9	50.11	621	5	1	5.073	Yes	s7172309.chw

CALIBRATION OF COMPONENT Bromide

Method: 07-17-08CAL.mtw
Equation: Q = 0.0396699·A + 0.0568244
RSD: 3.890 %
Correlation coefficient: 0.999590

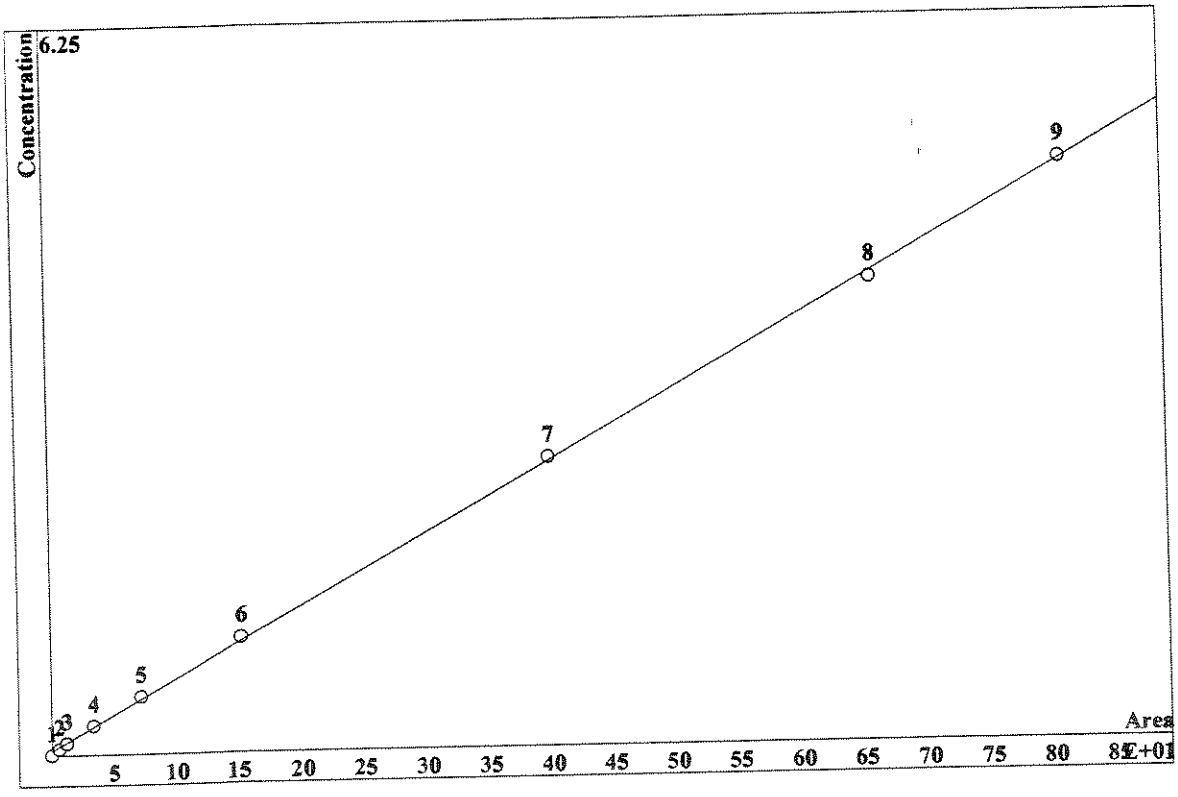


K3 = 0 K2 = 0 K1 = 0.0396699 K0 = 0.0568244
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	-1e-05	3e-06	1e-05	1	6.08	Yes	s7172116.chw
2	0.07658	1.018	0.05	1	6.08	Yes	s7172130.chw
3	0.1512	1.918	0.1	1	6.08	Yes	s7172144.chw
4	0.3975	4.83	0.25	1	6.08	Yes	s7172158.chw
5	0.8655	10.15	0.5	1	6.08	Yes	s7172212.chw
6	1.878	21.79	1	1	6.08	Yes	s7172226.chw
7	4.914	59.56	2.5	1	6.08	Yes	s7172240.chw
8	7.741	100.6	4	1	6.08	Yes	s7172255.chw
9	9.138	125	5	1	6.08	Yes	s7172309.chw

CALIBRATION OF COMPONENT Nitrate

Method: 07-17-08CAL.mtw
Equation: Q = 0.0060944·A + 0.0360326
RSD: 2.205 %
Correlation coefficient: 0.999868

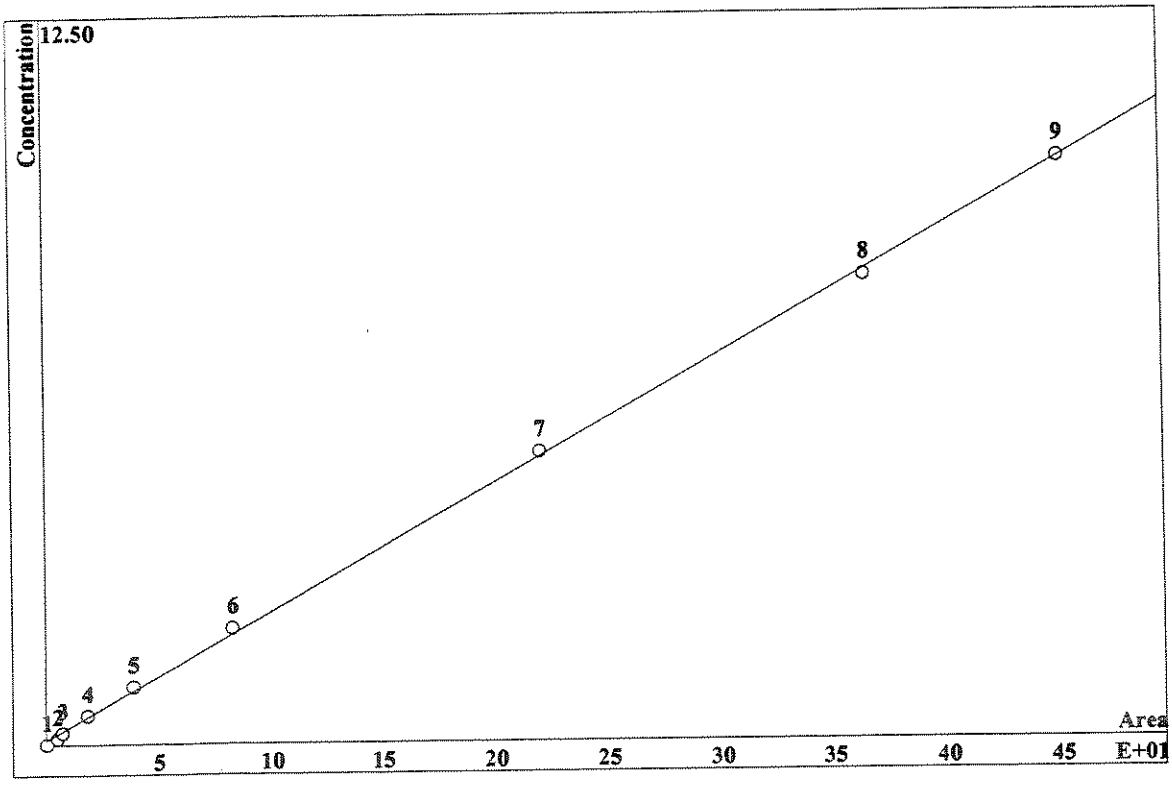


K3 = 0 K2 = 0 K1 = 0.0060944 K0 = 0.0360326
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	3.333e-06	-1e-05	1e-05	1	6.975	Yes	s7172116.chw
2	0.4237	5.725	0.05	1	6.975	Yes	s7172130.chw
3	0.9124	12.03	0.1	1	6.975	Yes	s7172144.chw
4	2.61	33.46	0.25	1	6.975	Yes	s7172158.chw
5	5.682	72.07	0.5	1	6.975	Yes	s7172212.chw
6	11.93	152.8	1	1	6.975	Yes	s7172226.chw
7	30.39	398.9	2.5	1	6.975	Yes	s7172240.chw
8	49.55	658.8	4	1	6.975	Yes	s7172255.chw
9	60.2	811.8	5	1	6.975	Yes	s7172309.chw

CALIBRATION OF COMPONENT Sulfate

Method: 07-17-08CAL.mtw
Equation: Q = 0.0220132·A + 0.0753373
RSD: 2.789 %
Correlation coefficient: 0.999789



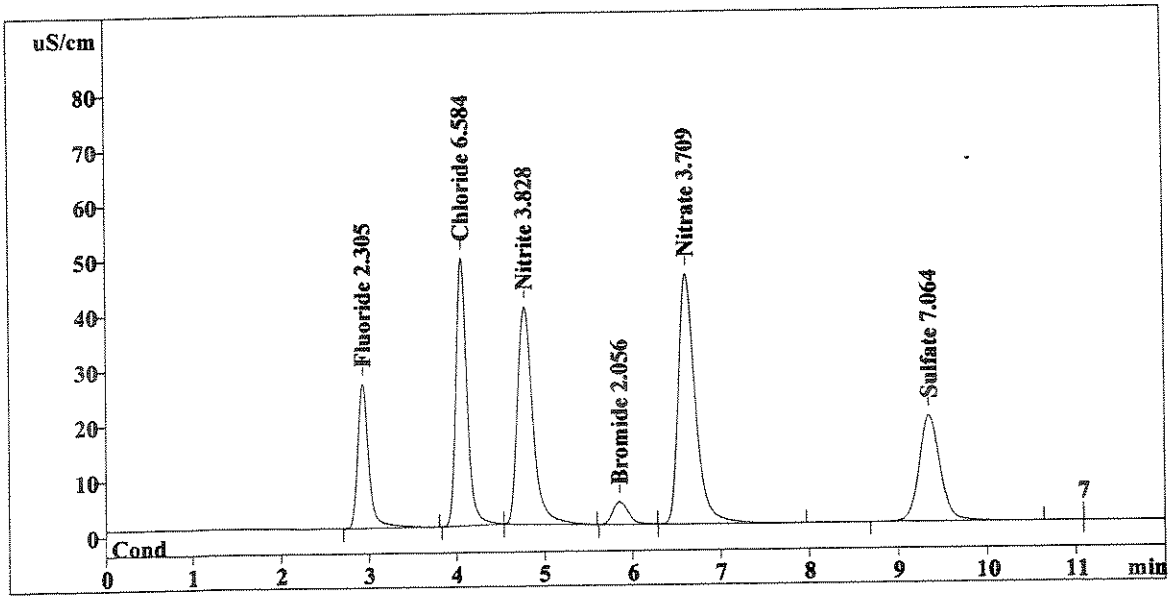
K3 = 0 K2 = 0 K1 = 0.0220132 K0 = 0.0753373
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0.02154	0.3699	1e-05	1	9.513	Yes	s7172116.chw
2	0.2898	4.991	0.1	1	9.513	Yes	s7172130.chw
3	0.4107	7.11	0.2	1	9.513	Yes	s7172144.chw
4	1.098	18.3	0.5	1	9.513	Yes	s7172158.chw
5	2.367	38.7	1	1	9.513	Yes	s7172212.chw
6	5.053	82.55	2	1	9.513	Yes	s7172226.chw
7	13.34	220	5	1	9.513	Yes	s7172240.chw
8	22.07	364.3	8	1	9.513	Yes	s7172255.chw
9	27.16	450.4	10	1	9.513	Yes	s7172309.chw

Ion Chromatography Analytical Report — Method 300.0/9056

Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:56:54	
Printed by:	User	
Ident:	ICV	
Analysis from:	7/17/2008 23:23:16	
File:	s7172323.chw	Last save: 7/22/2008 15:55:53
Method:	07-17-08CAL.mtw	Last save: 7/17/2008 20:55:39
Run operator:	User	
Analysis number:	38464	
SAMPLE:		
Vial number:	134	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3	
Flow:	0.70 mL/min	
Temperature:	20.0°C	
Pressure:	5.8 MPa	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec		Conc. mg/L		Name
1	2.92	233.932	OUT HIGH	2.305		Fluoride
2	4.06	420.952	OK	6.584		Chloride
3	4.77	476.801		3.828		Nitrite
4	5.85	50.393		2.056		Bromide
5	6.61	602.671		3.709		Nitrate
6	9.35	317.477		7.064	110%	Sulfate
6	12.00	2102.226		25.546		

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:57:00
Printed by:	User
Ident:	ICB
Analysis from:	7/17/2008 23:37:22
File:	s7172337.chw

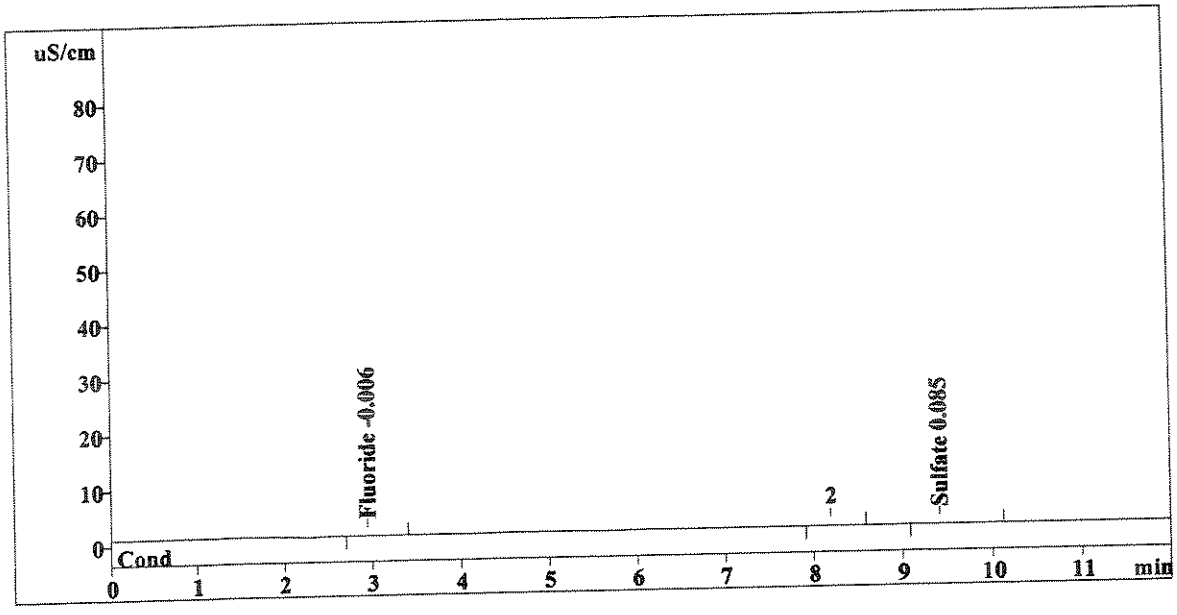
Last save: 7/22/2008 15:55:54

Method:	07-17-08CAL.mtw
Run operator:	User
Analysis number:	38465
SAMPLE:	
Vial number:	135
Volume:	1.0 µL
Dilution:	1.00
Amount:	1.0000

Last save: 7/17/2008 20:55:39

ELUENT: 3.2 mM Na2CO3 / 1.0 mM NaHCO3

Flow:	0.70 mL/min
Temperature:	20.0°C
Pressure:	5.8 MPa



Quantitation method: Custom

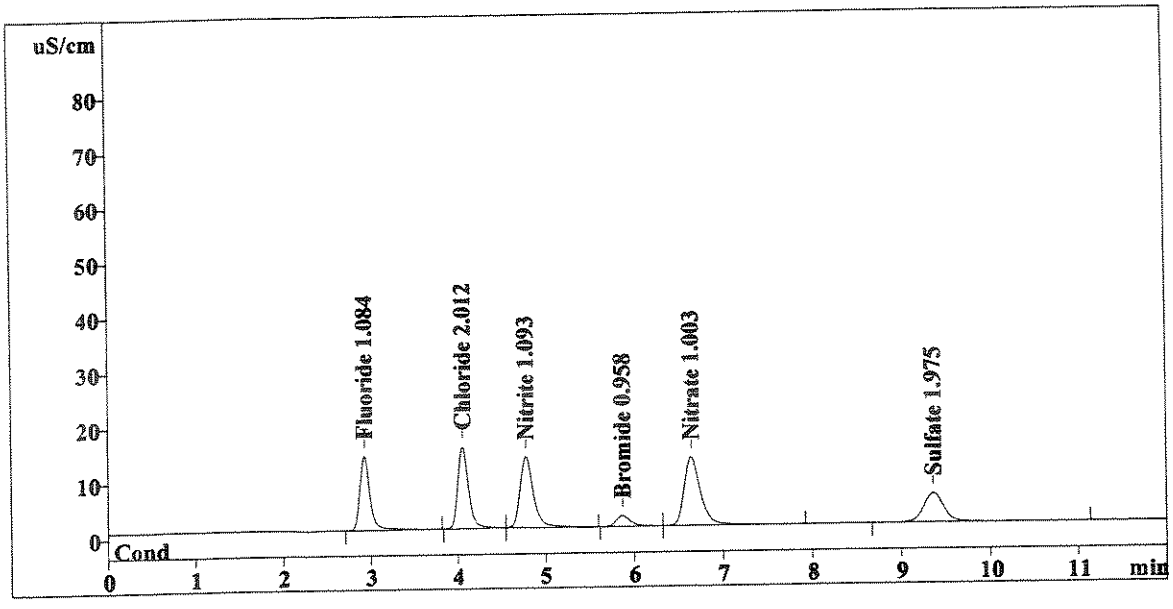
No	Retention min	Area uS/cm*sec		Conc. mg/L	Name
1	2.95	0.208	OK	-0.006	Fluoride
2	0.00	0.000		0.000	Chloride
3	0.00	0.000		0.000	Nitrite
4	0.00	0.000		0.000	Bromide
5	0.00	0.000		0.000	Nitrate
6	9.40	0.451		0.085	Sulfate
6	12.00	0.659		0.091	

7/22/08

This report has been created by IC Net
METROHM LTD

Ion Chromatography Analytical Report Method 300.0/9056
Columbia Analytical Services
Rochester, NY 14609

Report date:	7/22/2008 15:57:04	
Printed by:	User	
Ident:	LCS	
Analysis from:	7/17/2008 23:51:28	
File:	s7172351.chw	Last save: 7/22/2008 15:55:54
Method:	07-17-08CAL.mtw	Last save: 7/17/2008 20:55:39
Run operator:	User	
Analysis number:	38466	
SAMPLE:		
Vial number:	136	
Volume:	1.0 µL	
Dilution:	1.00	
Amount:	1.0000	
ELUENT:	3.2 mM Na2CO3 / 1.0 mM NaHCO3	
Flow:	0.70 mL/min	
Temperature:	20.0°C	
Pressure:	5.8 MPa	



Quantitation method: Custom

No	Retention min	Area uS/cm*sec	Conc. mg/L	Name
1	2.92	110.479	1.084	Fluoride
2	4.06	125.580	2.012	Chloride
3	4.78	135.253	1.093	Nitrite
4	5.87	22.722	0.958	Bromide
5	6.64	158.641	1.003	Nitrate
6	9.36	86.277	1.975	Sulfate
6	12.00	638.951	8.126	

OK

7/22/08

This report has been created by IC Net
METROHM LTD

Columbia Analytical Services – Rochester, New York

Ion Chromatography Cover Sheet

Instrument: Metrohm IC 861

Column: Metrosep A Supp 5, 4mm, 12/31/2007

Curve Date: 07/17/2008 **Loop size:** 50 uL Loop

Analyst: C. Woods **Analysis Date:** 7-17-08

Is copy of LCS attached to run? (YES) / NO

Standards Prep Dates & Log ID's:

Std Type	*Prep Date*	*Log ID*		*Std Type*	*Prep Date*	*Log ID*
Calibration Intermediate	07/14/08	WC90011A		Working Calibration Stds	07/14/08	WC90011H
LCS / MS Intermediate	07/14/08	WC90011A		Working LCS/MS Standard	07/14/08	WC90051A
ICV Intermediate	06/23/08	WC90100A		Working ICV Standard	DAILY	WC90100H
CCV Intermediate	06/23/08	WC90100A		Working CCV Standard	DAILY	WC90100H

Comments:

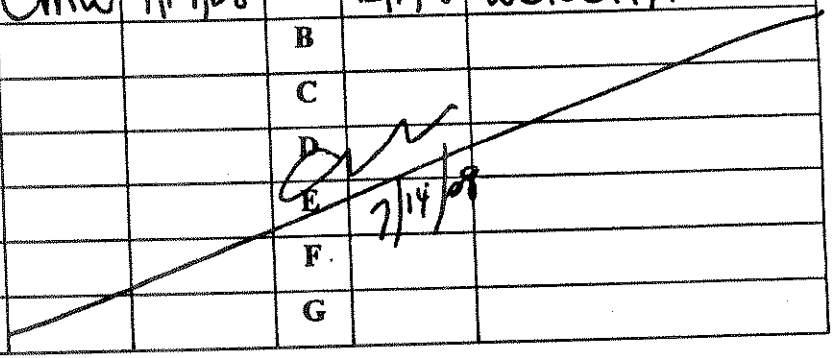
- CALIBRATION EXPIRES 12/10/2008
- CALIBRATION INVALID FOR FLUORIDE (ICV FAIL HIGH)
- CHLORIDE LINEAR RANGE ONLY GOES UP TO 8.0 PPM

CALIBRATION INTERMEDIATE STOCK PREP

(used for Calibration and LCS / MS)

Analyte	1000ppm Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL
F	WC850FF-	1000	10	200
Cl	WC8510GC	1000	20	
NO2	WC72001J	1000	10	
Br	WC85160D	1000	10	
NO3	~~WC72002N~~ WC72002N	1000	10	
OPO4	—	1000	10	
SO4	WC72001Y	1000	20	

Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final Calibration Intermediate Stock ID
50	CMW	7/14/08	A	12/1/08	WC90011A
100			B		
50			C		
50			D		
50			E	7/14/09	
50			F		
100			G		



WORKING CALIBRATION STANDARDS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. Expire after 7 days.)

Std #	Calibration Intermediate Stock ID	mLs Intermediate Stock	Final Vol. mLs
9		10.0	100
8		8.0	
7		~~2.0~~ 5.0 TC 6/22/08	
6		2.0	
5		1.0	
4		0.5	
3		0.2	
2		0.1	
1		0.0	

Final Std Conc.						
F	Cl	NO2	Br	NO3	OPO4	SO4
5.0	10.0	5.0	5.0	5.0	5.0	10.0
4.0	8.0	4.0	4.0	4.0	4.0	8.0
2.5	5.0	2.5	2.5	2.5	2.5	5.0
1.0	2.0	1.0	1.0	1.0	1.0	2.0
0.5	1.0	0.50	0.50	0.50	0.50	1.0
0.25	0.50	0.25	0.25	0.25	0.25	0.50
0.10	0.20	0.10	0.10	0.10	0.10	0.20
0.05	0.10	0.05	0.05	0.05	0.05	0.10
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
CMW	7/14/08	H	7/14/8	WC90011H
		I		
		J		
		K		
		L		
		M		
		N		
		O		
		P		

ICV / CCV INTERMEDIATE STOCK PREP

Analyte	ICV / CCV Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Exp. Date	Final ICV /CCV Intermediate Stock ID
F	WC85037C	1000	4.0	1000	4.0	TC	6/23/08	A	9/25/08	WC90 100 A
Cl	WC85106D	650	20.0		13.0			B		
NO2	WC72007F	180	40.0		7.2			C		
Br	WC85057D	1000	4.0		4.0			D		
NO3	WC72607N	180	40.0		7.2			E		
OPO4	—	180	40.0		7.2			F		
SO4	WC72006Y	3200	4.0		12.8			G		

WORKING ICV / CCV PREP

(A 1:2 dilution of the Reference Intermediate Stock is done daily)

Analyte	ICV / CCV Intermediate Stock ID	Conc. mg/L	mLs Stock	Final Vol. mL	Final Conc. mg/L	Analyst	Date Prepped	Lot ID	Final Working ICV / CCV ID
F	WC90 100 A	4.0	5.0	20.0	1.0	TC	*DAILY*	H	WC90 100 H
Cl		13.0			3.25				
NO2		7.2			3.6				
Br		4.0			2.0				
NO3		7.2			3.6				
OPO4		7.2			3.6				
SO4		12.8			6.4				

WORKING LCS PREP

(Stocks delivered using Volumetric glassware and brought to volume with DI. LCS expires after 7 days.)

(MS prepared fresh daily using same volume of intermediate stock added to 100mls sample. MS not prepared volumetrically.)

Analyte	Calibration Intermediate Stock ID	Intermediate Stock Conc (mg/L)	mLs Intermediate Stock	Final Vol. mLs	Final Conc. (mg/L)	Analyst	Date Prepped	Lot ID	Exp. Date	Final Log ID
F	WC900118	50	2.0	100	1.0	CMW	7/14/08	A	7/21/08	WC900518
Cl		100			2.0			B		
NO2		50			1.0			C		
Br		50			1.0			D		
NO3		50			1.0			E		
OPO4		50			1.0			F		
SO4		100			2.0			G		
								H		
								I		
								J		
								K		
								L		
								M		
								N		
								O		
								P		
								Q		
								R		

R44803
1 copy

Run #: 163403
Analyte: MBAS SM5540C SURFACTANTS
Printed: 07/03/08 14:04

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	1.71		5.0	0.0200			07/02/08		ASPB
ESMP	R2844803	1114420	WATER	1.56		5.0	0.0200			07/02/08		ASPB
ESMP	R2844803	1114421	WATER	1.98		10.0	0.0200			07/02/08	QC	ASPB
LDUP		1114660	WATER	1.88		10.0	0.0200		5.32	07/02/08		
SPK1		1114661	WATER	2.13		10.0	0.0200	73.4		07/02/08		
BLK2		1114662	WATER	0.0200	U	1.0	0.0200			07/02/08		
SPKB		1114663	WATER	0.0211		1.0	0.0200	105.5		07/02/08		
SPKB		1114773	WATER	0.402		1.0	0.0200	100.6		07/02/08		

Records printed: 8

Reviewed & Approved
By: CH
Date: 7/8/08

ANALYTE:G:\STARLIMS\ASBAR.RP1
Page 1

Analyte: Surfactants (MBAs)
Method: EPA 425.1 / SM20 5540C

Analyst: DCB
Pipette: Vol.

Date: 7/2/08
Time: 10:45

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
C.C = 0.999428
y-int. = -0.003118
Slope: 1.002064

	Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result mg/L
1		ICV		0.305	0.3075		102.5%
2		ICB/PB	500.000	0.000	0.0031	1.0	0.0031
3		CCV	500.000	0.290	0.2925	1.0	0.2925
4		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
5		LCS-LL	500.000	0.018	0.0211	1.0	0.0211
6		LCS-HL	500.000	0.400	0.4023	1.0	0.4023
7	R-44803	1114421	500.000	0.195	0.1977	10.0	1.9771
8		1114421D	500.000	0.185	0.1877	10.0	1.8773
9		1114421S	500.000	0.210	0.2127	10.0	2.1268
10		1114420	500.000	0.310	0.3125	5.0	1.5624
11		1114419	500.000	0.340	0.3424	5.0	1.7121
12		CCV	500.000	0.300	0.3025	1.0	0.3025
13		CCB/PB	500.000	0.000	0.0031	1.0	0.0031
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

7/3/08
DCB

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Columbia Analytical Services
1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: DCB Date: 7/2/08

Analysis: MBAS (Surfactants) Instrument: Milton Roy Spec 21

Quality Control: Curve Date: 06/16/08

	Same as Log Book #	Same as Log Book Date	Stocks Prep. Log#, Date,	Stock Sol (mls)	Stock Sol (mg/L)	Final Vol (mls)	True Value (mg/L)
a) Standards Prep:	WC85166A	6/20/08	WC85110C,2/13/08				
b) I/CCV Prep:	WC85166B	6/20/08	WC85046E, 10/1/07	150	1	500	0.3
c) LCS-LL Prep:	WC85166C	6/20/08	WC85110C,2/13/08	10	1	500	0.02
c) LCS-HL Prep:	WC85166D	6/20/08	WC85110C,2/13/08	200	1	500	0.4

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

111419, 111420, 111421 Qc > Sample were diluted at Spec

~~Matrix spike spiked into LCS LL (True value : 0.02 mg/L)~~ 7/3/08

Matrix spike is 100ml of 1ppm LAS Reference Std giving a spike of 0.2

Surfactants - Curve analyzed on 6/16/08

CMW 6/20/08

(A) Standards

#	mLs 1ppm Std	mLs DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	~~150~~ 125	375	0.25
10	150	350	0.30
11	200	300	0 40

(B) I/CCV

- Add 150mLs of 1ppm LAS reference to sep. funnel + add 350mLs DI. Analyze. Prepare fresh each run. True Value = ~~3.0~~ 0.3 ppm. 7/14/08 DCS

(C) LCS - Low Level

- Add 10mLs of 1ppm LAS Standard to sep. funnel + add 490mLs DI. Analyze. Prepare fresh each run. True Value = 0.02ppm.

(D) LCS - high level

- Add 200mLs of 1ppm LAS Standard to sep. funnel + add 300mLs DI. Analyze. Prepare fresh each run. True Value = 0.40ppm.

For this cal, the following solutions were used:
1ppm Standard: WC85160A
1ppm Reference: WC85160B

9/26/07 TC

(A) LCS/MS for AVS

To 10.0 g Ottawa Sand or Sample add
— 1 mls sulfide working Std (working std) for MS
— 2 mls sulfide ~~Reference~~ working std (working std) for LCS

(B) CCV for AVS
use the 4 mL cal. std. from WC85045D.

(C) CCB for AVS
use the 0.00 Cal. Std. from WC85045D.

10/11/07 GN

(D) TKN DIGEST REAGENT
— same as WC85040E. Exp. 1 month 11/01/07

10/1/07

~~(X)~~ Received from VWR
(E) (1) x 120mL Linear Alkybenzene Sulfonate (LAS)
Cat. no. 4350-4 RICCA Lot # 2709220
CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07 RP

(F) TSS Reference
0.2270g Kaolin (WC69285G) brought to 1000g w/ DI. Stored @ 4°C in plastic bottle.
TV = 227 mg/L exp 10/1/08

10/1/07 BB

Received from VWR.

(G) · (2) x 125g Ascorbic Acid, Cat # 0938-05, JT Baker Lot # E22615, CAS # 50-81-7. Store @ RT. Expires 10/1/10

(H) · (1) x 125g Potassium Iodide, Cat # PX1505-3, EMD Lot # 46285714, CAS # 7681-11-0. Store @ R.T. Expires 10/1/10.

(I) · (1) x 500mL Phenol liquified, Cat # PX0511-1, EMD Lot # 46318, CAS # 108-95-2. Store in flammable cabinet. Expires 10/1/10

(J) · (1) x 500mL Calcium Standard, 1 mL = 1 mg $CaCO_3$. Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C. Expires 3/31/08

(K) · (1) x 500g Sodium Acetate Trihydrate, Cat # 7610, EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T. Expires 10/1/10

10/1/07 AB

Received
(A) · (1) BDH fla

Received
(B) · (1) x Fisher Expir

Received
(C) · (3) x Cat # Lam Expir

10/2/07 NM

(D) Post-
To a (WC85
thoroug to volu amber g

(E) Hypoch
- same

(F) C.S M
- same

10/2/07

(H) Alkalinity
10 c.ml
with DI

10/2/07 AB

(I) FAS Th
Same s

(S) 0.00 Std
same

2/13/08 BB — Received from VWR

(A) (1) x 4L Sulfuric Acid, 0.02000N, Cat# VW3299-4, VWR Lot # 7312, CAS # 7664-93-9. Store @ R.T. Expires 11/30/08

(B) (1) x 1L Silica Standard, 10 mg/L, Cat # VW3618-1, VWR Lot # 7338, CAS # 6834-92-0. Store @ R.T. Expires 8/5/08

(C) (1 x 120mL Linear Alkylbenzene Sulfonate (LAS) Standard, 1000 mg/L. Cat # 4350-4, RICCA Lot # 1710411, CAS #s 68411-30-3, 7664-93-9. Store @ 4°C. Expires 10/2008.

KR 2/14/08 — (D) TSS Reference

0.2153g Kaolin (WC692856) brought to 1000g w/ DI. Store at 4°C in a plastic bottle.
TV = 215 mg/L exp: 02/14/2009

2/14/08 Nm — (E) Sodium Phenolate - NH3

-same as WC85088F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

-same as WC85090I. Exp. 3/14/08.

(G) Buffer - TKN

-same as WC85088E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1liter amber glass jar add:
- 75.0g Sodium Salicylate (WC85079B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UPDI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3

-same as WC85105C, Exp. 1 year, 2/14/09.

(J) Buffer - NH3

-same as WC85094B. Exp. 1 year, 2/14/09

2/14/08 TC — (A) TKN 1

~~To a 1~~
To a 2
- 26.8g
- 14.6g
to ~50C
Slowly
Dissolve
to vol.

2/14/08 RP — (B) Rec'd 1

(1) x 100 p
CAS # 65
Rec'd
exp.

KR 02/14/08 — (C) TSS Ref

0.3003
with T

2/15/08 Nm — (D) Post-T

To a
(WC85111
Pour off 10
mix thoro

(E) Hypochl

15.0 mLs
Prepare

2/19/08 Nm — (F) NH3 (

-same as

(G) Hypochlo

-same a

R44797
R44803
2 copies

Run #: 163404
Analyte: MBAS SM5540C SURFACTANTS
Printed: 07/03/08 14:11

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		1114779	SOIL/SEDIME	0.810		10.0	0.200			07/03/08		
ESMP	R2844797	1114366	SOIL/SEDIME	~~0.810~~ 1.81		10.0	0.200			07/03/08		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	~~1.81~~ 3.80		10.0	0.200			07/03/08		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	~~3.80~~ 0.311		10.0	0.200			07/03/08		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	0.810		10.0	0.200			07/03/08	QC	ASPB
LDUP		1114774	SOIL/SEDIME	0.810		10.0	0.200			07/03/08		
SPK1		1114775	SOIL/SEDIME	20.3		10.0	0.200	97.3		07/03/08		
ESMP	R2844797	1114382	SOIL/SEDIME	0.311		10.0	0.200			07/03/08		ASPB
ESMP	R2844803	1114756	WATER	1.01		5.0	0.0200			07/03/08		ASPB
ESMP	R2844803	1114758	WATER	0.0200	U	1.0	0.0200			07/03/08		ASPB
BLK2		1114776	WATER	0.0200	U	1.0	0.0200			07/03/08		
SPKB		1114777	WATER	0.0231		1.0	0.0200	115.5		07/03/08		
SPKB		1114778	WATER	0.402		1.0	0.0200	100.6		07/03/08		

Records printed: 13

Reviewed & Approved
By: CK
Date: 7/8/08

Analyte: Surfactants (MBAs)
Method: EPA 425.1 / SM20 5540C

Analyst: DCB
Pipette: VDL

Date: 7/3/08
Time: 7:45

Calibration:

Std	Conc.	Absorb.	Result	% Rec
1	0.00	0.000	0.00311	
2	0.02	0.021	0.02407	120.3%
3	0.04	0.038	0.04103	102.6%
4	0.06	0.056	0.05900	98.3%
5	0.08	0.076	0.07896	98.7%
6	0.10	0.092	0.09492	94.9%
7	0.15	0.140	0.14282	95.2%
8	0.20	0.195	0.19771	98.9%
9	0.25	0.251	0.25359	101.4%
10	0.30	0.305	0.30748	102.5%
11	0.40	0.395	0.39730	99.3%

Curve Date: 6/16/08
C.C = 0.999428
y-int. = -0.003118
Slope: 1.002064

	Submission #	Order #	Sample Vol. (mLs)	Absorbance @ 652 nm	MBAs mg/L	Dilution	Final Result mg/L	
1		ICV		0.305	0.3075		102.5%	
2		ICB/PB	500.000	0.000	0.0031	1.0	0.0031	
3		CCV	500.000	0.295	0.2975	1.0	0.2975	
4		CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
5		LCS-LL	500.000	0.020	0.0231	1.0	0.0231	
6		LCS-HL	500.000	0.400	0.4023	1.0	0.4023	
7		M BLK	500.000	0.005	0.0081	10.0	0.0810	x250÷25=0.8
8	R-44797	1114366	500.000	0.015	0.0181	10.0	0.1808	x250÷25=1.81
9		1114376	500.000	0.035	0.0380	10.0	0.3804	x250÷25=3.8
10		1114379	500.000	0.000	0.0031	10.0	0.0311	x250÷25=.31
11		1117380	500.000	0.005	0.0081	10.0	0.0810	x250÷25=0.8
12		1117380D	500.000	0.005	0.0081	10.0	0.0810	x250÷25=0.8
13		1114380S	500.000	0.200	0.2027	10.0	2.0270	x250÷25=20.2
14		CCV	500.000	0.295	0.2975	1.0	0.2975	
15		CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
16		1114382	500.000	0.000	0.0031	10.0	0.0311	x250÷25=0.3
17	R-44803	1114756	500.000	0.200	0.2027	5.0	1.0135	
18		1114758	500.000	0.000	0.0031	1.0	0.0031	
19		CCV	500.000	0.295	0.2975	1.0	0.2975	
20		CCB/PB	500.000	0.000	0.0031	1.0	0.0031	
21								
22								
23								
24				7/3/08 DCB				
25								
26								
27								
28								

MBAs, mg/L = Conc. (mg/L) x Dil'n x 500 mL

Columbia Analytical Services
1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: DCB Date: 7/3/08

Analysis: MBAS (Surfactants) Instrument: Milton Roy Spec 21

Quality Control: Curve Date: 06/16/08

	Same as Log Book #	Same as Log Book Date	Stocks Prep. Log#, Date,	Stock Sol (mls)	Stock Sol (mg/L)	Final Vol (mls)	True Value (mg/L)
a) Standards Prep:	WC85166A	6/20/08	WC85110C,2/13/08				
b) I/CCV Prep:	WC85166B	6/20/08	WC85046E, 10/1/07	150	1	500	0.3
c) LCS-LL Prep:	WC85166C	6/20/08	WC85110C,2/13/08	10	1	500	0.02
c) LCS-HL Prep:	WC85166D	6/20/08	WC85110C,2/13/08	200	1	500	0.4

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

R-44797 diluted 50 mls to 500 mls at extraction

1114758 diluted 1/5 at spec

matrix spike is 100ml of 1ppm LAS Reference std given a spike of 0.2

Surfactants - Curve analyzed on 6/16/08

CMW 6/20/08

(A) Standards

#	mLs 1ppm Std	mLs DI	Conc. (ppm)
1	0	500	0.00
2	10	490	0.02
3	20	480	0.04
4	30	470	0.06
5	40	460	0.08
6	50	450	0.10
7	75	425	0.15
8	100	400	0.20
9	~~150~~ 125	375	0.25
10	150	350	0.30
11	200	300	0.40

(B) I/CCV

- Add 150mLs of 1ppm LAS reference to sep. funnel + add 350mLs DI. Analyze. Prepare fresh each run. True Value = 3.0ppm.

0.3 7/14/08 DAS

(C) LCS - Low Level

- Add 10mLs of 1ppm LAS Standard to sep. funnel + add 490mLs DI. Analyze. Prepare fresh each run. True Value = 0.02ppm.

(D) LCS - high level

- Add 200mLs of 1ppm LAS Standard to sep. funnel + add 300mLs DI. Analyze. Prepare fresh each run. True Value = 0.40ppm

For this cal, the following solutions were used:
1ppm Standard: WC85160A
1ppm Reference: WC85160B

9/28/07 TC

(A) LCS/MS for AVS

To 10.0 g Ottawa Sand or Sample add
— 1 mls Sulfide working Std (WC855045D) for MS
— 2 mls Sulfide working Std (WC855045D) for LCS

(B) CCV for AVS
use the 4 mL Cal. Std. from WC855045D.

(C) CCB for AVS
use the 0.00 Cal. Std. from WC855045D.

10/01/07 GN

(D) TKN DIGEST REAGENT
— same as WC855040E. Exp. 1 month 11/01/07

10/1/07

(E) Received from VWR
(1) x 120 mL Linear Alkybenzene Sulfonate (LAS)
Cat. no. 4350-4 RICCA Lot # 2709220
CAS no 7664-93-9 Store @ 4°C exp 9/08

10/1/07 RP

(F) TSS Reference
0.2270g Kaolin (WC69285G) brought to 1000g w/ DI. Stored @ 4°C in plastic bottle.
TV = 227 mg/L exp 10/1/08

10/1/07 BB

Received from VWR

(G) · (2) x 125g Acetic Acid, Cat # 0938-05, JT Baker Lot # E22615, CAS # 50-81-7. Store @ RT. Expires 10/1/10

(H) · (1) x 125g Potassium Iodide, Cat # PX1505-3, EMD Lot # 46285714, CAS # 7681-11-0. Store @ RT. Expires 10/1/10.

(I) · (1) x 500 mL Phenol Liquified, Cat # PX0511-1, EMD Lot # 46318, CAS # 108-95-2. Store in flammable Cabinet. Expires 10/1/10

(J) · (1) x 500mL Calcium Standard, 1 mL = 1 mg $CaCO_3$. Cat # VW3395-2, VWR Lot # 7064. Store @ 4°C. Expires 3/31/08

(K) · (1) x 500g Sodium Acetate Trihydrate, Cat # 7610, EMD Lot # 1106B043, CAS # 6131-90-4. Store @ R.T. Expires 10/1/10

10/1/07 AB

Received
(A) · (1) 8DH fla

Received
(B) · (1) x Fisher Expi

Received
(C) · (3) x Cat # Same Expi

10/2/07 NM

(D) Post-
To a (WC55
thoroug
to volu
amber g

(E) Hypoch
- same

(F) 0.8 M
- same

10/2/07

(H) Alkalinity
10 mL
with DI

10/2/07 AB

(I) FAS Ti
Same a

(J) 0.00
same

2/13/08 BB **Received from VWR**

(A) (1) x 4L Sulfuric Acid, 0.02000N, Cat# VW3299-4, VWR Lot # 7312, CAS # 7664-93-9. Store @ R.T. Expires 11/30/08

(B) (1) x 1 L Silica Standard, 10 mg/L, Cat # VW3618-1, VWR Lot # 7338, CAS # 6834-92-0. Store @ R.T. Expires 8/5/08

(C) (1 x 120mL Linear Alkylbenzene Sulfonate (LAS) Standard, 1000 mg/L. Cat # 4350-4, RICCA Lot # 1710411, CAS #s 68411-30-3, 7664-93-9. Store @ 4°C. Expires 10/2008.

KR 2/14/08 (D) **TSS Reference**

0.2153g Kaolin (WC-692856) brought to 1000g w/ DI. Store at 4°C in a plastic bottle.

TV = 215 mg/L exp: 02/14/2009

2/14/08 NM (E) **Sodium Phenolate - NH3**

-same as WC85088F. Exp. 1 year, 2/14/09.

(F) **0.8M NaOH - TKN**

-same as WC85090I. Exp. 3/14/08.

(G) **Buffer - TKN**

-same as WC85088E. Exp. 1 month, 3/14/08

(H) **Color Reagent - TKN**

To a tared 1liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85079B)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UP DI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) **Color Reagent - NH3**

-same as WC85105C, Exp. 1 year, 2/14/09.

(J) **Buffer - NH3**

-same as WC85094B. Exp. 1 year, 2/14/09

2/14/08 TC (A) **TKN I**

To a 2
- 268g
- 14.6g
to ~500
Slowly
Dissolv
to vol.

2/14/08 RP (B) **Rec'd I**

(1) x 100 p
CAS # 65
Rec'd
exp.

KR 02/14/08 (C) **TSS Ref**

0.3003
with T

2/15/08 NM (D) **Post-T**

To a
(WC85111
Pour off 10
mix thoro

(E) **Hypochl**

15.0 mLs
Prepare

2/19/08 NM (F) **NH3**

-same as

(G) **Hypochl**

-same

Run #: 163460
Analyte: ALK SM2320B ALKALINITY, TOTAL
Printed: 07/10/08 15:19

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1116482	WATER	48.4		1.0	2.00	96.8		07/07/2008		
BLK1		1116483	WATER	0.100		1.0	2.00			07/07/2008		
SPKB		1116484	WATER	19.2		1.0	2.00	96.0		07/07/2008		
ESMP	R2844768	1113695	WATER	128		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113696	WATER	80.0		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113697	WATER	120		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113698	WATER	107		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113699	WATER	~~100~~ 104 CE 7/15/08		1.0	2.00			07/07/2008		ASPB
BLK5		1116485	SOIL/SEDIME	~~1.00~~ ~~10.0~~ 200U CE 7/15/08		1.0	200			07/07/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	364		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	2440		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	400		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	141		1.0	200			07/07/2008	QC	ASPB
LDUP		1116486	SOIL/SEDIME	138		1.0	200		2.15	07/07/2008		
SPK1		1116487	SOIL/SEDIME	230		1.0	200	91.0 ~~230.0~~ KCA 7/11/08		07/07/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	505		1.0	200			07/07/2008		ASPB
ESMP	R2844803	1114419	WATER	153		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114420	WATER	152		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114421	WATER	168		1.0	2.00			07/07/2008	QC	ASPB
LDUP		1116488	WATER	168		1.0	2.00		0.24	07/07/2008		
SPK1		1116489	WATER	246		1.0	2.00	97.5		07/07/2008		
ESMP	R2844803	1114756	WATER	120		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114758	WATER	2.00	U	1.0	2.00			07/07/2008		ASPB

Records printed: 23

Run #: 163458
Analyte: BICARB SM2320B ALKALINITY, BICARBONATE
Printed: 07/10/08 15:09

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1116469	WATER	48.4		1.0	2.00	96.8		07/07/2008		
BLK1		1116470	WATER	0.100		1.0	2.00			07/07/2008		
~~SPKB~~		~~1116471~~	~~WATER~~	~~19.2~~		~~1.0~~	~~2.00~~	~~96.0~~		~~07/07/2008~~		
ESMP	R2844768	1113695	WATER	128		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113696	WATER	80.0		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113697	WATER	120		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113698	WATER	107		1.0	2.00			07/07/2008		ASPB
ESMP	R2844768	1113699	WATER	~~100~~ 104		1.0	2.00			07/07/2008		ASPB
BLK5		1116472	SOIL/SEDIME	~~1.00~~ 200U		1.0	200			07/07/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	287		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	676		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	340		1.0	200			07/07/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	139		1.0	200			07/07/2008	QC	ASPB
LDUP		1116473	SOIL/SEDIME	134		1.0	200		3.66	07/07/2008		
~~SPK1~~		~~1116474~~	~~SOIL/SEDIME~~	~~150~~		~~1.0~~	~~200~~	~~150.0~~		~~07/07/2008~~		
ESMP	R2844797	1114382	SOIL/SEDIME	400		1.0	200			07/07/2008		ASPB
ESMP	R2844803	1114419	WATER	153		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114420	WATER	152		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114421	WATER	168		1.0	2.00			07/07/2008	QC	ASPB
LDUP		1116475	WATER	168		1.0	2.00		0.24	07/07/2008		
~~SPK1~~		~~1116476~~	~~WATER~~	~~246~~		~~1.0~~	~~2.00~~	~~97.5~~		~~07/07/2008~~		
ESMP	R2844803	1114756	WATER	120		1.0	2.00			07/07/2008		ASPB
ESMP	R2844803	1114758	WATER	2.00	U	1.0	2.00			07/07/2008		ASPB

Records printed: 23

Run #: 163459
Analyte: CARBONATE SM2320B ALKALINITY, CARBONATE
Printed: 07/10/08 15:11

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1116477	WATER	48.4		1.0	2.00	96.8		/ / 7/7/08		
BLK1		1116478	WATER	0.100		1.0	2.00			/ /		
~~SPKS~~		1116479	WATER	19.2		1.0	2.00	96.0		/ /		CK 7/15/08
ESMP	R2844768	1113695	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844768	1113696	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844768	1113697	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844768	1113698	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844768	1113699	WATER	2.00	U	1.0	2.00			/ /		ASPB
BLK5		1116490	SOIL/SEDIME	200	U	1.0	200			/ /		
ESMP	R2844797	1114366	SOIL/SEDIME	76.0		1.0	200			/ /		ASPB
ESMP	R2844797	1114376	SOIL/SEDIME	1760		1.0	200			/ /		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	60.0		1.0	200			/ /		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	2.00		1.0	200		1.00	/ /	QC	ASPB
LDUP		1116480	SOIL/SEDIME	4.00		1.0	200		66.67	/ /		
ESMP	R2844797	1114382	SOIL/SEDIME	105		1.0	200			/ /		ASPB
ESMP	R2844803	1114419	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844803	1114420	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844803	1114421	WATER	2.00	U	1.0	2.00			/ /	QC	ASPB
LDUP		1116481	WATER	2.00	U	1.0	2.00			/ /		
ESMP	R2844803	1114756	WATER	2.00	U	1.0	2.00			/ /		ASPB
ESMP	R2844803	1114758	WATER	2.00	U	1.0	2.00			/ /		ASPB

Records printed: 21

Analyte: Alkalinity **Regular Level** X Analyst: KLR Date: 7/7/08

Method: 310.1 / SM20 2320 B **High Level** Pipette: HANS Time: 8:25

Table 403.1 Alkalinaty Relationships

Result of titration	Hydroxide Alkalinaty as CaCO3	Carbonate Alkalinaty as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T- P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinaty

pH meter cal:

		Buffer Lot #:
4.0	4	BDB2674H
7.0	6.98	BDB2680E
10.0	10	BDB2680F

Reagents:	Concentration		Log #	Date
H2SO4:	0.020	N	WC85110A	2/13/08
Reg Level Reference:	50	mg/L	WC85169I	
High Level Reference:	5000	mg/L	WC85157H	
LCS/MS Solution:	1000	mg/L	WC85143D	

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = ($A_{(mL\ acid\ used)}$ x $N_{(H2SO4)}$ x 50,000) /mL samp * Soils - 1g of sample diluted to 100mLs in DI

	Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
1	TV = 50	ICV	25.0	9.48	0.00	1.21						48.4		
2		ICB	100.0	5.25	0.00	0.01						0.1		
3	TV = 20	LCS	100.0	9.97	0.00	1.92						19.2	2.0	
4	44768	R-1113695	25.0	7.71	0.00	3.19	0.00	0.0	0.0	0.0	127.6	127.6		
5		R-1113696	25.0	7.29	0.00	2.00	0.00	0.0	0.0	0.0	80.0	80.0		
6		R-1113697	25.0	7.63	0.00	3.00	0.00	0.0	0.0	0.0	120.0	120.0		
7		R-1113698	25.0	7.63	0.00	2.68	0.00	0.0	0.0	0.0	107.2	107.2		
8		R-1113699	~~25.0~~ 25.0	7.66	0.00	2.61	0.00	0.0	0.0	0.0	~~106.4~~	~~106.4~~ 104.4		
9		MB	100.0	5.64	0.00	0.10	0.00	0.0	0.0	0.0	1.0	1.0		
10	44797	R-1114366	55.0	9.65	0.00	2.00	0.21	3.8	0.0	7.6	28.7	36.4		
11		R-1114376	25.0	10.21	0.00	6.09	2.20	88.0	0.0	176.0	67.6	243.6		
12		R-1114379	50.0	9.14	0.00	2.00	0.15	3.0	0.0	6.0	34.0	40.0		
13		R-1114380	100.0	8.49	0.00	1.41	0.01	0.1	0.0	0.2	13.9	14.1	LL	
14	DUP	R-1114380	100.0	8.65	0.00	1.38	0.02	0.2	0.0	0.4	13.4	13.8	LL	
15	SPK TV = 10	R-1114380	100.0	9.15	0.00	2.30	0.40	4.0	0.0	8.0	15.0	23.0		
16		R-1114382	40.0	9.15	0.00	2.02	0.21	5.3	0.0	10.5	40.0	50.5		
16	TV = 50	CCV	25.0	9.54	0.00	1.28						51.2		
17		CCB	100.0	5.42	0.00	0.05						0.5		
18	44803	R-1114419	25.0	7.37	0.00	3.82	0.00	0.0	0.0	0.0	152.8	152.8		
19		R-1114420	25.0	7.40	0.00	3.81	0.00	0.0	0.0	0.0	152.4	152.4		
20		R-1114421	25.0	7.19	0.00	4.19	0.00	0.0	0.0	0.0	167.6	167.6		
21	DUP	R-1114421	25.0	7.18	0.00	4.21	0.00	0.0	0.0	0.0	168.4	168.4		
22	SPK TV = 80	R-1114421	25.0	8.19	0.00	6.15	0.00	0.0	0.0	0.0	246.0	246.0	2.0	
23		R-1114756	25.0	7.30	0.00	3.00	0.00	0.0	0.0	0.0	120.0	120.0		
24		R-1114758	100.0	5.71	0.00	LL	0.00	0.0	0.0	0.0	0.0	0.0		
25	44305	R-1106642	25.0	7.97	0.00	6.02						240.8		
26		R-1106643	10.0	7.65	0.00	5.02						502.0		
27		R-1106644	15.0	7.62	0.00	5.75						383.3		
28		R-1106645	15.0	7.30	0.00	10.00						666.7		
29		R-1106646	10.0	7.25	0.00	8.02						802.0		
30	TV = 50	CCV	25.0	8.83	0.00	1.20						48.0		
31		CCB	100.0	5.05	0.00	0.02						0.2		
32	TV = 20	LCS	100.0	9.76	0.00	2.02						20.2	2.0	
33	44305	R-1106647	15.0	6.74	0.00	4.39						292.7		

Analyte: Alkalinity **Regular Level** X Analyst: KLR Date: 7/7/08

Method: 310.1 / SM20 2320 B **High Level** Pipette: HANS Time: 8:25

Table 403.1 Alkalinaty Relationships

Result of titration	Hydroxide Alkalinaty as CaCO3	Carbonate Alkalinaty as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T- P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinaty

pH meter cal:

		Buffer Lot #:
4.0	4	BDB2674H
7.0	6.98	BDB2680E
10.0	10	BDB2680F

Reagents:	Concentration		Log #	Date
H2SO4:	0.020	N	WC85110A	2/13/08
Reg Level Reference:	50	mg/L	WC85169I	
High Level Reference:	5000	mg/L	WC85157H	
LCS/MS Solution:	1000	mg/L	WC85143D	

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = ($A_{(mL\ acid\ used)}$ x $N_{(H2SO4)}$ x 50,000) /mL samp * Soils - 1g of sample diluted to 100mLs in DI

	Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.	Vol. Spk 1000ppm (mL)	*Soil (X)
34		R-1106648	20.0	7.44	0.00	2.42						121.0		
35		R-1106649	15.0	7.71	0.00	5.98						398.7		
36		R-1106650	15.0	7.20	0.00	10.00						666.7		
37	44621	R-1111897	25.0	7.98	0.00	2.30						92.0		
38		R-1111898	50.0	7.37	0.00	2.10						42.0		
39		R-1111899	25.0	7.80	0.00	2.90						116.0		
40		R-1111900	100.0	5.38	2.90	LL						-29.0	low level	
41		R-1111983	25.0	8.14	0.00	2.75						110.0		
42	DUP	R-1111983	25.0	8.13	0.00	2.79						111.6		
43	SPK TV = 40	R-1111983	25.0	9.17	0.00	3.70						148.0	1.0	
44		R-1111984	25.0	7.69	0.00	2.39						95.6		
45	TV = 50	CCV	25.0	9.38	0.00	1.25						50.0		
46		CCB	100.0	5.38	0.00	0.05						0.5		
47	44621	R-1111985	25.0	7.85	0.00	3.40						136.0		
48		R-1111986	100.0	5.39	0.00	LL						0.0	low level	
49		R-1111987	100.0	7.05	0.00	LL						0.0	low level	
50		R-1112968	45.0	7.50	0.00	2.22						49.3		
51		R-1112969	25.0	7.82	0.00	2.31						92.4		
52	44734	R-1113042	10.0	7.66	0.00	3.55						355.0		
53		R-1113043	10.0	6.77	0.00	6.00						600.0		
54		R-1113044	50.0	6.57	0.00	2.18						43.6		
55		R-1113045	10.0	7.70	0.00	3.35						335.0		
56		R-1113046	10.0	7.35	0.00	2.95						295.0		
57	DUP	R-1113046	10.0	7.50	0.00	2.90						290.0		
58	SPK TV = 100	R-1113046	10.0	7.95	0.00	3.90						390.0	1.0	
59	TV = 50	CCV	25.0	9.26	0.00	1.28						51.2		
60		CCB	100.0	5.35	0.00	0.08						0.8		
61														
62			KVR											
63			Thu 10X											
64														
65														
66														
67														

Analyte: Alkalinity Low Level
Method: 310.1 / SM20 2320 B

Analyst: KLR Date: 7/7/18
Pipette: HANS Time:

pH meter cal:

		Buffer Lot #:
4.0	4	BDB2674H
7.0	6.98	BDB2680E
10.0	10	BDB2680F

Reagent:

	Concentration		Log #	Date
H2SO4:	0.02	N	WC85110A	2/13/08

Alkalinity, mg CaCO3 /L = $\frac{(2B-C) \times N \times 50{,}000}{\text{mL sample}}$

where:
B = mL standard acid used
C = total ml titrant to reach 0.3 pH units lower

	Submission #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol.@pH 4.5		Vol.@pH -0.3		Total Alkalinity (mg/L)
						Vol.(B)	pH	Vol.(C)	pH	
1	44797	R-1114380	100.0	8.49	0.00	1.41	4.5	1.9	4.2	9.20
2	DUP	R-1114380	100.0	8.65	0.00	1.38	4.45	1.8	4.16	9.60
3	44803	R-1114758	100.0	5.71	0.00	0.2	4.49	0.4	4.2	0.00
4	44621	R-1111900	100.0	5.38	2.90	0.2	4.45	0.38	4.19	0.20
5		R-1111986	100.0	5.39	0.00	0.19	4.45	0.31	4.2	0.70
6		R-1111987	100.0	7.05	0.00	1.4	4.49	1.59	4.18	12.10
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

hla 7/10/18

Columbia Analytical Services
1 Mustard Street, Rochester, NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: KLB Date: 7/7/08

Analysis: X Alkalinity, Regular/Low Level_____ Instrument: X Titration_____

Quality Control:

			Stock Sol	Stock Sol	Final Vol	True Value
	Log Book #	Log Book Date	(mLs)	(mg/L)	(mLs)	(mg/L)
a) Titrant:	WC85110A	2/13/08				
b) I/CCV Preparation:	WC85169I	6/25/08				50
c) LCS Preparation:	WC85143D	4/28/08	2	1000	100	20
d) Matrix Spike Prep.:	WC85143D	4/28/08	See Data Sheet			

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

p:\greg\forms\cover.alk

3/08 BB

Received from VWR

(A) (1) x 4L Sulfuric Acid, 0.02000N, Cat# VW3299-4, VWR Lot # 7312, CAS # 7664-93-9. Store @ R.T. Expires 11/30/08

(B) (1) x 1L Silica Standard, 10 mg/L, Cat # VW3618-1, VWR Lot # 7338, CAS # 6834-92-0. Store @ R.T. Expires 8/5/08

(C) (1 x 120mL Linear Alkylbenzene Sulfonate (LAS) Standard, 1000 mg/L. Cat # 4350-4, RICCA Lot # 1710411, CAS #s 68411-30-3, 7664-93-9. Store @ 4°C. Expires 10/2008.

2/14/08 R

(D) TSS Reference

0.2153g Kaolin (WC692356) brought to 1000g w/ DI. Store at 4°C in a plastic bottle.

TV = 215 mg/L exp: 02/14/2009

1/14/08 NM

(E) Sodium Phenolate - NH3

- same as WC85088F. Exp. 1 year, 2/14/09.

(F) 0.8M NaOH - TKN

- same as WC85090I. Exp. 3/14/08.

(G) Buffer - TKN

- same as WC85088E. Exp. 1 month, 3/14/08

(H) Color Reagent - TKN

To a tared 1liter amber glass jar add:

- 75.0g Sodium Salicylate (WC85088)
- 0.50g Sodium Nitroprusside (WC85102D)
- 454g UP DI.

Stir until dissolved. Store @ RT. Exp. 1 month, 3/14/08.

(I) Color Reagent - NH3

- same as WC85105C, Exp. 1 year, 2/14/09.

(J) Buffer - NH3

- same as WC85094B. Exp. 1 year, 2/14/09

2/14/08 TC

(A) TKN

To a 2 l

- 268g
- 14.6g (

to ~500

Slowly c

Dissolve

to vol.

2/14/08 RF

(B) Rec'd fr

(1) x 100 pe

CAS # 65-

Rec'd

exp. c

ICB 02/14/08

(C) TS Ref

0.3003

with D

2/15/08 NM

(D) Post I

To a

(WC85111

Pour off 10

mix thora

(E) Hyrochl

15.0 mLs

Prepare

2/19/08 NM

(F) NH3 (

- same a

(G) Hyrochl

- same (

4/24/08 (A) **TSS Reference**
0.2118 g Kaolin (WC~~692856~~) brought to 1000 g/l
DI Store @ 4°C in a plastic bottle
TV = 212 mg/L exp: 4/24/09

4/24/08 (B) **Buffer - TKN**
NM - same as WC85088E. Exp. 1 month, 5/24/08

(C) **Sodium Phenolate - NH3**
- same as WC85131D. Exp. 1 year, 4/24/09.

4/28/08 (D) **Alkalinity LCS/MS Soln, 1000 mg/L**
BB Combine 1.0588 g Na_2CO_3 (WC462320), previously dried @ 104°C for 2 hours, in ~500 mL DI. Bring to 1 L volumetrically w/ DI. Store in plastic @ 4°C. Expires 10/28/08

4/28/08 **Received from CPI**
NM (E) (3) x 100 COD Digestion Solution Vials, 0-150 ppm, Cat # 4380-150-300, CPI Lot # 71127A, CAS # 10294-26-5, 7783-35-9, 7664-93-9, Store in a cool, dark place. Expires 11/2011

Received from Vick
(F) (10) x 8 mL Aqua Star Water Std, 0.1% Cat # 1.88051.0010, EMD Lot # HC784277, CAS # 107-98-2. Store in flammable cabinet. Expires 11/30/2012.

4/28/08 (G) **TKN Digest Reagent (3753)**
TC To a 2 liter vol. flask add ~500 mL UPDI and
- 268 g K_2SO_4 (WC85109H)
- 14.6 g $CuSO_4$ (WC85040A)
Slowly add 268 g conc. omnitrace H_2SO_4 (WC85132D)
Dissolve. Allow to cool, then bring to vol. w/ UPDI
Exp 1 month, 5/28/08

4/27/08 (H) **Hypochlorite - TKN**
N.M - same as WC85111E. Purple Cresh Reagent.

20mLs
equals 400mLs)

6/24/08 NM (H) Ascorbic Acid - TP04
- same as WC85164I. Exp. 1 wk, 7/1/08

6/24/08 EW (B) TSS Reference
0.2121 g Kaolin (WC69285G) brought to 1000g w/DI.
Store in Plastic Bottle @ 4°C
TV = 212 mg/L Exp: 6/24/09 (4409)

6/24/08 AB Received from VWR
(C) · (1) x 125g Potassium Hydrogen Phthalate, Cat # PX1476-3, EMD Lot # 47183801, CAS # 877-24-7. Store @ R.T. Expires 6/24/13.

6/25/08 CMW (D) Recieved from Honeywell
(D) (4) x 4L Chloroform, CAT # 048-4, Honeywell Lot # CW014. CAS # 67-66-3. Store @ RT. Expires 5 years from reciept, 6/25/2013.
(E) (4) x 4L Chloroform, CAT # 048-4, Honeywell Lot # CW310. CAS # 67-66-3. Store @ RT. Expires 5 years from reciept, 6/25/2013.

6/25/08 NM (F) Buffer - TOTN
- same as WC85146A. Exp. 1year, 6/25/09.

(G) Color Reagent - TOTN
- same as WC85123A. Exp. 1month, 7/25/08.

6/25/08 AB Received from VWR
(H) · (2) x 100g Ammonium Persulfate, ultrapure, Cat # 4030-04, JT Baker Lot # G22476, CAS # 7727-54-0. Store @ 4°C. Expires 5/31/2010

6/25/08 CMW (I) Alkalinity Reference Soln 50 mg/L
10.0 ml 5000 mg/L Alk Ref Stock (WC25157H) to 1L vol. with DI. from 6/25/08
Store in plastic at 4°C exp ~~6 months~~ 12/2/08

R446650
R44803
R44797
R44841
R44842
Scapbe

Run #: 163588
Analyte: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A
Printed: 07/16/08 15:47

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1117656	WATER	0.712		1.0	0.0100	101.7		07/10/2008		
BLK1		1117657	WATER	0.000540		1.0	0.0100			07/10/2008		
BLK2		1117658	WATER	0.000360		1.0	0.0100			07/10/2008		
BLK2		1117659	WATER	-0.000490		1.0	0.0100			07/10/2008		
SPKB		1117660	WATER	0.100		1.0	0.0100	100.1		07/10/2008		
SPKB		1117661	WATER	0.380		1.0	0.0100	95.1		07/10/2008		
ESMP	R2844650	1113426	WATER	0.151		5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	-0.441		5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	0.466		25.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114419	WATER	2.64		100.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	-0.472		5.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	0.459		25.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114420	WATER	3.14		100.0	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114421	WATER	0.0414		5.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117664	WATER	-0.244		5.0	0.0100	105 ccs/1303	-282	07/10/2008		
SPK1		1117665	WATER	0.105		5.0	0.0100	~~12.7~~		07/10/2008		
ESMP	R2844803	1114421	WATER	0.445		25.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117674	WATER	0.456 CK7/16/08		25.0	0.0100		166.7	07/10/2008		
SPK1		1117675	WATER	~~-0.104~~ 0.519		25.0	0.0100	2.5		07/10/2008		
ESMP	R2844803	1114421	WATER	2.61		100.0	0.0100			07/10/2008	QC	ASPB
LDUP		1117676	WATER	3.13		100.0	0.0100		194.8	07/10/2008		
SPK1		1117677	WATER	3.17		100.0	0.0100	31.3		07/10/2008		
ESMP	R2844797	1114714	SOIL/SEDIME	0.0221		1.0	1.00			07/10/2008		ASPB
LDUP		1117670	SOIL/SEDIME	0.0322		1.0	1.00		37.23	07/10/2008		
SPK1		1117671	SOIL/SEDIME	4.75		1.0	1.00	97.9		07/10/2008		
ESMP	R2844797	1114715	SOIL/SEDIME	-0.0215		1.0	1.00			07/10/2008		ASPB
ESMP	R2844797	1114716	SOIL/SEDIME	0.00991		1.0	1.00			07/10/2008		ASPB
ESMP	R2844797	1114717	SOIL/SEDIME	0.0126		1.0	1.00			07/10/2008		ASPB
BLK5		1118214	SOIL/SEDIME	1.00	U	1.0	1.00			07/10/2008		
SPKS		1118217	SOIL/SEDIME	4.69		1.0	1.00	93.8		07/10/2008		
SPKS		1118223	SOIL/SEDIME	19.1		1.0	1.00	95.5		07/10/2008		
ESMP	R2844797	1114718	SOIL/SEDIME	-0.0188		1.0	1.00			07/10/2008		ASPB
ESMP	R2844803	1114756	WATER	~~0.00622~~ 0.0311		5.0 ~~1.0~~	0.0100			07/10/2008		ASPB
ESMP	R2844803	1114758	WATER	~~0.000770~~ 0.0039		5.0 ~~1.0~~	0.0100			07/10/2008		ASPB
				CK7/16/08		CK7/16/08						

Records printed: 34

Reviewed & Approved
By: CK
Date: 7/16/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

(1)

Midi-Cyanide Distillation Sheet

Stock ppm: 978.432

Analyst: RP

Date Std'n: 1/18/08

Date: 7/9/08

10 ppm Spike Solution:

Chiller Temp: 11°C

Date made: 7/9/08

Midi Block #1 Temp: 125°C

mL used: 0.5, 2.0

Midi Block #2 Temp: 125°C

Pipette ID: E-1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	335.4/9012	NA	—	
2	LCS-LL	water		50	50	335.4/9012	NA	—	0.5mL Sb 10ppm
3	LCS-HL	water		50	50	335.4/9012	NA	—	2.0mls Sb 10ppm
4		R44650	R1113426	10	50	9012	10	—	
5		R44803	R1114419	10	50	9012	712	—	
6			R1114420	10	50	9012	10	—	
7			R1114421	10	50	9012	10	—	
8			421DUP	10	50	9012	10	—	
9			421SPK	10	50	9012	10	—	0.5mL Sb 10ppm
10			R1114756	10	50	9012	10	—	
11			R1114758	10	50	9012	712	—	
12		R44822	R1114736	50	50	335.4	712	—	
13		R44841	R1115230	50	50	335.4	712	—	
14			R1115231	50	50	335.4	712	—	
15			R1115232	50	50	335.4	712	—	
16			232DUP	50	50	335.4	712	—	
17			232SPK	50	50	335.4	712	—	0.5mL Sb 10ppm
18			R1115233	50	50	335.4	712	—	
19			233DUP	50	50	335.4	712	—	
20			233SPK	50	50	335.4	712	—	0.5mL Sb 10ppm

(2)

Midi-Cyanide Distillation Sheet

Stock ppm: 978, 432

Analyst: RR

Date Std'n: 1/18/08

Date: 7/9/08

10 ppm Spike Solution:

Chiller Temp: 11°C

Date made: 7/9/08

Midi Block #1 Temp: 125°C

mL used: 0.5, 2.0

Midi Block #2 Temp: 125°C

Pipette ID: E-1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1		R44842	1115240	50	50	335.4	712		
2			1115241	50	50	335.4	712		
3	Prep Blk	SOIL		50	50		NA		
4	LCS-LL	SOIL		50	50		NA		
5	LCS-HL	SOIL		50	50		NA		
6	LCS-LL	SOIL		50	50		NA		FOR CDC
7	LCS-HL	SOIL		50	50		NA		FOR CDC
8		R44797	R1114714	1.02	50		12		dilution no x49.01961
9			714DUP	1.04	50		12		x48.07692
10			714SPK	1.03	50		12		x48.54369
11			R1114715	1.00	50		5		x50
12			R1114716	1.06	50		12		x47.16981
13			R1114717	1.03	50		5		x48.5369
14			R1114718	1.01	50		5		x49.50495
15	LCS-LL	water		50	50		NA		IDC
16	LCS-HL	water		50	50		NA		IDC
17					50				
18					50				
19					50				
20					50				

7/10/08

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: M.Lovejoy

10.07.2008 10:45 Pipette: E2

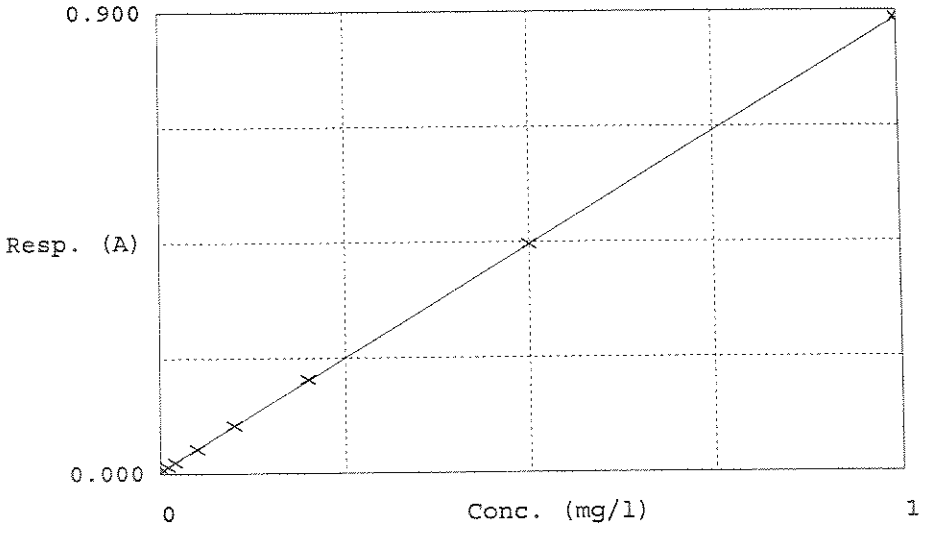
Test Total CN

Accepted 10.07.2008 10:45

Factor 1.13428
Bias 0.00466

Coeff. of det. 0.999985

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.00424	-0.00047	0.00000	
2	CN-0.01	0.01326	0.00975	0.01000	
3	CN-0.02	0.02168	0.01930	0.02000	
4	CN-0.05	0.04724	0.04830	0.05000	
5	CN-0.1	0.09358	0.10086	0.10000	
6	CN-0.2	0.18346	0.20281	0.20000	
7	CN-0.5	0.44546	0.49999	0.50000	
8	CN-1	0.88580	0.99946	1.00000	
9	1 ICV-TCN(contr	0.63198	0.71155	0.70000	
10	2 ICB-TCN(contr	0.00514	0.00054	0.00000	

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: H. Lovejoy
Prep#: E2

Date : 2008-07-10
Time : 14.30

Test: Total CN
Unit: mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
1 ICV-TCN	0.632	0.71155			2008-07-10 10.41
2 ICB-TCN	0.005	0.00054			2008-07-10 10.41
3 CCV-TCN	0.604	0.67982			2008-07-10 11.53
4 CCB-TCN	0.005	0.00081			2008-07-10 11.53
PREP BLK	0.005	0.00036			2008-07-10 11.53
LCS-LL 1	0.093	0.10008			2008-07-10 11.53
LCS-HL 1	0.340	0.38028			2008-07-10 11.53
R1113426	0.031	0.03023 x5 = 0.1512			2008-07-10 11.53
R1114419	-0.073	-0.08813 x5 = -0.44065			2008-07-10 11.53
R1114420	-0.079	-0.09449 x5 = -0.47245			2008-07-10 11.53
R1114421	0.012	0.00828 x5 = 0.04140			2008-07-10 11.53
R1114421 DUP	-0.038	-0.04889 x5 = -0.24445			2008-07-10 11.53
R1114421 SPK	0.023	0.02097 x5 = 0.10485			2008-07-10 11.53
R1114756	0.010	0.00622 x5 = 0.0311			2008-07-10 12.00
3 CCV-TCN	0.598	0.67338			2008-07-10 12.00
4 CCB-TCN	0.006	0.00111			2008-07-10 12.00
R1114758	0.005	0.00077 x5 = 0.0039			2008-07-10 12.00
R1114736	0.005	0.00092			2008-07-10 12.00
R1115230	0.005	0.00026			2008-07-10 12.00
R1115231	0.004	-0.00058			2008-07-10 12.00
R1115232	0.042	0.04273			2008-07-10 12.00
R1115232 DUP	0.045	0.04520			2008-07-10 12.00
R1115232 SPK	0.126	0.13814			2008-07-10 12.00
R1115233	0.005	0.00071			2008-07-10 12.00
R1115233 DUP	0.007	0.00208			2008-07-10 12.07
R1115233 SPK	0.093	0.10023			2008-07-10 12.07
3 CCV-TCN	0.593	0.66679			2008-07-10 12.07
4 CCB-TCN	0.006	0.00137			2008-07-10 12.08
R1115240	0.005	0.00020			2008-07-10 12.08
R1115241	0.005	0.00072			2008-07-10 12.08
PREP BLK SOIL	0.004	-0.00049 x50			2008-07-10 12.08
LCS-LL SOIL 1	0.087	0.09379 x50			2008-07-10 12.08
LCS-HL SOIL 1	0.342	0.38209 x50			2008-07-10 12.08
LCS-LL SOIL 2	0.089	0.09599			2008-07-10 12.08
LCS-HL SOIL 2	0.339	0.37872			2008-07-10 12.08
R1114714	0.005	0.00045 x49.01961 = 0.02206			2008-07-10 12.15
R1114714 DUP	0.005	0.00067 x48.67692 = 0.03221			2008-07-10 12.15
R1114714 SPK	0.091	0.09781 x48.54369 = 4.74806			2008-07-10 12.15
3 CCV-TCN	0.580	0.65243			2008-07-10 12.15
4 CCB-TCN	0.005	0.00075			2008-07-10 12.15
R1114715	0.004	-0.00043 x50 = -0.02150			2008-07-10 12.15
R1114716	0.005	0.00021 x47.16981 = 0.00991			2008-07-10 12.15
R1114717	0.005	0.00026 x48.54369 = 0.01262			2008-07-10 12.15
R1114718	0.004	-0.00038 x49.50495 = -0.01881			2008-07-10 12.15
LCS-LL 2	0.054	0.05645 >10 samples associated not needed			2008-07-10 12.15
LCS-HL 2	0.335	0.37432			2008-07-10 12.15
3 CCV-TCN	0.601	0.67661			2008-07-10 12.18
4 CCB-TCN	0.004	-0.00019			2008-07-10 12.18
3 CCV-TCN	0.595	0.66994			2008-07-10 12.42
4 CCB-TCN	0.005	0.00047			2008-07-10 12.42
R1114419 1/5	0.021	0.01862 x25 = 0.46550			2008-07-10 12.42

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst:

Date : 2008-07-10
Time : 14.30

Test: Total CN
Unit: mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
R1114420 1/5	0.021	0.01835 x25 = 0.45875			2008-07-10 12.42
R1114421 1/5	0.020	0.01781 x25 = 0.44525			2008-07-10 12.42
R1114421 DUP 1/5	0.021	0.01823 x25 = 0.45575			2008-07-10 12.42
R1114421 SPK 1/5	0.023	0.02077 x25 = ~~0.51925~~ 0.5193 CP 7/10/08			2008-07-10 12.42
3 CCV-TCN	0.608	0.68408			2008-07-10 12.45
4 CCB-TCN	0.005	0.00043			2008-07-10 12.45
3 CCV-TCN	0.611	0.68810			2008-07-10 14.15
4 CCB-TCN	0.006	0.00103			2008-07-10 14.15
R1114419 1/20	0.028	0.02641 x100 = 2.641			2008-07-10 14.15
R1114420 1/20	0.032	0.03140 x100 = 3.140			2008-07-10 14.15
R1114421 1/20	0.028	0.02613 x100 = 2.613			2008-07-10 14.15
R1114421 DUP 1/2	0.032	0.03127 x100 = 3.127			2008-07-10 14.15
R1114421 SPK 1/2	0.033	0.03168 x100 = 3.168			2008-07-10 14.15
3 CCV-TCN	0.646	0.72778			2008-07-10 14.19
4 CCB-TCN	0.005	0.00015			2008-07-10 14.19

Columbia Analytical Services
1 Mustard St., Rochester NY

General Chemistry Analytical Run Cover Sheet

Analyst: RP Distillation Date: 7/9/08

Analysis: Total Cyanide Instrument: AquaKem 200 Analyzer Date:

Quality Control:

	Same as Log #, Date	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol mLs	True Value (mg/L)
a) Stds. Prep. :	WC85134D, 4/3/08				
10 ppm Working Stock:	WC85134B, 4/3/08	1.022	978.432	100	10.0
b) I/CCV (Ref.) Prep.:	WC85134E, 4/3/08	0.7	10	10	0.700
10 ppm Working Stock:	WC85134C, 4/3/08	1.002	998.4	100	10.0
c) LCS (water) Prep:	WC69160D , 8/02/04	2.0	10	50	0.4
LCS (water) Prep:	WC69160C , 8/02/04	0.5	10	50mls	0.1
LCS (soil) Prep. :	WC69160D , 8/02/04	2.0	10	~1 g.	~ 20 (see bench sheet)
LCS (soil) Prep:	WC69160C , 8/02/04	0.5	10	~1 g.	~ 5 (see bench sheet)
d) Mtx Spk (water) Prep:	WC69160E , 8/02/04	0.5	10	50	0.1
Mtx Spk (soil) Prep:	WC69160E , 8/02/04	0.5	10	~1 g.	~5 (see bench sheet)

Method Reference: 335.2 EPA 600; 9010A,9012 EPA SW-846; 335.2 CLP-M NYSASP

Instrument log filled in? (Y) (N)

Stock Prep:
1000 mg/L TCN Std. Stock prepared 7/20/07, WC85007E, standardized 1/18/08, WC87007A
1000 mg/L TCN Ref. Stock prepared 7/20/07, WC85007F, standardized 1/18/08, WC87007B

10 mg/L Std. And Ref. working stocks are prepared weekly using the above stock solutions, diluting to volume with 0.25N NaOH

0.25N NaOH, fresh daily: 26.14 mL 50% w/w NaOH WC85011C diluted to 2 L with DI

Reagents, Distillation:	Log Book #	Comments
Sulfamic Acid	WC85171B	
Sulfuric Acid, 1:1	WC85153F	
Magnesium Chloride	WC85170 12	
Calcium Hypochlorite	NA	
Ascorbic Acid	NA	
Acetate Buffer	NA	
Zinc Acetate	NA	
Acetic Acid	NA	
Cadmium Carbonate	WC76081J	
Anti-foam	WC85064B	

Reagents, Autoanalyzer:		
Buffer		
Pyridine Barbituric Acid		

Chloramine-T, fresh daily: 2.00 g Chloramine-T WC76197G diluted to 200 mL with DI

4/3/08 (A) 0.25 N NaOH

26.14 mls conc. NaOH (WC85011C) → 2 Liters w/ DI.
Fresh per run.

(B) 10ppm TCN Std. Stock

1.022 mls of the 978.432 ppm TCN Std. Stock (WC85007E)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(C) 10ppm TCN Ref. Stock

1.002 mls of the 998.4 ppm TCN Ref. Stock (WC85007F)
→ 100 mls w/ 0.25N NaOH (WC85134A)

(D) TCN Calibration Stds. Fresh per run

Conc.	mls 10ppm TCN Std. Stock (WC85134B)	mls 0.25N NaOH
1.00	1.0	9.0
0.50	0.50	9.50
0.20	0.20	9.80
0.10	1/10 dilution of 1.00 ppm Std	
0.05	1/10 dilution of 0.50 ppm Std	
0.02	1/10 dilution of 0.20 ppm Std	
0.01	1/10 dilution of 0.10 ppm Std	
0.00	0.00	10.0

(E) ICV/CCV TV=0.70 Fresh per run

0.70 mls 10 ppm TCN Ref. Stock (WC85134C) + 9.30 mls 0.25N NaOH (WC85134A)

(F)

8/2/04 CMW

TCN Distillation

Ⓐ 0.25N NaOH

40.0mLs NaOH (WC69074F, EM Lot # 3321) → 2 Liters w/ DI. Make fresh each run.

Ⓑ TCN 10ppm working Stock (for LCS/MS/STANDARDS)

1.020 mL TCN Std. Stock #1 (WC69154D), Standardization WC71016A → 100mL w/ 0.25 NaOH (WC69160A). Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50mL 10ppm working STANDARD Stock (WC69160B) to 50mL DI. TV = 0.100ppm. For soils, add 1.0g Ottawa sand to 50.0mL DI and 0.50mL 10ppm STANDARD working stock (WC69160B). TV = 5.0ppm.

Ⓓ TCN High Level LCS:

Add 2.0mL 10 ppm STANDARD working stock (WC69160B) to 50mL DI. TV = 0.400ppm. For soils, add 1.0g Ottawa sand to 50mL DI and 2.0mL 10ppm STANDARD working stock (WC69160B). TV = 20.0ppm.

Ⓔ TCN Matrix Spike

Add 0.50mLs 10ppm STANDARD Working Stock (WC69160B) to 50.0mL sample. TV = 0.100ppm. For soils, 1.0g sample to 50.0mL DI and 0.50mL 10ppm STANDARD working stock (WC69160B). TV = 5.0 ppm

Ⓕ TCN 10ppm Reference Working Stock

Add 1.002mL TCN Ref. Stock #2 (WC69154E) Standardization WC71016B → 100mLs w/ 0.25N NaOH (WC69160A). Prep fresh weekly. Store in amber glass @ 4°C.

CMW 8/2/04

8/2/04 CMW Ⓐ TC Conc 0 0 0. 0. 0.1 0.0 0.0 0.0 0.

Ⓑ CC • Add to 9. 10 sc

8/3/04 CB Ⓒ TDS 1 0.9120g DI H2O bottle

8/3/04 GN Ⓓ Same

8/3/04 CMW Ⓔ 10% Same

8/3/04 CMW Ⓕ Phenc • Same

8/3/04 JJT Ⓖ Rec'd -Sa

9/4/04 DR Ⓗ Total 460.0 DI glas

7/20/07 BB — Received from VWR

(A) · 3 x 500g Sodium Persulfate, Cat # V035-07, JT Baker Lot # E03617, CAS # 7775-27-1. Store @ RT. Expires 7/20/10

(B) · (1) x 100mL Ferroin Indicator. Cat # H119-01, Mallinckrodt Lot # E22433, CAS #: 7720-76-7, 66-71-7. Store @ R.T. Expires 7/20/10

Received from Fisher

(C) · (1) x 1 L AquaStar Comp-5, Cat # AX1698A-6, EMD Lot # 46340, CAS #s 109-86-4, 288-32-4, 7553-56-2, 7446-09-5. Store in flammable Cabinet. Expires 7/20/10

(D) · (1) x 500mL Silver Nitrate, 0.0192N, Cat # ~~7158-18~~ LC22630-1, Lab Chem Lot # 7158-18, CAS # 7761-88-8. Store @ 4°C. Expires 6/13/08

7/20/07 BB — (E) 1000ppm TCN Stock #1: Standard Stock

To a tared 500mL volumetric flask, add:
1.26g KCN (WC76005C)
1.00g KOH (WC76005D)
~400mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08.

(F) 1000ppm TCN Stock #2: Reference Stock

To a tared 500mL volumetric flask, add:
1.26g KCN (WC76007B)
1.00g KOH (WC76005D)
~400mL DI
Dissolve and bring to volume w/DI. Standardize and store @ 4°C in amber glass. Expires 7/20/08

7/20/07 BB — (G) · Rhodanine Indicator Soln

Dissolve 0.020g 5-(4-DMAB) Rhodanine (WC76015E) in 100mL Acetone (WC76060F). Store in glass @ R.T. Expires 7/20/08

R44650
R44768
R44803
R44770

2 runs

4 QCPW

Run #: 163395
Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)
Printed: 07/08/08 12:11

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLKS		1115302	WATER	1.00	1.0	10.0			07/03/2008		
SPKB		1115303	WATER	909	1.0	10.0	99.5		07/03/2008		
ESMP	R2844650	1113426	WATER	8100	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113427	WATER	6570	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113428	WATER	6980	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113429	WATER	3010	1.0	10.0			07/03/2008		ASPB
ESMP	R2844650	1113430	WATER	5510	1.0	10.0			07/03/2008		ASPB
ESMP	R2843635	1096177	WATER	3240	1.0	10.0			07/03/2008		1
ESMP	R2843635	1096178	WATER	666	1.0	10.0			07/03/2008		1
ESMP	R2844768	1113695	WATER	1010	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113696	WATER	12100	1.0	10.0			07/03/2008		ASPB
LDUP		1115304	WATER	11700	1.0	10.0		3.46	07/03/2008		
ESMP	R2844768	1113697	WATER	1380	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113698	WATER	3210	1.0	10.0			07/03/2008		ASPB
ESMP	R2844768	1113699	WATER	3110	1.0	10.0			07/03/2008		ASPB
ESMP	R2844508	1109492	WATER	796	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109493	WATER	682	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109495	WATER	229	1.0	10.0			07/03/2008		1
ESMP	R2844508	1109498	WATER	244	1.0	10.0			07/03/2008		1
ESMP	R2844803	1114419	WATER	9520	1.0	10.0			07/03/2008		ASPB
ESMP	R2844803	1114420	WATER	9410	1.0	10.0			07/03/2008		ASPB
ESMP	R2844803	1114421	WATER	10800	1.0	10.0			07/03/2008	QC	ASPB
LDUP		1115305	WATER	10800	1.0	10.0		0.28	07/03/2008		

Records printed: 23

Reviewed & Approved
By: B Bane
Date: 7/11/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

)ATE PRINTED: 07/08/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163395 **ANALYSIS DATE:** 07/03/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)	VOL (ml)	(mg/L)	FLASK/ DISH ID	LS JOB#	LS LOC#
1	1115302	R28 0	MBLK	(89.3250-	89.3249)=	0.0001 *1E6	/100	=1.00	OX		
2	1115303	R28 0	LCS	(84.2696-	84.2214)=	0.0482 *1E6	/53	= 909	LL		
3	1113426	R2844650	ESMP	(89.0678-	89.0006)=	0.0672 *1E6	/8.3	= 8100	67		
4	1113427	R2844650	ESMP	(72.0239-	71.9661)=	0.0578 *1E6	/8.8	= 6570	NM		
5	1113428	R2844650	ESMP	(85.7819-	85.6911)=	0.0908 *1E6	/13	= 6980	GY		
6	1113429	R2844650	ESMP	(82.3014-	82.2366)=	0.0648 *1E6	/21.5	= 3010	F9		
7	1113430	R2844650	ESMP	(89.1842-	89.1071)=	0.0771 *1E6	/14	= 5510	ED		
8	1096177	R2843635	ESMP	(89.3740-	89.2769)=	0.0971 *1E6	/30	= 3240	E16		
9	1096178	R2843635	ESMP	(88.9197-	88.8604)=	0.0593 *1E6	/89	= 666	WET		
10	1113695	R2844768	ESMP	(84.7932-	84.7162)=	0.0770 *1E6	/76	= 1010	50		
11	1113696	R2844768	ESMP	(82.1967-	82.1228)=	0.0739 *1E6	/6.1	= 12100	OO		
12	1115304	R28 0	DUPE	(83.2950-	83.2237)=	0.0713 *1E6	/6.1	= 11700	43		
13	1113697	R2844768	ESMP	(86.7629-	86.6733)=	0.0896 *1E6	/65	= 1380	A2		
14	1113698	R2844768	ESMP	(86.6373-	86.5683)=	0.0690 *1E6	/21.5	= 3210	45		
15	1113699	R2844768	ESMP	(79.5747-	79.5094)=	0.0653 *1E6	/21	= 3110	CV		
16	1109492	R2844508	ESMP	(86.4294-	86.3677)=	0.0617 *1E6	/77.5	= 796	FE		
17	1109493	R2844508	ESMP	(85.9909-	85.9377)=	0.0532 *1E6	/78	= 682	80		
18	1109495	R2844508	ESMP	(83.2951-	83.2722)=	0.0229 *1E6	/100	= 229	T4		
19	1109498	R2844508	ESMP	(81.5327-	81.5083)=	0.0244 *1E6	/100	= 244	CO		
20	1114419	R2844803	ESMP	(86.3967-	86.3329)=	0.0638 *1E6	/6.7	= 9520	A4		
21	1114420	R2844803	ESMP	(85.2313-	85.1372)=	0.0941 *1E6	/10	= 9410	G		
22	1114421	R2844803	ESMP	(88.0287-	87.9205)=	0.1082 *1E6	/10	= 10800	51		
23	1115305	R28 0	DUPE	(80.6893-	80.5810)=	0.1083 *1E6	/10	= 10800	HOT		

COLUMBIA ANALYTICAL SERVICES, INC.

Analyte: Total Suspended Solids (TSS)
Method: 160.2 / SM20 2540D
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B

Analyst: E. WOLFE
Pipet: DISPOSABLE
Date: 7/3/08
Time: 10:30

TS _____ TDS X TSS _____

LCS Lot: ~~WC8173G~~ WC85173G 7/8/08 TV: 914 Balance ID: AE240

Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
1		MB	OX	100		Gross (A) 1:	89.3250	Gross (A) 3:		1.00
						Gross (A) 2:	89.3250			
						B)	89.3249	A-B=	0.0001	
2		LCS	LL	53		Gross (A) 1:	84.2696	Gross (A) 3:		909.43
						Gross (A) 2:	84.2696			
						B)	84.2214	A-B=	0.0482	
3	44650	R-1113426	67	8.3		Gross (A) 1:	89.0681	Gross (A) 3:		8096.39
						Gross (A) 2:	89.0678			
						B)	89.0006	A-B=	0.0672	
4		R-1113427	NM	8.8		Gross (A) 1:	72.0241	Gross (A) 3:		6568.18
						Gross (A) 2:	72.0239			
						B)	71.9661	A-B=	0.0578	
5		R-1113428	GY	13		Gross (A) 1:	85.7819	Gross (A) 3:		6984.62
						Gross (A) 2:	85.7828			
						B)	85.6911	A-B=	0.0908	
6		R-1113429	F9	21.5		Gross (A) 1:	82.3015	Gross (A) 3:		3013.95
						Gross (A) 2:	82.3014			
						B)	82.2366	A-B=	0.0648	
7		R-1113430	ED	14		Gross (A) 1:	89.1845	Gross (A) 3:		5507.14
						Gross (A) 2:	89.1842			
						B)	89.1071	A-B=	0.0771	
8	~~43635~~	~~R-1096177~~ residue too high, redone	~~LA~~	~~58~~		Gross (A) 1:	88.4285	Gross (A) 3:		3839.66
						~~Gross (A) 2:~~	~~88.4269~~			
						B)	88.2042	A-B=	0.2227	
9		R-1096178	WET	89		Gross (A) 1:	88.9197	Gross (A) 3:		666.29
						Gross (A) 2:	88.9199			
						B)	88.8604	A-B=	0.0593	
10	44768	R-1113695	50	76		Gross (A) 1:	84.7935	Gross (A) 3:		1013.16
						Gross (A) 2:	84.7932			
						B)	84.7162	A-B=	0.0770	
11		R-1113696	OO	6.1		Gross (A) 1:	82.1967	Gross (A) 3:		12114.75
						Gross (A) 2:	82.1982			
						B)	82.1228	A-B=	0.0739	
12		R-1113696 DUP	43	6.1		Gross (A) 1:	83.2950	Gross (A) 3:		11688.52
						Gross (A) 2:	83.2989			
						B)	83.2237	A-B=	0.0713	
13		R-1113697	A2	65		Gross (A) 1:	86.7630	Gross (A) 3:		1378.46
						Gross (A) 2:	86.7629			
						B)	86.6733	A-B=	0.0896	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/3/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:30
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C TS _____ TDS X TSS _____
Analyte: Total Solids (TS) WC01736
Method 160.3 / SM20 2540B LCS Lot: WC173G TV: 914 Balance ID: AE240
Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: _____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
14		R-1113698	45	21.5		Gross (A) 1:	86.6374	Gross (A) 3:		3209.30
						Gross (A) 2:	86.6373			
						B)	86.5683	A-B=	0.0690	
15		R-1113699	CV	21		Gross (A) 1:	79.5747	Gross (A) 3:		3109.52
						Gross (A) 2:	79.5747			
						B)	79.5094	A-B=	0.0653	
16	44508	R-1109492	FE	77.5		Gross (A) 1:	86.4294	Gross (A) 3:		796.13
						Gross (A) 2:	86.4295			
						B)	86.3677	A-B=	0.0617	
17		R-1109493	80	78		Gross (A) 1:	85.9909	Gross (A) 3:		682.05
						Gross (A) 2:	85.9909			
						B)	85.9377	A-B=	0.0532	
18		R-1109495	T4	100		Gross (A) 1:	83.2951	Gross (A) 3:		229.00
						Gross (A) 2:	83.2953			
						B)	83.2722	A-B=	0.0229	
19		R-1109498	CO	100		Gross (A) 1:	81.5327	Gross (A) 3:		244.00
						Gross (A) 2:	81.5328			
						B)	81.5083	A-B=	0.0244	
20	44803	R-1114419	A4	6.7		Gross (A) 1:	86.3968	Gross (A) 3:		9522.39
						Gross (A) 2:	86.3967			
						B)	86.3329	A-B=	0.0638	
21		R-1114420	G	10		Gross (A) 1:	85.2313	Gross (A) 3:		9410.00
						Gross (A) 2:	85.2315			
						B)	85.1372	A-B=	0.0941	
22		R-1114421	51	10		Gross (A) 1:	88.0287	Gross (A) 3:		10820.00
						Gross (A) 2:	88.0288			
						B)	87.9205	A-B=	0.1082	
23		R-1114421 DUP	HOT	10		Gross (A) 1:	80.6893	Gross (A) 3:		10830.00
						Gross (A) 2:	80.6904			
						B)	80.5810	A-B=	0.1083	
24	44233	R-1105694	F16	92		Gross (A) 1:	84.4257	Gross (A) 3:		701.09
						Gross (A) 2:	84.4257			
						B)	84.3612	A-B=	0.0645	
25		MB	V9	100		Gross (A) 1:	81.6282	Gross (A) 3:		0.00
						Gross (A) 2:	81.6282			
						B)	81.6282	A-B=	0.0000	
26		LCS	FG	53		Gross (A) 1:	81.8898	Gross (A) 3:		909.43
						Gross (A) 2:	81.8898			
						B)	81.8416	A-B=	0.0482	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/3/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:30
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C TS ____ TDS X TSS ____
Analyte: Total Solids (TS) WC85173G
Method 160.3 / SM20 2540B LCS Lot: WC173G EW 7/4/08 TV: 914 Balance ID: AE240
Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
27	44233	R-1105695	XC	76		Gross (A) 1:	83.2758	Gross (A) 3:		546.05
						Gross (A) 2:	83.2758			
						B)	83.2343	A-B=	0.0415	
28		R-1105696	WS	43		Gross (A) 1:	83.6187	Gross (A) 3:		2130.23
						Gross (A) 2:	83.6191			
						B)	83.5271	A-B=	0.0916	
29		R-1105697	X5	44.5		Gross (A) 1:	87.9640	Gross (A) 3:		2157.30
						Gross (A) 2:	87.9646			
						B)	87.8680	A-B=	0.0960	
30		R-1105698	CN	40		Gross (A) 1:	90.3939	Gross (A) 3:		2602.50
						Gross (A) 2:	90.3939			
						B)	90.2898	A-B=	0.1041	
31		R-1105699	IR	48		Gross (A) 1:	88.4565	Gross (A) 3:		1027.08
						Gross (A) 2:	88.4567			
						B)	88.4072	A-B=	0.0493	
32		R-1105700	YU	83.5		Gross (A) 1:	85.1012	Gross (A) 3:		719.76
						Gross (A) 2:	85.1006			
						B)	85.0405	A-B=	0.0601	
33		R-1105701	81	59		Gross (A) 1:	86.8420	Gross (A) 3:		1222.03
						Gross (A) 2:	86.8420			
						B)	86.7699	A-B=	0.0721	
34		R-1105702	ID	34		Gross (A) 1:	90.1041	Gross (A) 3:		5017.65
						Gross (A) 2:	90.1041			
						B)	89.9335	A-B=	0.1706	
35		R-1105703	QO	49		Gross (A) 1:	80.6586	Gross (A) 3:		1204.08
						Gross (A) 2:	80.6587			
						B)	80.5996	A-B=	0.0590	
36		R-1105704	DW	33		Gross (A) 1:	84.2341	Gross (A) 3:		1645.45
						Gross (A) 2:	84.2341			
						B)	84.1798	A-B=	0.0543	
37	44770	R-1113733	A	100		Gross (A) 1:	85.1632	Gross (A) 3:		170.00
						Gross (A) 2:	85.1633			
						B)	85.1462	A-B=	0.0170	
38		R-1113734	74	100		Gross (A) 1:	85.3584	Gross (A) 3:		300.00
						Gross (A) 2:	85.3585			
						B)	85.3284	A-B=	0.0300	
39		R-1113735	53	100		Gross (A) 1:	87.5028	Gross (A) 3:		294.00
						Gross (A) 2:	87.5028			
						B)	87.4734	A-B=	0.0294	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/3/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:30
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C TS ____ TDS X TSS ____
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85178G WC173G 7/8/08 TV: 914 Balance ID: AE240
Filter Lot: WC85172E Oven ID: 1 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
40		R-1113735 DUP	VAN	100		Gross (A) 1:	79.2416	Gross (A) 3:		298.00
						Gross (A) 2:	79.2416			
						B)	79.2118	A-B=	0.0298	
41		R-1113736	TY	100		Gross (A) 1:	80.1904	Gross (A) 3:		145.00
						Gross (A) 2:	80.1904			
						B)	80.1759	A-B=	0.0145	
42	44508	R-1109500	AS	67.5		Gross (A) 1:	80.4494	Gross (A) 3:		909.63
						Gross (A) 2:	80.4494			
						B)	80.3880	A-B=	0.0614	
43		R-1109500 DUP	P1	70		Gross (A) 1:	81.0893	Gross (A) 3:		915.71
						Gross (A) 2:	81.0892			
						B)	81.0251	A-B=	0.0641	
44	44770	R-1114342	13	100		Gross (A) 1:	80.8654	Gross (A) 3:		219.00
						Gross (A) 2:	80.8655			
						B)	80.8435	A-B=	0.0219	
45		R-1114343	Z2	100		Gross (A) 1:	85.0922	Gross (A) 3:		200.00
						Gross (A) 2:	85.0923			
						B)	85.0722	A-B=	0.0200	
46		R-1114344	DF	100		Gross (A) 1:	78.2860	Gross (A) 3:		337.00
						Gross (A) 2:	78.2857			
						B)	78.2520	A-B=	0.0337	
47		R-1114345	ANT	100		Gross (A) 1:	82.7324	Gross (A) 3:		227.00
						Gross (A) 2:	82.7325			
						B)	82.7097	A-B=	0.0227	
48		R-1114346	54	100		Gross (A) 1:	87.7208	Gross (A) 3:		162.00
						Gross (A) 2:	87.7208			
						B)	87.7046	A-B=	0.0162	
49		MB	A5	100		Gross (A) 1:	85.6256	Gross (A) 3:		-2.00
						Gross (A) 2:	85.6259			
						B)	85.6258	A-B=	-0.0002	
50		LCS	T5	59		Gross (A) 1:	82.5104	Gross (A) 3:		918.64
						Gross (A) 2:	82.5105			
						B)	82.4562	A-B=	0.0542	
51		R-1114347	75	100		Gross (A) 1:	86.2914	Gross (A) 3:		58.00
						Gross (A) 2:	86.2918			
						B)	86.2856	A-B=	0.0058	
52		R-1114348	UI	100		Gross (A) 1:	87.6894	Gross (A) 3:		102.00
						Gross (A) 2:	87.6896			
						B)	87.6792	A-B=	0.0102	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/3/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:30
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C **TS** ____ **TDS** X **TSS** ____
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: ~~WC173607~~ WC85173G 7/8/08 TV: **914** Balance ID: **AE240**
Filter Lot: **WC85172E** Oven ID: 1 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
53		R-1114349	62	100		Gross (A) 1:	90.0724	Gross (A) 3:		108.00
						Gross (A) 2:	90.0725			
						B)	90.0616	A-B=	0.0108	
54	43635	R-1096177	E16	30		Gross (A) 1:	89.3743	Gross (A) 3:		3236.67
						Gross (A) 2:	89.3740			
						B)	89.2769	A-B=	0.0971	
55	~~44233~~	~~R-1105702~~ not used.	~~ZX~~ 7/8/08	~~10~~		Gross (A) 1:	81.8915	Gross (A) 3:		4450.00
						~~Gross (A) 2:~~	~~81.8915~~			
						B)	81.8470	A-B=	0.0445	

Reported result 5020.
% RSD is 12.0% Report this as Dup. BS 7/11/08

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: E. WOLFE
Date: 7/3/08

Drying Tins: ____ Dish 104°C: ____
Crucible 550°C: ____ Dish 550°C: ____
Dish 180°C: X G/O Dishes: ____

	Weight	Actual
s Weights (s):	99.9994 g	100 g
	____ g	____ g

ID Number	Weight	
OX	89.3249	89.3251
LL	84.2214	84.2214
67	89.0006	89.0006
NM	71.9661	71.9664
GY	85.6911	85.6913
F9	82.2366	82.2367
ED	89.1071	89.1072
LA	88.2042	88.2044
WET	88.8607	88.8604
50	84.7162	84.7162
OO	82.1228	82.1228
43	83.2237	83.2237
A2	86.6733	86.6734
45	86.5683	86.5686
CV	79.5095	79.5094
FE	86.3681	86.3677
YU	85.0405	85.0405
IR	88.4072	88.4072
CN	90.2898	90.2898
X5	87.8680	87.8680
WS	83.5272	83.5271
XC	83.2344	83.2343
FG	81.8417	81.8416
V9	81.6282	81.6284
F16	84.3614	84.3612
HOT	80.5810	80.5811
51	87.9207	87.9205
G	85.1373	85.1372

ID Number	Weight	
A4	86.3329	86.3330
CO	81.5084	81.5083
T4	83.2722	83.2722
80	85.9379	85.9377
TY	80.1759	80.1760
AS	80.3881	80.3880
P1	81.0253	81.0251
13	80.8436	80.8435
Z2	85.0722	85.0722
DF	78.2521	78.2520
ANT	82.7098	82.7097
54	87.7046	87.7046
81	86.7700	86.7699
ID	89.9335	89.9335
QO	80.5996	80.5996
DW	84.1799	84.1798
A	85.1462	85.1462
74	85.3284	85.3284
53	87.4734	87.4734
VAN	79.2119	79.2118
A5	85.6260	85.6258
T5	82.4565	82.4562
75	86.2856	86.2857
UI	87.6793	87.6792
62	90.0617	90.0616
E16	89.2772	89.2769
ZX	81.8471	81.8470
ew 7/8/08		

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW Date: 7/3/08

Analysis: Total Dissolved Solids Instrument: ✓ Mettler AE 240 Analytical Balance
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85173G	7/3/08				914
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: ✓ lower ____ higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

p:\lotus\123r22\greg\forms\cover.tss

7/2/08 BB
(A) Color Reagent for Phenols
Same as WC85009C except Brij added was 1.0mL. Exp 7/16/08
(B) 10% Phosphoric Acid
Same as WC85092D. Expires 7/2/09

'/8/08. Prepared x2.

olten discolored.

7/3/08 DCB
(C) MBAS wash Solution
In a tared 2L Volumetric flask add 13.7 H_2SO_4 (m178007IA)
and 100g Sodium Phosphate mono basic monohydrate (WC76404E)
Bring up to volume with DI. Store at RT exp 7/3/09

CES12SG) and ~80ml UPDI
UPDI. Store at 4C

7/3/08 DCB
(D) Color Reagent - MBAS
To a volumetric flask add
1) 60mls Methylene Blue Stock (WC85015D)
2) 100g Sodium Phosphate Monobasic Monohydrate
3) 13.7mls Conc H_2SO_4 (m178007IA)
bring to volume with DI expires 1yr 7/3/08

7 mm, whatman
e on drum

7/3/08 Nm
(E) NH_3 Carrier/Diluent
-same as WC85170C. Prepared solution x3.

x m, whatman
e as above Exp: N/A
ke, Cat# EX0551-1,
. Store @ R.T.

(F) Hypochlorite - NH_3
-same as WC85142F. Prepare fresh each run.

7/3/08 EW
(G) TDS Reference
0.9140g NaCl (WC76259E) diluted volumetrically to 1 liter of DI. Store in plastic bottle @ 4°C.
Expires 7/3/09 TV = 914 mg/L

'fate, Cat# VW3475-1,
17-7, 7732-18-5

7/3/08 MB
(H) Eriochrome Black-T - Hardness indicator
Add 50.0g NaCl (WC85109J) and .25g Eriochrome Black T (WC09284E) to tared 8-cup cup & shake well to mix. Store at r.t. exp. 5/31/10

Chlorine Residual
(I) FAS Titrant
7/3/08 RP
0.553g Ferrous Amononium sulfate Hexahydrate (WC76254C) dissolved in UPDI w/ 0.5ml 1/4 H_2SO_4 (WC85027B) and brought to volume in 500mL vol. flask.
Store at room temp in Amber glass. Exp. 1month 8/3/08

)35-07, J.T. Baker
R.T. Exp. 7/2/13
9945-14, EMD
18 5. Store @ R.T.

., Thexahydrate,
1, CAS# 10049-21 5.

Cat# SK0821/8
8, 7732-18 5

. Cat# MX0645-4,
Store @ R.T.

3 Copies 44803 44798 44770 2 runs A

Run #: 163550
Analyte: TDS SM2540C TOTAL DISSOLVED SOLIDS (TDS)
Printed: 07/10/08 11:57

TYPE	SUBMISSION		ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		—	1116282	WATER	4.00	1.0	10.0			07/08/2008		
SPKB		—	1116283	WATER	914	1.0	10.0	100.0		07/08/2008		
ESMP	R2844803	—	1114756	WATER	17700	1.0	10.0			07/08/2008		ASPB
LDUP			1116284	WATER	17600	1.0	10.0		0.23	07/08/2008		
ESMP	R2844803	—	1114758	WATER	4.00	1.0	10.0			07/08/2008		ASPB

Records printed: 5

Reviewed & Approved
By: B Bowe
Date: 7/11/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

DATE PRINTED: 07/10/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163550 **ANALYSIS DATE:** 07/08/08 ASSIGNED TO :

TEMPLATE: SM2540C TOTAL DISS SOLIDS (TDS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)		VOL (ml)	(mg/L)	FLASK/ DISH ID	LS JOB#	LS LOC#
1	1116282	R28 0	MBLK	(89.1078-	89.1074)=	0.0004	*1E6 /100		=4.00	ED		
2	1116283	R28 0	LCS	(80.4359-	80.3820)=	0.0539	*1E6 /59		= 914	PV		
3	1114756	R2844803	ESMP	(87.6502-	87.4733)=	0.1769	*1E6 /10		= 17700	53		
4	1116284	R28 0	DUPE	(85.2487-	85.0721)=	0.1766	*1E6 /10		= 17600	Z2		
5	1114758	R2844803	ESMP	(80.1761-	80.1757)=	0.0004	*1E6 /100		=4.00	TY		

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/8/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:00
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C **TS** ____ **TDS** X **TSS** ____
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85173G TV: **914** Balance ID: **AE240**
Filter Lot: **WC85154B** Oven ID: 1 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
1		MB	ED	100		Gross (A) 1:	89.1078	Gross (A) 3:		4.00
						Gross (A) 2:	89.1080			
						B)	89.1074	A-B=	0.0004	
2		LCS	PV	59		Gross (A) 1:	80.4359	Gross (A) 3:		913.56
						Gross (A) 2:	80.4359			
						B)	80.3820	A-B=	0.0539	
3	44803	R-1114756	53	10		Gross (A) 1:	87.6502	Gross (A) 3:		17690.00
						Gross (A) 2:	87.6525			
						B)	87.4733	A-B=	0.1769	
4		R-1114756 DUP	Z2	10		Gross (A) 1:	85.2504	Gross (A) 3:		17660.00
						Gross (A) 2:	85.2487			
						B)	85.0721	A-B=	0.1766	
5		R-1114758	TY	100		Gross (A) 1:	80.1763	Gross (A) 3:		4.00
						Gross (A) 2:	80.1761			
						B)	80.1757	A-B=	0.0004	
6	44207	R-1105469	DF	2.9		Gross (A) 1:	78.3300	Gross (A) 3:		26793.10
						Gross (A) 2:	78.3299			
						B)	78.2522	A-B=	0.0777	
7		R-1105469 DUP	QW	2.9		Gross (A) 1:	84.1676	Gross (A) 3:		26620.69
						Gross (A) 2:	84.1675			
						B)	84.0903	A-B=	0.0772	
8	44798	R-1114367	VA	100		Gross (A) 1:	71.6591	Gross (A) 3:		30.00
						Gross (A) 2:	71.6594			
						B)	71.6561	A-B=	0.0030	
9		R-1114368	LP	100		Gross (A) 1:	89.5499	Gross (A) 3:		18.00
						Gross (A) 2:	89.5501			
						B)	89.5481	A-B=	0.0018	
10		R-1114369	37	100		Gross (A) 1:	83.9669	Gross (A) 3:		17.00
						Gross (A) 2:	83.9671			
						B)	83.9652	A-B=	0.0017	
11		R-1114370	72	100		Gross (A) 1:	85.7369	Gross (A) 3:		27.00
						Gross (A) 2:	85.7372			
						B)	85.7342	A-B=	0.0027	
12		R-1114371	XC	100		Gross (A) 1:	83.2359	Gross (A) 3:		23.00
						Gross (A) 2:	83.2361			
						B)	83.2336	A-B=	0.0023	
13		R-1114372	62	100		Gross (A) 1:	90.0645	Gross (A) 3:		27.00
						Gross (A) 2:	90.0647			
						B)	90.0618	A-B=	0.0027	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/8/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 10:00
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C TS ____ TDS X TSS ____
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85173G TV: **914** Balance ID: **AE240**
Filter Lot: **WC85154B** Oven ID: 1 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
14		R-1114373	P1	100		Gross (A) 1:	81.0262	Gross (A) 3:		10.00
						Gross (A) 2:	81.0264			
						B)	81.0252	A-B=	0.0010	
15	44205	R-1105455	81	1		Gross (A) 1:	86.8844	Gross (A) 3:		114600.00
						Gross (A) 2:	86.8841			
						B)	86.7695	A-B=	0.1146	
16	44206	R-1105456	ANT	100		Gross (A) 1:	82.7580	Gross (A) 3:		471.00
						Gross (A) 2:	82.7571			
						B)	82.7100	A-B=	0.0471	
17		R-1105457	OJ	100		Gross (A) 1:	85.9406	Gross (A) 3:		321.00
						Gross (A) 2:	85.9402			
						B)	85.9081	A-B=	0.0321	
18	44770	R-1114691	VI	100		Gross (A) 1:	88.1285	Gross (A) 3:		213.00
						Gross (A) 2:	88.1286			
						B)	88.1072	A-B=	0.0213	
19		R-1114692	UI	100		Gross (A) 1:	87.7137	Gross (A) 3:		341.00
						Gross (A) 2:	87.7139			
						B)	87.6796	A-B=	0.0341	
20		R-1114693	SD	100		Gross (A) 1:	82.7146	Gross (A) 3:		317.00
						Gross (A) 2:	82.7142			
						B)	82.6825	A-B=	0.0317	
21		R-1114694	A14	100		Gross (A) 1:	85.3967	Gross (A) 3:		281.00
						Gross (A) 2:	85.3966			
						B)	85.3685	A-B=	0.0281	
22		R-1114696	NN	100		Gross (A) 1:	87.2407	Gross (A) 3:		156.00
						Gross (A) 2:	87.2404			
						B)	87.2248	A-B=	0.0156	
23		R-1114696 DUP	TT	100		Gross (A) 1:	88.7249	Gross (A) 3:		155.00
						Gross (A) 2:	88.7241			
						B)	88.7086	A-B=	0.0155	
24		R-1114697	AS	100		Gross (A) 1:	80.4034	Gross (A) 3:		155.00
						Gross (A) 2:	80.4033			
						B)	80.3878	A-B=	0.0155	
25		R-1114698	LL	100		Gross (A) 1:	84.2210	Gross (A) 3:		4.00
						Gross (A) 2:	84.2210			
						B)	84.2206	A-B=	0.0004	
26		MB	OH	100		Gross (A) 1:	76.6106	Gross (A) 3:		2.00
						Gross (A) 2:	76.6108			
						B)	76.6104	A-B=	0.0002	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS)
Method: 160.2 / SM20 2540D
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B

Analyst: E. WOLFE Date: 7/8/08
Pipet: DISPOSABLE Time: 10:00

TS _____ **TDS** X **TSS** _____

LCS Lot: WC85173G TV: **914** Balance ID: **AE240**
Filter Lot: **WC85154B** Oven ID: 1 *Lower tare weight used unless marked: _____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
27		LCS	QO	56		Gross (A) 1:	80.6495	Gross (A) 3:		907.14
						Gross (A) 2:	80.6496			
						B)	80.5987	A-B=	0.0508	
28	44822	R-1114728	SS	100		Gross (A) 1:	81.0337	Gross (A) 3:		37.00
						Gross (A) 2:	81.0337			
						B)	81.0300	A-B=	0.0037	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: E. WOLFE
Date: 7/8/08

Drying Tins: ____ Dish 104°C: ____
Crucible 550°C: ____ Dish 550°C: ____
Dish 180°C: X G/O Dishes: ____

	Weight	**Actual**
s Weights (s):	99.9992 g	100 g
	____ g	____ g

ID Number	Weight	
OJ	85.9083	85.9081
VI	88.1074	88.1072
UI	87.6798	87.6796
SD	82.6828	82.6825
A14	85.3687	85.3685
NN	87.2250	87.2248
TT	88.7088	88.7086
AS	80.3880	80.3878
LL	84.2208	84.2206
OH	76.6105	76.6104
QO	80.5988	80.5987
SS	81.0302	81.0300
ED	89.1077	89.1074
PV	80.3820	80.3820

ID Number	Weight	
53	87.4737	87.4733
Z2	85.0722	85.0721
TY	80.1758	80.1757
DF	78.2524	78.2522
QW	84.0905	84.0903
VA	71.6564	71.6561
LP	89.5484	89.5481
37	83.9655	83.9652
72	85.7344	85.7342
XC	83.2338	83.2336
62	90.0621	90.0618
P1	81.0254	81.0252
81	86.7695	86.7696
ANT	82.7101	82.7100

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW Date: 7/8/08

Analysis: Total Dissolved Solids Instrument: ✓ Mettler AE 240 Analytical Balance
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85173G	7/3/08				914
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: ✓ lower ___ higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

p:\lotus\123r22\greg\forms\cover.tss

7/2/08 BB — (A) Color Reagent for Phenols
Same as WC85009C except Brij added was 1.0mL. Exp 7/16/08

(B) 10% Phosphoric Acid
Same as WC85042D. Expires 7/2/09

7/3/08 DCB — (C) MBAS wash Solution
In a tared 2L volumetric flask add 13.7 H_2SO_4 (m1780077A) and 100g Sodium Phosphate mono basic mono hydrate (WC76404E) Bring up to volume with DI. Store at RT exp 7/3/09

7/3/08 DCB — (D) Color Reagent - MBAS
To a volumetric flask add
1) 60mls Methylene Blue Stock (WC85015D)
2) 100g Sodium Phosphate Monobasic Monohydrate
3) 13.7mls Conc H_2SO_4 (m1780077A)
bring to volume with DI expires 1yr 7/3/08

7/3/08 NM — (E) NH_3 Carrier/Diluent
-same as WC85170C. Prepared solution x3.

(F) Hypochlorite - NH_3
-same as WC85142F. Prepare fresh each run,

7/3/08 EW — (G) TDS Reference
0.9140g NaCl (WC76259E) diluted volumetrically to 1 liter w/ DI. Store in plastic bottle @ 4°C. Expires 7/3/09 TV = 914 mg/L

7/3/08 NM — (H) Eriochrome Black-T - Hardness indicator
Add 50.0g NaCl (WC85109J) and .25g Eriochrome BlackT (WC09284E) to a tared 8-cup cup & shake well to mix. Store at r.t. exp. 5/31/10

Chlorine Residual

(I) FAS Titrant
7/3/08 RP — 0.553g Ferrous Ammonium sulfate Hexahydrate (WC76254E) dissolved in UPDI w/ 0.5ml 1/4 H_2SO_4 (WC85027B) and brought to volume in 500mL vol. flask.
Store at room temp in Amber glass Exp. 1month 8/3/08

1/8/08, Prepared x2.

)ilen discolored.

CES125G) and ~2000ml UPDI
UPDI. Store at 4°C.

m m, Whatman
e as above
ate, Cat# EX0031-1,
Store @ R.T.

ate, Cat# VW3475-1,
17-7, 7732-18-5.

35-07, J.T. Baker
R.T. Exp. 7/2/13
945-14, EMD
15. Store @ R.T.

. Thexahydrate,
. CAS# 10049-21-5.

Cat# SX0821/8
7732-18-5

Cat# MX0045-4,
Store @ R.T.

R44803
1 Copy

Run #: 164965
Analyte: TOC 9060. TOC (QUAD) -REG LEVEL
Printed: 08/04/08 10:27

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	1.71	1.0	1.00			07/31/08		ASPB
CHK5		1123215	WATER	19.1	1.0	1.00	95.5		7/31/08		
CHK5		1123215	WATER	20.4	1.0	1.00	102.0		7/31/08		
CHK5		1123215	WATER	20.1	1.0	1.00	100.7		7/31/08		
CHK5		1123215	WATER	20.3	1.0	1.00	101.6		7/31/08		
BLK4		1123216	WATER	0.121	1.0	1.00			7/31/08		
BLK4		1123216	WATER	0.0300	1.0	1.00			7/31/08		
BLK4		1123216	WATER	0.0440	1.0	1.00			7/31/08		
BLK4		1123216	WATER	0.0450	1.0	1.00			7/31/08		
SPKB		1123217	WATER	9.94	1.0	1.00	99.5		7/31/08		
SPKB		1123217	WATER	10.5	1.0	1.00	105.2		7/31/08		
SPKB		1123217	WATER	10.7	1.0	1.00	106.7		7/31/08		
SPKB		1123217	WATER	10.6	1.0	1.00	106.2		7/31/08		
ESMP	R2844803	1114419	WATER	2.06	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114419	WATER	1.84	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114419	WATER	1.81	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114421	WATER	1.65	1.0	1.00			07/31/08	QC	ASPB
ESMP	R2844803	1114421	WATER	2.36	1.0	1.00			07/31/08	QC	ASPB
ESMP	R2844803	1114421	WATER	2.10	1.0	1.00			07/31/08	QC	ASPB
ESMP	R2844803	1114421	WATER	2.11	1.0	1.00			07/31/08	QC	ASPB
LDUP		1123218	WATER	1.70	1.0	1.00		2.81	7/31/08		
LDUP		1123218	WATER	2.34	1.0	1.00		0.81	7/31/08		
LDUP		1123218	WATER	2.08	1.0	1.00		1.01	7/31/08		
LDUP		1123218	WATER	2.08	1.0	1.00		1.34	7/31/08		
SPK1		1123219	WATER	9.30	1.0	1.00	76.6		7/31/08		
SPK1		1123219	WATER	10.8	1.0	1.00	84.8		7/31/08		
SPK1		1123219	WATER	11.5	1.0	1.00	93.9		7/31/08		
SPK1		1123219	WATER	11.1	1.0	1.00	90.2		7/31/08		
ESMP	R2844803	1114756	WATER	1.43	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114756	WATER	1.69	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114756	WATER	1.52	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114756	WATER	1.45	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114758	WATER	0.624	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114758	WATER	0.494	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114758	WATER	0.464	1.0	1.00			07/31/08		ASPB
ESMP	R2844803	1114758	WATER	0.467	1.0	1.00			07/31/08		ASPB
ESMP	R2844853	1115469	WATER	1.62	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115469	WATER	2.37	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115469	WATER	1.92	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115469	WATER	2.12	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115470	WATER	13.4	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115470	WATER	17.8	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115470	WATER	15.2	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115470	WATER	14.9	1.0	1.00			07/31/08		ASP-B
ESMP	R2844853	1115472	WATER	2.79	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115472	WATER	3.05	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115472	WATER	2.81	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115472	WATER	2.85	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115473	WATER	1.64	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115473	WATER	1.77	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115473	WATER	1.81	1.0	1.00			08/01/08		ASP-B

Reviewed & Approved
By: CB
Date: 8/5/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844853	1115473	WATER	1.74	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115474	WATER	9.20	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115474	WATER	11.4	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115474	WATER	10.6	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115474	WATER	10.3	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115475	WATER	7.66	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115475	WATER	10.3	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115475	WATER	8.90	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115475	WATER	8.97	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115476	WATER	3.02	1.0	1.00			08/01/08	QC	ASP-B
ESMP	R2844853	1115476	WATER	2.82	1.0	1.00			08/01/08	QC	ASP-B
ESMP	R2844853	1115476	WATER	2.75	1.0	1.00			08/01/08	QC	ASP-B
ESMP	R2844853	1115476	WATER	2.71	1.0	1.00			08/01/08	QC	ASP-B
LDUP		1123220	WATER	2.74	1.0	1.00		9.87	8/1/08		
LDUP		1123220	WATER	3.08	1.0	1.00		8.65	8/1/08		
LDUP		1123220	WATER	3.03	1.0	1.00		9.69	8/1/08		
LDUP		1123220	WATER	3.00	1.0	1.00		10.06	8/1/08		
SPK1		1123221	WATER	11.7	1.0	1.00	87.0		8/1/08		
SPK1		1123221	WATER	13.5	1.0	1.00	106.7		8/1/08		
SPK1		1123221	WATER	13.3	1.0	1.00	105.2		8/1/08		
SPK1		1123221	WATER	13.0	1.0	1.00	102.7		8/1/08		
ESMP	R2844853	1115477	WATER	8.15	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115477	WATER	9.31	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115477	WATER	8.52	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115477	WATER	8.58	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115478	WATER	1.58	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115478	WATER	1.61	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115478	WATER	1.51	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115478	WATER	1.53	1.0	1.00			08/01/08		ASP-B
ESMP	R2844866	1115782	WATER	1.61	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115782	WATER	1.98	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115782	WATER	1.73	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115782	WATER	1.68	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115783	WATER	0.405	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115783	WATER	0.549	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115783	WATER	0.413	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115783	WATER	0.389	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115784	WATER	1.15	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115784	WATER	1.68	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115784	WATER	1.31	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115784	WATER	1.28	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1116367	WATER	2.56	1.0	1.00			08/01/08	QC	ASPB
ESMP	R2844866	1116367	WATER	3.24	1.0	1.00			08/01/08	QC	ASPB
ESMP	R2844866	1116367	WATER	3.04	1.0	1.00			08/01/08	QC	ASPB
ESMP	R2844866	1116367	WATER	2.94	1.0	1.00			08/01/08	QC	ASPB
LDUP		1123222	WATER	2.41	1.0	1.00		6.12	8/1/08		
LDUP		1123222	WATER	3.18	1.0	1.00		1.74	8/1/08		
LDUP		1123222	WATER	2.87	1.0	1.00		5.61	8/1/08		
LDUP		1123222	WATER	2.91	1.0	1.00		0.96	8/1/08		
SPK1		1123223	WATER	11.7	1.0	1.00	91.6		8/1/08		
SPK1		1123223	WATER	13.4	1.0	1.00	101.6		7/31/08		
SPK1		1123223	WATER	13.4	1.0	1.00	103.9		8/1/08		
SPK1		1123223	WATER	13.2	1.0	1.00	102.8		8/1/08		

Records printed: 104

ANALYTE:G:\STARLIMS\ASBAR.RP1

Run #: 165189

Analyte: TOC AVG TOCAVG TOC QUAD AVERAGE (CALC.)

Printed: 08/05/08 13:39

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114419	WATER	1.86	1.0	1.00			07/31/2008		ASPB
ESMP	R2844803	1114421	WATER	2.05	1.0	1.00			07/31/2008	QC	ASPB
LDUP		1123590	WATER	2.05	1.0	1.00			07/31/2008		
SPK1		1123591	WATER	10.7	1.0	1.00			07/31/2008		
ESMP	R2844803	1114756	WATER	1.52	1.0	1.00			07/31/2008		ASPB
ESMP	R2844803	1114758	WATER	0.512	1.0	1.00			07/31/2008		ASPB
CHK5		1123595	WATER	20.0	1.0	1.00			07/31/2008		
BLK4		1123597	WATER	0.0600	1.0	1.00			07/31/2008		
SPKB		1123598	WATER	10.4	1.0	1.00			07/31/2008		

Records printed: 9

****
** SEQUENCE **
****

073108B Thu Jul 31 16:37:36 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
2	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
3	LCS	toc1	Chk. 5	4	1.000	0	1.00	No	
4	1111324 R-44616	toc1	Sample	4	1.000	0	1.00	No	
5	1114419 R-44803	toc1	Sample	4	1.000	0	1.00	No	
6	[redacted]	toc1	Sample	4	1.000	0	1.00	No	
7	1114421	toc1	Sample	4	1.000	0	1.00	No	
8	1114421 DUP	toc1	Sample	4	1.000	0	1.00	No	
9	1114421 SPK	toc1	Sample	4	1.000	0	1.00	No	
10	1114756	toc1	Sample	4	1.000	0	1.00	No	
11	1114758	toc1	Sample	4	1.000	0	1.00	No	
12	1115469 R-44853	toc1	Sample	4	1.000	0	1.00	No	
13	1115470	toc1	Sample	4	1.000	0	1.00	No	
14	[redacted]	toc1	Sample	4	1.000	0	1.00	No	
15	1115472	toc1	Sample	4	1.000	0	1.00	No	
16	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
17	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
18	1115473	toc1	Sample	4	1.000	0	1.00	No	
19	1115474	toc1	Sample	4	1.000	0	1.00	No	
20	1115475	toc1	Sample	4	1.000	0	1.00	No	
21	1115476	toc1	Sample	4	1.000	0	1.00	No	
22	1115476 DUP	toc1	Sample	4	1.000	0	1.00	No	
23	1115476 SPK	toc1	Sample	4	1.000	0	1.00	No	
24	1115477	toc1	Sample	4	1.000	0	1.00	No	
25	1115478	toc1	Sample	4	1.000	0	1.00	No	
26	1115782 R-44866	toc1	Sample	4	1.000	0	1.00	No	
27	1115783	toc1	Sample	4	1.000	0	1.00	No	
28	1115784	toc1	Sample	4	1.000	0	1.00	No	
29	1116367	toc1	Sample	4	1.000	0	1.00	No	
30	1116367 DUP	toc1	Sample	4	1.000	0	1.00	No	
31	1116367 SPK	toc1	Sample	4	1.000	0	1.00	No	
32	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
33	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
34	LCS	toc1	Sample	4	1.000	0	1.00	No	
35	[redacted]	toc1	Sample	4	1.000	0	1.00	No	6
36	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
37	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	

Analysts: CS, CW
Rpts. TOC/TDX
WAYNE

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

TOC by EPA 415.1 / 9060 / SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731001.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:57	15021	19.585	19.108
2	17:05	16027	20.904	20.394
3	17:13	15828	20.643	20.140
4	17:22	15970	20.829	20.321
	Avg.	15712	20.490	19.991
	Std. Dev	467.88		
	RSD (%)	2.98		

OK
CS
8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731002.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:31	172	0.124	0.121
2	17:39	101	0.031	0.030
3	17:47	112	0.045	0.044
4	17:56	113	0.046	0.045
	Avg.	125	0.061	0.060
	Std. Dev	32.13		
	RSD (%)	25.81		

OK
CS
8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #:	3
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731003.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:04	7855	10.193	9.945
2	18:12	8307	10.786	10.523
3	18:20	8419	10.933	10.666
4	18:30	8386	10.889	10.624
	Avg.	8242	10.700	10.439
	Std. Dev	262.08		
	RSD (%)	3.18		

OK
CS
8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	4
Sample Name:	1111324 R-44616
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731004.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:38	1965	2.473	2.413
2	18:46	2079	2.623	2.559
3	18:54	2034	2.564	2.501
4	19:03	2010	2.532	2.470
	Avg.	2022	2.548	2.486
	Std. Dev	47.56		
	RSD (%)	2.35		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	5
Sample Name:	1114419 R-44803
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731005.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:12	1416	1.754	1.711
2	19:19	1688	2.110	2.059
3	19:27	1517	1.886	1.840
4	19:37	1495	1.857	1.812
	Avg.	1529	1.902	1.855
	Std. Dev	114.53		
	RSD (%)	7.49		

OK
CS
8/11/08

'*' = modified '-' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	6
Sample Name:	1114420
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731006.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:45	1261	1.550	1.513
2	19:53	2084	2.629	2.565
3	20:01	1564	1.948	1.900
4	20:10	1545	1.923	1.876
	Avg.	1614	2.012	1.963
	Std. Dev	342.91		
	RSD (%)	21.25		

RSD >20 %, Repeat
ES
8/1/08

OK +/- PQL
already
repeated/reported
on 8/1/08
OK 8/5/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	7
Sample Name:	1114421
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731007.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:19	1368	1.691	1.649
2	20:26	1922	2.417	2.358
3	20:34	1718	2.149	2.097
4	20:44	1730	2.165	2.112
	Avg.	1685	2.106	2.054
	Std. Dev	230.77		
	RSD (%)	13.70		

OK
CS
8/11/08

S7415

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	8
Sample Name:	1114421 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731008.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:52	1405	1.739	1.697
2	21:00	1909	2.400	2.341
3	21:08	1704	2.131	2.079
4	21:17	1706	2.134	2.082
	Avg.	1681	2.101	2.050
	Std. Dev	207.62		
	RSD (%)	12.35		

OK
CS
8/11/08

0119

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	9
Sample Name:	1114421 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731009.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:26	7355	9.538	9.305
2	21:34	8559	11.116	10.844
3	21:41	9066	11.780	11.493
4	21:51	8780	11.405	11.127
	Avg.	8440	10.960	10.692
	Std. Dev	752.52		
	RSD (%)	8.92		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	10
Sample Name:	1114756
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731010.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:59	1198	1.468	1.432
2	22:07	1401	1.734	1.692
3	22:15	1265	1.556	1.518
4	22:24	1211	1.485	1.449
	Avg.	1269	1.561	1.523
	Std. Dev	92.82		
	RSD (%)	7.32		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	11
Sample Name:	1114758
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731011.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:33	566	0.640	0.624
2	22:41	464	0.506	0.494
3	22:48	441	0.476	0.464
4	22:58	443	0.478	0.467
	Avg.	479	0.525	0.512
	Std. Dev	59.25		
	RSD (%)	12.38		

Below LR
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	12
Sample Name:	1115469 R-44853
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731012.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:06	1343	1.658	1.618
2	23:14	1935	2.434	2.374
3	23:22	1582	1.971	1.923
4	23:31	1736	2.173	2.120
	Avg.	1649	2.059	2.009
	Std. Dev	249.99		
	RSD (%)	15.16		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	13
Sample Name:	1115470
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	31Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731013.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:40	10533	13.703	13.369
2	23:48	13974	18.213	17.768
3	23:56	11956	15.568	15.188
4	00:05	11718	15.256	14.884
	Avg.	12045	15.685	15.302
	Std. Dev	1428.52		
	RSD (%)	11.86		

ok
CS
8/11/08

'*' = modified '–' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	14
Sample Name:	1115471
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731014.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:13	2523	3.205	3.126
2	00:21	3556	4.558	4.447
3	00:29	2476	3.143	3.066
4	00:38	2312	2.928	2.857
	Avg.	2717	3.458	3.374
	Std. Dev	566.76		
	RSD (%)	20.86		

RSD > 20%, Repeat
CS
8/11/08

'm' = modified '-' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	15
Sample Name:	1115472
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731015.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:47	2260	2.860	2.790
2	00:55	2462	3.125	3.048
3	01:03	2277	2.882	2.812
4	01:12	2307	2.921	2.850
	Avg.	2327	2.947	2.875
	Std. Dev	92.40		
	RSD (%)	3.97		

OK
CS
8/1/08

S27-10

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	16
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731016.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:20	15297	19.947	19.461
2	01:28	16213	21.148	20.632
3	01:36	16552	21.592	21.065
4	01:45	16512	21.540	21.014
	Avg.	16144	21.057	20.543
	Std. Dev	584.25		
	RSD (%)	3.62		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	17
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731017.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:54	291	0.280	0.273
2	02:02	153	0.099	0.096
3	02:10	118	0.053	0.052
4	02:19	139	0.080	0.079
	Avg.	175	0.128	0.125
	Std. Dev	78.50		
	RSD (%)	44.79		

OK
CS
8/11/08

S1-25

'*' = modified '-' = unused

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #:	18
Sample Name:	1115473
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731018.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	02:27	1360	1.680	1.639
2	02:35	1462	1.814	1.770
3	02:43	1495	1.857	1.812
4	02:52	1443	1.789	1.745
	Avg.	1440	1.785	1.742
	Std. Dev	57.50		
	RSD (%)	3.99		

OK
CS
8/11/08

S1425

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	19
Sample Name:	1115474
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731019.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:01	7274	9.431	9.201
2	03:09	8980	11.667	11.383
3	03:17	8367	10.864	10.599
4	03:26	8171	10.607	10.348
	Avg.	8198	10.642	10.383
	Std. Dev	705.83		
	RSD (%)	8.61		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	20
Sample Name:	1115475
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731020.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:34	6070	7.853	7.662
2	03:42	8121	10.541	10.284
3	03:50	7036	9.119	8.897
4	03:59	7090	9.190	8.966
	Avg.	7079	9.176	8.952
	Std. Dev	837.82		
	RSD (%)	11.83		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	21
Sample Name:	1115476
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731021.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	04:08	2439	3.094	3.019
2	04:16	2280	2.886	2.816
3	04:23	2230	2.820	2.752
4	04:33	2196	2.776	2.708
	Avg.	2286	2.894	2.824
	Std. Dev	107.52		
	RSD (%)	4.70		

OK
CS
8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	22
Sample Name:	1115476 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731022.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	04:41	2218	2.805	2.736
2	04:49	2483	3.152	3.075
3	04:57	2448	3.106	3.030
4	05:06	2422	3.072	2.997
	Avg.	2393	3.034	2.960
	Std. Dev	119.15		
	RSD (%)	4.98		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	23
Sample Name:	1115476 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731023.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:15	9243	12.012	11.719
2	05:23	10625	13.823	13.486
3	05:30	10452	13.597	13.265
4	05:40	10230	13.306	12.981
	Avg.	10138	13.184	12.863
	Std. Dev	617.86		
	RSD (%)	6.09		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	24
Sample Name:	1115477
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731024.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:48	6451	8.353	8.149
2	05:56	7359	9.543	9.310
3	06:04	6745	8.738	8.525
4	06:13	6790	8.797	8.582
	Avg.	6836	8.858	8.642
	Std. Dev	379.54		
	RSD (%)	5.55		

OK
CS
8/11/08

S1522

'*' = modified '-' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	25
Sample Name:	1115478
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731025.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:22	1317	1.624	1.584
2	06:30	1334	1.646	1.606
3	06:38	1261	1.550	1.513
4	06:47	1278	1.573	1.534
	Avg.	1298	1.598	1.559
	Std. Dev	33.79		
	RSD (%)	2.60		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	26
Sample Name:	1115782 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731026.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:55	1335	1.647	1.607
2	07:03	1629	2.033	1.983
3	07:11	1429	1.771	1.727
4	07:20	1394	1.725	1.683
	Avg.	1447	1.794	1.750
	Std. Dev	127.54		
	RSD (%)	8.82		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	27
Sample Name:	1115783
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731027.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	07:29	395	0.415	0.405
2	07:37	507	0.562	0.549
3	07:45	401	0.423	0.413
4	07:54	382	0.398	0.389
	Avg.	421	0.450	0.439
	Std. Dev	57.71		
	RSD (%)	13.70		

Below LR
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	28
Sample Name:	1115784
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731028.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	08:02	975	1.176	1.147
2	08:10	1391	1.721	1.679
3	08:18	1099	1.338	1.306
4	08:27	1075	1.307	1.275
	Avg.	1135	1.385	1.352
	Std. Dev	178.92		
	RSD (%)	15.76		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	29
Sample Name:	1116367
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731029.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	08:36	2078	2.621	2.557
2	08:44	2609	3.317	3.236
3	08:52	2453	3.113	3.037
4	09:01	2375	3.011	2.937
	Avg.	2379	3.015	2.942
	Std. Dev	222.85		
	RSD (%)	9.37		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	30
Sample Name:	1116367 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731030.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:09	1961	2.468	2.408
2	09:17	2568	3.263	3.184
3	09:25	2326	2.946	2.874
4	09:35	2355	2.984	2.912
	Avg.	2303	2.916	2.844
	Std. Dev	251.94		
	RSD (%)	10.94		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	31
Sample Name:	1116367 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731031.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:43	9242	12.011	11.718
2	09:51	10554	13.730	13.395
3	09:59	10580	13.764	13.429
4	10:08	10417	13.551	13.220
	Avg.	10198	13.264	12.940
	Std. Dev	641.50		
	RSD (%)	6.29		

OK
CS
8/11/08

'*' = modified '-' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	32
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731032.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:17	14799	19.294	18.824
2	10:24	16241	21.184	20.668
3	10:32	16197	21.127	20.611
4	10:42	16345	21.321	20.801
	Avg.	15896	20.732	20.226
	Std. Dev	733.63		
	RSD (%)	4.62		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	33
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731033.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:50	206	0.168	0.164
2	10:58	124	0.061	0.059
3	11:06	124	0.061	0.059
4	11:15	133	0.073	0.071
	Avg.	147	0.091	0.088
	Std. Dev	39.73		
	RSD (%)	27.07		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	34
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731034.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:24	7188	9.319	9.092
2	11:31	8357	10.851	10.587
3	11:39	8382	10.884	10.619
4	11:49	8347	10.838	10.574
	Avg.	8069	10.473	10.218
	Std. Dev	587.18		
	RSD (%)	7.28		

OK
CS
8/11/08

'*' = modified '~' = unused

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

Sample Information:

Sample #:	35
Sample Name:	1116426 R-44892
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	6

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731035.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:57	587	0.667	0.651
2	12:05	664	0.768	0.749
3	12:13	553	0.623	0.607
4	12:22	683	0.793	0.774
	Avg.	622	0.713	0.695
	Std. Dev	61.84		
	RSD (%)	9.95		

Below LR
Diluted 1:6 because of acetic acid like odor
will repeat at higher dilution because of affect
on following CCV
CS 8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	36
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731036.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	12:31	39176	51.244	49.994
2	12:39	27817	36.356	35.470
3	12:47	24242	31.671	30.898
4	12:56	22604	29.524	28.804
	Avg.	28460	37.199	36.291
	Std. Dev	7468.39		
	RSD (%)	26.24		

affected by previous sample
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	37
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0731037.rlt

Method Name:	toc1
Sequence Name:	073108b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	13:04	3200	4.092	3.993
2	13:12	2113	2.668	2.603
3	13:20	1247	1.533	1.495
4	13:29	1064	1.293	1.261
	Avg.	1906	2.396	2.338
	Std. Dev	976.48		
	RSD (%)	51.23		

Affected by sample at 35
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: CW, CS

Date: 7/31/08

Analysis: Total Organic Carbon, 415.1/9060
High Level: 1.0 to 30.0 ppm

Instrument: OI Analytical Model1010 TOC Analyzer

Quality Control:

	Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC86006A, 05/12/08	WC86004E, 05/08/08				
b) I/CCV Preparation:	WC86006D, 05/12/08	WC86005A, 05/08/08	4.0	1000	200	20.00
c) LCS Preparation:	WC86006B, 05/12/08	WC86004E, 05/08/08	1.0	1000	100	10.00
d) Matrix Spike Prep.:	WC86006C, 05/12/08	WC86004E, 05/08/08	0.42	1000	42	10.00

Instrument log filled in? (Y) (N)

Comments:
Curve Date = 07/24/08

Note: Dilutions greater than 1/1 are placed in the "comments" section of the Model 1010 Analyzer report.
The "Dilution Factor" on the Model 1010 will always read "1.00"
TOC results on the Model 1010 Analyzer reports do not include the dilution factor.
Final results on the Starlims run and final report include the dilution factor.

****
SEQUENCE
****

72408 Thu Jul 24 15:02:17 2008

os/ ial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	0.00 STD	toc1	Std. 1	4	1.000	0	1.00	No	
2	1.00 STD	toc1	Std. 2	4	1.000	0	1.00	No	
3	5.00 STD	toc1	Std. 3	4	1.000	0	1.00	No	
4	10.00 STD	toc1	Std. 4	4	1.000	0	1.00	No	
5	30.00 STD	toc1	Std. 5	4	1.000	0	1.00	No	
6	ICV	toc1	Chk. 5	4	2.000	0	1.00	No	
7	ICB	toc1	Chk. 5	4	2.000	0	1.00	No	
8	LCS	toc1	Chk. 5	4	2.000	0	1.00	No	

Analyst: CW, CS
Pipets: TOC/TOX WAYNE

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

TOC by EPA 415.1 / 9060 /
SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	0.00 STD
Run Type:	STD 1
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724001.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:12	116	0.000	0.000
2	15:20	77	0.000	0.000
3	15:28	78	0.000	0.000
4	15:37	79	0.000	0.000
	Avg.	88	0.000	0.000
	Std. Dev	19.02		
	RSD (%)	21.73		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA 415.1 / 9060
OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	1.00 STD
Run Type:	STD 2
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724002.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:45	874	1.025	1.000
2	15:53	794	1.025	1.000
3	16:01	872	1.025	1.000
4	16:10	861	1.025	1.000
	Avg.	850	1.025	1.000
	Std. Dev	37.93		
	RSD (%)	4.46		

OK
CS
8/1/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

:olumbia Analytical Srvcs.
Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	3
Sample Name:	5.00 STD
Run Type:	STD 3
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724003.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:19	3940	5.125	5.000
2	16:27	4032	5.125	5.000
3	16:35	4017	5.125	5.000
4	16:44	4180	5.125	5.000
	Avg.	4042	5.125	5.000
	Std. Dev	100.29		
	RSD (%)	2.48		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	4
Sample Name:	10.00 STD
Run Type:	STD 4
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724004.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:52	7764	10.250	10.000
2	17:00	7759	10.250	10.000
3	17:08	7943	10.250	10.000
4	17:18	7940	10.250	10.000
	Avg.	7852	10.250	10.000
	Std. Dev	103.95		
	RSD (%)	1.32		

OK
CS
8/11/08

'*' = modified '~' = unused

:olumbia Analytical Srvcs.
Mustard Street
tochester, NY. 14609
;85-288-5380

OI Analytical Model 1010

;ample Information:

Sample #:	5
Sample Name:	30.00 STD
Run Type:	STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724005.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:26	22645	30.750	30.000
2	17:34	23405	30.750	30.000
3	17:42	24057	30.750	30.000
4	17:51	24018	30.750	30.000
	Avg.	23531	30.750	30.000
	Std. Dev	662.00		
	RSD (%)	2.81		

OK
CS
8/11/08

'*' = modified '-' = unused

:olumbia Analytical Srvcs.
Mustard Street
Rochester, NY. 14609
i85-288-5380

OI Analytical Model 1010

SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	ICV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724001.rlt

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:16	16284	21.241	20.723
2	18:24	16358	21.338	20.817
3	18:32	16582	21.631	21.104
4	18:41	16286	21.243	20.725
	Avg.	16378	21.363	20.842
	Std. Dev	140.61		
	RSD (%)	0.86		

QIC
CS
8/1/08

'm' = modified '–' = unused

:olumbia Analytical Srvcs.
Mustard Street
:ochester, NY. 14609
;85-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	ICB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724002.rlt

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:49	121	0.057	0.055
2	18:57	66	-0.015	-0.015
3	19:05	83	0.007	0.007
4	19:15	70	-0.010	-0.010
	Avg.	85	0.010	0.009
	Std. Dev	25.07		
	RSD (%)	29.50		

OK
CS
8/1/08

'*' = modified '-' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA Method 9060
OI Analytical Model 1010

Sample Information:

Sample #:	3
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724003.rlt

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:23	7739	10.041	9.796
2	19:31	8083	10.492	10.236
3	19:39	8392	10.897	10.631
4	19:48	8282	10.753	10.491
	Avg.	8124	10.546	10.289
	Std. Dev	286.76		
	RSD (%)	3.53		

OK
CS
8/11/08

CCS 1.0

'm' = modified '~' = unused

****
CALIBRATION
****

)72408RL Thu Jul 24 17:51:34 2008

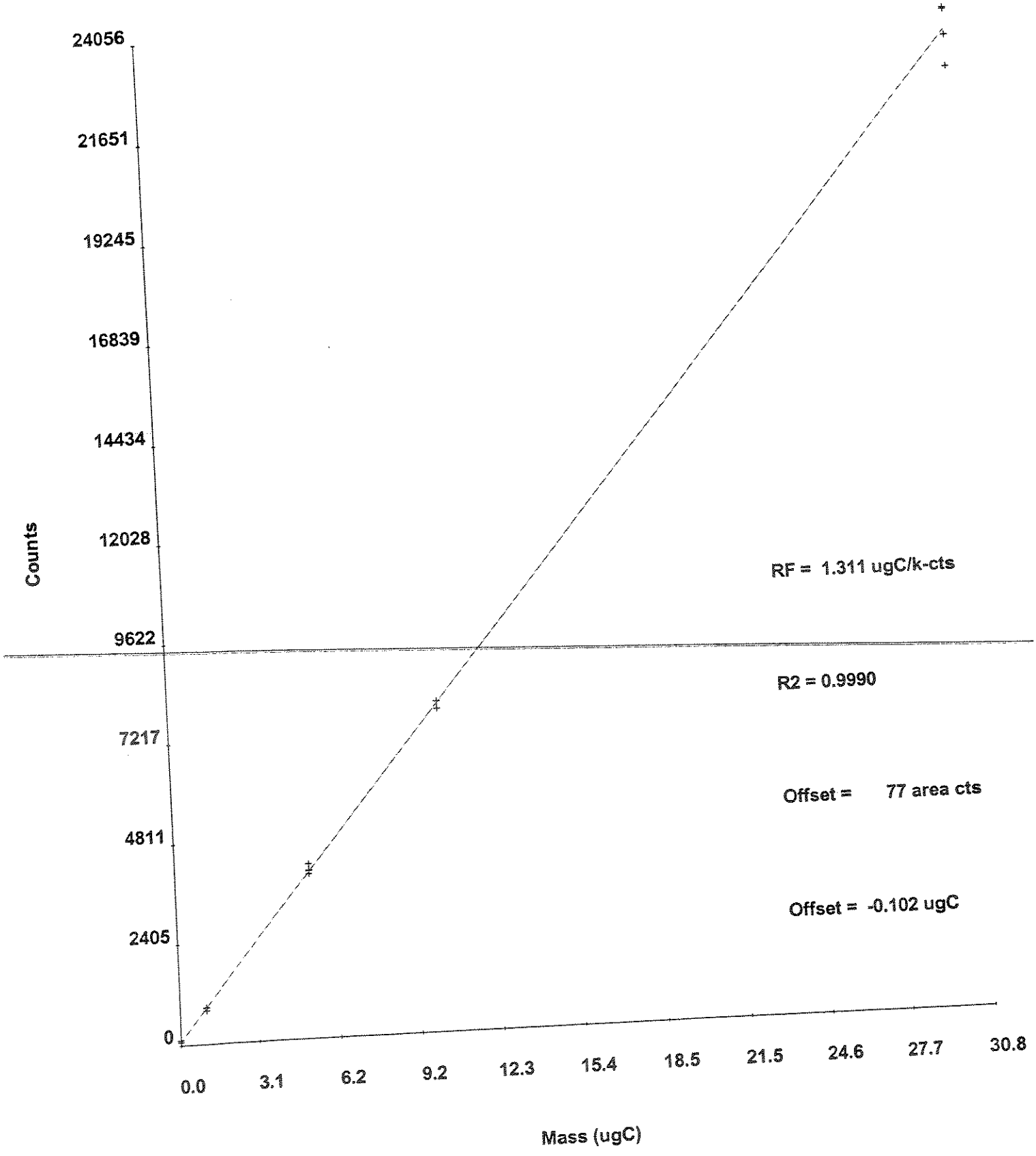
Std. #	Used	Conc. (ppm)	Volume (mL)
1	Yes	0.000	1.000
2	Yes	1.000	1.000
3	Yes	5.000	1.000
4	Yes	10.000	1.000
5	Yes	30.000	1.000

RF (ugC/k-cts): 1.311
R-Squared: 0.9990
Offset (cts): 77
Offset (ugC): -0.102
Calibration Mode: TOC
Allow Editing: No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	116	874	3940	7764	22645
2	77	794	4032	7759	23405
3	78	872	4017	7943	24057
4	79	861	4180	7940	24018
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

Calibration - 072408RL (TOC, 24Jul2008 17:51)



5/12/08 TC

(A) TOC High Level Calibration for OI Model 1010

Standards - flush per calibration

Conc. mg/L	mls 1000ppm (WC86004E)	final vol. w/ UPOI
0.00	0.00	100
1.00	0.10	100
5.00	0.50	100
10.00	1.00	100
30.00	3.00	100

(B) TOC High Level LCS TV= 10.0 mg/L flush per run
1.0 mL 1000ppm Std Stock (WC86004E) diluted volumetrically to 100 mls w/ UPOI.

(C) TOC High Level MS TV= 10.0 mg/L
Add 0.42 mL 1000 ppm Std. Stock (WC85004E) to 42 mls sample in vial

(D) TOC High Level ICV/CCV TV= 20.0 mg/L to 5/14/08 flush per run
4.0 mls 1000 ppm Ref. Stock ~~(FEE~~ (WC86005A) diluted to 200 mls volumetrically w/ UPOI.

Continued on Page

Read and Understood By

Signed Date Signed Date

TC 5/8/08

5/8/08 (A) TOC Reference Standard Stock (1000ppm)
TC (3/10). Same as WC86004E, except using KHP (WC76055F)
Exp 1 yr, 5/8/09.

5/12/08 TOC Low Level Calibration for OI model 1010
~~5/9/08~~ TC (B) Standards - flush per calibration
TC 5/12/08

Conc. (mg/L)	mls 1000ppm Std (WC86004E)	final vol. w/ LLPDI
0.00	0	100
0.05	10 mls of 0.50 Std	
0.10	10 mls of 1.00 Std	
0.50	0.05	
1.00	0.100	

(C) TOC Low Level LCS TV= 0.25 ppm
flush per run
~~0.625 mls 1000ppm Std Stock (WC86004E)~~ diluted volumetrically to 100 mls w/ LLPDI.

(D) TOC 100ppm working Stock
4.20 mls 1000ppm Std Stock (WC86004E) → 42 mls
in VOA vial w/ LLPDI

(E) TOC Low Level mls TV= 0.25ppm
TC 5/12/08 100
Add 0.105 mL ~~1000~~ ppm working Stock (WC86005D)
to 42 mls sample in vial

(F) ICV/CCV Low Level TV= 0.75 ppm flush per run
0.150 mls 1000ppm Ref Stock (WC86005A) diluted volumetrically to 200 mls w/ LLPDI.

Continued on Page

4-11-08 Δ'd purge solution + septum on purger.
CMW/SD

5-2-08 Removed + cleaned combustion + sample tubes. New combustion tube was installed.
CMW

Ⓐ TOC Calibration Standards by Lloyd Kahn

Conc (ug/g)	uL 10000ppm Std. Stock (WC86001A)
8000	80.0
5000	50.0
3000	30.0
	uL 1000ppm Std. Stock (WC86001B)
1000	100.0
500	50.0
300	30.0

Ⓑ ICV/CCV - Same as WC86001E.

Ⓒ LCS - Same as WC86001F

Ⓓ Matrix Spike - Same as WC86002A

5/8/08 Ⓔ TOC Standard Stock (1000 ppm)
TC (3969) 2.128g KHP (WC85076G), previously dried @ 104°C for 2 hours, → 1000 mls w/ UPDI. Store @ RT in amber glass. Exp. 1 yr., 5/8/09

Continued on Page

Read and Understood By

Signed Date Signed Date

R44803 R44870
R44853 R44947
R44864 R44898.
R44941 1 copied

Run #: 165050
Analyte: TOC 9060. TOC (QUAD) -REG LEVEL
Printed: 08/05/08 14:00

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114420	WATER	0.739	1.0	1.00			08/01/08		ASPB
~~ESMP~~	~~R2845193~~ CHK5	1123149	WATER	19.3	1.0	1.00	96.4		8/1/08		
~~ESMP~~	~~R2845193~~	1123149	WATER	20.8	1.0	1.00	104.0		8/1/08		
~~ESMP~~	~~R2845193~~	1123149	WATER	20.7	1.0	1.00	103.3		8/1/08		
~~ESMP~~	~~R2845193~~	1123149	WATER	20.8	1.0	1.00	104.0		8/1/08		
~~ESMP~~	~~R2845193~~ BLK4	1123150	WATER	0.266	1.0	1.00			8/1/08		
~~ESMP~~	~~R2845193~~	1123150	WATER	0.194	1.0	1.00			8/1/08		
~~ESMP~~	~~R2845193~~	1123150	WATER	0.231	1.0	1.00			8/1/08		
~~ESMP~~	~~R2845193~~	1123150	WATER	0.150	1.0	1.00			8/1/08		
SPKB		1123151	WATER	10.3	1.0	1.00	103.2		8/1/08		
SPKB		1123151	WATER	11.2	1.0	1.00	111.8		8/1/08		
SPKB		1123151	WATER	11.1	1.0	1.00	111.3		8/1/08		
SPKB		1123151	WATER	11.2	1.0	1.00	111.9		8/1/08		
SPKB		1123152	WATER	9.51	1.0	1.00	95.1		8/2/08		
SPKB		1123152	WATER	10.7	1.0	1.00	106.9		8/2/08		
SPKB		1123152	WATER	10.6	1.0	1.00	106.3		8/2/08		
SPKB		1123152	WATER	10.6	1.0	1.00	105.9		8/2/08		
ESMP	R2844803	1114420	WATER	1.10	1.0	1.00			08/01/08		ASPB
ESMP	R2844803	1114420	WATER	0.758	1.0	1.00			08/01/08		ASPB
ESMP	R2844803	1114420	WATER	0.748	1.0	1.00			08/01/08		ASPB
ESMP	R2844853	1115471	WATER	2.38	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115471	WATER	3.73	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115471	WATER	3.02	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115471	WATER	2.89	1.0	1.00			08/01/08		ASP-B
ESMP	R2844866	1115785	WATER	1.26	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115785	WATER	1.44	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115785	WATER	1.31	1.0	1.00			08/01/08		ASPB
ESMP	R2844866	1115785	WATER	1.29	1.0	1.00			08/01/08		ASPB
ESMP	R2844853	1115927	WATER	1.50	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115927	WATER	2.50	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115927	WATER	1.88	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115927	WATER	1.90	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115928	WATER	2.09	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115928	WATER	2.91	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115928	WATER	2.17	1.0	1.00			08/01/08		ASP-B
ESMP	R2844853	1115928	WATER	2.03	1.0	1.00			08/01/08		ASP-B
LDUP		1123153	WATER	1.91	1.0	1.00		9.05	8/1/08		
LDUP		1123153	WATER	2.76	1.0	1.00		5.44	8/1/08		
LDUP		1123153	WATER	2.18	1.0	1.00		0.37	8/1/08		
LDUP		1123153	WATER	2.04	1.0	1.00		0.44	8/1/08		
SPK1		1123154	WATER	11.9	1.0	1.00	98.2		8/1/08		
SPK1		1123154	WATER	13.8	1.0	1.00	108.7		8/1/08		
SPK1		1123154	WATER	12.8	1.0	1.00	106.4		8/1/08		
SPK1		1123154	WATER	12.7	1.0	1.00	107.0		8/1/08		
ESMP	R2844853	1115929	WATER	2.38	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115929	WATER	2.47	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115929	WATER	2.44	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115929	WATER	2.37	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115930	WATER	1.57	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115930	WATER	2.45	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115930	WATER	1.84	1.0	1.00			08/02/08		ASP-B

Reviewed & Approved
By: [signature]
Date: 8/5/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844853	1115930	WATER	1.95	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115931	WATER	1.87	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115931	WATER	2.32	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115931	WATER	1.92	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115931	WATER	1.87	1.0	1.00			08/02/08		ASP-B
LDUP		1123155	WATER	1.76	1.0	1.00		6.12	8/2/08		
LDUP		1123155	WATER	2.27	1.0	1.00		2.13	8/2/08		
LDUP		1123155	WATER	1.88	1.0	1.00		2.11	8/2/08		
LDUP		1123155	WATER	1.81	1.0	1.00		3.43	8/2/08		
SPK1		1123156	WATER	11.2	1.0	1.00	93.6		8/2/08		
SPK1		1123156	WATER	13.1	1.0	1.00	108.1		8/2/08		
SPK1		1123156	WATER	12.4	1.0	1.00	104.7		8/2/08		
SPK1		1123156	WATER	11.7	1.0	1.00	98.8		8/2/08		
ESMP	R2844853	1115932	WATER	2.35	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115932	WATER	3.61	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115932	WATER	2.70	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1115932	WATER	2.52	1.0	1.00			08/02/08		ASP-B
ESMP	R2844866	1116370	WATER	2.28	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116370	WATER	2.46	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116370	WATER	2.27	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116370	WATER	2.15	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116373	WATER	1.36	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116373	WATER	1.72	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116373	WATER	1.67	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116373	WATER	1.62	1.0	1.00			08/02/08		ASPB
ESMP	R2844853	1116525	WATER	7.43	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116525	WATER	9.06	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116525	WATER	8.60	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116525	WATER	8.50	1.0	1.00			08/02/08		ASP-B
LDUP		1123159	WATER	7.21	1.0	1.00		3.05	8/2/08		
LDUP		1123159	WATER	8.88	1.0	1.00		2.03	8/2/08		
LDUP		1123159	WATER	8.71	1.0	1.00		1.26	8/2/08		
LDUP		1123159	WATER	8.67	1.0	1.00		1.95	8/2/08		
SPK1		1123160	WATER	15.6	1.0	1.00	81.8		8/2/08		
SPK1		1123160	WATER	19.5	1.0	1.00	104.5		8/2/08		
SPK1		1123160	WATER	18.8	1.0	1.00	102.5		8/2/08		
SPK1		1123160	WATER	18.4	1.0	1.00	98.9		8/2/08		
ESMP	R2844853	1116526	WATER	16.4	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116526	WATER	22.5	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116526	WATER	22.6	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116526	WATER	20.5	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116527	WATER	3.87	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116527	WATER	3.37	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116527	WATER	3.09	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116527	WATER	3.00	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116529	WATER	6.27	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116529	WATER	7.86	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116529	WATER	7.08	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116529	WATER	6.83	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116530	WATER	8.29	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116530	WATER	10.8	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116530	WATER	10.9	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116530	WATER	9.80	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116531	WATER	5.21	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116531	WATER	6.85	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116531	WATER	6.19	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116531	WATER	5.85	1.0	1.00			08/02/08		ASP-B

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
LDUP		1123157	WATER	5.09	1.0	1.00		2.37	8/2/08		
LDUP		1123157	WATER	7.55	1.0	1.00		9.68	8/2/08		
LDUP		1123157	WATER	6.24	1.0	1.00		0.84	8/2/08		
LDUP		1123157	WATER	5.94	1.0	1.00		1.46	8/2/08		
SPK1		1123158	WATER	13.1	1.0	1.00	79.0		8/2/08		
SPK1		1123158	WATER	16.9	1.0	1.00	100.1		8/2/08		
SPK1		1123158	WATER	16.2	1.0	1.00	100.3		8/2/08		
SPK1		1123158	WATER	16.2	1.0	1.00	104.0		8/2/08		
ESMP	R2844853	1116533	WATER	3.06	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116533	WATER	2.65	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116533	WATER	2.36	1.0	1.00			08/02/08		ASP-B
ESMP	R2844853	1116533	WATER	2.35	1.0	1.00			08/02/08		ASP-B
ESMP	R2844866	1116921	WATER	1.05	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116921	WATER	1.24	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116921	WATER	1.08	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1116921	WATER	1.05	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1117196	WATER	1.05	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1117196	WATER	0.982	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1117196	WATER	0.910	1.0	1.00			08/02/08		ASPB
ESMP	R2844866	1117196	WATER	0.875	1.0	1.00			08/02/08		ASPB
ESMP	R2844941	1117862	WATER	4.11	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117862	WATER	4.84	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117862	WATER	4.74	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117862	WATER	4.60	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117863	WATER	2.82	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117863	WATER	3.25	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117863	WATER	2.90	1.0	1.00			08/02/08		ASP-B
ESMP	R2844941	1117863	WATER	2.84	1.0	1.00			08/02/08		ASP-B

Records printed: 136

Run #: 165191
Analyte: TOC AVG TOCAVG TOC QUAD AVERAGE (CALC.)
Printed: 08/05/08 13:52

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
ESMP	R2844803	1114420	WATER	0.838	1.0	1.00			08/01/2008		ASPB
ESMP	R2844866	1115785	WATER	1.33	1.0	1.00			08/01/2008		ASPB
ESMP	R2844866	1116370	WATER	2.29	1.0	1.00			08/02/2008		ASPB
ESMP	R2844866	1116373	WATER	1.59	1.0	1.00			08/02/2008		ASPB
ESMP	R2844866	1116921	WATER	1.11	1.0	1.00			08/02/2008		ASPB
ESMP	R2844866	1117196	WATER	0.954	1.0	1.00			08/02/2008		ASPB
CHK5		1123605	WATER	20.4	1.0	1.00			08/01/2008		
BLK4		1123606	WATER	0.210	1.0	1.00			08/01/2008		
SPKB		1123607	WATER	11.0	1.0	1.00			08/01/2008		

Records printed: 9

****
** SEQUENCE **
****

080108 Fri Aug 01 18:11:19 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
2	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
3	LCS	toc1	Chk. 5	4	1.000	0	1.00	No	
4	1114420 R-44803	toc1	Sample	4	1.000	0	1.00	No	
5	1115471 R-44853	toc1	Sample	4	1.000	0	1.00	No	
6	1115785 R-44866	toc1	Sample	4	1.000	0	1.00	No	
7	1115927 R-44853	toc1	Sample	4	1.000	0	1.00	No	
8	1115928	toc1	Sample	4	1.000	0	1.00	No	
9	1115928 DUP	toc1	Sample	4	1.000	0	1.00	No	
10	1115928 SPK	toc1	Sample	4	1.000	0	1.00	No	
11	1115929	toc1	Sample	4	1.000	0	1.00	No	
12	1115930	toc1	Sample	4	1.000	0	1.00	No	
13	1115931	toc1	Sample	4	1.000	0	1.00	No	
14	1115931 DUP	toc1	Sample	4	1.000	0	1.00	No	
15	1115931 SPK	toc1	Sample	4	1.000	0	1.00	No	
16	1115932	toc1	Sample	4	1.000	0	1.00	No	
17	1116370 R-44866	toc1	Sample	4	1.000	0	1.00	No	
18	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
19	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
20	1116373 R-44866	toc1	Sample	4	1.000	0	1.00	No	
21	1116525 R-44853	toc1	Sample	4	1.000	0	1.00	No	
22	1116525 DUP	toc1	Sample	4	1.000	0	1.00	No	
23	1116525 SPK	toc1	Sample	4	1.000	0	1.00	No	
24	1116526	toc1	Sample	4	1.000	0	1.00	No	
25	1116527	toc1	Sample	4	1.000	0	1.00	No	
26	1116528	toc1	Sample	4	1.000	0	1.00	No	Dilute 2:1
27	1116529	toc1	Sample	4	1.000	0	1.00	No	
28	1116530	toc1	Sample	4	1.000	0	1.00	No	
29	1116531	toc1	Sample	4	1.000	0	1.00	No	
30	1116531 DUP	toc1	Sample	4	1.000	0	1.00	No	
31	1116531 SPK	toc1	Sample	4	1.000	0	1.00	No	
32	1116532	toc1	Sample	4	1.000	0	1.00	No	
33	1116533	toc1	Sample	4	1.000	0	1.00	No	
34	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
35	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
36	LCS	toc1	Chk. 5	4	1.000	0	1.00	No	
37	1116921 R-44866	toc1	Sample	4	1.000	0	1.00	No	
38	1116922	toc1	Sample	4	1.000	0	1.00	No	
39	1117196	toc1	Sample	4	1.000	0	1.00	No	
40	~~1116197~~ 1117197	toc1	Sample	4	1.000	0	1.00	No	CS sample
41	1117862 R-44941	toc1	Sample	4	1.000	0	1.00	No	
42	1117863	toc1	Sample	4	1.000	0	1.00	No	
43	1116241 R-44870	toc1	Sample	2	1.000	0	1.00	No	
44	1117965 R-44947	toc1	Sample	2	1.000	0	1.00	No	

Analysts: CS, CW

Pipets: TOC/TOX WAYNE

****
** SEQUENCE **
****

080108 Fri Aug 01 18:11:19 2008

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
45	1116764 R-44898	toc1	Sample	2	1.000	0	1.00	No	
46	1116770	toc1	Sample	2	1.000	0	1.00	No	
47	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
48	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	
49	1116426 R-44866	toc1	Sample	4	1.000	0	1.00	No	Rerun 1/42 dilution
50	CCV	toc1	Chk. 5	4	1.000	0	1.00	No	
51	CCB	toc1	Chk. 5	4	1.000	0	1.00	No	

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801001.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:29	15163	19.772	19.289
2	18:37	16340	21.314	20.794
3	18:45	16242	21.186	20.669
4	18:54	16346	21.322	20.802
	Avg.	16023	20.898	20.389
	Std. Dev	575.15		
	RSD (%)	3.59		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801002.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:03	286	0.273	0.266
2	19:11	229	0.198	0.194
3	19:19	258	0.236	0.231
4	19:28	195	0.154	0.150
	Avg.	242	0.215	0.210
	Std. Dev	39.03		
	RSD (%)	16.13		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	3
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801003.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:36	8151	10.581	10.323
2	19:44	8818	11.456	11.176
3	19:52	8785	11.412	11.134
4	20:01	8830	11.471	11.191
	Avg.	8646	11.230	10.956
	Std. Dev	330.55		
	RSD (%)	3.82		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	4
Sample Name:	1114420 R-44803
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801004.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:10	656	0.758	0.739
2	20:18	942	1.132	1.105
3	20:26	671	0.777	0.758
4	20:35	663	0.767	0.748
	Avg.	733	0.858	0.838
	Std. Dev	139.47		
	RSD (%)	19.03		

CS 8/7/08 Below LR

~~OK~~
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	5
Sample Name:	1115471 R-44853
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801005.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:43	1942	2.443	2.383
2	20:51	2997	3.826	3.732
3	20:59	2439	3.094	3.019
4	21:08	2340	2.965	2.892
	Avg.	2430	3.082	3.007
	Std. Dev	435.05		
	RSD (%)	17.91		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	6
Sample Name:	1115785 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801006.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:17	1067	1.296	1.265
2	21:25	1206	1.478	1.442
3	21:33	1100	1.339	1.307
4	21:42	1090	1.326	1.294
	Avg.	1116	1.360	1.327
	Std. Dev	61.73		
	RSD (%)	5.53		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	7
Sample Name:	1115927 R-44853
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801007.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:50	1250	1.536	1.499
2	21:58	2029	2.557	2.495
3	22:06	1548	1.927	1.880
4	22:16	1562	1.945	1.898
	Avg.	1597	1.991	1.943
	Std. Dev	321.80		
	RSD (%)	20.15		

RSD >20%, Repeat
CS
8/4/08

RSD 20%
∴ OK to report
1/2 PQL RSD
limit OK

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	8
Sample Name:	1115928
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801008.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:24	1712	2.142	2.089
2	22:32	2354	2.983	2.910
3	22:40	1775	2.224	2.170
4	22:49	1667	2.083	2.032
	Avg.	1877	2.358	2.300
	Std. Dev	321.07		
	RSD (%)	17.11		

OK
CS
8/4/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	9
Sample Name:	1115928 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801009.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	22:57	1571	1.957	1.909
2	23:05	2233	2.824	2.756
3	23:13	1781	2.232	2.178
4	23:23	1673	2.090	2.039
	Avg.	1815	2.276	2.220
	Std. Dev	291.88		
	RSD (%)	16.09		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	10
Sample Name:	1115928 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	01Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801010.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	23:31	9394	12.210	11.912
2	23:39	10852	14.121	13.776
3	23:47	10094	13.127	12.807
4	23:56	10032	13.046	12.728
	Avg.	10093	13.126	12.806
	Std. Dev	596.77		
	RSD (%)	5.91		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	11
Sample Name:	1115929
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801011.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:05	1936	2.435	2.376
2	00:12	2012	2.535	2.473
3	00:20	1985	2.499	2.438
4	00:30	1933	2.431	2.372
	Avg.	1967	2.475	2.415
	Std. Dev	38.58		
	RSD (%)	1.96		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	12
Sample Name:	1115930
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801012.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	00:38	1305	1.608	1.569
2	00:46	1992	2.509	2.447
3	00:54	1513	1.881	1.835
4	01:03	1600	1.995	1.946
	Avg.	1603	1.998	1.949
	Std. Dev	287.65		
	RSD (%)	17.95		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	13
Sample Name:	1115931
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801013.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:12	1540	1.916	1.869
2	01:19	1891	2.376	2.318
3	01:27	1582	1.971	1.923
4	01:37	1540	1.916	1.869
	Avg.	1638	2.045	1.995
	Std. Dev	169.66		
	RSD (%)	10.36		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	14
Sample Name:	1115931 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801014.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	01:45	1454	1.803	1.759
2	01:53	1854	2.328	2.271
3	02:01	1548	1.927	1.880
4	02:10	1491	1.852	1.807
	Avg.	1587	1.977	1.929
	Std. Dev	182.31		
	RSD (%)	11.49		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	15
Sample Name:	1115931 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801015.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	02:19	8864	11.515	11.234
2	02:26	10346	13.458	13.129
3	02:34	9768	12.700	12.390
4	02:44	9265	12.041	11.747
	Avg.	9561	12.428	12.125
	Std. Dev	640.96		
	RSD (%)	6.70		

OK
CS
8/4/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	16
Sample Name:	1115932
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801016.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	02:52	1914	2.406	2.348
2	03:00	2901	3.700	3.610
3	03:08	2189	2.767	2.699
4	03:17	2046	2.579	2.516
	Avg.	2263	2.863	2.793
	Std. Dev	440.23		
	RSD (%)	19.46		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	17
Sample Name:	1116370 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801017.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:26	1858	2.333	2.276
2	03:34	1998	2.516	2.455
3	03:41	1851	2.324	2.267
4	03:51	1760	2.204	2.151
	Avg.	1867	2.344	2.287
	Std. Dev	98.23		
	RSD (%)	5.26		

OK
CS
8/4/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	18
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801018.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	03:59	14533	18.946	18.484
2	04:07	16126	21.034	20.521
3	04:15	16446	21.453	20.930
4	04:24	16278	21.233	20.715
	Avg.	15846	20.666	20.162
	Std. Dev	884.87		
	RSD (%)	5.58		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	19
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801019.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	04:33	260	0.239	0.233
2	04:40	154	0.100	0.098
3	04:48	167	0.117	0.114
4	04:58	139	0.080	0.079
	Avg.	180	0.134	0.131
	Std. Dev	54.55		
	RSD (%)	30.30		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	20
Sample Name:	1116373 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801020.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:06	1139	1.391	1.357
2	05:14	1424	1.764	1.721
3	05:22	1385	1.713	1.671
4	05:31	1342	1.657	1.616
	Avg.	1323	1.631	1.591
	Std. Dev	126.83		
	RSD (%)	9.59		

OK
CS
8/4/08

'm' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	21
Sample Name:	1116525 R-44853
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801021.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	05:40	5892	7.620	7.434
2	05:48	7161	9.283	9.057
3	05:55	6805	8.817	8.602
4	06:05	6723	8.709	8.497
	Avg.	6645	8.607	8.397
	Std. Dev	536.95		
	RSD (%)	8.08		

OK
CS
8/14/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	22
Sample Name:	1116525 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801022.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:13	5714	7.387	7.207
2	06:21	7021	9.100	8.878
3	06:29	6889	8.927	8.709
4	06:38	6856	8.884	8.667
	Avg.	6620	8.574	8.365
	Std. Dev	608.19		
	RSD (%)	9.19		

OK
CS
8/14/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	23
Sample Name:	1116525 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801023.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	06:47	12282	15.995	15.605
2	06:54	15335	19.996	19.509
3	07:02	14820	19.321	18.850
4	07:12	14460	18.850	18.390
	Avg.	14224	18.541	18.088
	Std. Dev	1343.70		
	RSD (%)	9.45		

OK
CS
8/14/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	24
Sample Name:	1116526
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801024.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	07:20	12934	16.850	16.439
2	07:28	17673	23.061	22.498
3	07:36	17714	23.114	22.551
4	07:45	16111	21.013	20.501
	Avg.	16108	21.010	20.497
	Std. Dev	2243.71		
	RSD (%)	13.93		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	25
Sample Name:	1116527
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801025.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	07:54	3108	3.971	3.874
2	08:01	2712	3.452	3.368
3	08:09	2494	3.167	3.089
4	08:19	2427	3.079	3.004
	Avg.	2685	3.417	3.334
	Std. Dev	306.98		
	RSD (%)	11.43		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	26
Sample Name:	1116528
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801026.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	08:27	21140	27.605	26.931
2	08:35	31720	41.471	40.460
3	08:43	30605	40.010	39.034
4	08:52	28447	37.182	36.275
	Avg.	27978	36.567	35.675
	Std. Dev	4756.82		
	RSD (%)	17.00		

Exceeds LR, Repeat
CS
9/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	27
Sample Name:	1116529
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801027.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:01	4980	6.425	6.268
2	09:08	6227	8.059	7.863
3	09:16	5613	7.254	7.077
4	09:26	5421	7.003	6.832
	Avg.	5560	7.185	7.010
	Std. Dev	517.50		
	RSD (%)	9.31		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	28
Sample Name:	1116530
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801028.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	09:34	6559	8.494	8.287
2	09:42	8500	11.038	10.769
3	09:50	8576	11.138	10.866
4	09:59	7738	10.040	9.795
	Avg.	7843	10.177	9.929
	Std. Dev	936.06		
	RSD (%)	11.93		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	29
Sample Name:	1116531
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801029.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:08	4152	5.340	5.209
2	10:15	5437	7.024	6.852
3	10:23	4919	6.345	6.190
4	10:33	4656	6.000	5.854
	Avg.	4791	6.177	6.026
	Std. Dev	535.49		
	RSD (%)	11.18		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	30
Sample Name:	1116531 DUP
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801030.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	10:41	4057	5.215	5.088
2	10:49	5980	7.735	7.547
3	10:57	4960	6.399	6.242
4	11:06	4720	6.084	5.936
	Avg.	4929	6.358	6.203
	Std. Dev	797.84		
	RSD (%)	16.19		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	31
Sample Name:	1116531 SPK
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801031.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:15	10329	13.435	13.108
2	11:22	13266	17.285	16.863
3	11:30	12765	16.628	16.223
4	11:40	12789	16.660	16.253
	Avg.	12287	16.002	15.612
	Std. Dev	1325.73		
	RSD (%)	10.79		

OK
CS
8/14/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	32
Sample Name:	1116532
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801032.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	11:48	4380	5.638	5.501
2	11:56	9602	12.483	12.178
3	12:04	7476	9.696	9.460
4	12:13	5951	7.697	7.510
	Avg.	6852	8.879	8.662
	Std. Dev	2226.69		
	RSD (%)	32.50		

RSD > 20%, Repeat
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	33
Sample Name:	1116533
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801033.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	12:22	2469	3.134	3.057
2	12:29	2147	2.712	2.646
3	12:37	1922	2.417	2.358
4	12:47	1914	2.406	2.348
	Avg.	2113	2.667	2.602
	Std. Dev	260.75		
	RSD (%)	12.34		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	34
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801034.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	12:55	13933	18.159	17.717
2	13:03	16643	21.711	21.182
3	13:11	16721	21.814	21.281
4	13:20	16487	21.507	20.982
	Avg.	15946	20.798	20.290
	Std. Dev	1345.52		
	RSD (%)	8.44		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	35
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801035.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	13:29	474	0.520	0.507
2	13:37	195	0.154	0.150
3	13:45	170	0.121	0.118
4	13:54	184	0.139	0.136
	Avg.	256	0.233	0.228
	Std. Dev	145.86		
	RSD (%)	57.03		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	36
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801036.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	14:02	7515	9.748	9.510
2	14:10	8440	10.960	10.693
3	14:18	8389	10.893	10.628
4	14:27	8359	10.854	10.589
	Avg.	8176	10.614	10.355
	Std. Dev	441.77		
	RSD (%)	5.40		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	37
Sample Name:	1116921 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801037.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	14:36	898	1.075	1.049
2	14:44	1050	1.274	1.243
3	14:52	925	1.110	1.083
4	15:01	902	1.080	1.054
	Avg.	944	1.135	1.107
	Std. Dev	71.83		
	RSD (%)	7.61		

OK
CS
8/14/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	38
Sample Name:	1116922
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801038.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:10	1213	1.488	1.451
2	15:17	2072	2.613	2.550
3	15:25	1477	1.834	1.789
4	15:35	1523	1.894	1.848
	Avg.	1571	1.957	1.909
	Std. Dev	360.70		
	RSD (%)	22.96		

RSD > 20%, Repeat
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	39
Sample Name:	1117196
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801039.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:43	898	1.075	1.049
2	15:51	846	1.007	0.982
3	15:59	790	0.933	0.910
4	16:08	762	0.896	0.875
	Avg.	824	0.978	0.954
	Std. Dev	60.44		
	RSD (%)	7.34		

~~0~~ CS 8/4/08
Below LR,
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	40
Sample Name:	~~1116107~~ 1117197
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

CS 8/4/08

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801040.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:17	1306	1.609	1.570
2	16:25	2189	2.767	2.699
3	16:32	1842	2.312	2.256
4	16:42	1550	1.929	1.882
	Avg.	1722	2.154	2.102
	Std. Dev	380.85		
	RSD (%)	22.12		

RSD > 20%, Repeat
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	41
Sample Name:	1117862 R-44941
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801041.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:50	3295	4.216	4.113
2	16:58	3860	4.957	4.836
3	17:06	3787	4.861	4.743
4	17:15	3673	4.712	4.597
	Avg.	3654	4.687	4.572
	Std. Dev	251.24		
	RSD (%)	6.88		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	42
Sample Name:	1117863
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801042.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:24	2280	2.886	2.816
2	17:32	2619	3.330	3.249
3	17:40	2346	2.973	2.900
4	17:49	2300	2.912	2.841
	Avg.	2386	3.025	2.951
	Std. Dev	157.61		
	RSD (%)	6.60		

OK
CS
8/14/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	43
Sample Name:	1116241 R-44870
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	2
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801043.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:58	1532	1.906	1.859
2	18:07	2025	2.552	2.490
	Avg.	1779	2.229	2.174
	Std. Dev	348.60		
	RSD (%)	19.60		

OK
CS
8/4/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	44
Sample Name:	1117965 R-44947
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	2
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801044.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:15	2844	3.625	3.537
2	18:25	3146	4.021	3.923
	Avg.	2995	3.823	3.730
	Std. Dev	213.55		
	RSD (%)	7.13		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	45
Sample Name:	1116764 R-44898
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	2
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801045.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:33	4725	6.091	5.942
2	18:43	5076	6.551	6.391
	Avg.	4901	6.321	6.166
	Std. Dev	248.19		
	RSD (%)	5.06		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	46
Sample Name:	1116770
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	2
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801046.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:51	4586	5.908	5.764
2	19:01	5068	6.540	6.381
	Avg.	4827	6.224	6.072
	Std. Dev	340.83		
	RSD (%)	7.06		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	47
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801047.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:09	14759	19.242	18.773
2	19:17	15949	20.802	20.294
3	19:25	15936	20.785	20.278
4	19:34	15860	20.685	20.181
	Avg.	15626	20.378	19.881
	Std. Dev	579.33		
	RSD (%)	3.71		

OK
CS
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	48
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801048.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:43	228	0.197	0.192
2	19:51	149	0.094	0.091
3	19:59	96	0.024	0.024
4	20:08	143	0.086	0.084
	Avg.	154	0.100	0.098
	Std. Dev	54.73		
	RSD (%)	35.54		

OK
CS
9/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	49
Sample Name:	1116426 R-44866
Run Type:	SAMPLE
Analysis Mode:	TICTOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	42

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801049.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:16	22179	28.966	28.260
2	20:24	24358	31.822	31.046
3	20:32	24505	32.015	31.234
4	20:42	23834	31.136	30.376
	Avg.	23719	30.985	30.229
	Std. Dev	1066.29		
	RSD (%)	4.50		

Exceeds LR, Repeat 1:100

CS
8/4/08

'*' = modified '–' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	50
Sample Name:	CCV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801050.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	20:50	18458	24.090	23.503
2	20:58	18602	24.279	23.687
3	21:06	17637	23.014	22.453
4	21:15	16804	21.922	21.388
	Avg.	17875	23.326	22.757
	Std. Dev	831.08		
	RSD (%)	4.65		

Exceeds QC limits due to sample carry over

C5
8/4/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	CCB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	02Aug2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0801051.rlt

Method Name:	toc1
Sequence Name:	080108
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	21:24	940	1.130	1.103
2	21:32	453	0.492	0.480
3	21:39	355	0.364	0.355
4	21:49	337	0.340	0.332
	Avg.	521	0.581	0.567
	Std. Dev	283.78		
	RSD (%)	54.44		

Exceeds QC limits due to sample

CS 8/14/08

'*' = modified '~' = unused

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: CW, CS

Date: 8/1/08

Analysis: Total Organic Carbon, 415.1/9060
High Level: 1.0 to 30.0 ppm

Instrument: OI Analytical Model1010 TOC Analyzer

Quality Control:

	Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC86006A, 05/12/08	WC86004E, 05/08/08				
b) I/CCV Preparation:	WC86006D, 05/12/08	WC86005A, 05/08/08	4.0	1000	200	20.00
c) LCS Preparation:	WC86006B, 05/12/08	WC86004E, 05/08/08	1.0	1000	100	10.00
d) Matrix Spike Prep.:	WC86006C, 05/12/08	WC86004E, 05/08/08	0.42	1000	42	10.00

Instrument log filled in? (Y) (N)

Comments:
Curve Date = 07/24/08

Note: Dilutions greater than 1/1 are placed in the "comments" section of the Model 1010 Analyzer report.
The "Dilution Factor" on the Model 1010 will always read "1.00"
TOC results on the Model 1010 Analyzer reports do not include the dilution factor.
Final results on the Starlims run and final report include the dilution factor.

****

SEQUENCE

****

72408 Thu Jul 24 15:02:17 2008

os/ ial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	0.00 STD	toc1	Std. 1	4	1.000	0	1.00	No	
2	1.00 STD	toc1	Std. 2	4	1.000	0	1.00	No	
3	5.00 STD	toc1	Std. 3	4	1.000	0	1.00	No	
4	10.00 STD	toc1	Std. 4	4	1.000	0	1.00	No	
5	30.00 STD	toc1	Std. 5	4	1.000	0	1.00	No	
6	ICV	toc1	Chk. 5	4	2.000	0	1.00	No	
7	ICB	toc1	Chk. 5	4	2.000	0	1.00	No	
8	LCS	toc1	Chk. 5	4	2.000	0	1.00	No	

Analyst: CW, CS

Pipets: TOC/TOX WAYNE

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	0.00 STD
Run Type:	STD 1
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724001.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:12	116	0.000	0.000
2	15:20	77	0.000	0.000
3	15:28	78	0.000	0.000
4	15:37	79	0.000	0.000
	Avg.	88	0.000	0.000
	Std. Dev	19.02		
	RSD (%)	21.73		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA [illegible]
OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	1.00 STD
Run Type:	STD 2
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724002.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	15:45	874	1.025	1.000
2	15:53	794	1.025	1.000
3	16:01	872	1.025	1.000
4	16:10	861	1.025	1.000
	Avg.	850	1.025	1.000
	Std. Dev	37.93		
	RSD (%)	4.46		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	3
Sample Name:	5.00 STD
Run Type:	STD 3
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724003.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:19	3940	5.125	5.000
2	16:27	4032	5.125	5.000
3	16:35	4017	5.125	5.000
4	16:44	4180	5.125	5.000
	Avg.	4042	5.125	5.000
	Std. Dev	100.29		
	RSD (%)	2.48		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by E.P.A. Method 9060
OI Analytical Model 1010

Sample Information:

Sample #:	4
Sample Name:	10.00 STD
Run Type:	STD 4
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724004.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	16:52	7764	10.250	10.000
2	17:00	7759	10.250	10.000
3	17:08	7943	10.250	10.000
4	17:18	7940	10.250	10.000
	Avg.	7852	10.250	10.000
	Std. Dev	103.95		
	RSD (%)	1.32		

OK
CS
8/11/08

'*' = modified '~' = unused

Report generrated by OI Analytical's TOC Reporter V5.0, using WinToc 1010 V5.0 and 1010 Firmware V5.0

Columbia Analytical Srvcs.
Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	5
Sample Name:	30.00 STD
Run Type:	STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724005.rlt

Method Name:	toc1
Sequence Name:	072408
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	17:26	22645	30.750	30.000
2	17:34	23405	30.750	30.000
3	17:42	24057	30.750	30.000
4	17:51	24018	30.750	30.000
	Avg.	23531	30.750	30.000
	Std. Dev	662.00		
	RSD (%)	2.81		

OK
CS
8/11/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

TOC by EPA 415.1 / 9060 /
SM20 5310 C

Sample Information:

Sample #:	1
Sample Name:	ICV
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724001.rit

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:16	16284	21.241	20.723
2	18:24	16358	21.338	20.817
3	18:32	16582	21.631	21.104
4	18:41	16286	21.243	20.725
	Avg.	16378	21.363	20.842
	Std. Dev	140.61		
	RSD (%)	0.86		

OK
CS
8/1/08

'*' = modified '~' = unused

:olumbia Analytical Srvcs.
Mustard Street
Rochester, NY. 14609
585-288-5380

OI Analytical Model 1010

Sample Information:

Sample #:	2
Sample Name:	ICB
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724002.rlt

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	18:49	121	0.057	0.055
2	18:57	66	-0.015	-0.015
3	19:05	83	0.007	0.007
4	19:15	70	-0.010	-0.010
	Avg.	85	0.010	0.009
	Std. Dev	25.07		
	RSD (%)	29.50		

OK
CS
8/1/08

'*' = modified '~' = unused

Columbia Analytical Srvcs.
1 Mustard Street
Rochester, NY. 14609
585-288-5380

TOC by EPA Method
OI Analytical Model 1010

Sample Information:

Sample #:	3
Sample Name:	LCS
Run Type:	CHK STD 5
Analysis Mode:	TOC
Total Reps:	4
Date:	24Jul2008
Dilution Factor:	1.00
Comments:	

Operator Name:	Unknown
Sample Volume (ml):	1.025
Loop Volume (ml):	1.025
Loop Size (ml):	1.000
Sample Intro:	AUTOSAMPLER
Remote Start:	OFF
File Name:	0724003.rlt

Method Name:	toc1
Sequence Name:	072408b
Calibration Name:	072408rl
PAM Mode:	OFF
PAM Volume (ul):	0
PAM Purge (min:sec):	0:30

Sample Results:

Rep #	Time	TOC Area (cnts)	TOC Mass (ugC)	TOC Conc (ppm)
1	19:23	7739	10.041	9.796
2	19:31	8083	10.492	10.236
3	19:39	8392	10.897	10.631
4	19:48	8282	10.753	10.491
	Avg.	8124	10.546	10.289
	Std. Dev	286.76		
	RSD (%)	3.53		

OK
CS
8/11/08

'*' = modified '~' = unused

****
CALIBRATION
****

72408RL Thu Jul 24 17:51:34 2008

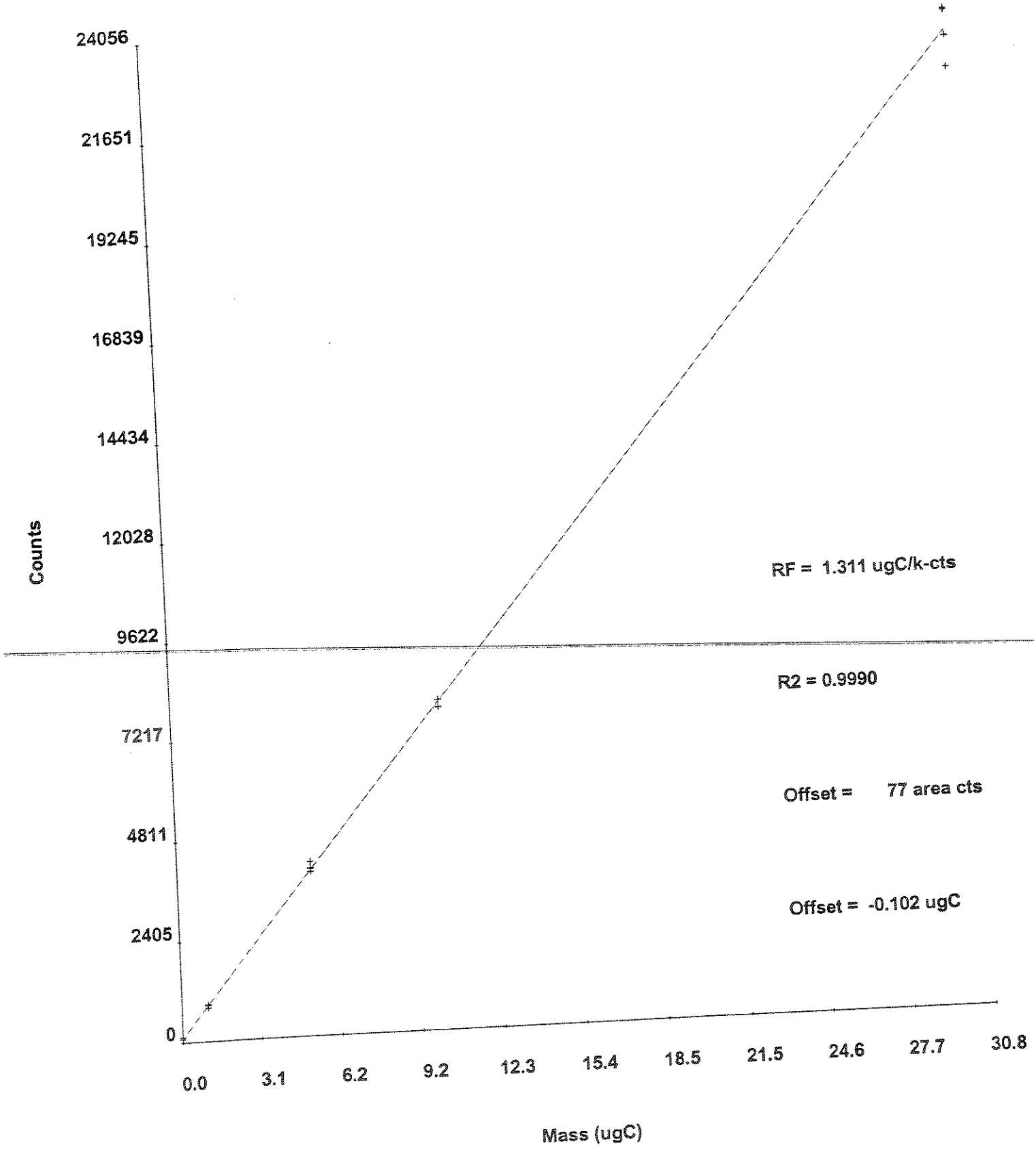
Std. #	Used	Conc. (ppm)	Volume (mL)
1	Yes	0.000	1.000
2	Yes	1.000	1.000
3	Yes	5.000	1.000
4	Yes	10.000	1.000
5	Yes	30.000	1.000

RF (ugC/k-cts):	1.311
R-Squared:	0.9990
Offset (cts):	77
Offset (ugC):	-0.102
Calibration Mode:	TOC
Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	116	874	3940	7764	22645
2	77	794	4032	7759	23405
3	78	872	4017	7943	24057
4	79	861	4180	7940	24018
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

Calibration - 072408RL (TOC, 24Jul2008 17:51)



5/12/08 TC

(A) TOC High Level Calibration for OI Model 1010

Standards - fresh per calibration

Conc. mg/L	mls 1000ppm (WC860C4E)	final vol. w/ UPOI
0.00	0.00	100
1.00	0.10	100
5.00	0.50	100
10.00	1.00	100
30.00	3.00	100

(B) TOC High Level LCS TV= 10.0 mg/L fresh per run
1.0 mL 1000ppm Std Stock (WC860C4E) diluted volumetrically to 100 mls w/ UPOI.

(C) TOC High Level MS TV= 10.0 mg/L
Add 0.42 mL 1000ppm Std. Stock (WC85004E) to 42 mls sample in vial.

(D) TOC High Level ICV/CCV TV= 20.0 mg/L fresh per run per 5/12/08
4.0 mls 1000ppm Ref. Stock ~~TOC~~ (WC86005A) diluted to 200 mls volumetrically w/ UPOI.

Continued on Page

Read and Understood By

Signed Date Signed Date

TC 5/8/08

5/8/08 (A) TOC Reference Standard Stock (1000ppm)
TC (3910) same as WC86004E, except using KHP (WC76085F)
Exp 1 yr, 5/8/09.

5/12/08 TOC low Level Calibration for OI model 1010
5/12/08 TC (B) Standards - flush per calibration
5/12/08 TC

Conc. (mg/L)	mls 1000ppm Std (WC86004E)	final vol. w/ LIPDI
0.00	0	100
0.05	10mls of 0.50 Std	
0.10	10 mls of 1.00 Std	
0.50	0.05	
1.00	0.100	

(C) TOC Low Level LCS TV= 0.25ppm
-flush per run
~~0.025 mls 1000ppm Std Stock (WC86004E) diluted~~
volumetrically to 100 mls w/ LIPDI.

(D) TOC 100ppm working Stock
4.20 mls 1000ppm Std Stock (WC86004E) → 42 mls
in VOA vial w/ LIPDI

(E) TOC Low Level MS TV= 0.25ppm
TC 5/12/08 100
Add 0.105 mL ~~1000~~ ppm working Stock (WC86005D)
to 42 mls sample in vial

(F) ICV/CCV Low Level TV= 0.75ppm -flush per run
0.150 mls 1000ppm Ref Stock (WC86005A) diluted
volumetrically to 200mls Read and Understood By
w/ LIPDI.

Continued on Page

4-11-08 Δ'd purge solution + septum on purger.
CMW/SD

5-2-08 Removed + cleaned combustion + sample tubes. New combustion tube was installed.
CMW

Ⓐ TOC Calibration Standards by Lloyd Kahn

Conc (ug/g)	uL 10000ppm Std. Stock (WC86001A)
8000	80.0
5000	50.0
3000	30.0
	uL 1000ppm Std. Stock (WC86001D)
1000	100.0
500	50.0
300	30.0

Ⓑ ICV/CCV - Same as WC86001E.

Ⓒ LCS - Same as WC86001F

Ⓓ Matrix Spike - Same as WC86002A

5/8/08 Ⓔ TOC Standard Stock (1000 ppm)
TC (3909) 2.128g KHP (WC85076G), previously dried @ 104°C for 2 hours, → 1000 mls w/ UPDI. Store @ RT in amber glass. Exp. 1 yr., 5/8/09

Continued on Page

Read and Understood By

Signed Date Signed Date

R44650
R44768
R44797
R44803 4 copies

Run #: 163406
Analyte: TP 365.1 PHOSPHORUS, TOTAL
Printed: 07/09/08 14:02

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1115803	WATER	1.49		1.0	0.0500	99.4		07/09/2008		
BLK1		1115804	WATER	0.0500	U	1.0	0.0500			07/09/2008		
BLK2		1115805	WATER	0.0500	U	1.0	0.0500			07/09/2008		
SPKB		1115806	WATER	0.784		1.0	0.0500	97.9		07/09/2008		
BLK2		1115807	WATER	0.0500	U	1.0	0.0500			07/09/2008		
SPKB		1115808	WATER	0.782		1.0	0.0500	97.8		07/09/2008		
ESMP	R2844650	1112809	WATER	0.0579		1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112810	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112811	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112812	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112871	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112872	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1112874	WATER	0.0500	U	1.0	0.0500			07/09/2008	QC	ASPB
LDUP		1115811	WATER	0.0500	U	1.0	0.0500			07/09/2008		
SPK1		1115812	WATER	0.798		1.0	0.0500	99.7		07/09/2008		
ESMP	R2844650	1113426	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1113427	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1113428	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1113429	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844650	1113430	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844768	1113695	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844768	1113696	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844768	1113697	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844768	1113698	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844768	1113699	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844207	1105469	WATER	1.52		5.0	0.0500			07/09/2008	QC	2
LDUP		1115813	WATER	1.52		5.0	0.0500		0.32	07/09/2008		
SPK1		1115814	WATER	5.45		5.0	0.0500	98.2		07/09/2008		
ESMP	R2844797	1114366	SOIL/SEDIME	127		1.0	5.00			07/09/2008		ASPB
BLK2		1115809	SOIL/SEDIME	5.00	U	1.0	5.00			07/09/2008		
SPKS		1115810	SOIL/SEDIME	78.1		1.0	5.00	97.7		07/09/2008		
ESMP	R2844797	1114376	SOIL/SEDIME	60.9		1.0	5.00			07/09/2008		ASPB
ESMP	R2844797	1114379	SOIL/SEDIME	863		10.0	5.00			07/09/2008		ASPB
ESMP	R2844797	1114380	SOIL/SEDIME	816		10.0	5.00			07/09/2008	QC	ASPB
LDUP		1115817	SOIL/SEDIME	741		10.0	5.00		9.65	07/09/2008		
SPK1		1115818	SOIL/SEDIME	747		10.0	5.00	-89.7		07/09/2008		
ESMP	R2844797	1114382	SOIL/SEDIME	536		10.0	5.00			07/09/2008		ASPB
ESMP	R2844803	1114419	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844803	1114420	WATER	0.0500	U	1.0	0.0500			07/09/2008		ASPB
ESMP	R2844803	1114421	WATER	0.0500	U	1.0	0.0500			07/09/2008	QC	ASPB
LDUP		1115815	WATER	0.0500	U	1.0	0.0500			07/09/2008		
SPK1		1115816	WATER	0.798		1.0	0.0500	99.7		07/09/2008		
ESMP	R2844804	1114423	WATER	0.234		1.0	0.0500			07/09/2008	RUN	2

Records printed: 43

Reviewed & Approved
By: CK
Date: 7/15/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyte: TPO4 Digest
Analyst: Tracy Christ
Pipet ID: Robin

Low Level / Regular Level
Date: 7/3/08
Spk Witness: GN

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB 1 RL	25 20	1		
2		LCS INORG	20	1	0.2	100 PPM
3		LCS ORG	20	1	0.2	100 PPM
4	R-44650	1112809	20	1		
5		1112810	20	1		
6		1112811	20	1		
7		1112812	20	1		
8		1112871	20	1		
9		1112872	20	1		
10		1112874	20	1		
11		874 DUP	20	1		
12		874 SPK	20	1	0.2	100 PPM
13		1113426	20	1		
14		1113427	20	1		
15		1113428	20	1		
16		1113429	20	1		
17		1113430	20	1		
18		1113695	20	1		
19		1113696	20	1		
20		1113697	20	1		
21		1113698	20	1		
22		1113699	20	1		
23	R-44207	1105469	5 4	5		
24		469 DUP	5 4	5		
25		469 SPK	5 4	5	0.2	100 PPM
26	R-44803	1114419	25 20	1		
27		1114420	20	1		
28		PB 2 RL	20	1		
29		LCS INORG	20	1	0.2	100 PPM
30		LCS ORG	20	1	0.2	100 PPM
31		1114421	20	1		
32		421 DUP	20	1		
33		421 SPK	20	1	0.2	100 PPM
34	R-44804	1114423	20	1		
35		PB 3 SOIL	0.25 → 25			
36		LCS INORG	0.25 → 25		0.2	100 PPM
37		LCS ORG	0.25 → 25		0.2	100 PPM
38	R-44797	1114366	0.25 → 25			
39		1114376	0.25 → 25			
40		1114379	0.26 → 25			
41		1114380	0.26 → 25			
42		380 DUP	0.26 → 25			
43		380 SPK	0.26 → 25		0.2	100 PPM
44		1114382	0.26 → 25			
45						
46						
47						TC 7/3/08
48						
49						
50						

Creator: NMEAD
Creation Date: Jul 8, 2008 14:04:30
Last Modified: Jul 9, 2008 9:17:49
Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807090A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.00	1.0000	CalStd	
2	Standard B - 1.00	1.0000	CalStd	
3	Standard C - 0.50	1.0000	CalStd	
4	Standard D - 0.20	1.0000	CalStd	
5	Standard E - 0.10	1.0000	CalStd	
6	Standard F - 0.05	1.0000	CalStd	
7	Standard G - 0.02	1.0000	CalStd	
8	Standard H - 0.00	1.0000	CalStd	
1	ICV TV= 1.5	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	PB-1	1.0000	Unknown	
4	LCS-1 INORG. TV= 0.8	1.0000	Unknown	
5	LCS-1 ORG. TV= 0.8	1.0000	Unknown	
6	PB-2	1.0000	Unknown	
7	LCS-2 INORG.	1.0000	Unknown	
8	LCS-2 ORG.	1.0000	Unknown	
9	PB-SOIL	1.0000	Unknown	— Bad integration - not @#5
10	LCS-SOIL INORG. TV= 80	1.0000	Unknown	soil: 0.25 g → 25 mL
11	LCS-SOIL ORG. TV= 80	1.0000	Unknown	↓ ↓ ↓
12	CCV	1.0000	Unknown	
13	CCB	1.0000	Unknown	
14	CRDL - 0.10	1.0000	Unknown	
15	CRDL - 0.05	1.0000	Unknown	
16	1112809-44650	1.0000	Unknown	
17	1112810	1.0000	Unknown	
18	1112811	1.0000	Unknown	
19	1112812	1.0000	Unknown	
20	1112871	1.0000	Unknown	
21	1112872	1.0000	Unknown	
22	1112874	1.0000	Unknown	
23	874 DUP	1.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	874 SPK TV= 0.80	1.0000	Unknown	
27	1113426	1.0000	Unknown	
28	1113427	1.0000	Unknown	
29	1113428	1.0000	Unknown	
30	1113429	1.0000	Unknown	
31	1113430	1.0000	Unknown	
32	1113695	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
33	1113696	1.0000	Unknown	
34	1113697	1.0000	Unknown	
35	1113698	1.0000	Unknown	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	tray ends here -
38	1113699	1.0000	Unknown	next CCB has
39	1105469-44207	5.0000	Unknown	air spikes
40	469 DUP	5.0000	Unknown	
41	469 SPK TV= 4.0	5.0000	Unknown	
42	1114419-44803	1.0000	Unknown	
43	1114420	1.0000	Unknown	
44	1114421	1.0000	Unknown	
45	421 DUP	1.0000	Unknown	
46	421 SPK TV= 0.8	1.0000	Unknown	
47	1114423-44804	1.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	- air spikes - rpt tray
50	1114366S-44797	10.0000	Unknown	from # 36
51	1114376S	10.0000	Unknown	
52	1114379S	10.0000	Unknown	
53	1114380S	10.0000	Unknown	
54	380S DUP	10.0000	Unknown	
55	380S SPK TV= 76.9	10.0000	Unknown	
56	1114382S	10.0000	Unknown	
57	PB-SOIL RPT	1.0000	Unknown	
58	CCV	1.0000	Unknown	
59	CCB	1.0000	Unknown	

Creator: NMEAD
Creation Date: Jul 9, 2008 9:33:56
Last Modified: Jul 9, 2008 9:51:01
Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 080709A2

Cup #	Sample ID	Manual Dilution	Sample Type	
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	1113699	1.0000	Unknown	
39	1105469-44207	5.0000	Unknown	
40	469 DUP	5.0000	Unknown	
41	469 SPK TV= 4.0	5.0000	Unknown	
42	1114419-44803	1.0000	Unknown	
43	1114420	1.0000	Unknown	
44	1114421	1.0000	Unknown	
45	421 DUP	1.0000	Unknown	
46	421 SPK TV= 0.8	1.0000	Unknown	
47	1114423-44804	1.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	
50	1114366S-44797	1.0000	Unknown	soil: 0.25g → 25mL
51	1114376S	1.0000	Unknown	+ air spike - rpt @ #58
52	1114379S	10.0000	Unknown	soil: 0.26g → 25mL
53	1114380S	10.0000	Unknown	0.26g →
54	380S DUP	10.0000	Unknown	0.26g →
55	380S SPK TV= 76.9	10.0000	Unknown	0.26g →
56	1114382S	10.0000	Unknown	0.26g →
57	PB-SOIL RPT	1.0000	Unknown	0.25g → - okay
58	1114376S RPT	1.0000	Unknown	0.25g →
59	CCV	1.0000	Unknown	
60	CCB	1.0000	Unknown	+ air spike - <PQL

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
1	ICV TV= 1.5	09 Jul 2008	08:55:53	1	1.4904	1.0	1.00	
2	ICB	09 Jul 2008	08:56:36	1	0.0058	1.0	1.00	
3	PB-1	09 Jul 2008	08:57:20	1	0.0058	1.0	1.00	
4	LCS-1 INORG. TV= 0.8	09 Jul 2008	08:58:04	1	0.7835	1.0	1.00	
5	LCS-1 ORG. TV= 0.8	09 Jul 2008	08:58:47	1	0.8305	1.0	1.00	
6	PB-2	09 Jul 2008	08:59:30	1	0.0058	1.0	1.00	
7	LCS-2 INORG.	09 Jul 2008	09:00:12	1	0.7820	1.0	1.00	
8	LCS-2 ORG.	09 Jul 2008	09:00:55	1	0.8567	1.0	1.00	
9	PB-SOIL	09 Jul 2008	09:01:37	1	0.0075	1.0	1.00	- Bad integration - rpt @#57
10	LCS-SOIL INORG. TV= 80	09 Jul 2008	09:02:20	1	0.7812	1.0	1.00	= 78.12
11	LCS-SOIL ORG. TV= 80	09 Jul 2008	09:03:02	1	0.8494	1.0	1.00	= 84.94
12	CCV	09 Jul 2008	09:03:45	1	1.5017	1.0	1.00	
13	CCB	09 Jul 2008	09:04:26	1	0.0058	1.0	1.00	
14	CRDL - 0.10	09 Jul 2008	09:05:08	1	0.1001	1.0	1.00	
15	CRDL - 0.05	09 Jul 2008	09:05:49	1	0.0533	1.0	1.00	
16	1112809-44650	09 Jul 2008	09:06:33	1	0.0579	1.0	1.00	
17	1112810	09 Jul 2008	09:07:17	1	0.0269	1.0	1.00	
18	1112811	09 Jul 2008	09:08:00	1	0.0331	1.0	1.00	
19	1112812	09 Jul 2008	09:08:44	1	0.0131	1.0	1.00	
20	1112871	09 Jul 2008	09:09:28	1	0.0207	1.0	1.00	
21	1112872	09 Jul 2008	09:10:11	1	0.0209	1.0	1.00	
22	1112874	09 Jul 2008	09:10:54	1	0.0284	1.0	1.00	
23	874 DUP	09 Jul 2008	09:11:36	1	0.0267	1.0	1.00	
[illegible]	CCV	09 Jul 2008	09:12:19	1	1.4757	1.0	1.00	
[illegible]	CCB	09 Jul 2008	09:13:02	1	0.0058	1.0	1.00	

dil: 5g → 250 mL

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
26	874 SPK TV= 0.80	09 Jul 2008	09:13:44	1	0.7977	1.0	1.00
27	1113426	09 Jul 2008	09:14:27	1	0.0221	1.0	1.00
28	1113427	09 Jul 2008	09:15:09	1	0.0203	1.0	1.00
29	1113428	09 Jul 2008	09:15:52	1	0.0202	1.0	1.00
30	1113429	09 Jul 2008	09:16:33	1	0.0251	1.0	1.00
31	1113430	09 Jul 2008	09:17:17	1	0.0236	1.0	1.00
32	1113695	09 Jul 2008	09:18:01	1	0.0200	1.0	1.00
33	1113696	09 Jul 2008	09:18:44	1	0.0431	1.0	1.00
34	1113697	09 Jul 2008	09:19:28	1	0.0151	1.0	1.00
35	1113698	09 Jul 2008	09:20:11	1	0.0142	1.0	1.00
36	CCV	09 Jul 2008	09:20:55	1	1.4862	1.0	1.00
37	CCB	09 Jul 2008	09:21:38	1	0.0058	1.0	1.00
38	1113699	09 Jul 2008	09:22:22	1	0.0155	1.0	1.00
39	1105469-44207	09 Jul 2008	09:23:04	1	1.5361	5.0	1.00
40	469 DUP	09 Jul 2008	09:23:47	1	1.5140	5.0	1.00
41	469 SPK TV= 4.0	09 Jul 2008	09:24:30	1	5.4911	5.0	1.00
42	1114419-44803	09 Jul 2008	09:25:12	1	0.0247	1.0	1.00
43	1114420	09 Jul 2008	09:25:55	1	0.0249	1.0	1.00
44	1114421	09 Jul 2008	09:26:37	1	0.0254	1.0	1.00
45	421 DUP	09 Jul 2008	09:27:20	1	0.0258	1.0	1.00
46	421 SPK TV= 0.8	09 Jul 2008	09:28:03	1	0.7984	1.0	1.00
47	1114423-44804	09 Jul 2008	09:28:47	1	0.2330	1.0	1.00
48	CCV	09 Jul 2008	09:29:31	1	1.4920	1.0	1.00
49	CCB	09 Jul 2008	09:30:14	1	0.0101	1.0	1.00
50	1114366S-44797	09 Jul 2008	09:30:58	1	1.2933	10.0	1.00

peak shape fine
less than pql - ~~peak shape~~

tray ends here - next ccb has air

mm 7/9/08

air spikes - re-run tray from #36

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
51	1114376S	09 Jul 2008	09:31:41	1	0.6658	10.0	1.00

nm 7/9/08

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 9:34:15
DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor
36	CCV	09 Jul 2008	09:34:18	1	1.5001	1.0	1.00
37	CCB	09 Jul 2008	09:35:01	1	0.0058	1.0	1.00
38	1113699	09 Jul 2008	09:35:44	1	0.0142	1.0	1.00
39	1105469-44207	09 Jul 2008	09:36:26	1	1.5250	5.0	1.00
40	469 DUP	09 Jul 2008	09:37:09	1	1.5152	5.0	1.00
41	469 SPK TV= 4.0	09 Jul 2008	09:37:51	1	5.4475	5.0	1.00
42	1114419-44803	09 Jul 2008	09:38:34	1	0.0237	1.0	1.00
43	1114420	09 Jul 2008	09:39:16	1	0.0245	1.0	1.00
44	1114421	09 Jul 2008	09:39:59	1	0.0255	1.0	1.00
45	421 DUP	09 Jul 2008	09:40:41	1	0.0256	1.0	1.00
46	421 SPK TV= 0.8	09 Jul 2008	09:41:25	1	0.7978	1.0	1.00
47	1114423-44804	09 Jul 2008	09:42:09	1	0.2340	1.0	1.00
48	CCV	09 Jul 2008	09:42:52	1	1.5039	1.0	1.00
49	CCB	09 Jul 2008	09:43:36	1	0.0058	1.0	1.00
50	1114366S-44797	09 Jul 2008	09:44:20	1	1.2729	1.0	1.00

include 1/5 dil. @ digest

dil 1/5 = 35 mL

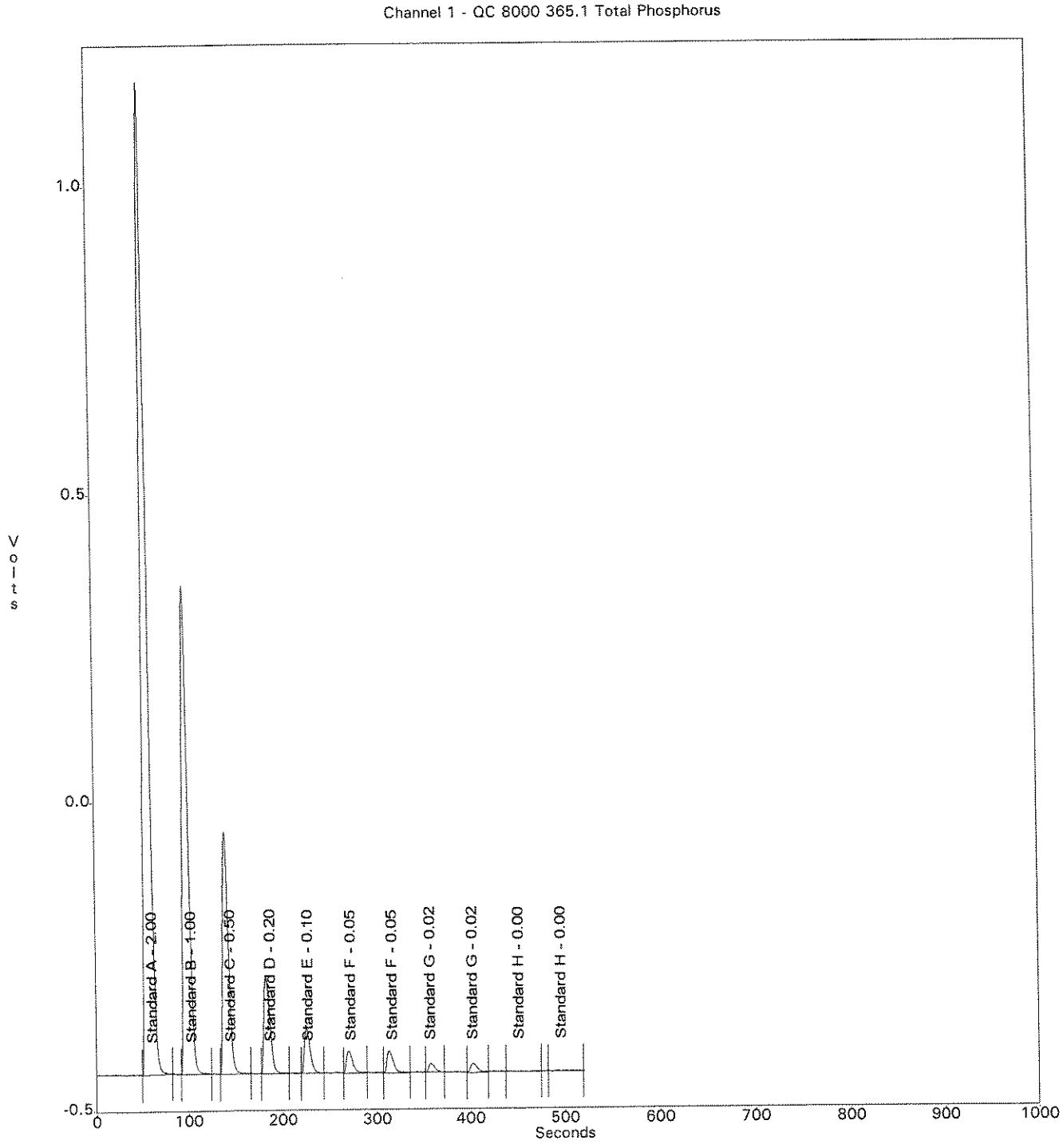
= 127.29

OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 9:34:15
DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA

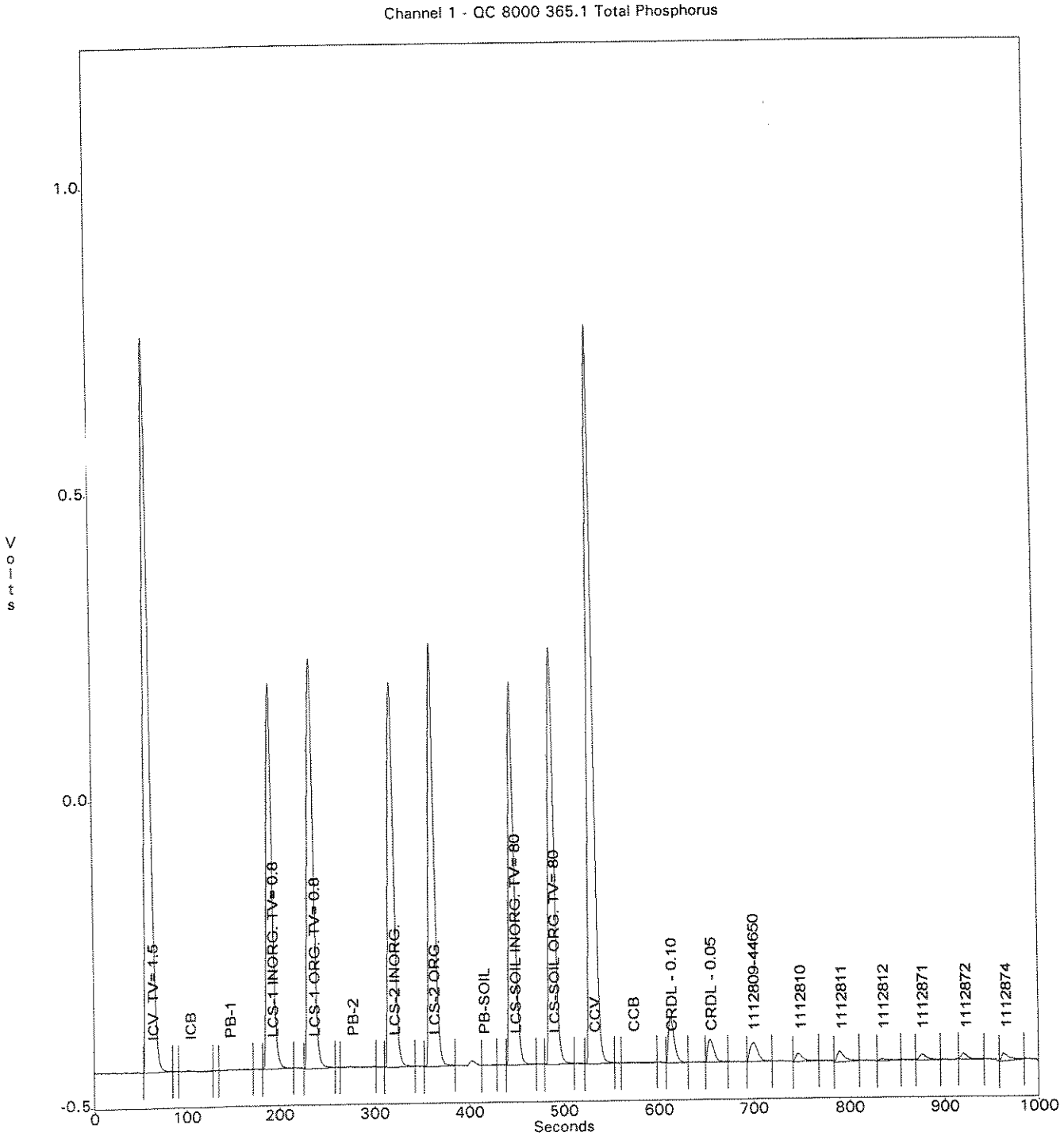
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1114376S	09 Jul 2008	09:45:03	1	0.6580	1.0	1.00	– air spike - mpt@ # 58
52	1114379S	09 Jul 2008	09:45:47	1	8.9795	10.0	1.00	= 863.41
53	1114380S	09 Jul 2008	09:46:30	1	8.4925	10.0	1.00	= 816.59
54	380S DUP	09 Jul 2008	09:47:13	1	7.7051	10.0	1.00	= 740.88
55	380S SPK TV= 76.9	09 Jul 2008	09:47:56	1	7.7693	10.0	1.00	= 747.05
56	1114382S	09 Jul 2008	09:48:38	1	5.5737	10.0	1.00	= 535.93
57	PB-SOIL RPT	09 Jul 2008	09:49:21	1	0.0164	1.0	1.00	= < 5.00 - okay
58	1114376S RPT	09 Jul 2008	09:50:03	1	0.6086	1.0	1.00	= 60.86
59	CCV	09 Jul 2008	09:50:46	1	1.4971	1.0	1.00	
60	CCB	09 Jul 2008	09:51:28	1	0.0058	1.0	1.00	small air - less than ppl

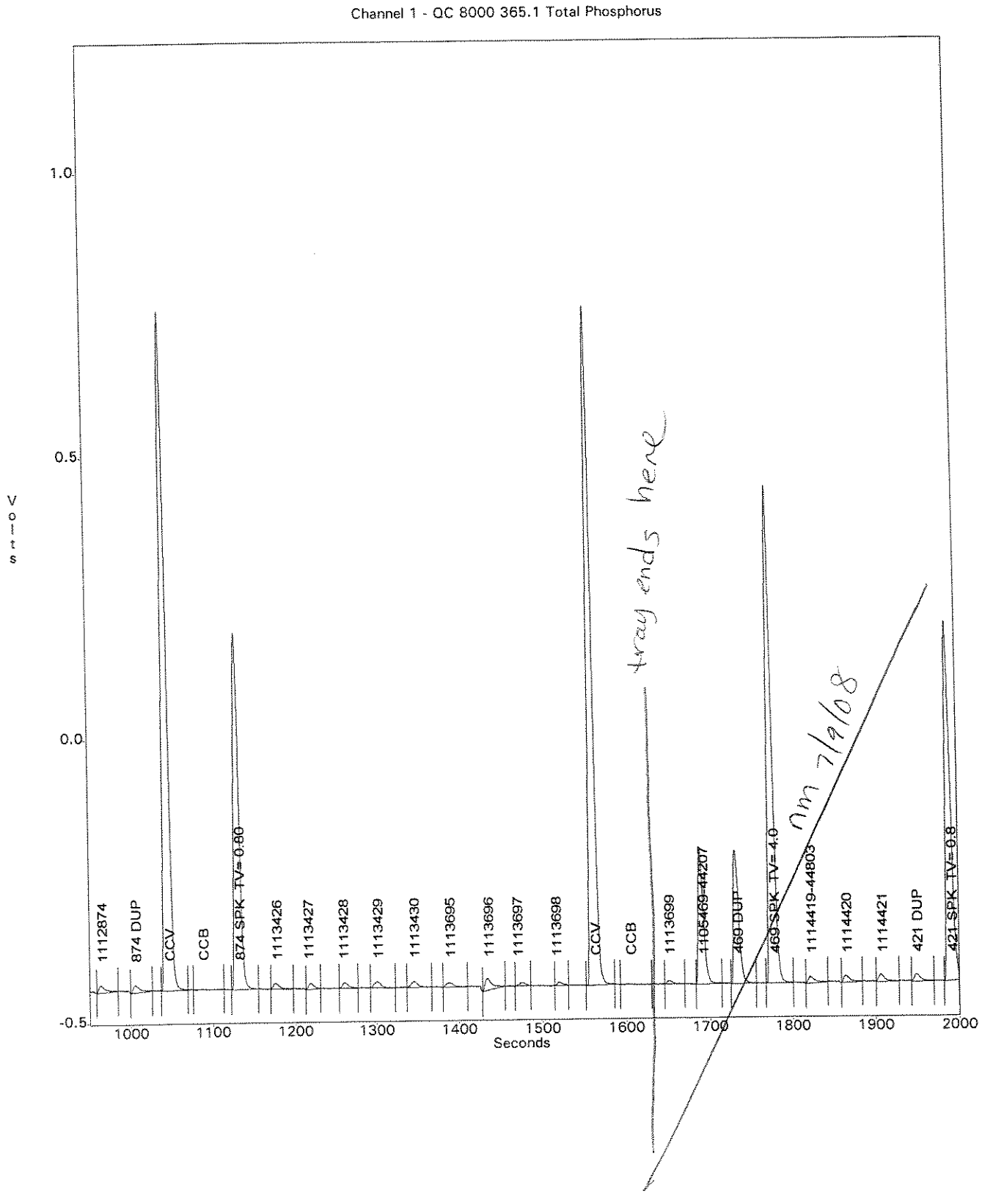
OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:43:02
DATA FILENAME: C:\OMNION\DATA\0807090A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA



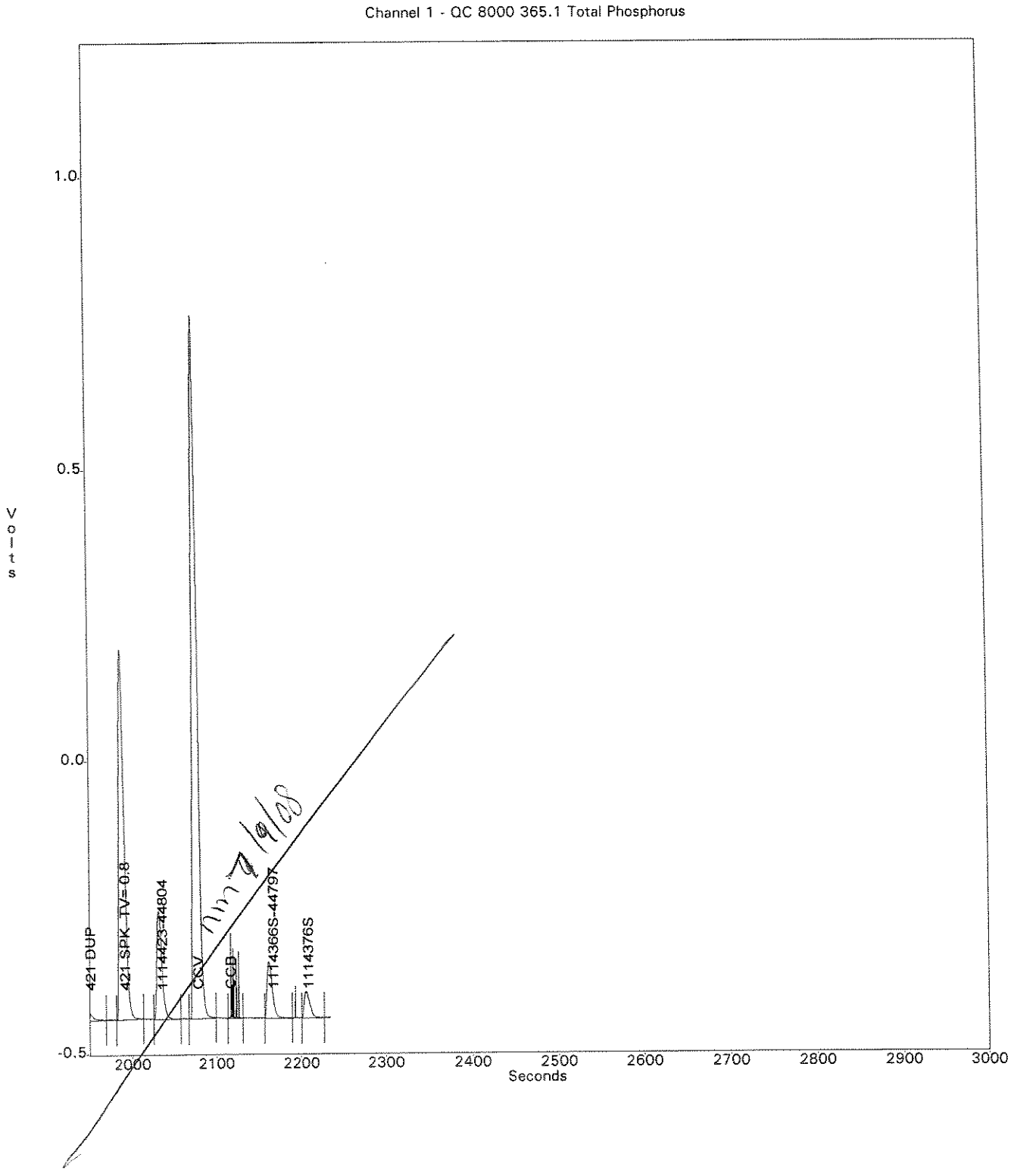
OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

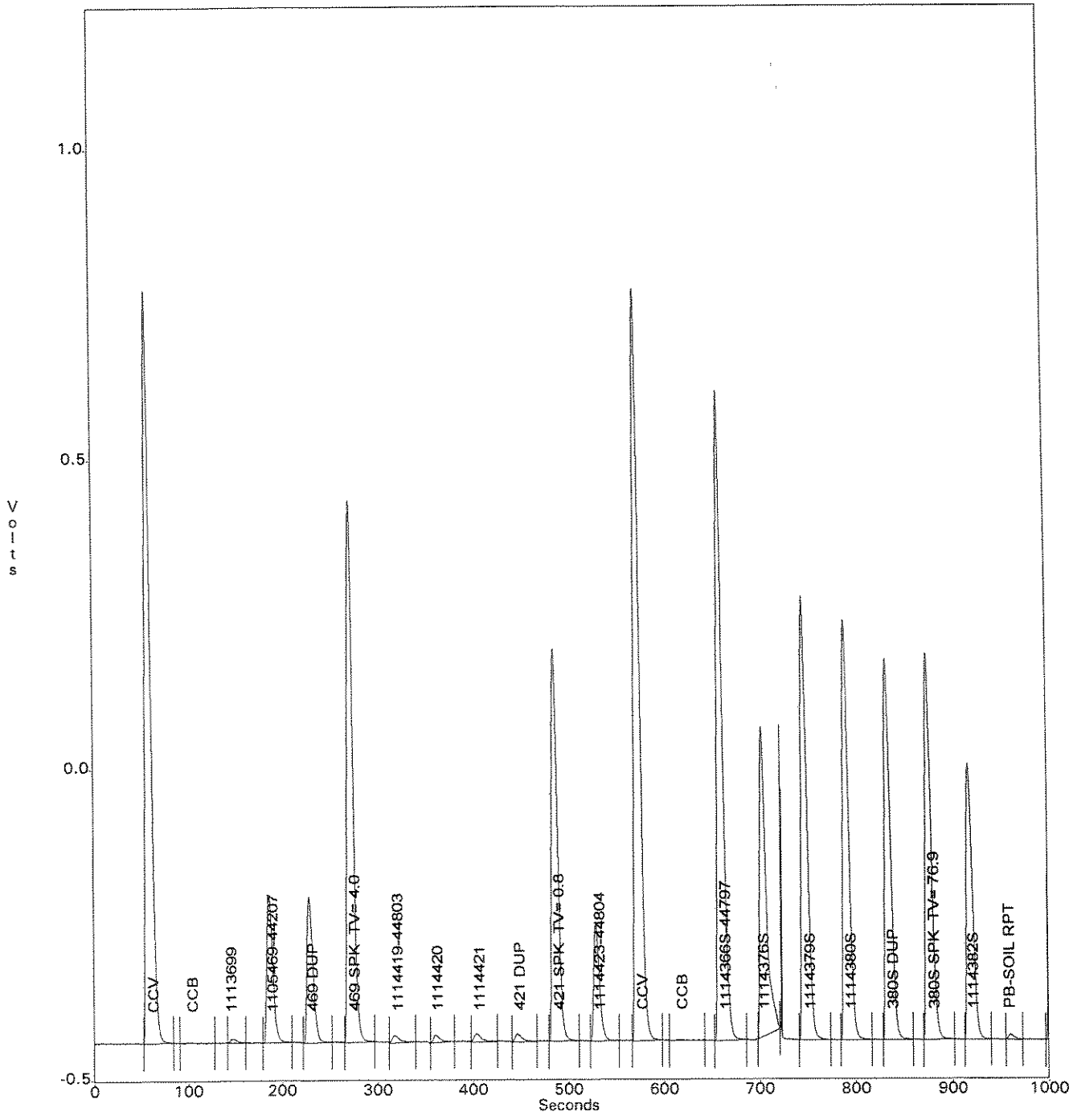


OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 8:55:50
DATA FILENAME: C:\OMNION\DATA\080709A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807090A.TRA

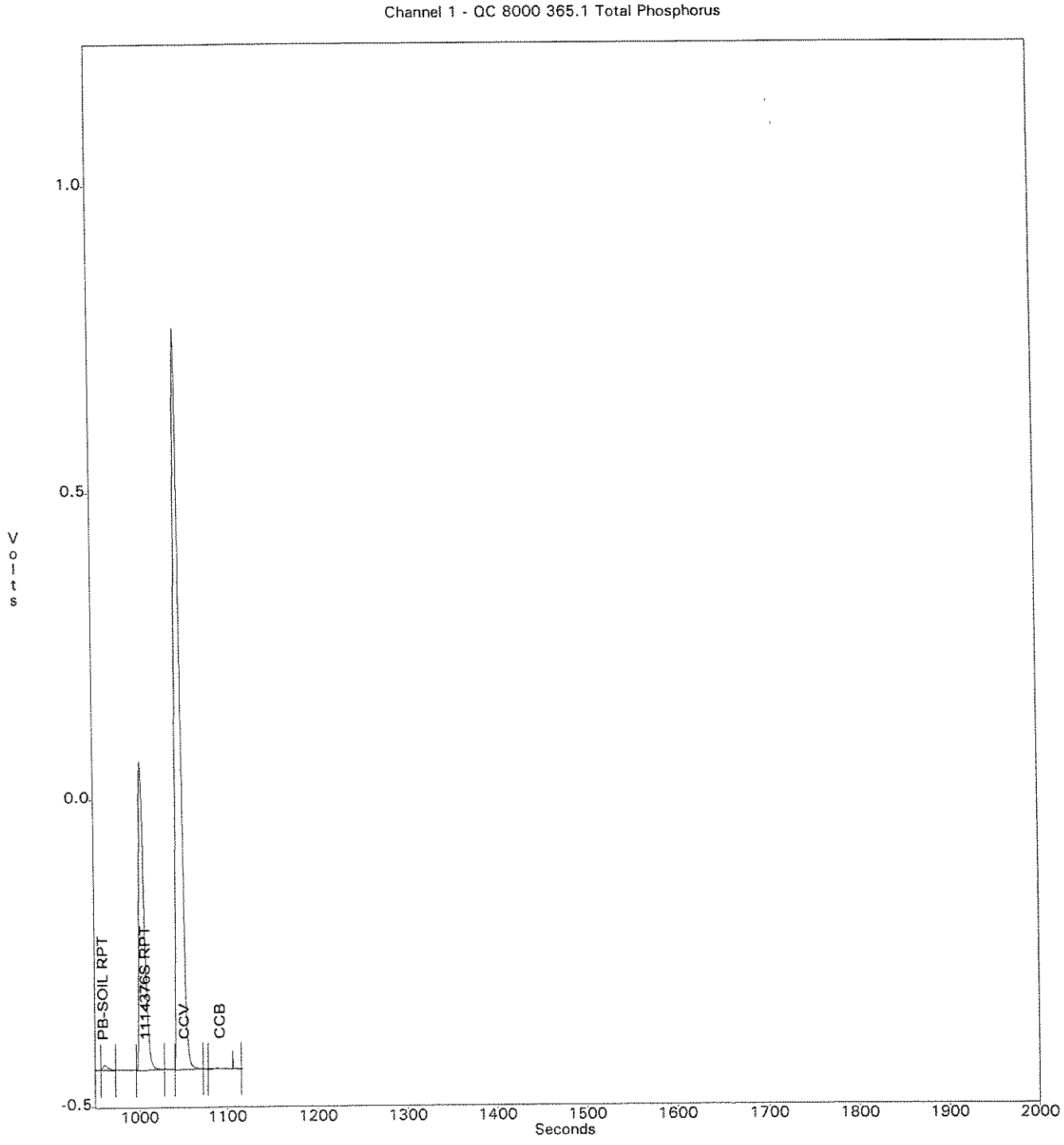


OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 9:34:15
DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA

Channel 1 - QC 8000 365.1 Total Phosphorus



OPERATOR: NMEAD
ACQ. TIME: Jul 9, 2008 9:34:15
DATA FILENAME: C:\OMNION\DATA\080709A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080709A2.TRA



OPERATOR:	NMEAD
ACQ. TIME:	Jul 9, 2008 8:43:02
DATA FILENAME:	C:\OMNION\DATA\0807090A.FDT
METHOD FILENAME:	C:\OMNION\METHODS\TPO4B.MET
TRAY FILENAME:	C:\OMNION\TRAYS\0807090A.TRA

TRAY DESCRIPTION:

Created:	Jul 8, 2008 14:04:30
Modified:	Jul 9, 2008 7:48:03

QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807090A

DATA DESCRIPTION:

Created:	Jul 9, 2008 8:43:02
Modified:	Jul 9, 2008 8:43:02

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:

Created:	Feb 25, 2008 14:38:43
Modified:	Jul 2, 2008 10:24:29

Total Phosphorus - 2.00 -- 0.05

ANALYTE DATA:

Analyte Name:	QC 8000 365.1 Total Phosphorus
Concentration Units:	mg/L
Chemistry:	Direct
Inject to Peak Start (s):	13.0
Peak Base Width (s):	16.961
% Width Tolerance:	60.000
Threshold:	6416.000
Autodilution Trigger:	Off
QuikChem Method:	10-115-01-1-E

CALIBRATION DATA:

Levels:

1 : 2.000	2 : 1.000	3 : 0.500	4 : 0.200
5 : 0.100	6 : 0.050	7 : 0.020	8 : 0.000

Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

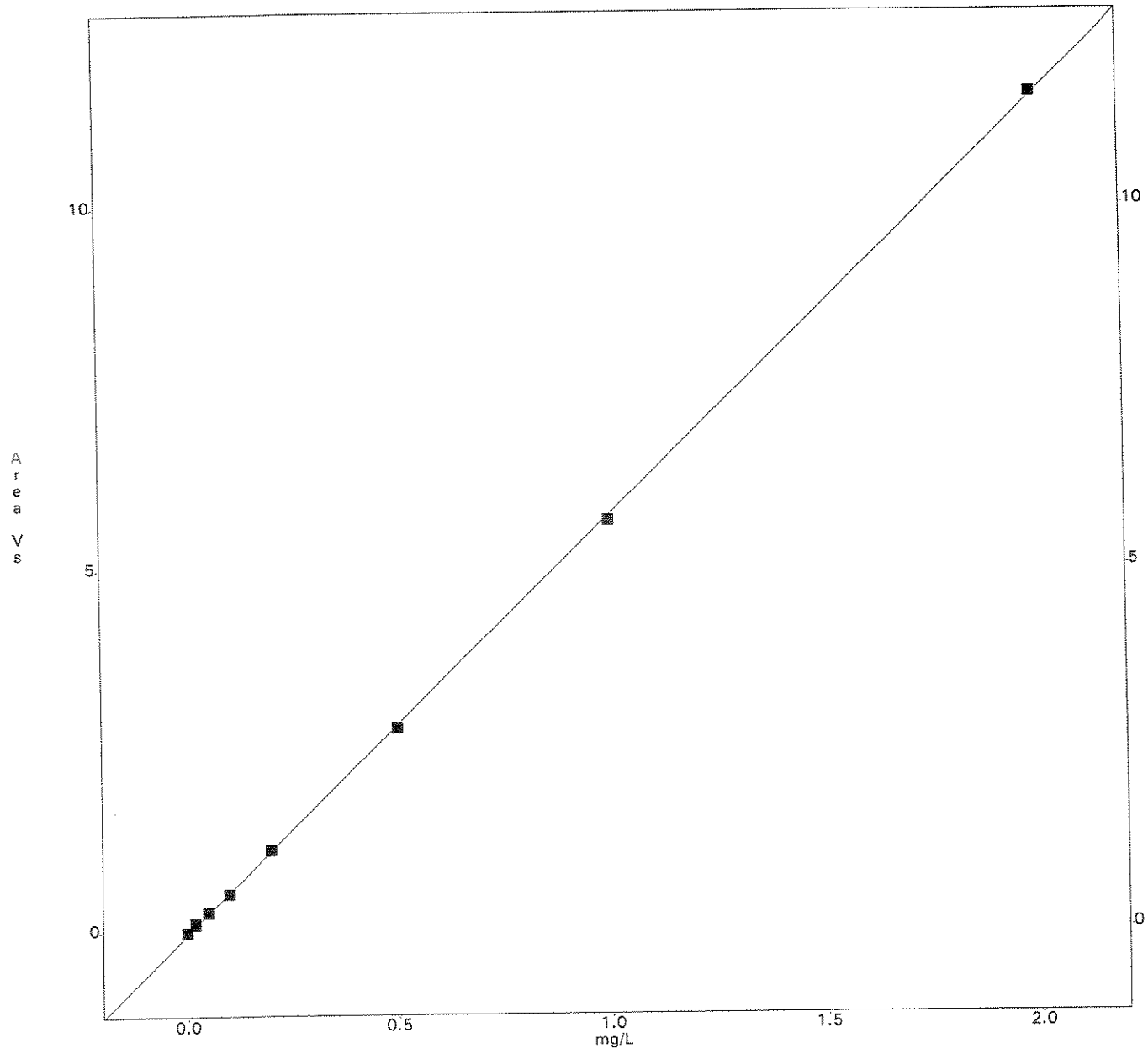
QC 8000 365.1 Total Phosphorus

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	11535703	2.00	11535703					0.0	0.0	-0.4
2	5652370	1.00	5652370					0.0	0.0	1.3
3	2802146	0.50	2802146					0.0	0.0	1.6
4	1128787	0.20	1128787					0.0	0.0	-0.8
5	526371	0.10	526371					0.0	0.0	2.9
6	270098	0.05	269782	270414				446.9	0.2	-5.3
7	113813	0.02	123806	103820				14132.2	12.4	-27.6
8	0	0.00	0	0				0.0	0.0	

pipette ID: TY

1st Order Poly
Conc = 1.736e-007 Area + 5.762e-003
r = 0.9999

Scaling: None - Weighting: None



Printed: Wednesday, July 09, 2008 - 08:51 AM

Columbia Analytical Services

1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead Date: 7/9/08

Analysis: Total Phosphorus, 0.05 - 5.0 mg/L Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC85114C, 02/25/08	WC72001T, 2/14/08				
b) I/CCV Preparation:	WC85114E, 02/25/08	WC85071F, 11/12/07	1.5	10	10	1.50
c) Inorganic LCS Prep:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80
d) Organic LCS Prep:	WC85114F, 2/25/08	WC85051H, 10/10/07	0.2	100	25	0.80
e) Matrix Spike Prep.:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

p:\greg\forms\covert.po4

2/26/08 RP (A) 0.0250N $Na_2S_2O_3$ - Sulfides

Dilute 50mLs 0.1N $Na_2S_2O_3$ (WC850670) to 200mLs volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/25/08 TC (B) ~~TPO4~~ TPO4 Reg. Level Calibration for GC8000 (π 2/26/08)

Make a ~~1/10~~ 10 ppm Standard Working Stock by preparing two serial dilutions of the 1000ppm TPO4 Standard Stock (WC720001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm Working Stock (WC850611H)	mls ~~DI~~ Carrier/Diluent (π 2/26/08)
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	~~0.05~~ 0.50	0.50	9.5
D	0.20	1/10 dilution of Std A	
E	0.10	1/10 dilution of Std B	
F	0.050	1/10 dilution of Std C	
G	0.020	1/10 dilution of Std D.	
H	0.000	use Carrier/Diluent only	

~~(D) CCV/ICV TV=1.50~~ (π 2/26/08)

~~Add~~

(D) Make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TPO4 Reference Stock (WC850711F)

(E) TPO4 ICV/CCV TV=1.50

Add 1.50 mls of the 10ppm Reference Working Stock (WC850611HD) to 8.5mls Carrier/Diluent. Fresh per run.

(F) Inorganic/Organic TPO4 RL LCS/MS TV=0.80 ppm

To 25 mls sample or LRDL add 0.80 mLs of 100ppm Standard Stock (prepared by making a 1/10 dilution of the 1000ppm Standard Stock (WC720001T))

Organic LCS is prepared from 100ppm Inorganic Standard (WC850611H)

ted volumetrically
bottle. @ 4°C

:.

'e add
ell.

) (WC85050E).

te, Cat# ZX0048-1,
45-6. Store @ R.T.

ion, Cat# 2533-35,
WC85017G.

m.
CAS # 148-75-2.

10/9/07 NM (A) NH3 Carrier / Diluent
- same as WC85035A. Prepared solution x 3.

(B) Hypochlorite - NH3 - To a tared 1-L amber jar add
- 350 mLs Sodium Hypochlorite (WC85047B)
- 350 mLs UPDI
Prepare fresh each run.

10/9/07 TC (C) TKN Digest Reagent
To a 2 liter vol. flask add:
- 268.0 g K_2SO_4 (WC85037A)
- 14.6 g Copper II Sulfate (WC85040A)
to ~900 ml UPDI
Slowly add 268 mL conc. instra analyzed H_2SO_4 (WC85024E)
Stir until dissolved. Allow to cool. Exp. 1 month 11/9/07

10/9/07 NM (D) Buffer - NH3
- same as WC85021D. Exp 1 year, 10/9/08.

10/10/07 GN (E) NO_2 Color Reagent - Konelab
- same as WC85032A. Exp 1 month 11/10/07

10/10/07 NM (F) Post-Digestion Matrix Match - TKN
To a 2-L vol. flask add 800 mL TKN Digest Reagent (WC85051C) and bring to volume w/ UPDI, mix thoroughly. Pour off 100 mL and discard. Bring back volume w/ UPDI. mix thoroughly. Store @ RT in amber glass. Exp. 11/9/07.

(G) Hypochlorite - TKN
- same as ~~WC85049G~~ WC85049G. Prepare fresh each run.

10/10/07 TC (H) 100ppm Organic Phosphorous Standard - TPO4
In a 1 liter vol. flask dissolve 0.1885g β-Glycerophosphoric acid, Disodium Salt, 5-Hydrate (WC76143D) in UPDI. Bring to vol. w/ DI. Store in amber glass @ 4°C. Exp. 1 yr. 10/10/08.

CAS # 148-75-2.

Autotitrator Solutions

A) brought fresh

id 2/07

(A) 0.100N KIO_3

In a 2L vol. flask, dissolve 42.8g KIO_3 (WC850878) and bring to volume with DI. Store at RT. Exp 11/9/08

(B) 0.6M KI

In a 1 L vol. flask, dissolve 99.6g KI (WC850460H) and bring to volum with DI. Store at RT. Exp 11/9/08

11/9/07 TC

(C) Sulfanilamide Color Reagent -TOTN

or (H4PO)

To a tared 1 Liter amber bottle add:

- 768g DI
- 153g H_3PO_4 (WC764796E)
- 0.90g ~~EDTA~~ NEO 11/9/07 (WC743056H)
- 360g Sulfanilamide (WC762161G)

Br)

Stir until dissolved. Store e RT. Exp. 1month, 11/9/08.

y dried @ 104°C for 1hr
, 11/6/08

11/12/07 TC

(D) TKN Digest Reagent

In a 2 liter vol. flask dissolve.
- 268 g K_2SO_4 (WC850660D)
- 14.6g $CuSO_4$ (WC850404)
- 268 mL conc. omnitrace H_2SO_4 (WC850676G)

in UPRI. Stir until dissolved. Cool and bring to vol. w/ UPRI.
Exp. 1 month, 12/12/07.

or

tHe add:

11/12/07 RP

(E) TSS Reference

0.2230 g Kaolin (WC69285G) brought to 1000g w/ DI. Stored at 4°C in a plastic bottle.

TN = 223 mg/L exp. 11/12/08

Adjust pH
Exp 1yR. 11/9/08.

11/12/07 TC

(F) TPO_4 1000 ppm Reference Stock

4.394g KH_2PO_4 (WC850546G) previously dried for 2 hours @ 104°C ~~for~~. Dissolve in ~800 mls DI in a 1 liter vol. flask. Bring to vol. w/ DI. Store in amber glass @ 4°C. for 1yr. Exp 11/12/08.

volumetrically
ottle @ 4°C.

11/12/07

(G) Iodate-Iodate Titrant for Sulfites

0.4468g KIO_3 (WC694234F) + 4.25g KI (WC762726E) + 0.310g $NaHCO_3$ (WC761158E)
diluted to 1L in vol. flask with DI Store at 4°C. exp 11/12/08

STANDARD STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

By: CH / CK / CK

Date: 5/9/05 / 7/19/06 / 10/16/06

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
* A	WC69074D	BB	2/23/04	2/23/05	WC72001A
B	WC69074D	BB	2/23/05	2/23/06	WC72001B
C	WC69074D	TC	2/21/06 2/20/06	2/14/07	WC72001C
D	WC76102F	FN	2/5/07	2/5/08	WC72001D
E					

* previously WC69084A

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
2* F	WC55288D	BB	2/27/04	2/27/05	WC72001F
G	WC69234I	BB	2/23/05	2/23/06	WC72001G
H	WC69234J	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/1/08	WC72001I
J	WC85099D	NM	1/31/08	1/31/09	WC72001J

2* previously WC69089A

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

CK 10/5/04

ID Letter	~~KNO2~~ KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65017E	WC69078E	BB	8/10/04 8/8/05	2/10/05	WC72001K
L	WC65017E	WC69108E	BB	2/8/05	8/8/05	WC72001L
M	WC65017E	WC69174F	JPM	7/25/05	1/25/06	WC72001M
N	WC65017E	WC69245F	FN	1/23/06	7/23/06	WC72001N
O	~~WC65017E~~ WC76114C	WC69245F	FN	4/12/06	10/12/06	WC72001O

3* previously WC690163E

OPO4 / TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Li volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
4* P	WC65017D	BB	2/24/04	2/24/05	WC72001P
Q	~~WC65017D~~ WC69196E	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07 2/23/07	WC72001R
S	WC69245I	TC	2/23/07	H 2/23/08	WC72001S
T	WC85085E	RP	2/4/08	2/14/09	WC72001T

4* previously WC69085D

Sulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
5* U	WC65168D	BB	2/24/04	2/24/05	WC72001U
V	WC65168D	BB	2/23/05	2/23/06	WC72001V
W	WC76018A	TC	2/22/06	2/22/07	WC72001W
X	WC76153J	FN	2/5/07	2/5/08	WC72001X
Y	WC76153E	NM	1/31/08	1/31/09	WC72001Y

5* previously WC69085A

R44797 R44806
R44803 R44885
R44841 R44886
R44862 7 Copies

Run #: 163774
Analyte: TP 365.1 PHOSPHORUS, TOTAL
Printed: 07/15/08 15:17

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1117705	WATER	1.49		1.0	0.0500	99.6		07/15/2008		
BLK1		1117706	WATER	0.0500	U	1.0	0.0500			07/15/2008		
BLK2		1117707	WATER	0.0500	U	1.0	0.0500			07/15/2008		
SPKB		1117708	WATER	0.758		1.0	0.0500	94.8		07/15/2008		
BLK2		1117709	WATER	0.0500	U	1.0	0.0500			07/15/2008		
SPKB		1117710	WATER	0.771		1.0	0.0500	96.3		07/15/2008		
ESMP	R2844197	1105428	WATER	2.73		4.0	0.0500			07/15/2008	RUN	2
ESMP	R2844197	1105429	WATER	2.13		4.0	0.0500			07/15/2008	RUN	2
ESMP	R2844197	1105430	WATER	3.98		4.0	0.0500			07/15/2008	RUN	2
LDUP		1117715	WATER	3.87		4.0	0.0500		2.77	07/15/2008		
SPK1		1117716	WATER	4.48		4.0	0.0500	62.6		07/15/2008		
ESMP	R2844797	1114714	SOIL/SEDIME	697		10.0	5.00			07/15/2008		ASPB
BLK2		1117711	SOIL/SEDIME	5.00	U	1.0	5.00			07/15/2008		
SPKS		1117712	SOIL/SEDIME	79.0		1.0	5.00	98.8		07/15/2008		
BLK2		1117713	SOIL/SEDIME	5.00	U	1.0	5.00			07/15/2008		
SPKS		1117714	SOIL/SEDIME	78.8		1.0	5.00	98.5		07/15/2008		
SPKS		1117727	SOIL/SEDIME	79.6		1.0	5.00	99.5		07/15/2008		
SPKS		1117728	SOIL/SEDIME	79.2		1.0	5.00	99.0		07/15/2008		
ESMP	R2844797	1114715	SOIL/SEDIME	825		10.0	5.00			07/15/2008		ASPB
ESMP	R2844797	1114716	SOIL/SEDIME	1110		10.0	5.00			07/15/2008		ASPB
ESMP	R2844797	1114717	SOIL/SEDIME	581		10.0	5.00			07/15/2008		ASPB
ESMP	R2844797	1114718	SOIL/SEDIME	568		10.0	5.00			07/15/2008		ASPB
LDUP		1117719	SOIL/SEDIME	517		10.0	5.00		9.35	07/15/2008		
SPK1		1117720	SOIL/SEDIME	614		10.0	5.00	57.6		07/15/2008		
ESMP	R2844822	1114741	WATER	0.159		1.0	0.0500			07/15/2008	RUN	2
ESMP	R2844803	1114756	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844803	1114758	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844826	1114786	WATER	1.09		1.0	0.0500			07/15/2008	RUN	2
ESMP	R2844841	1115225	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844841	1115226	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844833	1105364	WATER	1.81		1.0	0.0500			07/15/2008		1
ESMP	R2844833	1105369	WATER	1.62		1.0	0.0500			07/15/2008		1
ESMP	R2844833	1105370	WATER	1.48		1.0	0.0500			07/15/2008		1
ESMP	R2844862	1115724	SOIL/SEDIME	851		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115725	SOIL/SEDIME	1040		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115726	SOIL/SEDIME	569		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115727	SOIL/SEDIME	696		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115730	SOIL/SEDIME	715		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115731	SOIL/SEDIME	808		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115732	SOIL/SEDIME	1120		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115733	SOIL/SEDIME	903		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115734	SOIL/SEDIME	708		10.0	5.00			07/15/2008		ASPB
LDUP		1117721	SOIL/SEDIME	644		10.0	5.00		9.51	07/15/2008		
SPK1		1117722	SOIL/SEDIME	652		10.0	5.00	-69.4		07/15/2008		
ESMP	R2844862	1115735	SOIL/SEDIME	478		4.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115736	SOIL/SEDIME	392		4.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115737	SOIL/SEDIME	741		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115738	SOIL/SEDIME	839		10.0	5.00			07/15/2008		ASPB
ESMP	R2844862	1115739	SOIL/SEDIME	238		2.0	5.00			07/15/2008		ASPB
ESMP	R2844866	1115782	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844866	1115783	WATER	0.0516		1.0	0.0500			07/15/2008		ASPB

Reviewed & Approved
By: _____
Date: 7/17/08

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2844866	1115784	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844866	1115785	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
LDUP		1117717	WATER	0.0500	U	1.0	0.0500			07/15/2008		
SPK1		1117718	WATER	0.796		1.0	0.0500	99.6		07/15/2008		
ESMP	R2844878	1115904	WATER	0.882		1.0	0.0500			07/15/2008	RUN	2
ESMP	R2844885	1116251	SOIL/SEDIME	514		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116253	SOIL/SEDIME	503		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116254	SOIL/SEDIME	408		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116255	SOIL/SEDIME	1170		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116256	SOIL/SEDIME	768		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116257	SOIL/SEDIME	368		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116258	SOIL/SEDIME	483		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116264	SOIL/SEDIME	403		4.0	5.00			07/15/2008	RUN	ASPB
LDUP		1117723	SOIL/SEDIME	388		4.0	5.00		3.84	07/15/2008		
SPK1		1117724	SOIL/SEDIME	464		4.0	5.00	76.2		07/15/2008		
ESMP	R2844885	1116265	SOIL/SEDIME	638		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116267	SOIL/SEDIME	803		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116269	SOIL/SEDIME	751		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116271	SOIL/SEDIME	504		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116273	SOIL/SEDIME	769		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116274	SOIL/SEDIME	490		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116275	SOIL/SEDIME	646		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116276	SOIL/SEDIME	697		10.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116277	SOIL/SEDIME	353		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844885	1116278	SOIL/SEDIME	720		10.0	5.00			07/15/2008	RUN	ASPB
LDUP		1117725	SOIL/SEDIME	752		10.0	5.00		4.29	07/15/2008		
SPK1		1117726	SOIL/SEDIME	791		10.0	5.00	89.3		07/15/2008		
ESMP	R2844885	1116279	SOIL/SEDIME	403		4.0	5.00			07/15/2008	RUN	ASPB
ESMP	R2844886	1116319	WATER	0.0500	U	1.0	0.0500			07/15/2008	RUN	ASPB
ESMP	R2844886	1116320	WATER	0.0500	U	1.0	0.0500			07/15/2008	RUN	ASPB
ESMP	R2844866	1116367	WATER	0.0500	U	1.0	0.0500			07/15/2008	QC	ASPB
ESMP	R2844866	1116370	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB
ESMP	R2844866	1116373	WATER	0.0500	U	1.0	0.0500			07/15/2008		ASPB

Records printed: 84

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyte: TPO4 Digest
Analyst: SBR
Pipet ID: E-1

Low Level / Regular Level
Date: 7/11/05
Spk Witness: JM

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1		PB 1 WATER	25	1		
(2)		LCS 1 INORG			+0.20 mL	100 mg/L
(3)		LCS 1 ORG			+0.20 ml	100 ppm
4	R-44197 (4)	1105428				
5	(4)	1105429				
6	(4)	1105430				
7	↓	430 DUP				
(8)	↓	430 SPK			+0.20 mL	100 ppm
9	R-44822	1114741				
10	R-44803	1114756				
11		1114758				
12	R-44826	1114786				
13	R-44841	1115225				
14		1115226				
15	R-44833	1105364				
16	(2)	1105369				
17		1105370				
18	R-44866	1115782				
19		1115783				
20		1115784				
21		1115785				
22		785 DUP				
(23)		785 SPK			+0.20mL	100 ppm
24	R-44878	1115904				
25	R-44886	1116319				
26		1116320				
27		1116367				
28		PB 2 WATER				
(29)		LCS 2 INORG WATER			+0.20mL	100 ppm
(30)		LCS 2 ORG WATER			+0.20mL	100 ppm
31		1116370				
32		1116373				
33	R-44182	1105364				} Same order * as 15 and 17
34		1105370				} (same samples)
35		370 DUP				
(36)		370 SPK			+0.20 mL	100 ppm
37		PB 3 SOIL	0.25g → 25mL	SBR 7/11/05		
(38)		LCS 3 INORG SOIL			+0.20ml	100 ppm
(39)		LCS 3 ORG SOIL			+0.20mL	100 ppm
40	R-44797 10	1114714	0.25g → 25mL	SBR 7/11/05		
41		1114715				
42		1114716				
43		1114717				
44		1114718				
45		718 DUP				
(46)		718 SPK			+0.20 mL	100 ppm
47	R-44862	1115724				
48		1115725				
49		1115726				
50		1115727				

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyte: TPO4 Digest
Analyst: SBR
Pipet ID: _____

Low Level / (Regular Level)
Date: 7/11/08
Spk Witness: _____

#	Submission #	Order #	Sample Amt (mLs/g)	Dilution	Spk Amount	Comments
1	R-44862 10	1115730	0.25 g → 25 mL / g	SBR 7/11/08		
2		1115731				
3		1115732				
4		1115733				
5		1115734				
6		734 DUP				
(7)		734 SPK			+0.20 mL	100 ppm
8		1115735				
9		1115736		SBR		
10		1115737	0.24 g → 25 mL / g	7/11/08		
11		1115738	0.25 g → 25 mL / g			
12		1115739				
13	R-44885	1116251				
14		PB 4 SOIL				
(15)		LCS 4 INORG SOIL			+0.20 mL	100 ppm
(16)		LCS 4 ORG SOIL			+0.20 mL	100 ppm
17	10	1116253				
18		1116254				
19		1116255				
20		1116256				
21		1116257				
22		1116258				
23		1116264				
24		264 DUP				
(25)		264 SPK			+0.20 mL	100 ppm
26		1116265				
27		1116267				
28		1116269				
29		1116271				
30		1116273				
31		1116274				
32		1116275				
33		1116276				
34		1116277				
35		1116278				
36		278 DUP				
(37)		278 SPK			+0.20 mL	100 ppm
38		1116279				
(39)		LCS 5 INORG SOIL			+0.20 mL	100 ppm
(40)		LCS 6 INORG SOIL			+0.20 mL	100 ppm
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						

SBR 7/11/08

Creator: NMEAD
Creation Date: Jul 15, 2008 8:35:48
Last Modified: Jul 15, 2008 8:35:48
Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807150A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.00	1.0000	CalStd	
2	Standard B - 1.00	1.0000	CalStd	
3	Standard C - 0.50	1.0000	CalStd	
4	Standard D - 0.20	1.0000	CalStd	
5	Standard E - 0.10	1.0000	CalStd	
6	Standard F - 0.05	1.0000	CalStd	
7	Standard G - 0.02	1.0000	CalStd	
8	Standard H - 0.00	1.0000	CalStd	
1	ICV TV= 1.5	1.0000	Unknown	
2	ICB	1.0000	Unknown	
3	PB-1	1.0000	Unknown	
4	LCS-1 INORG. TV= 0.8	1.0000	Unknown	
5	LCS-1 ORG. TV= 0.8	1.0000	Unknown	
6	PB-2	1.0000	Unknown	
7	LCS-2 INORG.	1.0000	Unknown	
8	LCS-2 ORG.	1.0000	Unknown	
9	PB-3 SOIL	1.0000	Unknown	0.25g → 25 [illegible] g
10	LCS-3 SOIL INORG TV=80	1.0000	Unknown	
11	LCS-3 SOIL ORG TV= 80	1.0000	Unknown	
12	CCV	1.0000	Unknown	
13	CCB	1.0000	Unknown	
14	PB-4 SOIL	1.0000	Unknown	0.25g → 25g
15	LCS-4 SOIL INORG.	1.0000	Unknown	
16	LCS-4 SOIL ORG.	1.0000	Unknown	
17	LCS-5 SOIL INORG.	1.0000	Unknown	
18	LCS-6 SOIL INORG.	1.0000	Unknown	
19	CRDL - 0.100	1.0000	Unknown	
20	CRDL - 0.050	1.0000	Unknown	
21	1105428-44197	4.0000	Unknown	
22	1105429	4.0000	Unknown	
23	1105430	4.0000	Unknown	
24	CCV	1.0000	Unknown	
25	CCB	1.0000	Unknown	
26	430 DUP	4.0000	Unknown	
27	430 SPK TV= 0.8	4.0000	Unknown	
28	1114741-44822	1.0000	Unknown	
29	1114756-44803	1.0000	Unknown	← sm. sine peak - < PQL
30	1114758	1.0000	Unknown	
31	1114786-44826	1.0000	Unknown	
32	1115225-44841	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
33	1115226	1.0000	Unknown	
34	1105364-44833	1.0000	Unknown	
35	1105369	2.0000	Unknown	- rpt @ #113 - str.
36	CCV	1.0000	Unknown	
37	CCB	1.0000	Unknown	
38	1105370	1.0000	Unknown	
39	1115782-44866	1.0000	Unknown	
40	1115783	1.0000	Unknown	- airspike - rpt @ #114
41	1115784	1.0000	Unknown	
42	1115785	1.0000	Unknown	- airspike - rpt @ #115
43	785 DUP	1.0000	Unknown	
44	785 SPK TV= 0.8	1.0000	Unknown	
45	1115904-44878	1.0000	Unknown	
46	1116319-44886	1.0000	Unknown	
47	1116320	1.0000	Unknown	
48	CCV	1.0000	Unknown	
49	CCB	1.0000	Unknown	
50	1116367 — 44866	1.0000	Unknown	- missed req'd QC
51	1116370	1.0000	Unknown	
52	1116373	1.0000	Unknown	
53	1105364-44182	1.0000	Unknown	
54	1105370	1.0000	Unknown	
55	370 DUP	1.0000	Unknown	
56	370 SPK TV= 0.8	1.0000	Unknown	- rpt @ #116 - 1/2
57	1114714S-44797	10.0000	Unknown	0.25g → 25g
58	1114715S	10.0000	Unknown	↓ ↓
59	1114716S	10.0000	Unknown	
60	CCV	1.0000	Unknown	
61	CCB	1.0000	Unknown	
62	1114717S	10.0000	Unknown	0.25g → 25g
63	1114718S	10.0000	Unknown	
64	718S DUP	10.0000	Unknown	
65	718S SPK TV= 80	10.0000	Unknown	
66	1115724S-44862	10.0000	Unknown	
67	1115725S	10.0000	Unknown	
68	1115726S	10.0000	Unknown	
69	1115727S	10.0000	Unknown	
70	1115730S	10.0000	Unknown	
71	1115731S	10.0000	Unknown	↓ ↓
72	CCV	1.0000	Unknown	
73	CCB	1.0000	Unknown	
74	1115732S	10.0000	Unknown	0.25g → 25g
75	1115733S	10.0000	Unknown	
76	1115734S	10.0000	Unknown	↓ ↓
77	734S DUP	10.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
78	734S SPK TV= 80	10.0000	Unknown	0.25g→25g
79	1115735S	10.0000	Unknown	-rpt@#117-1/4
80	1115736S	10.0000	Unknown	-rpt@#118-1/4
81	1115737S	10.0000	Unknown	0.24g→25g
82	1115738S	10.0000	Unknown	0.25g→25g
83	1115739S	10.0000	Unknown	-rpt@#119-1/2
84	CCV	1.0000	Unknown	
85	CCB	1.0000	Unknown	
86	1116251S-44885	10.0000	Unknown	0.25g→25g
87	1116253S	10.0000	Unknown	↓ ↓
88	1116254S	10.0000	Unknown	-rpt@#122-1/4
89	1116255S	10.0000	Unknown	0.25g→25g
90	1116256S	10.0000	Unknown	↓ ↓
91	1116257S	10.0000	Unknown	-rpt@#123-1/4
92	1116258S	10.0000	Unknown	-rpt@#124-1/4
93	1116264S	10.0000	Unknown	} rpt@#125→127 1/4
94	264S DUP	10.0000	Unknown	
95	264S SPK TV= 80	10.0000	Unknown	
96	CCV	1.0000	Unknown	
97	CCB	1.0000	Unknown	
98	1116265S	10.0000	Unknown	0.25g→25g
99	1116267S	10.0000	Unknown	↓ ↓
100	1116269S	10.0000	Unknown	
101	1116271S	10.0000	Unknown	-rpt@#128-1/4
102	1116273S	10.0000	Unknown	0.25g→25g
103	1116274S	10.0000	Unknown	-rpt@#129-1/4
104	1116275S	10.0000	Unknown	0.25g→25g
105	1116276S	10.0000	Unknown	↓ ↓
106	1116277S	10.0000	Unknown	-rpt@#130-1/4
107	1116278S	10.0000	Unknown	0.25g→25g
108	CCV	1.0000	Unknown	
109	CCB	1.0000	Unknown	-
110	278S DUP	10.0000	Unknown	-air spike-rpt@#131
111	278S SPK TV= 80	10.0000	Unknown	0.25g→25g
112	1116279S	10.0000	Unknown	-rpt@#134-1/4
113	1105369 RPT STR	1.0000	Unknown	
114	1115783 RPT	1.0000	Unknown	
115	1115785 RPT	1.0000	Unknown	-sm. air spike-<PQL
116	1105370SPKRPT1/2TV=0.8	2.0000	Unknown	
117	1115735S RPT 1/4	4.0000	Unknown	0.25g→25g
118	1115736S RPT 1/4	4.0000	Unknown	↓ ↓
119	1115739S RPT 1/2	2.0000	Unknown	
120	CCV	1.0000	Unknown	
121	CCB	1.0000	Unknown	-tray ends here-
122	1116254S RPT 1/4	4.0000	Unknown	0.25g→25g next cc has ai

am/ms to 8

Cup #	Sample ID	Manual Dilution	Sample Type	
123	1116257S RPT 1/4	4.0000	Unknown	0.25g → 25g
124	1116258S RPT 1/4	4.0000	Unknown	
125	1116264S RPT 1/4	4.0000	Unknown	
126	264S DUP RPT 1/4	4.0000	Unknown	
127	264S SPK RPT 1/4 TV = 80	4.0000	Unknown	
128	1116271S RPT 1/4	4.0000	Unknown	
129	1116274S RPT 1/4	4.0000	Unknown	
130	1116277S RPT 1/4	4.0000	Unknown	
131	1116278S DUP RPT 1/10	10.0000	Unknown	
132	CCV	1.0000	Unknown	- air spikes - not all samples from #120
133	CCB	1.0000	Unknown	
134	1116279S RPT 1/4	4.0000	Unknown	
135	CCV	1.0000	Unknown	
136	CCB	1.0000	Unknown	

nm 7/15 18

Creator: NMEAD
Creation Date: Jul 15, 2008 11:46:50
Last Modified: Jul 15, 2008 11:46:50
Description: QC 8000 365.1 TPO4 - RUN LOG - TPO4B 080715A2

Cup #	Sample ID	Manual Dilution	Sample Type	
120	CCV	1.0000	Unknown	
121	CCB	1.0000	Unknown	+ sm. air spike - < PQL
122	1116254S RPT 1/4	4.0000	Unknown	0.25g → 25g
123	1116257S RPT 1/4	4.0000	Unknown	
124	1116258S RPT 1/4	4.0000	Unknown	
125	1116264S RPT 1/4	4.0000	Unknown	
126	264S DUP RPT 1/4	4.0000	Unknown	
127	264S SPK RPT 1/4 TV=80	4.0000	Unknown	
128	1116271S RPT 1/4	4.0000	Unknown	
129	1116274S RPT 1/4	4.0000	Unknown	
130	1116277S RPT 1/4	4.0000	Unknown	
131	1116278S DUP RPT 1/10	10.0000	Unknown	
132	CCV	1.0000	Unknown	
133	CCB	1.0000	Unknown	
134	1116279S RPT 1/4	4.0000	Unknown	0.25g → 25g
135	CCV	1.0000	Unknown	
136	CCB	1.0000	Unknown	

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
1	ICV TV= 1.5	15 Jul 2008	10:08:12	1	1.4944	1.0	1.00	
2	ICB	15 Jul 2008	10:08:56	1	0.0139	1.0	1.00	
3	PB-1	15 Jul 2008	10:09:40	1	0.0139	1.0	1.00	
4	LCS-1 INORG. TV= 0.8	15 Jul 2008	10:10:23	1	0.7582	1.0	1.00	
5	LCS-1 ORG. TV= 0.8	15 Jul 2008	10:11:07	1	0.8262	1.0	1.00	
6	PB-2	15 Jul 2008	10:11:49	1	0.0139	1.0	1.00	
7	LCS-2 INORG.	15 Jul 2008	10:12:32	1	0.7706	1.0	1.00	
8	LCS-2 ORG.	15 Jul 2008	10:13:14	1	0.8062	1.0	1.00	
9	PB-3 SOIL	15 Jul 2008	10:13:57	1	0.0232	1.0	1.00	= <5.00
10	LCS-3 SOIL INORG TV=80	15 Jul 2008	10:14:40	1	0.7904	1.0	1.00	= 79.04
11	LCS-3 SOIL ORG TV= 80	15 Jul 2008	10:15:22	1	0.8348	1.0	1.00	= 83.48
12	CCV	15 Jul 2008	10:16:04	1	1.4986	1.0	1.00	
13	CCB	15 Jul 2008	10:16:46	1	0.0139	1.0	1.00	
14	PB-4 SOIL	15 Jul 2008	10:17:27	1	0.0212	1.0	1.00	= <5.00
15	LCS-4 SOIL INORG.	15 Jul 2008	10:18:09	1	0.7881	1.0	1.00	= 78.81
16	LCS-4 SOIL ORG.	15 Jul 2008	10:18:53	1	0.8231	1.0	1.00	= 82.31
17	LCS-5 SOIL INORG.	15 Jul 2008	10:19:36	1	0.7962	1.0	1.00	= 79.62
18	LCS-6 SOIL INORG.	15 Jul 2008	10:20:20	1	0.7921	1.0	1.00	= 79.21
19	CRDL - 0.100	15 Jul 2008	10:21:03	1	0.1026	1.0	1.00	
20	CRDL - 0.050	15 Jul 2008	10:21:47	1	0.0577	1.0	1.00	
21	1105428-44197	15 Jul 2008	10:22:30	1	2.7314	4.0	1.00	
22	1105429	15 Jul 2008	10:23:13	1	2.1268	4.0	1.00	
23	1105430	15 Jul 2008	10:23:55	1	3.9768	4.0	1.00	
24	CCV	15 Jul 2008	10:24:38	1	1.4884	1.0	1.00	
25	CCB	15 Jul 2008	10:25:21	1	0.0139	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
26	430 DUP	15 Jul 2008	10:26:03	1	3.8714	4.0	1.00	
27	430 SPK TV= 0.8	15 Jul 2008	10:26:46	1	4.4804	4.0	1.00	
28	1114741-44822	15 Jul 2008	10:27:28	1	0.1589	1.0	1.00	
29	1114756-44803	15 Jul 2008	10:28:11	1	0.0454	1.0	1.00	– sm. sine peak - LP QL
30	1114758	15 Jul 2008	10:28:52	1	0.0367	1.0	1.00	
31	1114786-44826	15 Jul 2008	10:29:36	1	1.0917	1.0	1.00	
32	1115225-44841	15 Jul 2008	10:30:19	1	0.0319	1.0	1.00	
33	1115226	15 Jul 2008	10:31:03	1	0.0212	1.0	1.00	
34	1105364-44833	15 Jul 2008	10:31:47	1	1.8103	1.0	1.00	
35	1105369	15 Jul 2008	10:32:30	1	1.6336	2.0	1.00	– rpt @ #113 - str.
36	CCV	15 Jul 2008	10:33:14	1	1.4957	1.0	1.00	
37	CCB	15 Jul 2008	10:33:57	1	0.0139	1.0	1.00	
38	1105370	15 Jul 2008	10:34:40	1	1.4828	1.0	1.00	
39	1115782-44866	15 Jul 2008	10:35:23	1	0.0296	1.0	1.00	
40	1115783	15 Jul 2008	10:36:05	1	0.0498	1.0	1.00	– air spike - rpt @ #114
41	1115784	15 Jul 2008	10:36:48	1	0.0247	1.0	1.00	
42	1115785	15 Jul 2008	10:37:30	1	0.0245	1.0	1.00	– air spike - rpt @ #115
43	785 DUP	15 Jul 2008	10:38:13	1	0.0251	1.0	1.00	
44	785 SPK TV= 0.8	15 Jul 2008	10:38:55	1	0.7964	1.0	1.00	
45	1115904-44878	15 Jul 2008	10:39:37	1	0.8821	1.0	1.00	
46	1116319-44886	15 Jul 2008	10:40:21	1	0.0293	1.0	1.00	
47	1116320	15 Jul 2008	10:41:04	1	0.0484	1.0	1.00	
48	CCV	15 Jul 2008	10:41:48	1	1.4947	1.0	1.00	
49	CCB	15 Jul 2008	10:42:32	1	0.0139	1.0	1.00	
50	1116367 -44866	15 Jul 2008	10:43:15	1	0.0287	1.0	1.00	– missed required @ c - see checklist

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
51	1116370	15 Jul 2008	10:43:59	1	0.0265	1.0	1.00	
52	1116373	15 Jul 2008	10:44:43	1	0.0385	1.0	1.00	
53	1105364-44182	15 Jul 2008	10:45:26	1	1.7244	1.0	1.00	} not reported - client cancelled + resampled
54	1105370	15 Jul 2008	10:46:09	1	1.1542	1.0	1.00	
55	370 DUP	15 Jul 2008	10:46:51	1	1.1606	1.0	1.00	
56	370 SPK TV= 0.8	15 Jul 2008	10:47:34	1	2.0884	1.0	1.00	- rpt @ #116-1/2
57	1114714S-44797	15 Jul 2008	10:48:16	1	6.9714	10.0	1.00	= 697.14
58	1114715S	15 Jul 2008	10:48:59	1	8.2468	10.0	1.00	= 824.68
59	1114716S	15 Jul 2008	10:49:41	1	11.1373	10.0	1.00	= 1113.73
60	CCV	15 Jul 2008	10:50:24	1	1.4968	1.0	1.00	
61	CCB	15 Jul 2008	10:51:09	1	0.0139	1.0	1.00	
62	1114717S	15 Jul 2008	10:51:53	1	5.8080	10.0	1.00	= 580.80
63	1114718S	15 Jul 2008	10:52:37	1	5.6760	10.0	1.00	= 567.60
64	718S DUP	15 Jul 2008	10:53:21	1	5.1726	10.0	1.00	= 517.26
65	718S SPK TV= 80	15 Jul 2008	10:54:04	1	6.1414	10.0	1.00	= 614.14
66	1115724S-44862	15 Jul 2008	10:54:48	1	8.5086	10.0	1.00	= 850.86
67	1115725S	15 Jul 2008	10:55:31	1	10.4180	10.0	1.00	= 1041.80
68	1115726S	15 Jul 2008	10:56:15	1	5.6873	10.0	1.00	= 568.73
69	1115727S	15 Jul 2008	10:56:58	1	6.9603	10.0	1.00	= 696.03
70	1115730S	15 Jul 2008	10:57:41	1	7.1465	10.0	1.00	= 714.65
71	1115731S	15 Jul 2008	10:58:24	1	8.0814	10.0	1.00	= 808.14
72	CCV	15 Jul 2008	10:59:06	1	1.5016	1.0	1.00	
73	CCB	15 Jul 2008	10:59:49	1	0.0139	1.0	1.00	
74	1115732S	15 Jul 2008	11:00:31	1	11.2459	10.0	1.00	= 1124.59
75	1115733S	15 Jul 2008	11:01:14	1	9.0294	10.0	1.00	= 902.94

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
76	1115734S	15 Jul 2008	11:01:58	1	7.0780	10.0	1.00	= 707.80
77	734S DUP	15 Jul 2008	11:02:43	1	6.4373	10.0	1.00	= 643.73
78	734S SPK TV= 80	15 Jul 2008	11:03:28	1	6.5246	10.0	1.00	= 652.46
79	1115735S	15 Jul 2008	11:04:11	1	4.8347	10.0	1.00	= rpt @ #117 - 1/4
80	1115736S	15 Jul 2008	11:04:55	1	3.9715	10.0	1.00	= rpt @ #118 - 1/4
81	1115737S	15 Jul 2008	11:05:38	1	7.1158	10.0	1.00	= 741.23
82	1115738S	15 Jul 2008	11:06:22	1	8.3885	10.0	1.00	= 838.85
83	1115739S	15 Jul 2008	11:07:05	1	2.3995	10.0	1.00	= rpt @ # 119 - 1/2
84	CCV	15 Jul 2008	11:07:49	1	1.5013	1.0	1.00	
85	CCB	15 Jul 2008	11:08:32	1	0.0139	1.0	1.00	
86	1116251S-44885	15 Jul 2008	11:09:16	1	5.1449	10.0	1.00	= 514.49
87	1116253S	15 Jul 2008	11:09:59	1	5.0334	10.0	1.00	= 503.34
88	1116254S	15 Jul 2008	11:10:41	1	4.1216	10.0	1.00	= rpt @ #122 - 1/4
89	1116255S	15 Jul 2008	11:11:24	1	11.7237	10.0	1.00	= 1172.37
90	1116256S	15 Jul 2008	11:12:06	1	7.6752	10.0	1.00	= 767.52
91	1116257S	15 Jul 2008	11:12:51	1	3.7033	10.0	1.00	= rpt @ # 123 - 1/4
92	1116258S	15 Jul 2008	11:13:36	1	4.8366	10.0	1.00	= rpt @ # 124 - 1/4
93	1116264S	15 Jul 2008	11:14:20	1	4.0000	10.0	1.00	rpt @ #125 → 127 - 1/4
94	264S DUP	15 Jul 2008	11:15:05	1	3.8867	10.0	1.00	
95	264S SPK TV= 80	15 Jul 2008	11:15:50	1	4.6495	10.0	1.00	
96	CCV	15 Jul 2008	11:16:33	1	1.5117	1.0	1.00	
97	CCB	15 Jul 2008	11:17:17	1	0.0139	1.0	1.00	
98	1116265S	15 Jul 2008	11:18:00	1	6.3853	10.0	1.00	= 638.53
99	1116267S	15 Jul 2008	11:18:44	1	8.0324	10.0	1.00	= 803.24
100	1116269S	15 Jul 2008	11:19:27	1	7.5103	10.0	1.00	= 751.03

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
101	1116271S	15 Jul 2008	11:20:11	1	4.9653	10.0	1.00	= rpt @ #128 - 1/4
102	1116273S	15 Jul 2008	11:20:55	1	7.6943	10.0	1.00	= 769.43
103	1116274S	15 Jul 2008	11:21:37	1	4.8615	10.0	1.00	= rpt @ #129 - 1/4
104	1116275S	15 Jul 2008	11:22:21	1	6.4555	10.0	1.00	= 645.55
105	1116276S	15 Jul 2008	11:23:03	1	6.9727	10.0	1.00	= 697.27
106	1116277S	15 Jul 2008	11:23:48	1	3.5023	10.0	1.00	= rpt @ #130 - 1/4
107	1116278S	15 Jul 2008	11:24:33	1	7.2058	10.0	1.00	= 720.58
108	CCV	15 Jul 2008	11:25:17	1	1.4815	1.0	1.00	
109	CCB	15 Jul 2008	11:26:02	1	0.0157	1.0	1.00	
110	278S DUP	15 Jul 2008	11:26:46	1	7.5197	10.0	1.00	- airspike - rpt @ #131
111	278S SPK TV= 80	15 Jul 2008	11:27:30	1	7.9140	10.0	1.00	= 791.40
112	1116279S	15 Jul 2008	11:28:14	1	4.0127	10.0	1.00	- rpt @ #134 - 1/4
113	1105369 RPT STR	15 Jul 2008	11:28:57	1	1.6190	1.0	1.00	
114	1115783 RPT	15 Jul 2008	11:29:41	1	0.0516	1.0	1.00	
115	1115785 RPT	15 Jul 2008	11:30:24	1	0.0252	1.0	1.00	- sm. airspike - < PQL
116	1105370SPKRPT1/2TV=0.8	15 Jul 2008	11:31:08	1	2.1105	2.0	1.00	- client cancelled location + resampled
117	1115735S RPT 1/4	15 Jul 2008	11:31:51	1	4.7805	4.0	1.00	= 478.05
118	1115736S RPT 1/4	15 Jul 2008	11:32:35	1	3.9199	4.0	1.00	= 391.99
119	1115739S RPT 1/2	15 Jul 2008	11:33:17	1	2.3826	2.0	1.00	= 238.26
120	CCV	15 Jul 2008	11:34:00	1	1.4943	1.0	1.00	
121	CCB	15 Jul 2008	11:34:45	1	0.0139	1.0	1.00	tray ends here -
~~122~~	~~1116254S RPT 1/4~~	~~15 Jul 2008~~	~~11:35:29~~	1	3.9743	4.0	1.00	= next CCV has air
123	1116257S RPT 1/4	15 Jul 2008	11:36:14	1	3.6989	4.0	1.00	=
124	1116258S RPT 1/4	15 Jul 2008	11:36:58	1	4.7808	4.0	1.00	=
125	1116264S RPT 1/4	15 Jul 2008	11:37:44	1	3.8993	4.0	1.00	=

TM 7/15/08

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
126	264S DUP RPT 1/4	15 Jul 2008	11:38:28	1	3.8797	4.0	1.00	=
127	264S SPK RPT 1/4 TV=80	15 Jul 2008	11:39:13	1	4.6147	4.0	1.00	=
128	1116271S RPT 1/4	15 Jul 2008	11:39:56	1	5.0412	4.0	1.00	=
129	1116274S RPT 1/4	15 Jul 2008	11:40:40	1	4.9156	4.0	1.00	=
130	1116277S RPT 1/4	15 Jul 2008	11:41:23	1	3.5364	4.0	1.00	=
131	1116278S DUP RPT 1/10	15 Jul 2008	11:42:07	1	7.5241	10.0	1.00	=
132	CCV	15 Jul 2008	11:42:51	1	1.5189	1.0	1.00	=
133	CCB	15 Jul 2008	11:43:34	1	0.0139	1.0	1.00	=
134	1116279S RPT 1/4	15 Jul 2008	11:44:18	1	4.0492	4.0	1.00	=

7/15/08

air spikes - rpt all samples from #120

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 11:47:08
DATA FILENAME: C:\OMNION\DATA\080715A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080715A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
120	CCV	15 Jul 2008	11:47:10	1	1.5116	1.0	1.00	
121	CCB	15 Jul 2008	11:47:56	1	0.0139	1.0	1.00	air; less than PQL
122	1116254S RPT 1/4	15 Jul 2008	11:48:40	1	4.0853	4.0	1.00	= 408.53
123	1116257S RPT 1/4	15 Jul 2008	11:49:25	1	3.6813	4.0	1.00	= 368.13
124	1116258S RPT 1/4	15 Jul 2008	11:50:09	1	4.8346	4.0	1.00	= 483.46
125	1116264S RPT 1/4	15 Jul 2008	11:50:54	1	4.0321	4.0	1.00	= 403.21

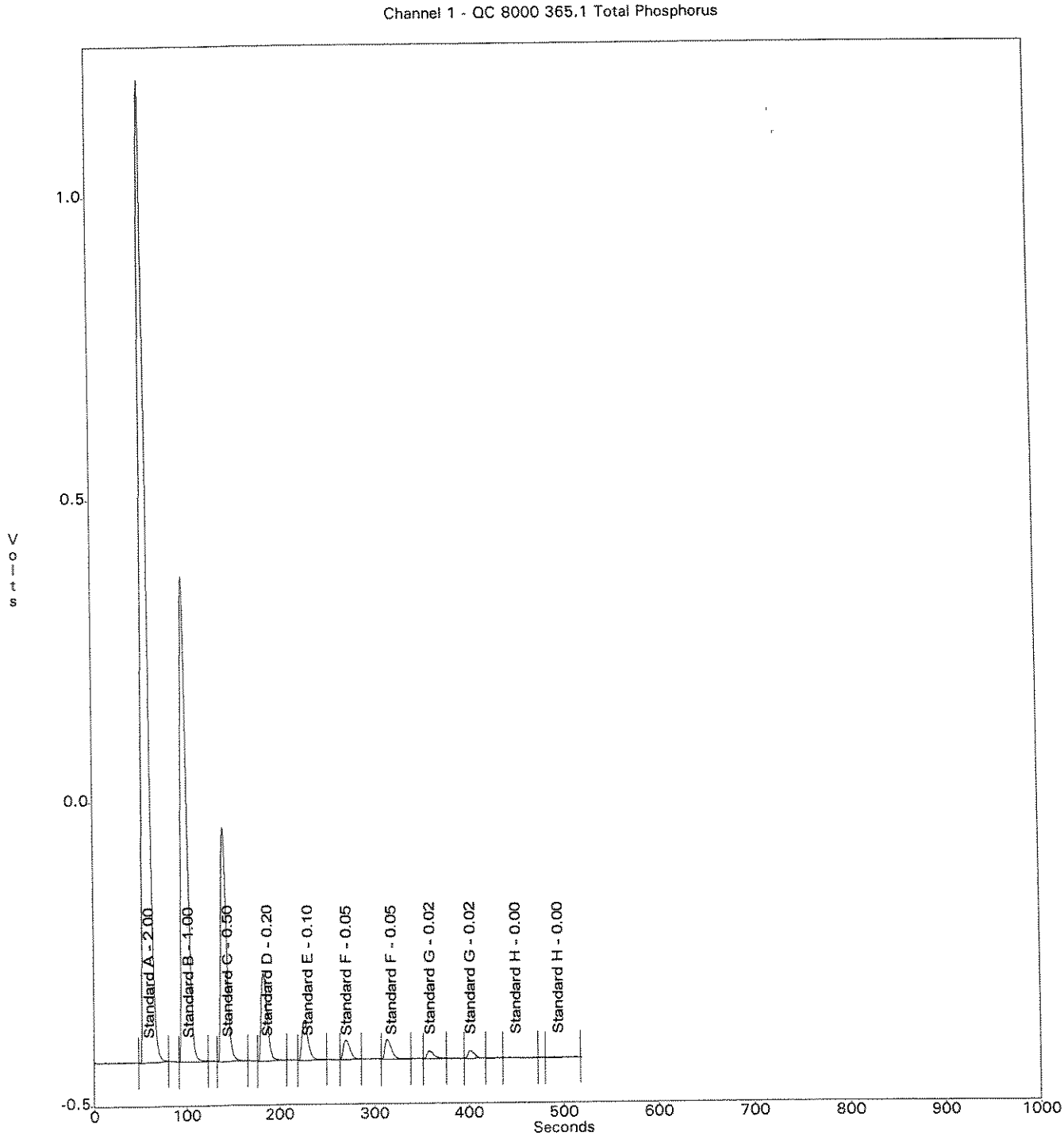
259

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 11:47:08
DATA FILENAME: C:\OMNION\DATA\080715A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080715A2.TRA

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

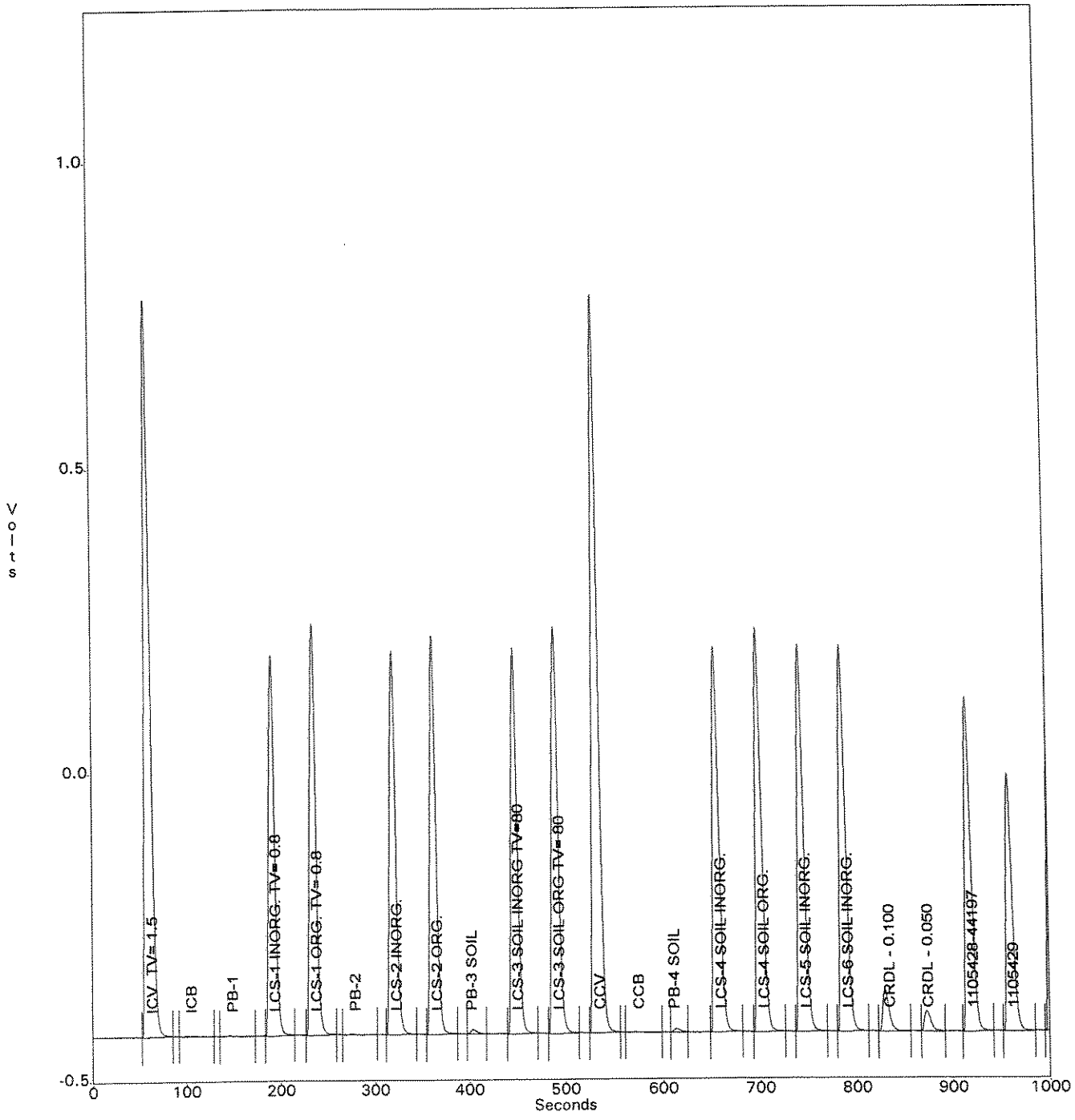
Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 365.1 Total Phosphorus (mg/L)	Man Dil Factor	Auto Dil Factor	
126	264S DUP RPT 1/4	15 Jul 2008	11:51:39	1	3.8781	4.0	1.00	= 387.81
127	264S SPK RPT 1/4 TV=80	15 Jul 2008	11:52:23	1	4.6398	4.0	1.00	= 463.98
128	1116271S RPT 1/4	15 Jul 2008	11:53:07	1	5.0432	4.0	1.00	= 504.32
129	1116274S RPT 1/4	15 Jul 2008	11:53:50	1	4.9045	4.0	1.00	= 490.45
130	1116277S RPT 1/4	15 Jul 2008	11:54:34	1	3.5343	4.0	1.00	= 353.43
131	1116278S DUP RPT 1/10	15 Jul 2008	11:55:18	1	7.5153	10.0	1.00	= 751.53
132	CCV	15 Jul 2008	11:56:01	1	1.5037	1.0	1.00	
133	CCB	15 Jul 2008	11:56:45	1	0.0139	1.0	1.00	
134	1116279S RPT 1/4	15 Jul 2008	11:57:28	1	4.0308	4.0	1.00	= 403.08
135	CCV	15 Jul 2008	11:58:11	1	1.4965	1.0	1.00	
136	CCB	15 Jul 2008	11:58:55	1	0.0139	1.0	1.00	

OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 9:52:50
DATA FILENAME: C:\OMNION\DATA\0807150A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

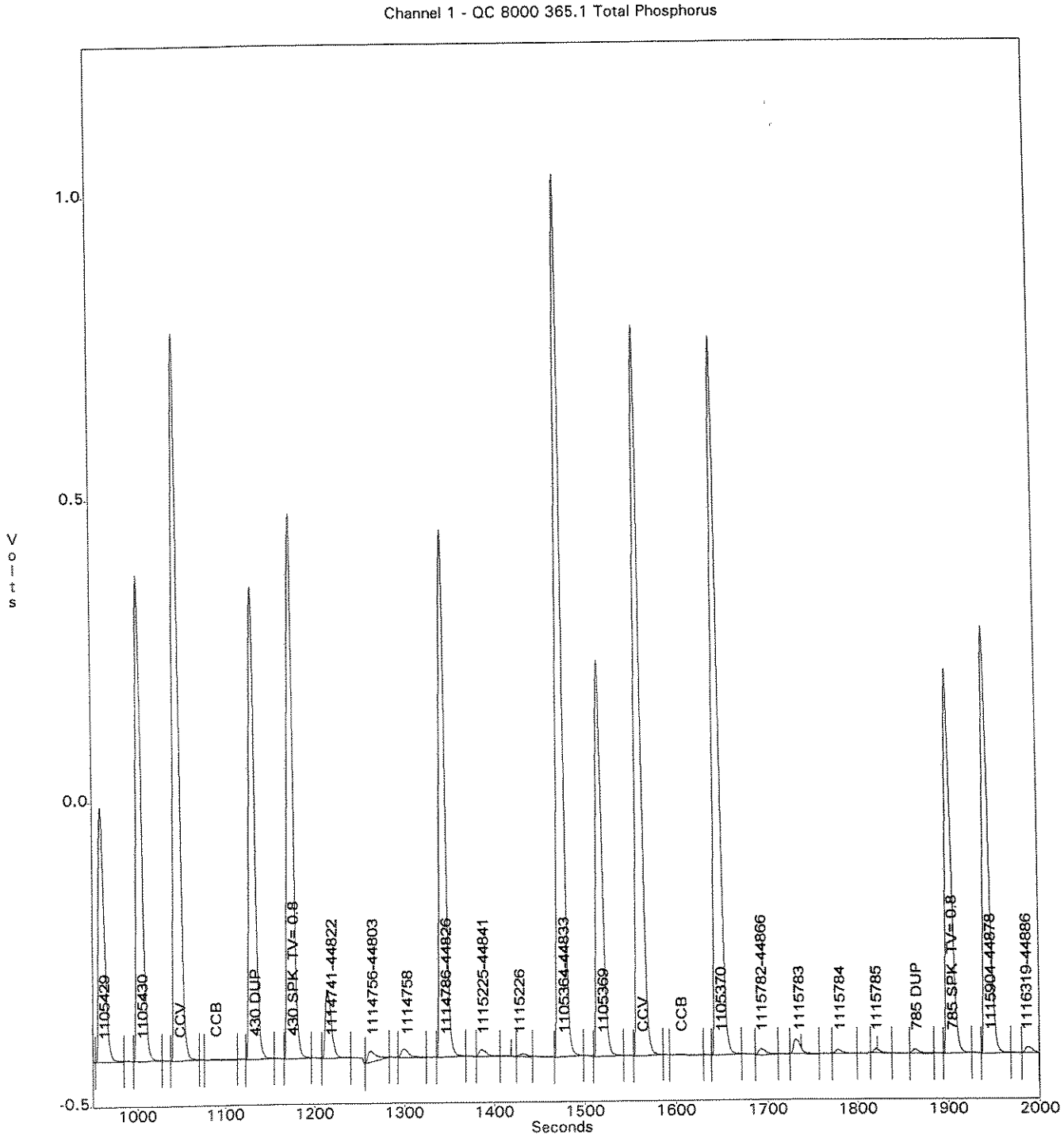


OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA

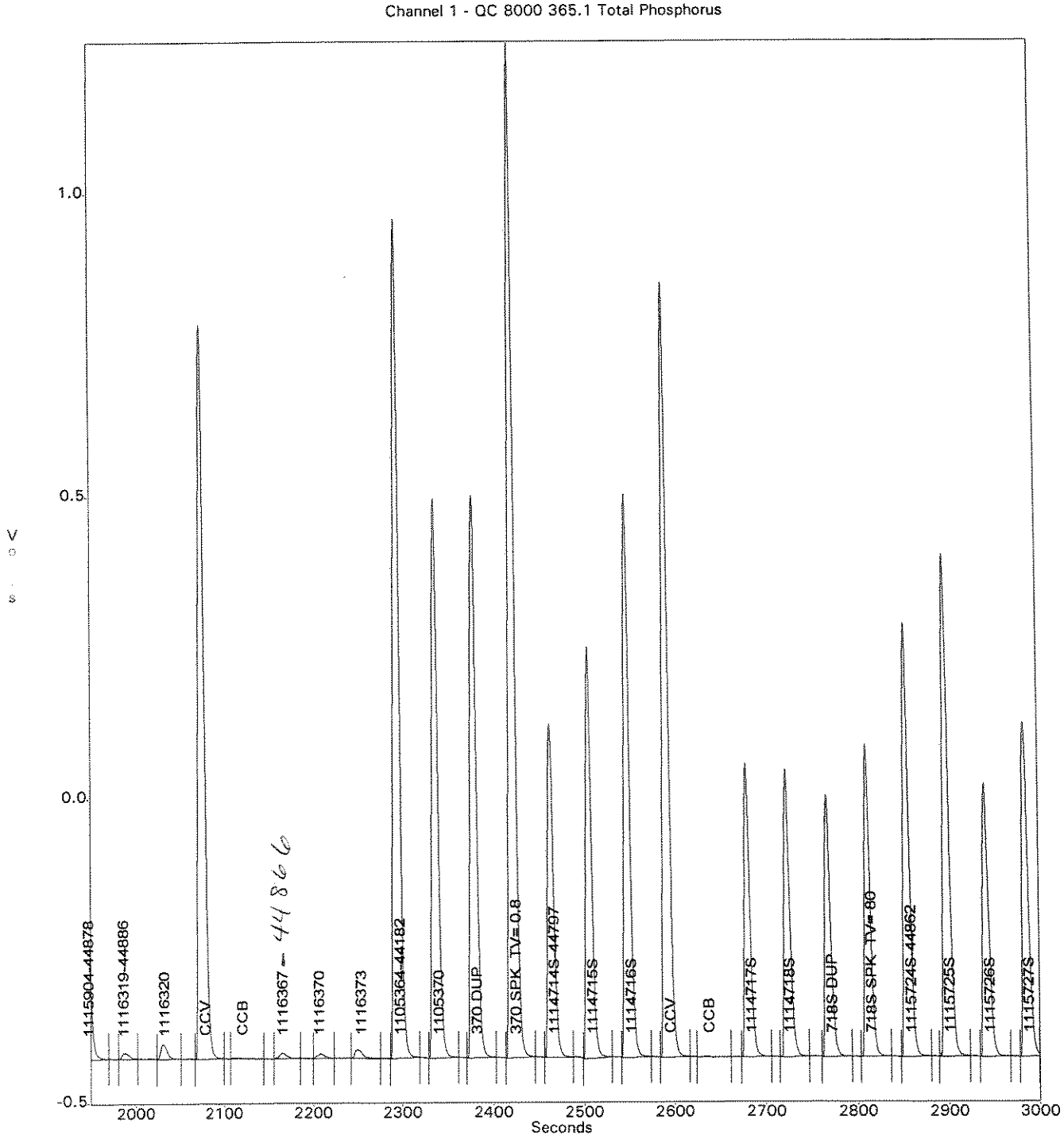
Channel 1 - QC 8000 365.1 Total Phosphorus



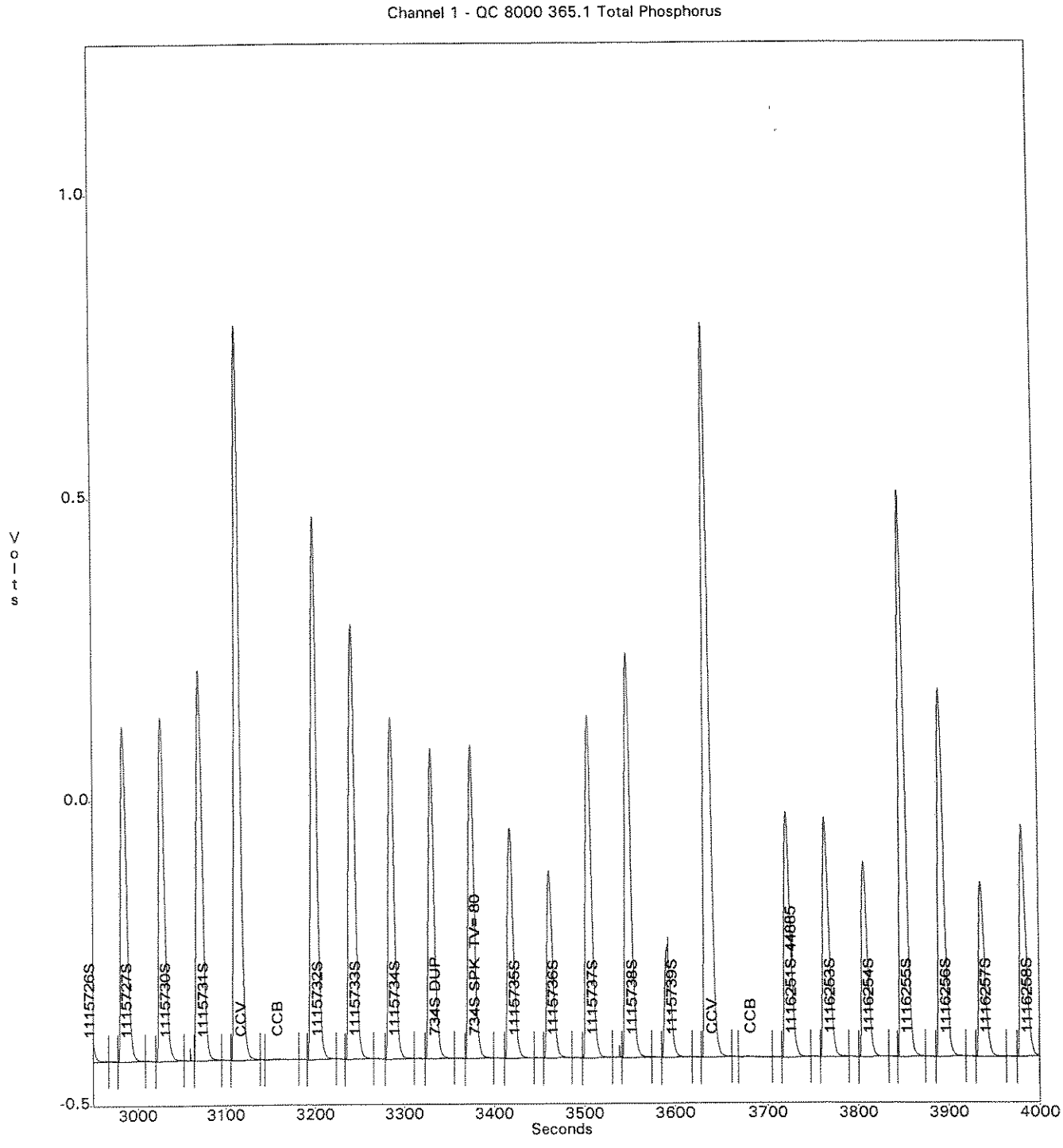
OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA



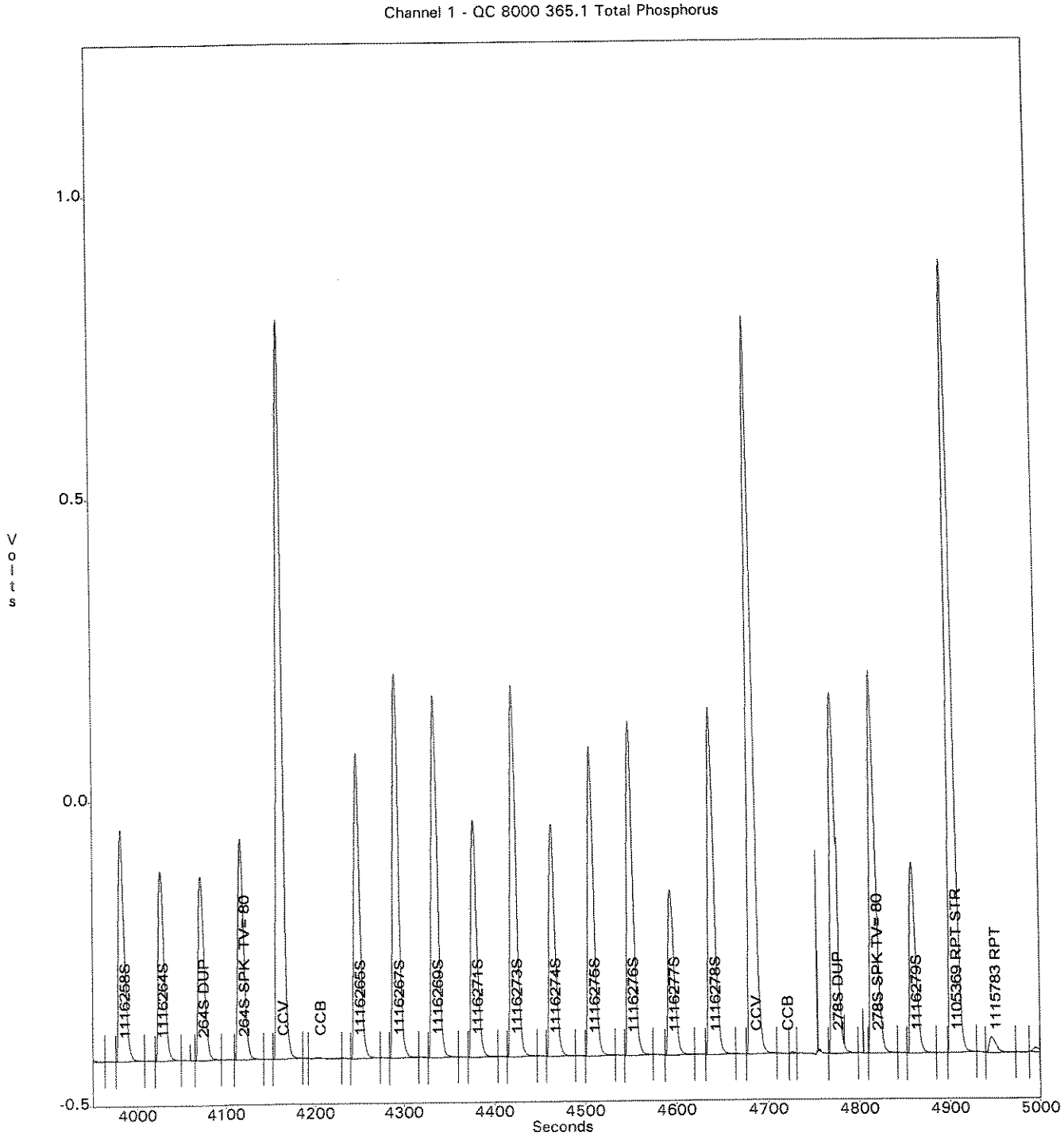
OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA



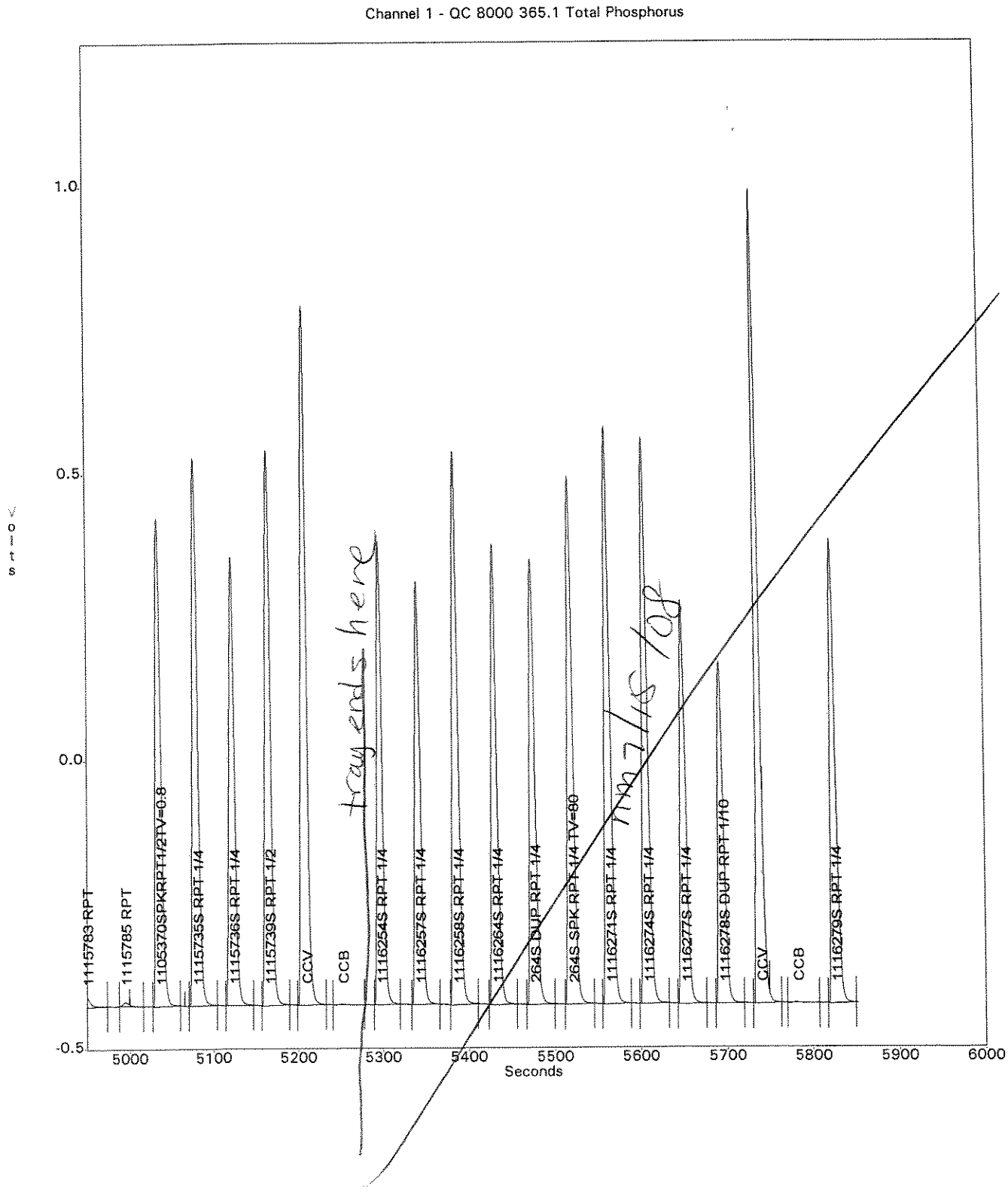
OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA



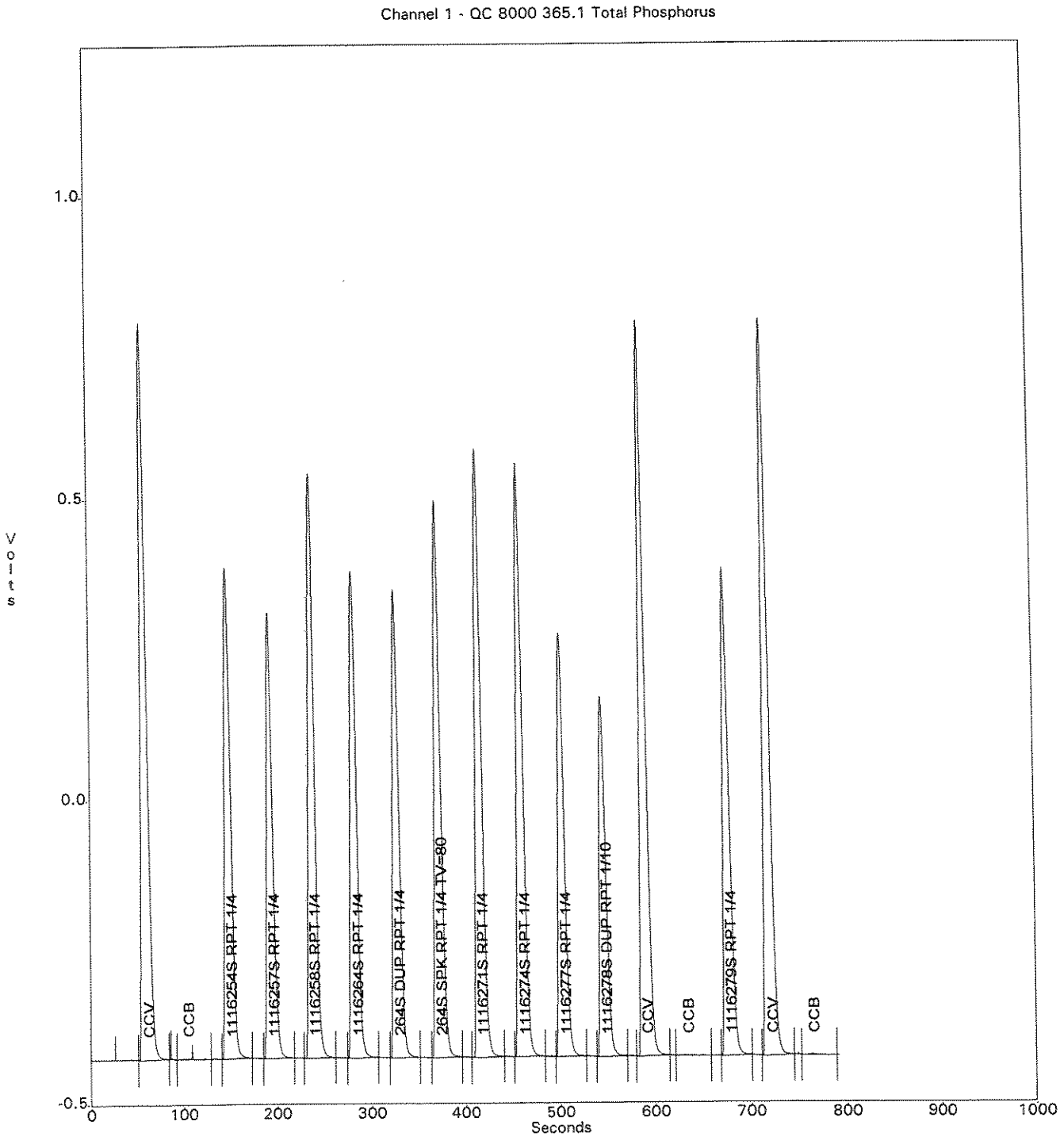
OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 10:08:09
DATA FILENAME: C:\OMNION\DATA\080715A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0807150A.TRA



OPERATOR: NMEAD
ACQ. TIME: Jul 15, 2008 11:47:08
DATA FILENAME: C:\OMNION\DATA\080715A2.FDT
TRAY FILENAME: C:\OMNION\TRAYS\080715A2.TRA



OPERATOR:	NMEAD
ACQ. TIME:	Jul 15, 2008 9:52:50
DATA FILENAME:	C:\OMNION\DATA\0807150A.FDT
METHOD FILENAME:	C:\OMNION\METHODS\TPO4B.MET
TRAY FILENAME:	C:\OMNION\TRAYS\0807150A.TRA

TRAY DESCRIPTION:

Created:	Jul 15, 2008 8:35:48
Modified:	Jul 15, 2008 8:35:48

QC 8000 365.1 TPO4 - RUN LOG - TPO4B 0807150A

DATA DESCRIPTION:

Created:	Jul 15, 2008 9:52:50
Modified:	Jul 15, 2008 9:52:50

Method - Ch. 1 (QC 8000 365.1 Total Phosphorus)

METHOD DESCRIPTION:

Created:	Feb 25, 2008 14:38:43
Modified:	Jul 9, 2008 9:58:54

Total Phosphorus - 2.00 -- 0.05

ANALYTE DATA:

Analyte Name:	QC 8000 365.1 Total Phosphorus
Concentration Units:	mg/L
Chemistry:	Direct
Inject to Peak Start (s):	13.0
Peak Base Width (s):	16.961
% Width Tolerance:	60.000
Threshold:	6416.000
Autodilution Trigger:	Off
QuikChem Method:	10-115-01-1-E

CALIBRATION DATA:

Levels:

1 : 2.000	2 : 1.000	3 : 0.500	4 : 0.200
5 : 0.100	6 : 0.050	7 : 0.020	8 : 0.000

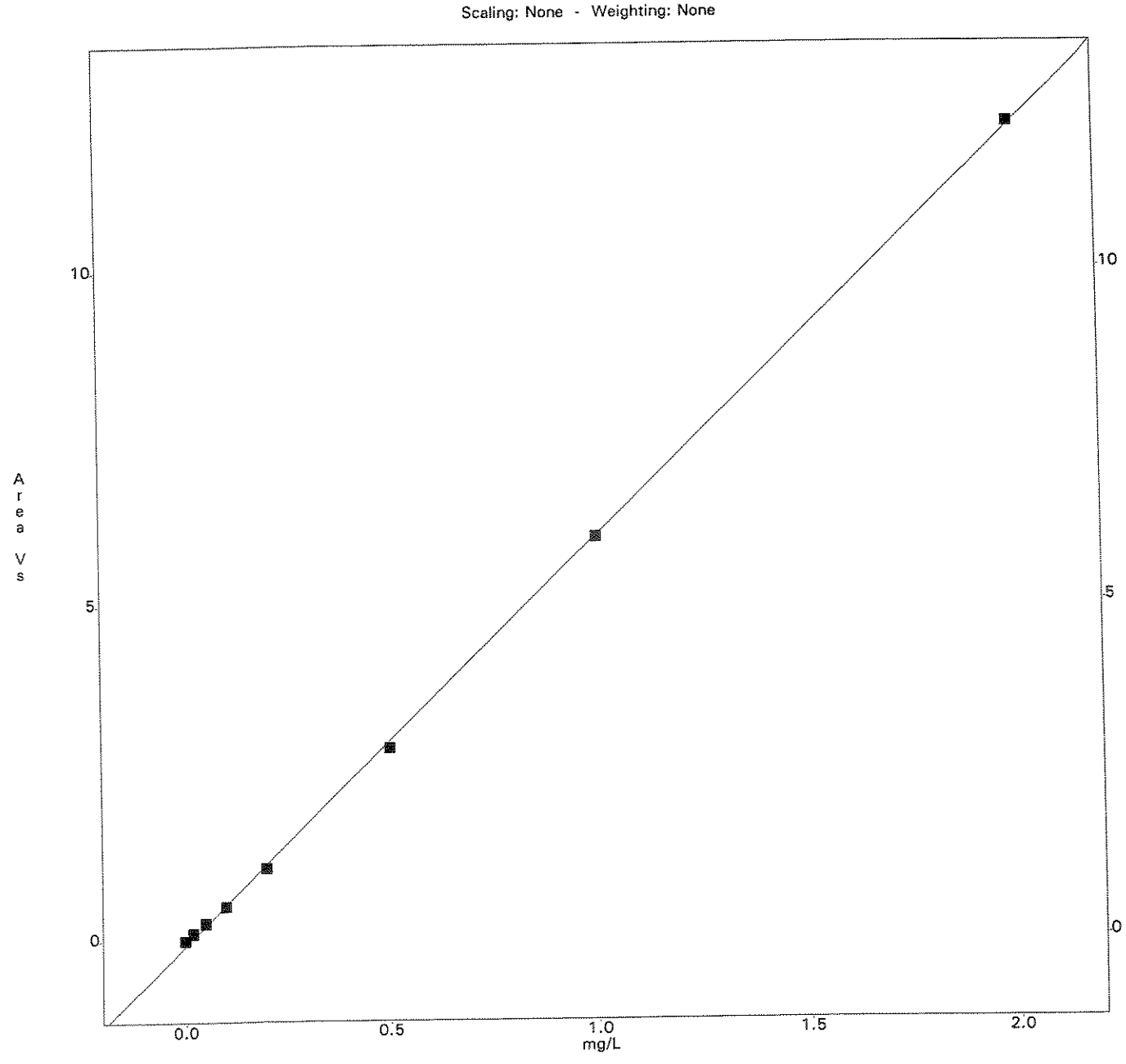
Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

QC 8000 365.1 Total Phosphorus

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	12166605	2.00	12166605					0.0	0.0	-0.4
2	5980751	1.00	5980751					0.0	0.0	0.6
3	2849858	0.50	2849858					0.0	0.0	3.8
4	1067373	0.20	1067373					0.0	0.0	5.6
5	505448	0.10	505448					0.0	0.0	3.3
6	255530	0.05	261432	249628				8346.7	3.3	-11.5
7	107246	0.02	100876	113616				9008.5	8.4	-57.2
8	0	0.00	0	0				0.0	0.0	

pipette ID: E-1

1st Order Poly
Conc = 1.639e-007 Area + 1.386e-002
r = 0.9999



Printed: Tuesday, July 15, 2008 - 10:02 AM

Columbia Analytical Services

1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead Date: 2/15/08

Analysis: Total Phosphorus, 0.05 - 5.0 mg/L Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC85114C, 02/25/08	WC72001T, 2/14/08				
b) I/CCV Preparation:	WC85114E, 02/25/08	WC85071F, 11/12/07	1.5	10	10	1.50
c) Inorganic LCS Prep:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80
d) Organic LCS Prep:	WC85114F, 2/25/08	WC85051H, 10/10/07	0.2	100	25	0.80
e) Matrix Spike Prep.:	WC85114F, 2/25/08	WC72001T, 2/14/08	0.2	100	25	0.80

Instrument log filled in? (Y) (N)

Packages:

Copy and attach Standards Preparation.

Comments:

p:\greg\forms\covert.po4

2/26/08 RP (A) 0.0250N $Na_2S_2O_3$ - Sulfides

Dilute 50mLs 0.1N $Na_2S_2O_3$ (WC850670) to 200mLs volumetrically w/ DI. Store for 2 weeks at 4°C. Exp. 3/11/08

2/25/08 TC 2/26/08 (B) TPO4 Reg. Level Calibration for OC8000

TC (B) make a ~~100~~ 10 ppm Standard Working Stock by preparing two serial dilutions of the 1000ppm TPO4 Standard Stock (WC720001T)

(C) Cal. Standards - fresh per run

Std	Std Conc. (mg/L)	mls of 10ppm Working Stock (WC850114B)	mls ~~DI~~ Carrier/Diluent TC 2/26/08
A	2.00	2.0	8.0
B	1.00	1.0	9.0
C	~~0.05~~ 0.50	0.50	9.5
D	0.20	1/10 dilution of Std A	
E	0.10	1/10 dilution of Std B	
F	0.050	1/10 dilution of Std C	
G	0.020	1/10 dilution of Std D.	
H	0.000	use Carrier/Diluent only	

~~(D) CCV/ICV TV=1.50~~ TC 2/25/08

Added

(D) make a 10ppm Reference Working Stock by preparing two serial dilutions of the 1000ppm TPO4 Reference Stock (WC850711F)

(E) TPO4 ICV/CCV TV=1.50

Add 1.50 mls of the 10ppm Reference Working Stock (WC850114D) to 8.5mls Carrier/Diluent. Fresh per run.

(F) Inorganic/Organic TPO4 RL LCS/MS TV=0.80 ppm

To 25 mls sample or LIPDI add 0.80 mLs of 100ppm Standard Stock (prepared by making a 1/10 dilution of the 1000ppm Standard Stock (WC720001T))

Organic LCS is prepared from 100ppm Organic Standard (WC850511H)

ed volumetrically
bottle. @ 4°C

10/9/07 NM (A) NH3 Carrier/Diluent
- same as WC85035A. Prepared solution x 3.

(B) Hypochlorite - NH3 - To a tared 1-L amber jar add
- 350 mLs Sodium Hypochlorite (WC85047B)
- 350 mLs UPDI
Prepare fresh each run.

: add
:l.

10/9/07 TC (C) TKN Digest Reagent
To a 2 liter vol. flask add:
- 268.0 g K_2SO_4 (WC85037A)
- 14.6 g Copper II Sulfate (WC85040A)
to ~900 mL UPDI
Slowly add 268 mL conc. Instra analyzed H_2SO_4 (WC85024E)
Stir until dissolved. Allow to cool. Exp. 1 month 11/9/07

10/9/07 NM (D) Buffer - NH3
- same as WC85021D. Exp 1 year, 10/9/08.

10/10/07 GN (E) NO_2 Color Reagent - Konelab
- same as WC85032A. Exp 1 month 11/10/07

?9
:85050E).

10/10/07 NM (F) Post-Digestion Matrix Match - TKN
To a 2-L vol. flask add 800 mL TKN Digest Reagent (WC85051C) and bring to volume w/ UPDI. mix thoroughly. Pour off 100 mL and discard. Bring back to volume w/ UPDI. mix thoroughly. Store @ RT in amber glass. Exp. 11/9/07.

z, Cat# ZX0048-1,
5-6. Store R.T.

(G) Hypochlorite - TKN
- same as ~~WC85049G~~ 10/10/07 WC85049G. Prepare fresh each run.

(W), Cat# 2533-35,
WC85017G.

10/10/07 TC (H) 100ppm Organic Phosphorous Standard - TPO4
In a 1 liter vol. flask dissolve 0.7685g β-Glycerophosphoric acid, Disodium Salt, 5-Hydrate (WC76143D) in UPDI. Bring to vol. w/ DI. Store in amber glass @ 4°C. Exp. 1 yr. 10/10/08.

n.
CAS# 108-95-2.

Autotitrator Solutions

A) brought fresh

id 2/07

(A) 0.100N KIO_3

In a 2L vol. flask, dissolve 42.8g KIO_3 (WC25087E) and bring to volume with DI. Store at RT. Exp 11/9/08

(B) 0.6M KI

In a 1 L vol. flask, dissolve 99.6g KI (WC25046H) and bring to volum with DI. Store at RT. Exp 11/9/08

11/9/07 TC

(C) Sulfanilamide Color Reagent -TOTN

ur (HYPO)

To a tared 1 Liter amber bottle add:

- 76.8g DI
- 153g H_3PO_4 (WC76294E)
- 0.90g NED (WC74208H)
- 36.0g Sulfanilamide (WC76161G)

Br)

Stir until dissolved. Store @ RT. Exp. 1 month, 11/9/08.

y dried @ 105°C for 1hr, 11/8/08

11/12/07 TC

(D) TKN Digest Reagent

In a 2 liter vol. flask dissolve.

- 268g K_2SO_4 (WC85066D)
- 14.6g $CuSO_4$ (WC85040A)
- 268 mL conc. omnitrace H_2SO_4 (WC85-067G)

in UPDI. Stir until dissolved. Cool and bring to vol. w/ UPDI. Exp. 1 month, 12/12/07.

r

t/Le add:

11/12/07 RR

(E) TSS Reference

0.2230 g Kaolin (WC69285G) brought to 1000g w/ DI. Stored at 4°C in a plastic bottle.

N = 223 mg/L exp. 11/12/08

djust pH xp 1yR. 11/9/08.

11/12/07 TC

(F) TPO_4 1000 ppm Reference Stock

4.394g KH_2PO_4 (WC85054G) previously dried for 2 hours @ 104°C. Dissolve in ~800 mls DI in a 1 liter vol. flask. Bring to vol. w/ DI. Store in amber glass @ 4°C for 1yR. Exp 11/12/08.

Jumetrically tle @ 4°C.

11/12/07

(G) 100ppm - Iodate Titrant for Sulfites

0.4468g KIO_3 (WC69234F) + 4.25g KI (WC76272E) + 0.310g $NaHCO_3$ (WC76115E) diluted to 1L in vol. flask with DI Store at 4°C. exp 11/12/08

STANDARD STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

By: CH / CK / CK

Date: 5/9/05 / 7/19/06 / 10/11/06

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
* A	WC69074D	BB	2/23/04	2/23/05	WC72001A
B	WC69074D	BB	2/23/05	2/23/06	WC72001B
C	WC69014D	TC	2/21/06	2/1/07	WC72001C
D	WC76102I	FN	2/5/07	2/5/08	WC72001D
E					

* previously WC69084A

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
2* F	WC55288D	BB	2/27/04	2/27/05	WC72001F
G	WC69234I	BB	2/23/05	2/23/06	WC72001G
H	WC69234J	TC	2/22/06	2/22/07	WC72001H
I	WC69234I	FN	2/5/07	2/1/08	WC72001I
J	WC85099D	NM	1/31/08	1/31/09	WC72001J

2* previously WC69089A

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

CK 10/5/04

ID Letter	~~KNO2~~ KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65017E	WC69078E	BB	8/10/04 AB 2/8/05 BB	2/10/05 8/8/05	WC72001K
L	WC65017E	WC69108E	BB	2/8/05	8/8/05	WC72001L
M	WC65017E	WC69174F	JPM	7/25/05	1/25/06	WC72001M
N	WC65017E	WC61245F	FN	1/23/06	7/23/06	WC72001N
O	~~WC69761~~ WC76114C	WC69245F	FN	4/12/06	10/12/06	WC72001O

3* previously WC690163E

OPO4 / TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 L volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
4* P	WC65017D	BB	2/24/04	2/24/05	WC72001P
Q	~~WC65017D~~ WC69196E	BB	2/23/05	2/23/06	WC72001Q
R	WC69196E	TC	2/21/06	2/21/07	WC72001R
S	WC69245I	TC	2/23/07 2/5/07	2/5/08 2/20/08	WC72001S
T	WC85085E	RP	2/14/08	2/14/09	WC72001T

4* previously WC69085D

Sulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
5* U	WC65168D	BB	2/24/04	2/24/05	WC72001U
V	WC65168D	BB	2/23/05	2/23/06	WC72001V
W	WC76018A	TC	2/22/06	2/22/07	WC72001W
X	WC76153I	TC	2/5/07	2/5/08	WC72001X
Y	WC76153E	NM	1/31/08	1/31/09	WC72001Y

5* previously WC69085A

Run #: 163443
Analyte: TSS SM2540D TOTAL SUSPENDED SOLIDS
Printed: 07/10/08 12:33

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT	DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
BLK5		1116304	WATER	-0.100	1.0	1.00			07/07/2008		
SPKB		1116305	WATER	196	1.0	1.00	92.9		07/07/2008		
ESMP	R2844508	1109492	WATER	0.659	1.1	1.00			07/07/2008		1
ESMP	R2844508	1109493	WATER	0.700	1.0	1.00			07/07/2008		1
ESMP	R2844508	1109495	WATER	0.900	1.0	1.00			07/07/2008		1
ESMP	R2844508	1109498	WATER	0.200	1.0	1.00			07/07/2008		1
ESMP	R2844593	1110788	WATER	1.70	1.0	1.00			07/07/2008	RUN	2
ESMP	R2844800	1114391	WATER	5.20	1.0	1.00			07/07/2008	RUN	ASPB
ESMP	R2844801	1114392	WATER	0.300	1.0	1.00			07/07/2008	RUN	ASPB
ESMP	R2844803	1114419	WATER	-0.100	1.0	1.00			07/07/2008		ASPB
ESMP	R2844803	1114420	WATER	0.200	1.0	1.00			07/07/2008		ASPB
ESMP	R2844803	1114421	WATER	0.600	1.0	1.00			07/07/2008	QC	ASPB
LDUP		1116306	WATER	0.500	1.0	1.00		18.18	07/07/2008		

Records printed: 13

DATE PRINTED: 07/10/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163443 **ANALYSIS DATE:** 07/07/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)	VOL (ml)	(mg/L)	FLASK/ DISH ID	LS JOB#	LS LOC#
1	1116304	R28 0	MBLK	(1.3575-	1.3576)=	-0.0001	*1E6 /1000	=-0.100	23		
2	1116305	R28 0	LCS	(1.3825-	1.3629)=	0.0196	*1E6 /100	= 196	24		
3	1109492	R2844508	ESMP	(1.3623-	1.3617)=	0.0006	*1E6 /910	=0.659	31		
4	1109493	R2844508	ESMP	(1.3691-	1.3684)=	0.0007	*1E6 /1000	=0.700	32		
5	1109495	R2844508	ESMP	(1.3716-	1.3707)=	0.0009	*1E6 /1000	=0.900	33		
6	1109498	R2844508	ESMP	(1.3588-	1.3586)=	0.0002	*1E6 /1000	=0.200	34		
7	1110788	R2844593	ESMP	(1.3718-	1.3701)=	0.0017	*1E6 /1000	=1.70	35		
8	1114391	R2844800	ESMP	(1.3712-	1.3660)=	0.0052	*1E6 /1000	=5.20	36		
9	1114392	R2844801	ESMP	(1.3595-	1.3592)=	0.0003	*1E6 /1000	=0.300	37		
10	1114419	R2844803	ESMP	(1.3592-	1.3593)=	-0.0001	*1E6 /1000	=-0.100	38		
11	1114420	R2844803	ESMP	(1.3616-	1.3614)=	0.0002	*1E6 /1000	=0.200	39		
12	1114421	R2844803	ESMP	(1.3667-	1.3661)=	0.0006	*1E6 /1000	=0.600	40		
13	1116306	R28 0	DUPE	(1.3621-	1.3616)=	0.0005	*1E6 /1000	=0.500	41		

Analyte: Total Suspended Solids (TSS) Analyst: BB Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked:
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC85174F Filter ID: WC85154B Balance ID: AE240 Oven ID: AE240
TS TV: 211 TVS TV: N/A **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
						C)		Dry wgt (A):	1.3622			
						B)	1.3624	Dry wgt (A):	1.3622			
1		MB	1	1000		A-B=	-0.0002	Dry wgt (A):			-0.20	
						D-B=		550 wgt (D):				
								A-D=	1.3622			
						C)		Dry wgt (A):	1.3795			
						B)	1.3606	Dry wgt (A):	1.3795			
2		LCS	2	100		A-B=	0.0189	Dry wgt (A):			189.00	
						D-B=		550 wgt (D):				
								A-D=	1.3795			
						C)		Dry wgt (A):	1.3723			
						B)	1.3707	Dry wgt (A):	1.3722			
3	44207	R-1105468	3	1000	X	A-B=	0.0015	Dry wgt (A):			1.50	
						D-B=		550 wgt (D):				
								A-D=	1.3722			
						C)		Dry wgt (A):	1.3657			
						B)	1.3657	Dry wgt (A):	1.3657			
4	44508	R-1109500	4	950	X	A-B=	0.0000	Dry wgt (A):			0.00	
						D-B=		550 wgt (D):				
								A-D=	1.3657			
						C)		Dry wgt (A):	1.3633			
						B)	1.3600	Dry wgt (A):	1.3632			
5	44770	R-1114342	5	1000		A-B=	0.0032	Dry wgt (A):			3.20	
						D-B=		550 wgt (D):				
								A-D=	1.3632			
						C)		Dry wgt (A):	1.3591			
						B)	1.3563	Dry wgt (A):	1.3590			
6		R-1114343	6	1000		A-B=	0.0027	Dry wgt (A):			2.70	
						D-B=		550 wgt (D):				
								A-D=	1.3590			
						C)		Dry wgt (A):	1.3602			
						B)	1.3564	Dry wgt (A):	1.3599			
7		R-1114344	7	1000		A-B=	0.0035	Dry wgt (A):			3.50	
						D-B=		550 wgt (D):				
								A-D=	1.3599			
						C)		Dry wgt (A):	1.3633			
						B)	1.3577	Dry wgt (A):	1.3632			
8		R-1114345	8	965	X	A-B=	0.0055	Dry wgt (A):			5.70	
						D-B=		550 wgt (D):				
								A-D=	1.3632			

Analyte: Total Suspended Solids (TSS) Analyst: BB Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked:
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC85174F Filter ID: WC85154B Balance ID: AE240 Oven ID: AE240
TS TV: 211 TVS TV: N/A **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
						C)		Dry wgt (A):	1.3824			
						B)	1.3759	Dry wgt (A):	1.3823			
9		R-1114346	9	1000		A-B=	0.0064	Dry wgt (A):			6.40	
						D-B=		550 wgt (D):				
								A-D=	1.3823			
						C)		Dry wgt (A):	1.3660			
						B)	1.3648	Dry wgt (A):	1.3660			
10		R-1114347	10	1000		A-B=	0.0012	Dry wgt (A):			1.20	
						D-B=		550 wgt (D):				
								A-D=	1.3660			
						C)		Dry wgt (A):	1.3592			
						B)	1.3588	Dry wgt (A):	1.3594			
11		R-1114348	11	1000		A-B=	0.0004	Dry wgt (A):			0.40	
						D-B=		550 wgt (D):				
								A-D=	1.3592			
						C)		Dry wgt (A):	1.3703			
						B)	1.3684	Dry wgt (A):	1.3702			
12		R-1114349	12	1000		A-B=	0.0018	Dry wgt (A):			1.80	
						D-B=		550 wgt (D):				
								A-D=	1.3702			
						C)		Dry wgt (A):	1.3505			
						B)	1.3497	Dry wgt (A):	1.3504			
13	44798	R-1114367	13	1000		A-B=	0.0007	Dry wgt (A):			0.70	
						D-B=		550 wgt (D):				
								A-D=	1.3504			
						C)		Dry wgt (A):	1.3609			
						B)	1.3601	Dry wgt (A):	1.3608			
14		R-1114368	14	1000		A-B=	0.0007	Dry wgt (A):			0.70	
						D-B=		550 wgt (D):				
								A-D=	1.3608			
						C)		Dry wgt (A):	1.3624			
						B)	1.3620	Dry wgt (A):	1.3624			
15		R-1114369	15	1000		A-B=	0.0004	Dry wgt (A):			0.40	
						D-B=		550 wgt (D):				
								A-D=	1.3624			
						C)		Dry wgt (A):	1.3725			
						B)	1.3704	Dry wgt (A):	1.3724			
16		R-1114370	16	1000		A-B=	0.0020	Dry wgt (A):			2.00	
						D-B=		550 wgt (D):				
								A-D=	1.3724			

Analyte: Total Suspended Solids (TSS) Analyst: BB Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC85174F Filter ID: WC85154B Balance ID: AE240 Oven ID: AE240
TS TV: 211 TVS TV: N/A **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
						C)		Dry wgt (A):	1.3661			
						B)	1.3657	Dry wgt (A):	1.3661			
17		R-1114371	17	1000		A-B=	0.0004	Dry wgt (A):			0.40	
						D-B=		550 wgt (D):				
								A-D=	1.3661			
						C)		Dry wgt (A):	1.3543			
						B)	1.3483	Dry wgt (A):	1.3542			
18		R-1114372	18	1000		A-B=	0.0059	Dry wgt (A):			5.90	
						D-B=		550 wgt (D):				
								A-D=	1.3542			
						C)		Dry wgt (A):	1.3656			
						B)	1.3650	Dry wgt (A):	1.3655			
19		R-1114373	19	990	X	A-B=	0.0005	Dry wgt (A):			0.51	
						D-B=		550 wgt (D):				
								A-D=	1.3655			
						C)		Dry wgt (A):	1.3590			
						B)	1.3584	Dry wgt (A):	1.3590			
20	44771	R-1114433	20	890	X	A-B=	0.0006	Dry wgt (A):			0.67	
						D-B=		550 wgt (D):				
								A-D=	1.3590			
						C)		Dry wgt (A):	1.3648			
						B)	1.3635	Dry wgt (A):	1.3647			
21		R-1114434	21	1000		A-B=	0.0012	Dry wgt (A):			1.20	
						D-B=		550 wgt (D):				
								A-D=	1.3647			
						C)		Dry wgt (A):	1.3644			
						B)	1.3637	Dry wgt (A):	1.3643			
22		R-1114435	22	1000		A-B=	0.0006	Dry wgt (A):			0.60	
						D-B=		550 wgt (D):				
								A-D=	1.3643			
						C)		Dry wgt (A):	1.3576			
						B)	1.3576	Dry wgt (A):	1.3575			
23		MB	23	1000		A-B=	-0.0001	Dry wgt (A):			-0.10	
						D-B=		550 wgt (D):				
								A-D=	1.3575			
						C)		Dry wgt (A):	1.3825			
						B)	1.3629	Dry wgt (A):	1.3825			
24		LCS	24	100		A-B=	0.0196	Dry wgt (A):			196.00	
						D-B=		550 wgt (D):				
								A-D=	1.3825			

Analyte: Total Suspended Solids (TSS) Analyst: **BB** Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# **WC85174F** Filter ID: WC85154B Balance ID: AE240 Oven ID: **AE240**
TS TV: **211** TVS TV: **N/A** **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
						C)		Dry wgt (A):	1.3666			
						B)	1.3597	Dry wgt (A):	1.3666			
25	44192	R-1105398	25	74		A-B=	0.0069	Dry wgt (A):			93.24	
						D-B=		550 wgt (D):				
								A-D=	1.3666			
						C)		Dry wgt (A):	1.3710			
						B)	1.3636	Dry wgt (A):	1.3710			
26		R-1105398-DUP	26	75		A-B=	0.0074	Dry wgt (A):			98.67	
						D-B=		550 wgt (D):				
								A-D=	1.3710			
						C)		Dry wgt (A):	1.3659			
						B)	1.3598	Dry wgt (A):	1.3659			
27		R-1105400	27	26		A-B=	0.0061	Dry wgt (A):			234.62	
						D-B=		550 wgt (D):				
								A-D=	1.3659			
						C)		Dry wgt (A):	1.3708			
						B)	1.3688	Dry wgt (A):	1.3709			
28		R-1105401	28	119		A-B=	0.0020	Dry wgt (A):			16.81	
						D-B=		550 wgt (D):				
								A-D=	1.3708			
						C)		Dry wgt (A):	1.3650			
						B)	1.3628	Dry wgt (A):	1.3650			
29		R-1105401-DUP	29	124		A-B=	0.0022	Dry wgt (A):			17.74	
						D-B=		550 wgt (D):				
								A-D=	1.3650			
						C)		Dry wgt (A):	1.3778			
						B)	1.3748	Dry wgt (A):	1.3778			
30		R-1105427	30	1000		A-B=	0.0030	Dry wgt (A):			3.00	
						D-B=		550 wgt (D):				
								A-D=	1.3778			
						C)		Dry wgt (A):	1.3623			
						B)	1.3617	Dry wgt (A):	1.3624			
31	44508	R-1109492	31	910	X	A-B=	0.0006	Dry wgt (A):			0.66	
						D-B=		550 wgt (D):				
								A-D=	1.3623			
						C)		Dry wgt (A):	1.3691			
						B)	1.3684	Dry wgt (A):	1.3692			
32		R-1109493	32	1000		A-B=	0.0007	Dry wgt (A):			0.70	
						D-B=		550 wgt (D):				
								A-D=	1.3691			

Analyte: Total Suspended Solids (TSS) Analyst: BB Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked:
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC85174F Filter ID: WC85154B Balance ID: AE240 Oven ID: AE240
TS TV: 211 TVS TV: N/A **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
						C)		Dry wgt (A):	1.3716			
						B)	1.3707	Dry wgt (A):	1.3718			
33		R-1109495	33	1000		A-B=	0.0009	Dry wgt (A):			0.90	
						D-B=		550 wgt (D):				
								A-D=	1.3716			
						C)		Dry wgt (A):	1.3588			
						B)	1.3586	Dry wgt (A):	1.3590			
34		R-1109498	34	1000		A-B=	0.0002	Dry wgt (A):			0.20	
						D-B=		550 wgt (D):				
								A-D=	1.3588			
						C)		Dry wgt (A):	1.3718			
						B)	1.3701	Dry wgt (A):	1.3718			
35	44593	R-1110788	35	1000		A-B=	0.0017	Dry wgt (A):			1.70	
						D-B=		550 wgt (D):				
								A-D=	1.3718			
						C)		Dry wgt (A):	1.3712			
						B)	1.3660	Dry wgt (A):	1.3713			
36	44800	R-1114391	36	1000		A-B=	0.0052	Dry wgt (A):			5.20	
						D-B=		550 wgt (D):				
								A-D=	1.3712			
						C)		Dry wgt (A):	1.3595			
						B)	1.3592	Dry wgt (A):	1.3596			
37	44801	R-1114392	37	1000		A-B=	0.0003	Dry wgt (A):			0.30	
						D-B=		550 wgt (D):				
								A-D=	1.3595			
						C)		Dry wgt (A):	1.3592			
						B)	1.3593	Dry wgt (A):	1.3593			
38	44803	R-1114419	38	1000		A-B=	-0.0001	Dry wgt (A):			-0.10	
						D-B=		550 wgt (D):				
								A-D=	1.3592			
						C)		Dry wgt (A):	1.3616			
						B)	1.3614	Dry wgt (A):	1.3617			
39		R-1114420	39	1000		A-B=	0.0002	Dry wgt (A):			0.20	
						D-B=		550 wgt (D):				
								A-D=	1.3616			
						C)		Dry wgt (A):	1.3667			
						B)	1.3661	Dry wgt (A):	1.3668			
40		R-1114421	40	1000		A-B=	0.0006	Dry wgt (A):			0.60	
						D-B=		550 wgt (D):				
								A-D=	1.3667			

Analyte: Total Suspended Solids (TSS) Analyst: BB Date: 7/7/08
Method: 160.2 / SM20 2540D Pipet: N/A Time: 14:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC85174F Filter ID: WC85154B Balance ID: AE240 Oven ID: AE240
TS TV: 211 TVS TV: N/A **Thermolyne 48000 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Sub #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)	(X) if FSS
41		R-1114421-DUP	41	1000		C)		Dry wgt (A):	1.3621		0.50	
						B)	1.3616	Dry wgt (A):	1.3622			
						A-B=	0.0005	Dry wgt (A):				
						D-B=		550 wgt (D):				
								A-D=	1.3621			
42		MB	57	1000		C)		Dry wgt (A):	18.2881	-0.60	-0.30	X
						B)	18.2883	Dry wgt (A):	18.2880			
						A-B=	-0.0003	Dry wgt (A):				
						D-B=	-0.0006	550 wgt (D):	18.2877			
								A-D=	0.0003			
43	44206	R-1105457	D1	202		C)		Dry wgt (A):	20.7721	8.42	22.77	X
						B)	20.7673	Dry wgt (A):	20.7719			
						A-B=	0.0046	Dry wgt (A):				
						D-B=	0.0017	550 wgt (D):	20.7690			
								A-D=	0.0029			
44		R-1105457-DUP	54	199		C)		Dry wgt (A):	20.0751	9.05	25.13	X
						B)	20.0698	Dry wgt (A):	20.0748			
						A-B=	0.0050	Dry wgt (A):				
						D-B=	0.0018	550 wgt (D):	20.0716			
								A-D=	0.0032			
45		R-1105458	A	175		C)		Dry wgt (A):	22.3359	11.43	28.00	X
						B)	22.3308	Dry wgt (A):	22.3357			
						A-B=	0.0049	Dry wgt (A):				
						D-B=	0.0020	550 wgt (D):	22.3328			
								A-D=	0.0029			
46	44821	R-1114723	42	18		C)		Dry wgt (A):	1.3816		1283.33	
						B)	1.3585	Dry wgt (A):	1.3817			
						A-B=	0.0231	Dry wgt (A):				
						D-B=		550 wgt (D):				
								A-D=	1.3816			

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: ____ Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: BB
Date: 7/7/08

Drying Tins: X
Crucible 550°C: X
Dish 180°C: ____
Dish 104°C: ____
Dish 550°C: ____
G/O Dishes: ____

	Weight	Actual
s Weights (s):	1 g	1 g
	20.0001 g	20 g

ID Number	Weight	
1	1.3624	1.3624
2	1.3607	1.3606
3	1.3707	1.3707
4	1.3657	1.3657
5	1.3600	1.3600
6	1.3564	1.3563
7	1.3564	1.3564
8	1.3578	1.3577
9	1.3759	1.3759
10	1.3649	1.3648
11	1.3589	1.3588
12	1.3685	1.3684
13	1.3497	1.3497
14	1.3601	1.3601
15	1.3621	1.3620
16	1.3704	1.3704
17	1.3657	1.3657
18	1.3484	1.3483
19	1.3650	1.3650
20	1.3584	1.3584
21	1.3635	1.3635
22	1.3637	1.3637
23	1.3577	1.3576
24	1.3629	1.3629
25	1.3597	1.3597
26	1.3636	1.3636
27	1.3599	1.3598
28	1.3689	1.3688
29	1.3628	1.3628
30	1.3748	1.3748

ID Number	Weight	
31	1.3617	1.3617
32	1.3684	1.3684
33	1.3708	1.3707
34	1.3587	1.3586
35	1.3702	1.3701
36	1.3661	1.3660
37	1.3593	1.3592
38	1.3594	1.3593
39	1.3615	1.3614
40	1.3662	1.3661
41	1.3617	1.3616
42	1.3586	1.3585
57	18.2885	18.2883
D1	20.7673	20.7673
T31	21.0584	21.0582
54	20.0699	20.0698
A	22.3310	22.3308

EVO 7/10/08

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW Date: 7/7/08

Analysis: Total Suspended Solids Instrument: ✓ Mettler AE 240 Analytical Balance
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85174F	7/3/08				211
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

p:\lotus\123r22\greg\forms\cover.tss

RP 7/3/08

(A) DPD indicator
In 500mL vol. flask dissolve 0.500g (WC76075F), 0.100g EDTA (WC85017C) and 4.0mLs 1/4 H_2SO_4 (WC85027B). Bring to volume w/ UPDI. Store at RT in amber glass.
Exp. 1yr or when discolored. 7/3/09

(B) Stock Chlorine
0.60mL sodium hypochlorite (WC85081H) diluted in 500mL vol. flask w/ UPDI. Fresh per run.

7/3/08 NM

(C) 0.80M NaOH - TKN
- Same as WC85161H. Exp. 1month, 8/3/08

(D) Color Reagent - TKN
To a tared 1 Liter amber glass jar add:
NM 7/3/08 ~~75.~~ - 75.0 g Sodium Salicylate (WC85164G)
-0.50g Sodium Nitroprusside (WC85102D).
-454g UPDI.
Stir until dissolved. Store @ RT. Exp. 1month, 8/3/08.

RP 7/3/08

(E) 0.00564 N $Na_2S_2O_3$
Dilute 28.2 mLs of 0.1N $Na_2S_2O_3$ (WC85080B) to 500mLs ~~Volume~~ in a vol. flask w/ DI. ~~Prepare~~ Store at 0-6°C. Expires in 2 weeks. Exp. 7/17/08

7/3/08 EW

(F) ~~TSS Reference~~
~~0.2114g~~ 0.2110g Kaolin (WC69285G) brought to 1000g w/ DI. ~~Store in Plastic Bottle @4°C.~~
~~TV = 211 mg/L~~ Exp. 7/3/09 TV = 211 mg/L

7/3/08 EW

(G) TS/TVS Reference
0.3002g KHP (WC76085F) diluted volumetrically to 1 Liter w/ DI. ~~Store in plastic bottle @ 4°C~~
TV_{TS} = 300 mg/L TV_{TVS} = 200 mg/L Exp: 1/23/09

7/7/08 SBR

(H) TKN Digest Reagent
To a 2 Liter vol. flask, add 268g K_2SO_4 (WC85158G) and 14.6g $CuSO_4$ (~~WC85171A~~ WC85155H SBR 7/7/08). Add ~500mL UPDI. Slowly add 268mL omnitrace H_2SO_4 (WC85132D). Dissolve and allow to cool. Bring to volume with UPDI.
Exp 1month 8/7/08

7/8/08 NM

(A) Post-...
To a ...
(WC85...
Pour of...
w/ UPDI
Exp. 8/...

(B) Hypochl...
- same a...

7/8/08 KMC

(C) 5g NaOH ...
50g ...

7/8/08 NM

(D) Ascorb...
- sam...

7/8/08 NM

Received
(E) . (1) ...
Baker ...
Expire...

7/8/08 NM

(F) Buffe...
- same a...

(G) Buffer...
- same a...

(H) Color Re...
- same ...

(I) Buffer...
- same ...

7/9/08 CMW

(J) Cr^{6+} S...
- In a ...
1,5-Diph...
100mL of...
some D...
Dilute ...

Run #: 163581
Analyte: TSS SM2540D TOTAL SUSPENDED SOLIDS
Printed: 07/11/08 15:39

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		1116959	WATER	-0.200		1.0	1.00			07/09/2008		
SPKB		1116960	WATER	210		1.0	1.00	99.5		07/09/2008		
ESMP	R2844804	1114423	WATER	175		1.0	1.00			07/09/2008	RUN	2
ESMP	R2844599	1110838	WATER	2.80		1.0	1.00			07/09/2008	RUN	2
ESMP	R2844599	1110842	WATER	4.80		1.0	1.00			07/09/2008	RUN	2
ESMP	R2844599	1110846	WATER	2.40		1.0	1.00			07/09/2008	RUN	2
ESMP	R2844599	1110850	WATER	2.60		1.0	1.00			07/09/2008	RUN	2
ESMP	R2844803	1114756	WATER	2.00		1.0	1.00			07/09/2008		ASPB
ESMP	R2844803	1114758	WATER	1.00	U	1.0	1.00			07/09/2008		ASPB
ESMP	R2844235	1105710	WATER	811		1.0	1.00			07/09/2008		1
LDUP		1116961	WATER	766		1.0	1.00		5.68	07/09/2008		
ESMP	R2844235	1105712	WATER	27.2		1.0	1.00			07/09/2008		1
ESMP	R2844235	1105717	WATER	10.2		1.0	1.00			07/09/2008		1
ESMP	R2844841	1115225	WATER	1.50		1.0	1.00			07/09/2008		ASPB
ESMP	R2844841	1115226	WATER	0.400		1.0	1.00			07/09/2008		ASPB
ESMP	R2844842	1115240	WATER	-0.100		1.0	1.00			07/09/2008	RUN	ASPB

Records printed: 16

DATE PRINTED: 07/11/08

SOLIDS / GREASE & OIL REPORT

RUN #: 163581 **ANALYSIS DATE:** 07/09/08 ASSIGNED TO :

TEMPLATE: SM2540D TOTAL SUSPENDED SOLIDS (TSS)

TEST :

CUP#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)	VOL (ml)	(mg/L)	FLASK/ DISH ID	LS JOB#	LS LOC#
1	1116959	R28 0	MBLK	(1.3489-	1.3491)=	-0.0002	*1E6 /1000	=-0.200	34		
2	1116960	R28 0	LCS	(1.3849-	1.3639)=	0.0210	*1E6 /100	= 210	35		
3	1114423	R2844804	ESMP	(1.3676-	1.3578)=	0.0098	*1E6 /56	= 175	31		
4	1110838	R2844599	ESMP	(1.3651-	1.3623)=	0.0028	*1E6 /1000	=2.80	32		
5	1110842	R2844599	ESMP	(1.3686-	1.3638)=	0.0048	*1E6 /1000	=4.80	33		
6	1110846	R2844599	ESMP	(1.3627-	1.3603)=	0.0024	*1E6 /1000	=2.40	36		
7	1110850	R2844599	ESMP	(1.3709-	1.3683)=	0.0026	*1E6 /1000	=2.60	37		
8	1114756	R2844803	ESMP	(1.3713-	1.3693)=	0.0020	*1E6 /1000	=2.00	38		
9	1114758	R2844803	ESMP	(1.3460-	1.3460)=	0.0000	*1E6 /1000	=0	39		
10	1105710	R2844235	ESMP	(1.3646-	1.3586)=	0.0060	*1E6 /7.4	= 811	40		
11	1116961	R28 0	DUPE	(1.3627-	1.3568)=	0.0059	*1E6 /7.7	= 766	41		
12	1105712	R2844235	ESMP	(1.3779-	1.3707)=	0.0072	*1E6 /265	=27.2	42		
13	1105717	R2844235	ESMP	(1.3578-	1.3525)=	0.0053	*1E6 /520	=10.2	43		
14	1115225	R2844841	ESMP	(1.3689-	1.3674)=	0.0015	*1E6 /1000	=1.50	44		
15	1115226	R2844841	ESMP	(1.3630-	1.3626)=	0.0004	*1E6 /1000	=0.400	115		
16	1115240	R2844842	ESMP	(1.3656-	1.3657)=	-0.0001	*1E6 /1000	=-0.100	117		

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/9/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 14:00
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C **TS** ____ **TDS** ____ **TSS** X
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85174F TV: **211** Balance ID: **AE240**
Filter Lot: **WC85172E** Oven ID: 2 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
1		MB	10	1000		Gross (A) 1:	1.3635	Gross (A) 3:		-0.20
						Gross (A) 2:	1.3636			
						B)	1.3637	A-B=	-0.0002	
2		LCS	11	100		Gross (A) 1:	1.3908	Gross (A) 3:		206.00
						Gross (A) 2:	1.3909			
						B)	1.3702	A-B=	0.0206	
3	44809	R-1114616	12	1000		Gross (A) 1:	1.3622	Gross (A) 3:		0.50
						Gross (A) 2:	1.3623			
						B)	1.3617	A-B=	0.0005	
4	44770	R-1114691	13	1000		Gross (A) 1:	1.3598	Gross (A) 3:		3.00
						Gross (A) 2:	1.3598			
						B)	1.3568	A-B=	0.0030	
5		R-1114692	14	505		Gross (A) 1:	1.3672	Gross (A) 3:		23.76
						Gross (A) 2:	1.3672			
						B)	1.3552	A-B=	0.0120	
6		R-1114693	15	1000		Gross (A) 1:	1.3630	Gross (A) 3:		5.70
						Gross (A) 2:	1.3629			
						B)	1.3572	A-B=	0.0057	
7		R-1114694	16	650		Gross (A) 1:	1.3579	Gross (A) 3:		14.46
						Gross (A) 2:	1.3578			
						B)	1.3484	A-B=	0.0094	
8		R-1114696	17	565		Gross (A) 1:	1.3717	Gross (A) 3:		28.67
						Gross (A) 2:	1.3718			
						B)	1.3555	A-B=	0.0162	
9		R-1114696 DUP	18	550		Gross (A) 1:	1.3682	Gross (A) 3:		29.82
						Gross (A) 2:	1.3682			
						B)	1.3518	A-B=	0.0164	
10		R-1114697	19	1000		Gross (A) 1:	1.3801	Gross (A) 3:		8.00
						Gross (A) 2:	1.3800			
						B)	1.3720	A-B=	0.0080	
11		R-1114698	20	1000		Gross (A) 1:	1.3590	Gross (A) 3:		-0.10
						Gross (A) 2:	1.3588			
						B)	1.3589	A-B=	-0.0001	
12	44822	R-1114727	21	380		Gross (A) 1:	1.3816	Gross (A) 3:		45.26
						Gross (A) 2:	1.3815			
						B)	1.3643	A-B=	0.0172	
13	44826	R-1114786	22	1000		Gross (A) 1:	1.3707	Gross (A) 3:		4.00
						Gross (A) 2:	1.3705			
						B)	1.3665	A-B=	0.0040	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/9/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 14:00
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C **TS** ____ **TDS** ____ **TSS** X
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85174F TV: 211 Balance ID: AE240
Filter Lot: **WC85172E** Oven ID: 2 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
14	44829	R-1114810	23	875	X	Gross (A) 1:	1.3555	Gross (A) 3:		1.83
						Gross (A) 2:	1.3553			
						B)	1.3537	A-B=	0.0016	
15		R-1114820	24	875 Dil'n = 1.14286	X	Gross (A) 1:	1.3629	Gross (A) 3:		0.57
						Gross (A) 2:	1.3628			
						B)	1.3623	A-B=	0.0005	
16		R-1114823	25	925 Dil'n = 1.08108	X	Gross (A) 1:	1.3634	Gross (A) 3:		0.43
						Gross (A) 2:	1.3632			
						B)	1.3628	A-B=	0.0004	
17	44235	R-1105713	26	2		Gross (A) 1:	1.3844	Gross (A) 3:		7900.00
						Gross (A) 2:	1.3840			
						B)	1.3682	A-B=	0.0158	
18		R-1105713 DUP	27	2.1		Gross (A) 1:	1.3741	Gross (A) 3:		7714.29
						Gross (A) 2:	1.3739			
						B)	1.3577	A-B=	0.0162	
19	44771	R-1115296	28	925 Dil'n = 1.08108	X	Gross (A) 1:	1.3691	Gross (A) 3:		0.65
						Gross (A) 2:	1.3689			
						B)	1.3683	A-B=	0.0006	
20		R-1115301	29	985 Dil'n = 1.01523	X	Gross (A) 1:	1.3601	Gross (A) 3:		0.91
						Gross (A) 2:	1.3599			
						B)	1.3590	A-B=	0.0009	
21	44850	R-1115421	30	8		Gross (A) 1:	1.4021	Gross (A) 3:		5425.00
						Gross (A) 2:	1.4021			
						B)	1.3587	A-B=	0.0434	
22	44804	R-1114423	31	56		Gross (A) 1:	1.3678	Gross (A) 3:		175.00
						Gross (A) 2:	1.3676			
						B)	1.3578	A-B=	0.0098	
23	44599	R-1110838	32	1000		Gross (A) 1:	1.3655	Gross (A) 3:		2.80
						Gross (A) 2:	1.3651			
						B)	1.3623	A-B=	0.0028	
24		R-1110842	33	1000		Gross (A) 1:	1.3689	Gross (A) 3:		4.80
						Gross (A) 2:	1.3686			
						B)	1.3638	A-B=	0.0048	
25		MB	34	1000		Gross (A) 1:	1.3490	Gross (A) 3:		-0.20
						Gross (A) 2:	1.3489			
						B)	1.3491	A-B=	-0.0002	
26		LCS	35	100		Gross (A) 1:	1.3851	Gross (A) 3:		210.00
						Gross (A) 2:	1.3849			
						B)	1.3639	A-B=	0.0210	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: E. WOLFE Date: 7/9/08
Method: 160.2 / SM20 2540D Pipet: DISPOSABLE Time: 14:00
Analyte: Total Dissolved Solids (TDS)
Method: 160.1 / SM20 2540C TS ____ TDS ____ TSS X
Analyte: Total Solids (TS)
Method 160.3 / SM20 2540B LCS Lot: WC85174F TV: 211 Balance ID: AE240
Filter Lot: WC85172E Oven ID: 2 *Lower tare weight used unless marked: ____

	Submission #	Order #	Dish ID	Sample Vol. (mLs)	Used all	Raw Data				Total Solids (mg/L)
27	44599	R-1110846	36	1000		Gross (A) 1:	1.3630	Gross (A) 3:		2.40
						Gross (A) 2:	1.3627			
						B)	1.3603	A-B=	0.0024	
28		R-1110850	37	1000		Gross (A) 1:	1.3712	Gross (A) 3:		2.60
						Gross (A) 2:	1.3709			
						B)	1.3683	A-B=	0.0026	
29	44803	R-1114756	38	1000		Gross (A) 1:	1.3715	Gross (A) 3:		2.00
						Gross (A) 2:	1.3713			
						B)	1.3693	A-B=	0.0020	
30		R-1114758	39	1000		Gross (A) 1:	1.3463	Gross (A) 3:		0.00
						Gross (A) 2:	1.3460			
						B)	1.3460	A-B=	0.0000	
31	44235	R-1105710	40	7.4		Gross (A) 1:	1.3647	Gross (A) 3:		810.81
						Gross (A) 2:	1.3646			
						B)	1.3586	A-B=	0.0060	
32		R-1105710 DUP	41	7.7		Gross (A) 1:	1.3629	Gross (A) 3:		766.23
						Gross (A) 2:	1.3627			
						B)	1.3568	A-B=	0.0059	
33		R-1105712	42	265		Gross (A) 1:	1.3782	Gross (A) 3:		27.17
						Gross (A) 2:	1.3779			
						B)	1.3707	A-B=	0.0072	
34		R-1105717	43	520		Gross (A) 1:	1.3580	Gross (A) 3:		10.19
						Gross (A) 2:	1.3578			
						B)	1.3525	A-B=	0.0053	
35	44841	R-1115225	44	1000		Gross (A) 1:	1.3692	Gross (A) 3:		1.50
						Gross (A) 2:	1.3689			
						B)	1.3674	A-B=	0.0015	
36		R-1115226	115	1000		Gross (A) 1:	1.3633	Gross (A) 3:		0.40
						Gross (A) 2:	1.3630			
						B)	1.3626	A-B=	0.0004	
37	44842	R-1115240	117	1000		Gross (A) 1:	1.3658	Gross (A) 3:		-0.10
						Gross (A) 2:	1.3656			
						B)	1.3657	A-B=	-0.0001	

TS, TDS, TSS mg/L = (A-B)*1,000,000 Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

COLUMBIA ANALYTICAL SERVICES, INC

Tare Weights:

Instrument: X Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: E. WOLFE
Date: 7/9/08

Drying Tins: X
Crucible 550°C: ____
Dish 180°C: ____
Dish 104°C: ____
Dish 550°C: ____
G/O Dishes: ____

	Weight	**Actual**
s Weights (s):	0.9999 g	1 g
	____ g	____ g

ID Number	Weight	
10	1.3639	1.3637
11	1.3703	1.3702
12	1.3618	1.3617
13	1.3569	1.3568
14	1.3553	1.3552
15	1.3573	1.3572
16	1.3485	1.3484
17	1.3556	1.3555
18	1.3518	1.3519
19	1.3720	1.3720
20	1.3589	1.3589
21	1.3643	1.3643
22	1.3666	1.3665
23	1.3538	1.3537
24	1.3624	1.3623
25	1.3628	1.3628
26	1.3682	1.3682
27	1.3577	1.3577
28	1.3684	1.3683

ID Number	Weight	
29	1.3591	1.3590
30	1.3587	1.3587
31	1.3578	1.3578
32	1.3623	1.3623
33	1.3639	1.3638
34	1.3491	1.3491
35	1.3639	1.3639
36	1.3603	1.3603
37	1.3684	1.3683
38	1.3694	1.3693
39	1.3460	1.3460
40	1.3588	1.3586
41	1.3568	1.3568
42	1.3708	1.3707
43	1.3525	1.3525
44	1.3675	1.3674
115	1.3628	1.3626
117	1.3657	1.3657
~~300~~	7/15/08	

Columbia Analytical Services
1 Mustard St., Rochester, NY 14609-0859

General Chemistry Analytical Run Cover Sheet

Analyst: EW Date: 7/9/08

Analysis: Total Suspended Solids Instrument: ✓ Mettler AE 240 Analytical Balance
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC85174F	7/3/08				211
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

p:\lotus\123r22\greg\forms\cover.tss

RP 7/3/08

(A) DPD indicator
In 500mL vol. flask dissolve 0.500g (WC760075F), 0.100g EDTA (WC850170C) and 4.0mLs 1+4 H_2SO_4 (WC850278). Bring to volume w/ UPDI. Store at RT in amber glass.
Exp. 1yr or when discolored. 7/3/09

(B) Stock Chlorine
0.160mL sodium hypochlorite (WC850818H) diluted in 500mL vol. flask w/ UPDI. Fresh per run.

7/3/08 NM

(C) 0.80 M NaOH - TKN
- same as WC851618H, Exp. 1 month, 8/3/08

(D) Color Reagent - TKN
To a tared 1 Liter amber glass jar add:
~~nm 7/3/08~~ ~~75.~~ - 75.0 g Sodium Salicylate (WC851646)
-0.50g Sodium Nitroprusside (WC851020),
-454g UPDI.
stir until dissolved. store @ RT. Exp. 1 month, 8/3/08.

RP 7/3/08

(E) 0.00564 N $Na_2S_2O_3$
Dilute 28.2 mLs of 0.1N $Na_2S_2O_3$ (WC850808) to 500mLs ~~Volume~~ in a vol. flask w/ DI. ~~Prepare~~ Store at 0-6°C. Expires in 2 weeks. Exp. 7/17/08

7/3/08 EW

(F) ~~ISS~~ Reference
~~0.211g~~ 0.211g Kaolin (WC692856) brought to 1000g w/ DI. Store in ~~Plastic Bottle~~ @ 4°C.
~~TV = 211 mg/L~~ Exp: 7/3/09 TV = 211 mg/L

7/3/08 EW

(G) TSS/TVS Reference
0.300g KHP (WC760855F) diluted volumetrically to 1 Liter w/ DI. ~~Store in plastic bottle~~ @ 4°C
TV_{TS} = 300 mg/L TV_{TVS} = 200 mg/L Exp: 1/23/09

7/7/08 SBR

(H) TKN Digest Reagent
To a 2 Liter vol. flask, add 268g K_2SO_4 (WC851586) and 14.6g $CuSO_4$ (~~WC851551H~~ WC851771A) ~~SBR 7/7/08~~. Add ~500mL UPDI. Slowly add 268mL conc. trace H_2SO_4 (WC851320). Dissolve and allow to cool. Bring to volume with UPDI.
Exp 1 month. 8/7/08

7/8/08 NM

(A) Post-T
To a 2
(WC851
Pour off
w/ UPDI.
Exp. 8/7/

(B) Hypochlo
- same as

7/8/08

(C) 5g NaCl 5g

5g NaC

7/8/08 NM

(D) Ascorbi
- same

7/8/08 NM

Received
(E) · (1) x
Baker lo
Expires

7/8/08 NM

(F) Buffe
- same as

(G) Buffer
- same a

(H) Color Re
- same

(I) Buffer
- same

7/9/08 CMW

(J) Cr^{6+} S
- In a 1
1,5-Diph
100mL of
some DI
Dilute -